

30-015-39507



EOG Resources

Eddy County, NM (NAD27 NME)

Parkway "23" State #7H

Parkway "23" State #7H

OH - Job #32D0412430

Design: Actual

Standard Survey Report

29 April, 2012



Scientific Drilling
Directional Drilling Operations

Company:	EOG Resources	Local Co-ordinate Reference:	Well Parkway "23" State Com #7H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RF @ 3297 50usft (Precision #523)
Site:	Parkway "23" State Com #7H	MD Reference:	RF @ 3297.50usft (Precision #523)
Well:	Parkway "23" State Com #7H	North Reference:	Gnd
Wellbore:	OH - Job #32D0412430	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Regulatory

Project	Eddy County, NM (NAD27 NME), USA		
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	Parkway "23" State Com #7H			
Site Position:		Northing:	596,747 50 usft	Latitude: 32° 38' 24.894 N
From:	Map	Easting:	586,302 00 usft	Longitude: 104° 3' 10.692 W
Position Uncertainty:	0 00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.15 °

Well	Parkway "23" State Com #7H			
Well Position	+N/-S	0 00 usft	Northing:	596,747 50 usft
	+E/-W	0 00 usft	Easting:	586,302 00 usft
Position Uncertainty		0 00 usft	Wellhead Elevation:	usft
			Ground Level:	3,279 50 usft

Wellbore	OH - Job #32D0412430				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	04/20/12	7.74	60.47	48,730

Design	Actual			
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	90 41

Survey Program	Date 04/29/12			
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
277 00	11,535 00	MWD (OH - Job #32D0412430)	MWD	MWD - Standard ISCWSA

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
277 00	1 07	123 07	276 98	-1 41	2 17	2 18	0 39	0 39	0 00	
448 00	1 06	107 52	447 95	-2 76	5 01	5 03	0 17	-0 01	-9 09	
541 00	1 23	110 16	540 94	-3 36	6 77	6 79	0 19	0 18	2 84	
632 00	1 32	100 93	631 91	-3 90	8 72	8 74	0 25	0 10	-10 14	
722 00	1 49	102 51	721 89	-4 35	10 88	10 91	0 19	0 19	1 76	
811 00	1 58	73 53	810 86	-4 25	13 18	13 21	0 87	0 10	-32 56	
903 00	0 97	42 35	902 83	-3 31	14 92	14 95	0 98	-0 66	-33 89	
993 00	1 06	132 70	992 82	-3 32	16 05	16 07	1 60	0 10	100 39	
1,086 00	0 35	148 20	1,085 82	-4 14	16 83	16 86	0 78	-0 76	16 67	



Scientific Drilling International, Inc.

Survey Report



Company: EOG Resources
Project: Eddy County, NM (NAD27 NME)
Site: Parkway "23" State Com #7H
Well: Parkway "23" State Com #7H
Wellbore: OH - Job #32D0412430
Design: Actual

Local Co-ordinate Reference: Well Parkway "23" State Com #7H
TVD Reference: RF @ 3297 50usft (Precision #523)
MD Reference: RF @ 3297 50usft (Precision #523)
North Reference: Grd
Survey Calculation Method: Minimum Curvature
Database: EDM-Regulatory

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)
1,176 00	0 97	115 52	1,175 81	-4 70	17 66	17 70	0 78	0 69	-36 31
1,266 00	0 35	166 20	1,265 80	-5 30	18 42	18 45	0 88	-0 69	56 31
1,359 00	1 14	257 28	1,358 80	-5 78	17 58	17 62	1 29	0 85	97 94
1,448 00	1 49	261 10	1,447 77	-6 15	15 58	15 62	0 41	0 39	4 29
1,543 00	1 67	256 00	1,542 74	-6 68	13 01	13 06	0 24	0 19	-5 37
1,638 00	1 49	244 80	1,637 70	-7 54	10 55	10 60	0 38	-0 19	-11 79
1,734 00	1 67	244 00	1,733 67	-8 68	8 16	8 23	0 19	0 19	-0 83
1,829 00	1 67	239 53	1,828 63	-9 99	5 73	5 80	0 14	0 00	-4 71
1,926 00	1 85	237 95	1,925 58	-11 54	3 18	3 26	0 19	0 19	-1 63
2,021 00	1 93	278 10	2,020 53	-12 13	0 30	0 39	1 37	0 08	42 26
2,117 00	2 02	296 92	2,116 48	-11 13	-2 81	-2 73	0 68	0 09	19 60
2,212 00	2 20	300 18	2,211 41	-9 46	-5 88	-5 81	0 23	0 19	3 43
2,307 00	1 67	321 57	2,306 36	-7 46	-8 32	-8 26	0 93	-0 56	22 52
2,402 00	1 58	319 86	2,401 32	-5 37	-10 02	-9 98	0 11	-0 09	-1 80
2,593 00	1 85	322 15	2,592 23	-0 93	-13 61	-13 60	0 15	0 14	1 20
2,688 00	1 67	354 80	2,687 19	1 66	-14 68	-14 69	1 06	-0 19	34 37
2,784 00	1 32	339 37	2,783 16	4 09	-15 19	-15 22	0 55	-0 36	-16 07
2,878 00	1 23	340 40	2,877 14	6 06	-15 91	-15 96	0 10	-0 10	1 10
2,974 00	1 23	8 73	2,973 12	8 05	-16 10	-16 16	0 63	0 00	29 51
3,070 00	1 06	54 08	3,069 10	9 58	-15 23	-15 30	0 93	-0 18	47 24
3,165 00	0 97	58 12	3,164 08	10 52	-13 83	-13 91	0 12	-0 09	4 25
3,244 00	0 97	59 97	3,243 07	11 21	-12 69	-12 77	0 04	0 00	2 34
3,259 00	1 06	55 58	3,258 07	11 35	-12 46	-12 54	0 79	0 60	-29 27
3,355 00	0 97	46 52	3,354 05	12 42	-11 14	-11 23	0 19	-0 09	-9 44
3,450 00	0 88	53 82	3,449 04	13 40	-9 97	-10 06	0 16	-0 09	7 68
3,545 00	0 79	92 49	3,544 03	13 80	-8 72	-8 82	0 59	-0 09	40 71
3,641 00	0 88	75 44	3,640 02	13 96	-7 35	-7 45	0 27	0 09	-17 76
3,736 00	0 70	70 96	3,735 01	14 33	-6 09	-6 20	0 20	-0 19	-4 72
3,831 00	1 32	96 53	3,830 00	14 40	-4 46	-4 56	0 79	0 65	26 92
3,927 00	0 62	142 76	3,925 99	13 86	-3 05	-3 14	1 04	-0 73	48 16
4,022 00	0 26	247 79	4,020 98	13 37	-2 93	-3 03	0 77	-0 38	110 56
4,118 00	0 62	351 77	4,116 98	13 80	-3 21	-3 31	0 76	0 38	108 31
4,214 00	1 06	352 07	4,212 97	15 19	-3 41	-3 52	0 46	0 46	0 31
4,310 00	1 06	11 28	4,308 95	16 94	-3 36	-3 48	0 37	0 00	20 01
4,406 00	0 97	27 71	4,404 94	18 53	-2 80	-2 94	0 32	-0 09	17 11
4,501 00	0 62	53 82	4,499 93	19 55	-2 02	-2 16	0 52	-0 37	27 48
4,597 00	0 79	297 45	4,595 93	20 16	-2 18	-2 33	1 25	0 18	-121 22
4,693 00	1 06	260 27	4,691 92	20 31	-3 65	-3 79	0 67	0 28	-38 73
4,789 00	0 97	241 38	4,787 90	19 77	-5 23	-5 38	0 36	-0 09	-19 68
4,884 00	1 23	240 50	4,882 88	18 89	-6 83	-6 96	0 27	0 27	-0 93
4,979 00	1 76	222 92	4,977 85	17 32	-8 71	-8 83	0 73	0 56	-18 51
5,075 00	2 11	200 24	5,073 80	14 58	-10 32	-10 43	0 87	0 36	-23 63
5,170 00	2 11	176 25	5,168 73	11 19	-10 81	-10 89	0 92	0 00	-25 25
5,265 00	1 97	177 74	5,263 67	7 82	-10 64	-10 69	0 16	-0 15	1 57

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Site:	Parkway "23" State Com #7H	MD Reference:	RF @ 3297 50usft (Precision #523)
Well:	Parkway "23" State Com #7H	North Reference:	Grnd
Wellbore:	OH - Job #32D0412430	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Regulatory

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)
5,360.00	1.58	189.08	5,358.63	4.89	-10.78	-10.81	0.55	-0.41	11.94
5,456.00	1.06	213.08	5,454.60	2.84	-11.47	-11.49	0.78	-0.54	25.00
5,551.00	1.41	222.74	5,549.58	1.25	-12.74	-12.75	0.43	0.37	10.17
5,647.00	0.84	233.60	5,645.56	-0.04	-14.11	-14.11	0.63	-0.59	11.31
5,742.00	0.79	244.80	5,740.55	-0.73	-15.27	-15.26	0.18	-0.05	11.79
5,837.00	0.82	275.70	5,835.54	-0.94	-16.54	-16.53	0.45	0.03	32.53
5,933.00	0.53	339.90	5,931.54	-0.46	-17.37	-17.37	0.79	-0.30	66.88
6,028.00	1.67	20.42	6,026.52	1.25	-17.04	-17.05	1.38	1.20	42.65
6,124.00	1.76	27.71	6,122.48	3.87	-15.87	-15.89	0.25	0.09	7.59
6,219.00	1.93	35.45	6,217.43	6.46	-14.26	-14.31	0.32	0.18	8.15
6,314.00	1.49	2.05	6,312.39	9.00	-13.29	-13.35	1.13	-0.46	-35.16
6,393.00	1.06	328.12	6,391.37	10.65	-13.64	-13.71	1.08	-0.54	-42.95
6,463.00	2.20	101.10	6,461.35	10.94	-12.66	-12.74	4.32	1.63	189.97
6,488.00	2.90	109.37	6,486.33	10.64	-11.59	-11.67	3.16	2.80	33.08
6,520.00	5.10	100.31	6,518.25	10.11	-9.43	-9.50	7.13	6.88	-28.31
6,552.00	8.53	93.28	6,550.02	9.72	-5.66	-5.73	11.01	10.72	-21.97
6,584.00	12.22	87.13	6,581.49	9.76	0.09	0.02	12.02	11.53	-19.22
6,616.00	16.27	83.09	6,612.50	10.47	7.93	7.86	13.02	12.66	-12.63
6,648.00	20.40	83.53	6,642.87	11.63	17.93	17.84	12.91	12.91	1.38
6,679.00	24.45	85.72	6,671.52	12.72	29.70	29.61	13.34	13.06	7.06
6,711.00	28.40	89.41	6,700.17	13.30	43.92	43.82	13.36	12.34	11.53
6,743.00	30.60	93.72	6,728.03	12.85	59.66	59.57	9.55	6.88	13.47
6,774.00	33.15	95.48	6,754.35	11.52	75.97	75.89	8.75	8.23	5.68
6,806.00	36.32	95.48	6,780.65	9.78	94.12	94.05	9.91	9.91	0.00
6,838.00	38.87	93.72	6,806.00	8.23	113.58	113.51	8.65	7.97	-5.50
6,869.00	41.15	91.44	6,829.74	7.34	133.48	133.43	8.74	7.35	-7.35
6,901.00	43.09	90.03	6,853.48	7.07	154.94	154.89	6.74	6.06	-4.41
6,933.00	45.37	89.59	6,876.41	7.14	177.26	177.21	7.19	7.13	-1.38
6,965.00	47.92	89.06	6,898.37	7.42	200.52	200.47	8.06	7.97	-1.66
6,996.00	50.65	89.94	6,918.59	7.62	224.02	223.96	9.07	8.81	2.84
7,029.00	53.65	89.94	6,938.84	7.65	250.07	250.01	9.09	9.09	0.00
7,060.00	57.07	89.77	6,956.46	7.71	275.57	275.51	11.04	11.03	-0.55
7,092.00	61.11	89.85	6,972.89	7.80	303.02	302.96	12.63	12.63	0.25
7,124.00	65.16	90.56	6,987.35	7.70	331.56	331.50	12.81	12.66	2.22
7,156.00	69.29	91.17	6,999.73	7.25	361.06	361.00	13.03	12.91	1.91
7,187.00	73.60	91.52	7,009.60	6.56	390.43	390.37	13.94	13.90	1.13
7,219.00	77.56	91.61	7,017.56	5.71	421.41	421.35	12.38	12.38	0.28
7,228.00	78.35	90.73	7,019.44	5.53	430.21	430.16	12.98	8.78	-9.78
7,260.00	82.13	90.56	7,024.87	5.18	461.73	461.69	11.82	11.81	-0.53
7,292.00	84.24	90.73	7,028.66	4.82	493.50	493.46	6.61	6.59	0.53
7,324.00	84.33	90.47	7,031.85	4.49	525.34	525.30	0.86	0.28	-0.81
7,355.00	84.50	90.47	7,034.87	4.24	556.20	556.15	0.55	0.55	0.00
7,387.00	84.42	90.29	7,037.96	4.02	588.05	588.00	0.61	-0.25	-0.56

Company:	EOG Resources	Local Co-ordinate Reference:	Well Parkway "23" State Com #7H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RF @ 3297 50usft (Precision #523)
Site:	Parkway "23" State Com #7H	MD Reference:	RF @ 3297 50usft (Precision #523)
Well:	Parkway "23" State Com #7H	North Reference:	Grnd
Wellbore:	OH - Job #32D0412430	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Regulatory

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)
7,419.00	84.24	90.29	7,041.12	3.86	619.89	619.85	0.56	-0.56	0.00
7,451.00	84.15	90.29	7,044.35	3.70	651.72	651.68	0.28	-0.28	0.00
7,483.00	84.68	89.59	7,047.47	3.74	683.57	683.53	2.74	1.66	-2.19
7,515.00	85.74	89.24	7,050.14	4.06	715.46	715.41	3.49	3.31	-1.09
7,546.00	85.91	90.20	7,052.40	4.21	746.38	746.33	3.14	0.55	3.10
7,578.00	85.12	90.38	7,054.90	4.05	778.28	778.23	2.53	-2.47	0.56
7,610.00	84.94	89.50	7,057.67	4.08	810.16	810.11	2.80	-0.56	-2.75
7,642.00	85.65	88.71	7,060.30	4.58	842.04	841.99	3.31	2.22	-2.47
7,674.00	87.32	87.83	7,062.26	5.55	873.97	873.91	5.90	5.22	-2.75
7,706.00	88.55	86.78	7,063.41	7.05	905.91	905.84	5.05	3.84	-3.28
7,802.00	89.34	84.58	7,065.18	14.28	1,001.61	1,001.49	2.43	0.82	-2.29
7,897.00	87.67	84.67	7,067.66	23.18	1,096.16	1,095.97	1.76	-1.76	0.09
7,992.00	87.41	85.63	7,071.74	31.20	1,190.73	1,190.48	1.05	-0.27	1.01
8,088.00	84.59	86.78	7,078.43	37.54	1,286.28	1,285.98	3.17	-2.94	1.20
8,183.00	82.57	88.36	7,089.05	41.55	1,380.59	1,380.26	2.69	-2.13	1.66
8,280.00	83.36	90.12	7,100.94	42.82	1,476.85	1,476.50	1.98	0.81	1.81
8,375.00	84.77	90.38	7,110.76	42.41	1,571.33	1,570.99	1.51	1.48	0.27
8,471.00	86.00	91.61	7,118.48	40.75	1,667.00	1,666.67	1.81	1.28	1.28
8,503.00	86.00	91.70	7,120.71	39.82	1,698.91	1,698.58	0.28	0.00	0.28
8,534.00	87.14	92.05	7,122.57	38.81	1,729.84	1,729.52	3.85	3.68	1.13
8,566.00	87.58	92.58	7,124.04	37.52	1,761.78	1,761.47	2.15	1.38	1.66
8,598.00	88.11	93.11	7,125.25	35.93	1,793.72	1,793.41	2.34	1.66	1.66
8,630.00	89.56	93.37	7,125.90	34.12	1,825.66	1,825.37	4.60	4.53	0.81
8,662.00	90.92	93.37	7,125.76	32.24	1,857.60	1,857.32	4.25	4.25	0.00
8,757.00	91.98	93.37	7,123.36	26.66	1,952.41	1,952.17	1.12	1.12	0.00
8,789.00	91.98	93.28	7,122.25	24.81	1,984.33	1,984.10	0.28	0.00	-0.28
8,821.00	91.80	93.20	7,121.20	23.00	2,016.26	2,016.05	0.62	-0.56	-0.25
8,851.00	92.07	93.11	7,120.18	21.35	2,046.20	2,046.00	0.95	0.90	-0.30
8,884.00	92.15	92.93	7,118.97	19.61	2,079.13	2,078.94	0.60	0.24	-0.55
8,916.00	92.33	92.84	7,117.72	18.00	2,111.07	2,110.89	0.63	0.56	-0.28
8,948.00	92.24	92.67	7,116.44	16.46	2,143.01	2,142.83	0.60	-0.28	-0.53
8,980.00	91.63	92.93	7,115.36	14.90	2,174.95	2,174.79	2.07	-1.91	0.81
9,012.00	91.01	92.84	7,114.63	13.29	2,206.90	2,206.75	1.96	-1.94	-0.28
9,044.00	91.01	92.75	7,114.06	11.73	2,238.86	2,238.72	0.28	0.00	-0.28
9,075.00	90.84	93.02	7,113.56	10.17	2,269.81	2,269.68	1.03	-0.55	0.87
9,107.00	89.87	92.67	7,113.36	8.58	2,301.77	2,301.65	3.22	-3.03	-1.09
9,139.00	89.52	92.23	7,113.53	7.22	2,333.74	2,333.63	1.76	-1.09	-1.38
9,170.00	89.43	92.14	7,113.82	6.03	2,364.72	2,364.62	0.41	-0.29	-0.29
9,202.00	89.43	91.87	7,114.14	4.91	2,396.70	2,396.60	0.84	0.00	-0.84
9,234.00	88.64	92.14	7,114.67	3.80	2,428.67	2,428.58	2.61	-2.47	0.84
9,266.00	87.32	92.05	7,115.80	2.63	2,460.63	2,460.55	4.13	-4.13	-0.28
9,298.00	86.88	91.96	7,117.42	1.51	2,492.57	2,492.50	1.40	-1.38	-0.28
9,329.00	87.40	91.70	7,118.97	0.52	2,523.52	2,523.45	1.87	1.68	-0.84

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Site:	Parkway "23" State Com #7H	MD Reference:	RF @ 3297 50usft (Precision #523)
Well:	Parkway "23" State Com #7H	North Reference:	Grid
Wellbore:	OH - Job #32D0412430	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Regulatory

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)	
9,361.00	88.55	92.14	7,120.10	-0.55	2,555.48	2,555.42	3.85	3.59	1.38	
9,393.00	89.25	92.49	7,120.71	-1.84	2,587.45	2,587.39	2.45	2.19	1.09	
9,425.00	90.13	92.49	7,120.89	-3.23	2,619.42	2,619.37	2.75	2.75	0.00	
9,489.00	91.01	91.79	7,120.25	-5.62	2,683.37	2,683.34	1.76	1.38	-1.09	
9,552.00	91.41	91.61	7,118.92	-7.49	2,746.32	2,746.31	0.70	0.63	-0.29	
9,616.00	91.80	91.61	7,117.13	-9.29	2,810.27	2,810.27	0.61	0.61	0.00	
9,679.00	90.66	91.17	7,115.77	-10.82	2,873.24	2,873.24	1.94	-1.81	-0.70	
9,742.00	89.96	90.47	7,115.43	-11.72	2,936.23	2,936.24	1.57	-1.11	-1.11	
9,806.00	88.72	89.68	7,116.17	-11.80	3,000.23	3,000.23	2.30	-1.94	-1.23	
9,870.00	87.49	88.62	7,118.29	-10.86	3,064.18	3,064.18	2.54	-1.92	-1.66	
9,933.00	87.85	88.82	7,120.85	-9.45	3,127.11	3,127.10	0.65	0.57	0.32	
9,997.00	87.93	88.62	7,123.20	-8.02	3,191.05	3,191.03	0.34	0.13	-0.31	
10,060.00	88.20	88.48	7,125.33	-6.43	3,254.00	3,253.96	0.48	0.43	-0.22	
10,124.00	88.11	87.83	7,127.39	-4.37	3,317.93	3,317.88	1.02	-0.14	-1.02	
10,188.00	88.02	87.92	7,129.55	-2.00	3,381.85	3,381.78	0.20	-0.14	0.14	
10,252.00	88.46	87.46	7,131.52	0.58	3,445.77	3,445.68	0.99	0.69	-0.72	
10,316.00	88.64	87.48	7,133.14	3.41	3,509.69	3,509.57	0.28	0.28	0.03	
10,380.00	88.11	87.39	7,134.95	6.27	3,573.60	3,573.46	0.84	-0.83	-0.14	
10,444.00	86.70	87.66	7,137.85	9.03	3,637.47	3,637.31	2.24	-2.20	0.42	
10,508.00	85.38	87.92	7,142.27	11.49	3,701.27	3,701.09	2.10	-2.06	0.41	
10,571.00	84.86	88.36	7,147.63	13.53	3,764.00	3,763.81	1.08	-0.83	0.70	
10,603.00	84.77	88.45	7,150.52	14.42	3,795.86	3,795.66	0.40	-0.28	0.28	
10,635.00	85.38	88.71	7,153.27	15.21	3,827.73	3,827.53	2.07	1.91	0.81	
10,667.00	85.74	88.97	7,155.75	15.85	3,859.63	3,859.42	1.39	1.13	0.81	
10,699.00	85.82	89.15	7,158.10	16.38	3,891.54	3,891.32	0.61	0.25	0.56	
10,731.00	87.05	89.15	7,160.09	16.85	3,923.47	3,923.25	3.84	3.84	0.00	
10,763.00	87.23	89.50	7,161.69	17.23	3,955.43	3,955.21	1.23	0.56	1.09	
10,795.00	87.14	89.41	7,163.26	17.53	3,987.39	3,987.16	0.40	-0.28	-0.28	
10,827.00	87.67	89.77	7,164.71	17.76	4,019.36	4,019.13	2.00	1.66	1.13	
10,858.00	87.41	90.03	7,166.04	17.81	4,050.33	4,050.10	1.19	-0.84	0.84	
10,890.00	87.49	90.73	7,167.46	17.60	4,082.30	4,082.07	2.20	0.25	2.19	
10,922.00	87.85	91.35	7,168.76	17.02	4,114.26	4,114.04	2.24	1.13	1.94	
10,954.00	87.93	91.79	7,169.94	16.15	4,146.23	4,146.01	1.40	0.25	1.38	
10,986.00	86.88	92.93	7,171.39	14.83	4,178.17	4,177.96	4.84	-3.28	3.56	
11,018.00	86.70	92.84	7,173.18	13.22	4,210.08	4,209.88	0.63	-0.56	-0.28	
11,050.00	87.23	93.11	7,174.88	11.56	4,241.99	4,241.80	1.86	1.66	0.84	
11,080.00	87.93	93.81	7,176.14	9.75	4,271.91	4,271.73	3.30	2.33	2.33	
11,112.00	88.20	94.07	7,177.22	7.56	4,303.82	4,303.65	1.17	0.84	0.81	
11,144.00	87.93	94.25	7,178.30	5.24	4,335.71	4,335.56	1.01	-0.84	0.56	
11,176.00	88.72	95.13	7,179.24	2.62	4,367.59	4,367.46	3.69	2.47	2.75	
11,208.00	88.81	95.13	7,179.93	-0.24	4,399.46	4,399.34	0.28	0.28	0.00	
11,240.00	88.64	94.86	7,180.64	-3.03	4,431.33	4,431.23	1.00	-0.53	-0.84	
11,272.00	88.29	94.51	7,181.50	-5.64	4,463.21	4,463.13	1.55	-1.09	-1.09	
11,303.00	89.34	94.60	7,182.14	-8.10	4,494.10	4,494.05	3.40	3.39	0.29	



Scientific Drilling International, Inc.

Survey Report



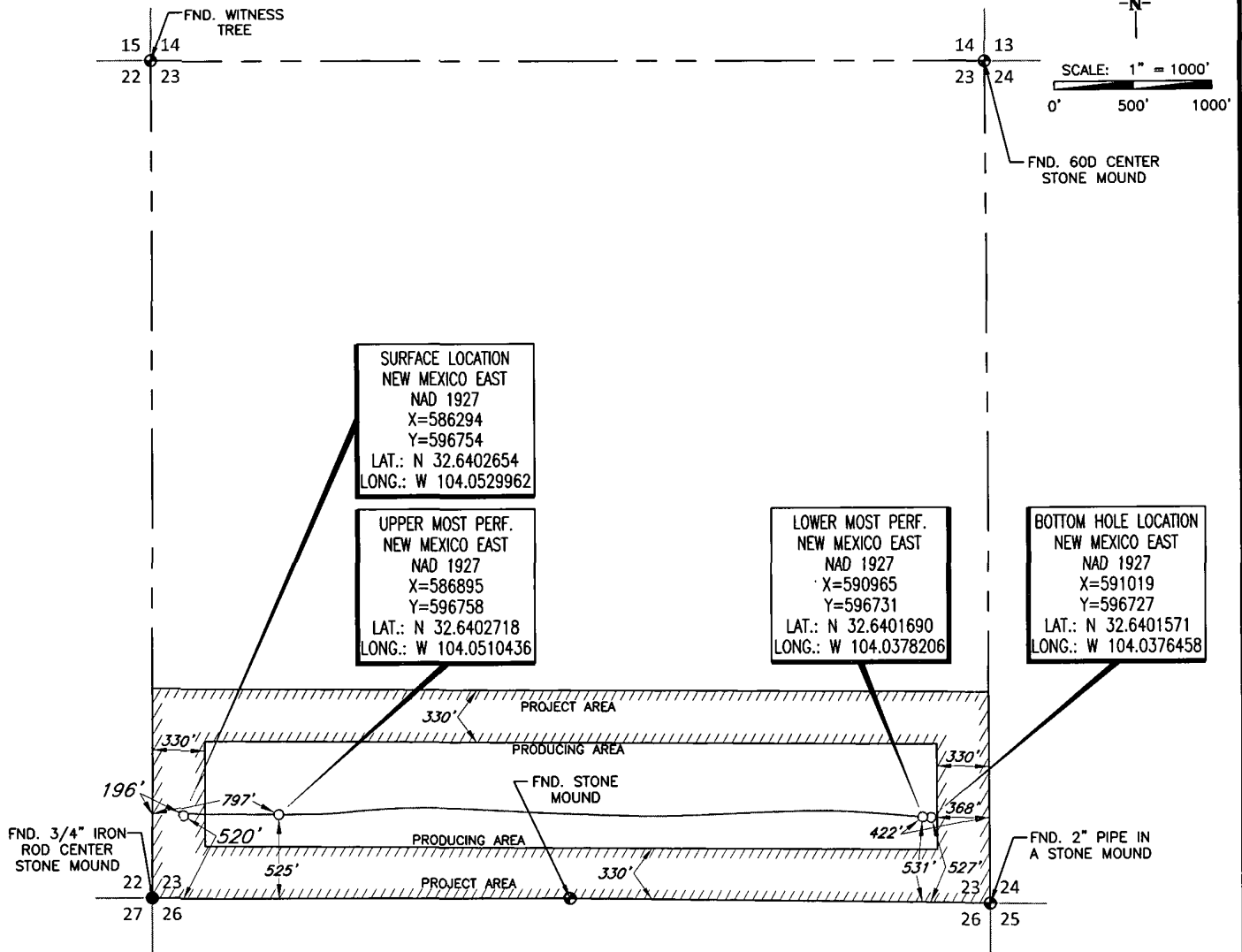
Company:	EOG Resources	Local Co-ordinate Reference:	Well Parkway "23" State Com #7H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RF @ 3297 50usft (Precision #523)
Site:	Parkway "23" State Com #7H	MD Reference:	RF @ 3297 50usft (Precision #523)
Well:	Parkway "23" State Com #7H	North Reference:	Grid
Wellbore:	OH - Job #32D0412430	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Regulatory

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)
11,335 00	90 40	95 39	7,182 21	-10 89	4,525 98	4,525 94	4 13	3 31	2 47
11,367 00	90 04	94 78	7,182 09	-13 72	4,557 85	4,557 84	2.21	-1.13	-1 91
11,399 00	90 04	94 51	7,182.07	-16 31	4,589 75	4,589 75	0 84	0 00	-0.84
11,431 00	90 31	94 16	7,181 97	-18 73	4,621 66	4,621 67	1 38	0 84	-1 09
11,463 00	91 10	94 16	7,181 58	-21 05	4,653 57	4,653 60	2 47	2 47	0 00
11,477 00	91 19	94 42	7,181 30	-22 10	4,667 53	4,667 57	1 96	0 64	1 86
Last MWD Survey									
11,535 00	91.19	94 42	7,180 09	-26.57	4,725 34	4,725 41	0 00	0 00	0 00
Projection to Bit - PBHL-Parkway "23" State Com #7H									

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,477 00	7,181 30	-22 10	4,667 53	Last MWD Survey
11,535 00	7,180 09	-26 57	4,725 34	Projection to Bit



SECTION 23, TOWNSHIP 19 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, NEW MEXICO

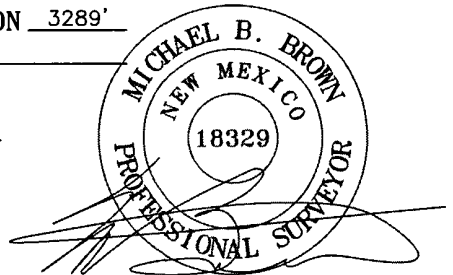


LEASE NAME & WELL NO.: PARKWAY 23 STATE COM #7H
SECTION 23 TWP 19-S RGE 29-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM ELEVATION 3289'
DESCRIPTION 520' FSL & 196' FWL

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



Michael Blake Brown, P.S. No. 18329
AUGUST 8, 2012

TOPOGRAPHIC

SURVEYING • MAPPING • GIS • GPS
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1853 • FAX (432) 682-1743
1400 EVERMAN PARKWAY, Ste. 107 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2225 PERRYTON PARKWAY • PAMPA, TEXAS 79065
TELEPHONE: (806) 665-7218 • FAX (806) 665-7210
WWW.TOPOGRAPHIC.COM

PARKWAY 23 STATE COM #7H AS-DRILLED	REVISION:	
	INT	DATE
DATE: AUGUST 8, 2012		
FILE: AD_PARKWAY23STATECOM_7H		
DRAWN BY: A.C.C.		
SHEET : 1 OF 1		

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015- 39507	Pool Code 60660	Pool Name Turkey Track; Bone Spring
Property Code 33352	Property Name PARKWAY "23" STATE	Well Number 7H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3279.5'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	19 SOUTH	29 EAST, N.M.P.M.		520'	SOUTH	200'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	23	19 SOUTH	29 EAST, N.M.P.M.		527	SOUTH	368	EAST	EDDY

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No
------------------------	-----------------	--------------------	----------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner 7/18/11
Signature Date

Stan Wagner
Printed Name

SURVEYOR CERTIFICATION

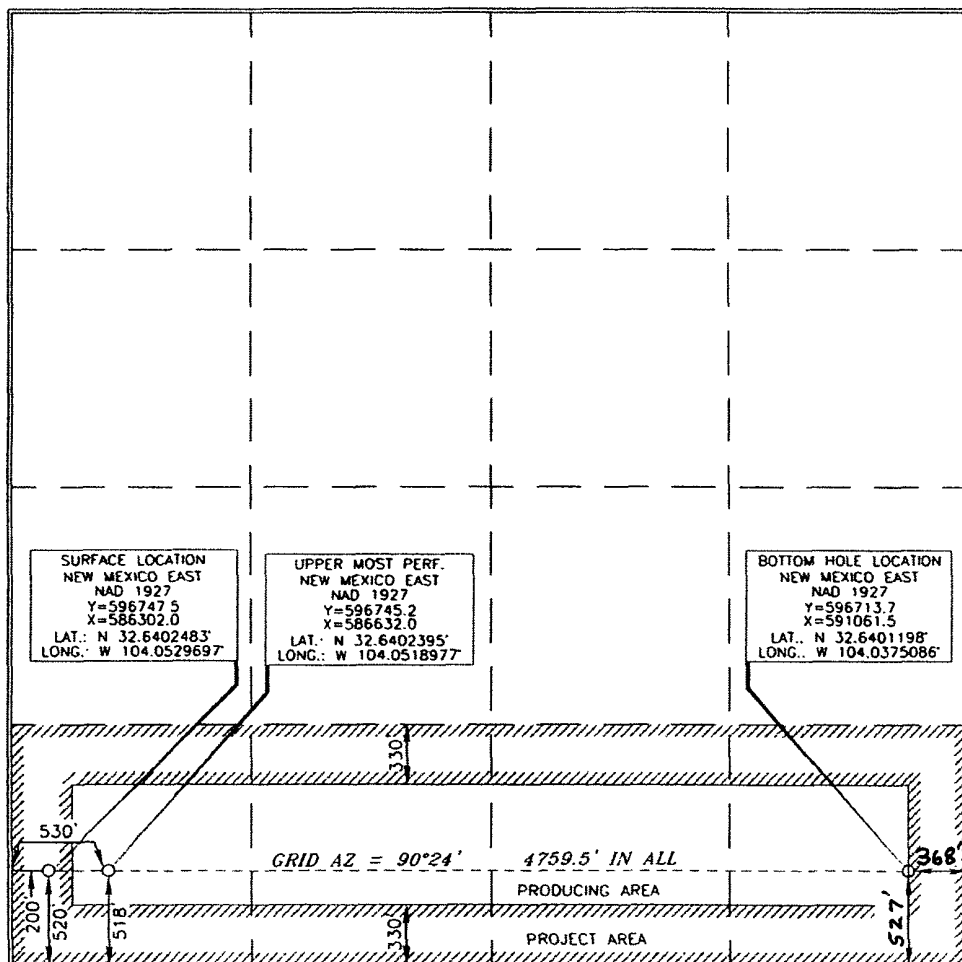
I hereby certify that the well location shown on this plat was plotted from field notes of a survey made by me or under my supervision and that the same is true and correct to the best of my belief.

15079
MAY 23 2011
Date of Survey

Signature and Seal of
Professional Surveyor

Ferry J. Paul 6/9/2011
Certificate Number 15079

WO# 110523WL-C (KA)



COMPLETED WELLBORE

DEPTH (ft)	MARKERS (KB)	LITHOLOGY	PERMIT: API: 30-015-39507 AFE: 104822 SPUD: 4/11/12 @ 07 00 hrs FRR: 5/2/12 @ 05 00 hrs RIG: Precision #523	Parkway "23" State #7H Turkey Track (Bone Spring) Field Eddy County, New Mexico	SURF: 520' FSL & 200' FWL LOC: Sec 23 Survey: T-19-S, R-29-E GL: 3279 0' KB: 3297 0' Zero: 18' AGL	HOLE SIZE	MW (ppg)	MUD	BHST (°F)	FIT (ppg)	PERFORATIONS
	Rustler - 290' Top Salt - 500' Base Salt - 1,300' Yates - 1,490' Seven Rivers - 1,810'	Salt		20" Conductor @ 60' Surface Casing @ 380' 11-3/4" 42# H40 STC Cement w/ 400 sx Class C + 2 0% CaCl2 + 0 25 pps Celloflake (14 8 ppg, 1 346 yld) Bump plug w/ 899 psi - floats held, did not circ cement to surface Top out w/ 35 bbls Clas C neat and circ 54 sx to surface		14"	8 4 8 8	Spud	80	N/R	No Logs
2,000'				TOC @ -2,800'		11"	10 0	Saturated Brine Water			11480 11385 11290 11195 11100 11005 10910 10810 10720 10625
3,000'	Queen - 2,380'			Intermediate Casing @ 3,109' (TD @ 3295') 8-5/8" 32 0# J55 LTC Cement w/ 600 sx Class C + 2 0% SMS + 10% Salt + 0 9% R-3 + 0 25 pps Celloflake (12 7 ppg, 2 22 yld), followed by 200 sx Class C + 0 6% FL-62 + 0 65% CD-32 + 0 3% SMS + 0 1% R-3 (14 8 ppg, 1 33 yld) Bump plug w/ 1269 psi and circ 122 sx to surface		8 4			N/R		10530 10435 10336 10245 10150 10055
4,000'	Brushy Cyn - 3,560'			Preliminary Directional Plan: KOP: ±6,512' md / tvd BUR 12.00°/100' in 7-7/8" hole EOC 7,246' md / 6,990' tvd EOL 11,513' md / 7,138' tvd		7-7/8"		Fresh Water			9960 9865 9770 9675 9580 9485 9390 9295 9200 9110 9012 8915 8820 8725 8630 8535 8445 8345 8250 8155 8060 7965 7875 7775 7680
5,000'	BSPG1 Carb - 4,880'										
6,000'											
7,000'	BSPG1 Sand - 6,970' BSPG2 Carb - 7,170'					8 6		Cut Brine			
8,000'				Production Casing @ 11,511' MD, 8181' TVD 5-1/2" 17 0# N80 LTC cement w/ 300 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 8% ASA-301 + 8 0 pps LCM-1 + (10 8 ppg, 3 67 yld), followed by 500 sx 50 50 10 Class H + 0 8% FL-52 + 0 30% ASA-301 + 0 5% SMS + 2 0% Salt + 0 55% R-21 + 3 0 pps LCM-1 + 25 pps Celloflake (11 8 ppg, 2 381 yld), followed by 1000 sx 50 50 2 Class H + 0 65% FL-52 + 0 50% CD-32 + 0 15% SMS + 2 0% Salt + 0 5% R-3 (14 2 ppg, 1 279 yld) Bump plug w/ 2123 psi, rupture disk and overdisplace		9 0		140			
Directions: East of Carlsbad NM HWY 62/180 14 miles turn left, north on state HWY 360 5.5 miles turn left, west on Curry Comb road 6 4 miles turn right, north .3 mile to location on left 200'.										Compl Eng: RMW	
										Date: 8/12/2012	