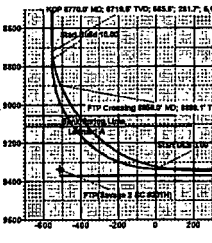
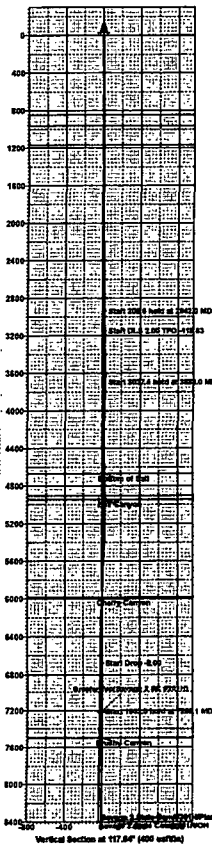


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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Savage 2 State Com

#201H

OH

Design: OH

Midland PVA

24 September, 2018



Midland PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference: Well #201H	
Project: Lea County, NM (NAD 83 NME)		TVD Reference: KB = 25 @ 3538.0usft	
Site: Savage 2 State Com		MD Reference: KB = 25 @ 3538.0usft	
Well: #201H		North Reference: Grid	
Wellbore: OH		Survey Calculation Method: Minimum Curvature	
Design: OH		Database: EDM 5000.14	

Project Lea County, NM (NAD 83 NME)			
Map System: US State Plane 1983	System Datum:		Mean Sea Level
Geo Datum: North American Datum 1983			
Map Zone: New Mexico Eastern Zone			

Site Savage 2 State Com			
Site Position:	Northing:	424,469.00 usft	Latitude: 32° 9' 54.412 N
From: Map	Easting:	751,845.00 usft	Longitude: 103° 39' 10.929 W
Position Uncertainty: 0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.36 "

Well #201H			
Well Position	Northing:	424,470.00 usft	Latitude: 32° 9' 54.420 N
+N-S 0.0 usft	Easting:	751,877.00 usft	Longitude: 103° 39' 10.556 W
+E-W 0.0 usft	Wellhead Elevation:	usft	Ground Level: 3,513.0 usft
Position Uncertainty 0.0 usft			

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	7/11/2018	6.67	59.98	47,784.42393910

Design OH				
Audit Notes:				
Version: 1.0	Phase: ACTUAL	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	177.78



Midland PVA

Company:	Eog Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3538.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 25 @ 3538.0usft
Well:	#201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program		Date	9/24/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
117.0	989.0	Wildfire Surveys GN +25' (OH)	MWD	OWSG MWD - Standard	
1,055.0	14,222.0	Driltech MWD (OH)	MWD	OWSG MWD - Standard	

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	EW (usft)	DLeg ("/100usft)	Buid ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
117.0	0.90	172.52	117.0	-0.9	0.1	0.77	0.77	0.00	0.0	0.0
128.0	1.20	142.52	128.0	-1.1	0.2	5.60	2.73	-272.73	0.0	0.0
158.0	0.80	130.52	158.0	-1.5	0.6	1.50	-1.33	-40.00	0.0	0.0
190.0	1.40	157.52	190.0	-2.0	0.9	2.43	1.87	84.37	0.0	0.0
217.0	1.40	144.52	217.0	-2.6	1.2	1.17	0.00	-48.15	0.0	0.0
245.0	0.90	178.52	245.0	-3.1	1.4	2.95	-1.79	121.43	0.0	0.0
273.0	0.50	160.52	273.0	-3.4	1.4	1.81	-1.43	-64.29	0.0	0.0
301.0	1.10	128.52	301.0	-3.7	1.7	2.59	2.14	-114.29	0.0	0.0
332.0	1.20	159.52	332.0	-4.2	2.0	2.01	0.32	100.00	0.0	0.0
363.0	0.40	194.52	363.0	-4.6	2.1	2.91	-2.58	112.90	0.0	0.0
394.0	0.40	212.52	394.0	-4.8	2.0	0.40	0.00	58.08	0.0	0.0
426.0	1.00	126.52	426.0	-5.0	2.2	3.28	1.87	-268.75	0.0	0.0
457.0	0.40	202.52	457.0	-5.3	2.4	3.17	-1.94	245.16	0.0	0.0
488.0	0.30	192.52	488.0	-5.5	2.3	0.38	-0.32	-32.26	0.0	0.0
519.0	0.40	172.52	518.9	-5.7	2.3	0.50	0.32	-64.52	0.0	0.0
549.0	0.30	189.52	548.9	-5.8	2.3	0.48	-0.33	56.67	0.0	0.0
581.0	0.30	306.52	580.9	-5.9	2.2	1.60	0.00	365.82	0.0	0.0
612.0	0.30	167.52	611.9	-5.9	2.2	1.81	0.00	-448.39	0.0	0.0
643.0	0.40	29.52	642.9	-5.9	2.3	2.11	0.32	-445.16	0.0	0.0
675.0	0.50	27.52	674.9	-5.7	2.4	0.32	0.31	-6.25	0.0	0.0



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3538.0usft
Site:	Savage 2 State Corn	MD Reference:	KB = 25 @ 3538.0usft
Well:	#201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
707.0	0.40	28.52	706.9	-5.4	2.5	0.31	-0.31	3.12	0.0	0.0	
770.0	0.20	8.52	769.9	-5.1	2.6	0.35	-0.32	-31.75	0.0	0.0	
801.0	0.50	307.52	800.9	-5.0	2.5	1.42	0.97	-196.77	0.0	0.0	
884.0	0.90	249.52	883.9	-5.0	1.8	1.21	0.63	-82.06	0.0	0.0	
895.0	0.20	3.52	894.9	-5.0	1.6	3.22	-2.28	367.74	0.0	0.0	
957.0	0.80	174.52	956.9	-5.4	1.7	1.61	0.97	275.81	0.0	0.0	
989.0	0.70	182.52	988.9	-5.8	1.7	0.58	-0.31	-37.50	0.0	0.0	
1,055.0	0.44	190.53	1,054.9	-6.4	1.8	0.57	-0.39	42.44	0.0	0.0	
1,243.0	0.28	255.75	1,242.9	-7.2	1.3	0.22	-0.10	34.68	0.0	0.0	
1,432.0	0.35	341.18	1,431.9	-6.8	0.7	0.22	0.05	45.20	0.0	0.0	
1,526.0	0.53	253.81	1,525.9	-6.6	0.2	0.66	0.19	-92.95	0.0	0.0	
1,620.0	0.97	181.74	1,619.9	-7.5	-0.3	1.01	0.47	-76.67	0.0	0.0	
1,715.0	2.11	179.28	1,714.9	-10.1	-0.3	1.20	1.20	-2.59	0.0	0.0	
1,809.0	1.85	181.13	1,808.8	-13.3	-0.3	0.28	-0.28	1.97	0.0	0.0	
1,998.0	1.32	177.96	1,997.8	-18.6	-0.3	0.28	-0.28	-1.68	0.0	0.0	
2,092.0	1.06	167.42	2,091.7	-20.5	-0.1	0.36	-0.28	-11.21	0.0	0.0	
2,186.0	0.97	159.95	2,185.7	-22.1	0.4	0.17	-0.10	-7.95	0.0	0.0	
2,281.0	0.97	152.56	2,280.7	-23.6	1.1	0.13	0.00	-7.78	0.0	0.0	
2,375.0	0.88	150.28	2,374.7	-24.9	1.8	0.10	-0.10	-2.43	0.0	0.0	
2,470.0	0.88	159.16	2,469.7	-26.2	2.4	0.14	0.00	9.35	0.0	0.0	
2,565.0	0.62	153.09	2,564.7	-27.4	2.9	0.29	-0.27	-6.39	0.0	0.0	
2,659.0	0.53	113.54	2,658.7	-28.0	3.5	0.42	-0.10	-42.07	0.0	0.0	
2,754.0	0.62	124.44	2,753.7	-28.4	4.4	0.15	0.09	11.47	0.0	0.0	
2,848.0	0.62	127.78	2,847.7	-29.0	5.2	0.04	0.00	3.55	0.0	0.0	
2,942.0	0.62	140.79	2,941.7	-29.7	5.9	0.15	0.00	13.84	0.0	0.0	
3,037.0	0.88	89.90	3,036.6	-30.1	7.0	0.72	0.27	-53.57	-0.4	0.4	
3,131.0	2.29	47.53	3,130.6	-28.9	9.1	1.86	1.50	-45.07	-3.0	0.6	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3538.0usft
Site:	Savage 2 State Corn	MD Reference:	KB = 25 @ 3538.0usft
Well:	#201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,226.0	3.69	38.57	3,225.5	-25.2	12.4	1.55	1.47	-9.43	-7.3	0.5	
3,320.0	4.57	38.55	3,319.2	-19.8	16.5	0.95	0.94	-2.15	-10.4	0.1	
3,415.0	6.60	38.64	3,413.8	-12.4	22.0	2.14	2.14	0.09	-12.9	-0.7	
3,509.0	7.91	34.88	3,507.0	-2.8	28.9	1.41	1.39	-1.87	-15.0	-2.5	
3,604.0	9.23	32.88	3,601.0	9.0	36.8	1.42	1.39	-2.13	-16.2	-4.8	
3,698.0	9.67	21.96	3,693.7	22.6	43.8	1.96	0.47	-11.60	-14.4	-8.2	
3,792.0	9.32	18.44	3,786.4	37.2	49.2	0.72	-0.37	-3.74	-12.0	-7.6	
3,887.0	8.18	19.76	3,880.3	50.9	53.9	1.22	-1.20	1.39	-9.0	-5.5	
3,981.0	7.03	17.74	3,973.5	62.6	57.9	1.26	-1.22	-2.15	-3.9	-3.8	
4,075.0	7.47	20.38	4,068.7	73.8	61.8	0.59	0.47	2.81	1.4	-2.0	
4,170.0	8.97	24.42	4,160.7	86.4	67.0	1.68	1.58	4.25	5.4	-1.4	
4,264.0	9.15	25.56	4,253.6	99.8	73.3	0.27	0.19	1.21	8.0	-1.6	
4,359.0	8.79	27.94	4,347.4	113.0	79.9	0.54	-0.38	2.51	10.8	-2.5	
4,453.0	8.79	31.89	4,440.3	125.4	87.1	0.64	0.00	4.20	13.5	-4.8	
4,547.0	8.88	34.26	4,533.2	137.5	95.0	0.40	0.10	2.52	16.1	-7.8	
4,642.0	8.97	34.00	4,627.0	149.7	103.2	0.10	0.09	-0.27	18.9	-10.5	
4,699.0	8.18	33.38	4,683.4	156.8	108.0	1.40	-1.39	-1.09	21.0	-11.9	
4,821.0	7.03	29.52	4,804.3	170.6	116.4	1.03	-0.94	-3.16	28.2	-12.8	
4,916.0	8.97	31.19	4,898.4	182.0	123.1	2.06	2.04	1.76	32.2	-15.3	
5,010.0	10.38	33.56	4,991.1	195.3	131.6	1.56	1.50	2.52	33.0	-18.9	
5,104.0	11.61	24.42	5,083.3	211.0	140.2	2.27	1.31	-9.72	35.1	-14.7	
5,198.0	12.05	21.43	5,175.3	228.7	147.7	0.80	0.47	-3.18	33.9	-12.2	
5,292.0	11.87	21.61	5,267.3	246.8	154.8	0.20	-0.19	0.19	31.7	-11.3	
5,387.0	11.61	20.55	5,360.3	264.9	161.8	0.36	-0.27	-1.12	30.1	-9.5	
5,481.0	11.70	19.67	5,452.4	282.7	168.3	0.21	0.10	-0.94	28.5	-7.5	
5,575.0	11.70	18.71	5,544.4	300.7	174.6	0.21	0.00	-1.02	26.9	-5.3	
5,669.0	11.17	17.39	5,636.6	318.4	180.3	0.63	-0.56	-1.40	25.6	-2.6	



Midland PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference: Well #201H			
Project: Lea County, NM (NAD 83 NME)		TVD Reference: KB = 25 @ 3538.0usft			
Site: Savage 2 State Com		MD Reference: KB = 25 @ 3538.0usft			
Well: #201H		North Reference: Grid			
Wellbore: OH		Survey Calculation Method: Minimum Curvature			
Design: OH		Database: EDM 5000.14			

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
5,764.0	10.11	17.48	5,729.9	335.1	185.6	1.12	-1.12	0.09	25.5	-0.3	
5,858.0	10.02	16.25	5,822.5	350.9	190.4	0.25	-0.10	-1.31	26.3	2.7	
5,952.0	9.94	12.91	5,915.1	366.6	194.5	0.82	-0.09	-3.55	26.9	7.4	
6,046.0	9.32	11.15	6,007.7	382.0	197.8	0.73	-0.66	-1.87	27.9	12.2	
6,141.0	9.23	10.01	6,101.5	397.0	200.6	0.22	-0.09	-1.20	29.4	17.1	
6,235.0	9.23	8.16	6,194.3	411.9	202.9	0.32	0.00	-1.97	30.4	22.9	
6,329.0	9.06	20.29	6,287.1	426.3	206.6	2.06	-0.18	12.90	37.1	19.1	
6,424.0	9.15	24.68	6,380.9	440.2	212.3	0.74	0.09	4.62	41.1	16.9	
6,518.0	8.62	25.91	6,473.8	453.3	218.5	0.60	-0.56	1.31	44.4	16.0	
6,613.0	8.44	24.77	6,567.7	466.1	224.6	0.26	-0.19	-1.20	47.6	16.8	
6,707.0	8.00	23.37	6,660.7	478.3	230.0	0.51	-0.47	-1.49	51.2	18.3	
6,801.0	7.39	22.66	6,753.9	489.9	235.0	0.66	-0.65	-0.76	55.1	19.5	
6,896.0	7.21	23.01	6,848.1	501.1	239.7	0.20	-0.19	0.37	57.0	19.7	
6,990.0	6.68	24.33	6,941.4	511.5	244.2	0.59	-0.56	1.40	56.6	18.7	
7,084.0	6.33	25.21	7,034.8	521.1	248.7	0.39	-0.37	0.94	53.6	17.9	
7,179.0	4.04	23.98	7,129.4	528.9	252.3	2.41	-2.41	-1.29	49.0	19.0	
7,273.0	2.73	15.89	7,223.3	534.1	254.2	1.48	-1.39	-8.61	41.4	25.4	
7,368.0	2.73	18.62	7,318.2	538.4	255.6	0.14	0.00	2.87	38.1	23.5	
7,462.0	2.64	16.77	7,412.1	542.6	256.9	0.13	-0.10	-1.97	32.9	24.7	
7,556.0	2.46	12.38	7,506.0	546.7	258.0	0.28	-0.19	-4.67	26.7	28.9	
7,651.0	2.29	13.87	7,600.9	550.5	258.9	0.19	-0.18	1.57	23.5	26.3	
7,745.0	2.11	14.66	7,694.8	554.0	259.7	0.19	-0.19	0.84	20.2	26.0	
7,839.0	1.76	22.31	7,788.8	557.0	260.7	0.46	-0.37	8.14	20.4	23.3	
7,934.0	1.49	5.79	7,883.7	559.6	261.4	0.57	-0.28	-17.39	10.3	27.7	
8,028.0	1.32	2.45	7,977.7	561.9	261.6	0.20	-0.18	-3.55	6.3	28.2	
8,122.0	1.23	9.57	8,071.7	564.0	261.8	0.19	-0.10	7.57	7.7	27.3	
8,216.0	0.97	20.55	8,165.7	565.7	262.2	0.35	-0.28	11.68	11.0	25.5	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3538.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 25 @ 3538.0usft
Well:	#201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (")	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
8,311.0	0.88	9.74	8,260.8	567.2	262.6	0.21	-0.09	-11.38	4.5	27.0	
8,405.0	0.62	14.75	8,354.6	568.4	262.9	0.28	-0.28	5.33	5.6	26.6	
8,500.0	0.44	334.50	8,449.6	569.2	262.9	0.42	-0.19	-42.37	-13.7	23.5	
8,594.0	0.35	247.40	8,543.6	569.4	262.4	0.58	-0.10	-92.66	-24.5	-12.8	
8,688.0	0.44	191.50	8,637.6	569.0	262.1	0.40	0.10	-59.47	-3.6	-27.7	
8,705.0	0.62	215.14	8,654.6	568.8	262.0	1.84	1.06	139.06	-14.6	-23.9	
8,770.0	5.10	182.58	8,719.5	565.6	261.7	7.07	6.90	-50.10	-2.6	-28.2	
KOP 8770.0' MD; 8716.5' TVD; 565.6' N/S; 261.7' E/W											
8,816.0	8.35	180.95	8,765.2	560.3	261.6	7.07	7.06	-3.54	-7.1	-28.3	
8,863.0	16.53	178.76	8,811.1	550.1	261.7	17.43	17.40	-4.66	-14.1	-28.3	
8,910.0	20.58	181.04	8,855.6	535.2	261.6	8.75	8.62	4.85	-24.4	-26.5	
8,956.0	24.45	183.29	8,898.1	517.6	261.0	8.61	8.40	4.89	-33.8	-23.9	
FTP Crossing 8956.0' MD; 8898.1' TVD; 517.6' N/S; 261.0' E/W											
8,957.0	24.53	183.33	8,899.0	517.2	260.9	8.61	8.44	4.14	-34.0	-23.8	
9,005.0	28.14	187.46	8,942.0	496.0	258.9	8.43	7.52	8.60	-43.3	-19.7	
9,052.0	30.95	189.30	8,982.9	473.1	255.5	6.28	5.98	3.91	-49.8	-17.4	
9,099.0	35.79	191.06	9,022.2	447.6	250.9	10.50	10.30	3.74	-55.1	-15.6	
9,146.0	40.10	189.74	9,059.2	419.2	245.7	9.33	9.17	-2.81	-59.2	-16.4	
9,193.0	41.15	190.80	9,094.9	389.1	240.2	2.67	2.23	2.26	-61.7	-15.1	
9,240.0	45.20	191.85	9,129.2	357.6	233.9	8.75	8.62	2.23	-61.9	-14.5	
9,288.0	49.95	192.20	9,161.5	323.0	226.5	8.91	9.90	0.73	-61.3	-14.9	
9,335.0	52.50	194.22	9,191.0	287.3	218.1	6.38	5.43	4.30	-59.5	-15.3	
9,382.0	54.96	195.54	9,218.8	250.7	208.4	5.70	5.23	2.81	-55.3	-17.7	
9,429.0	59.71	193.17	9,244.1	212.4	198.6	10.96	10.11	-5.04	-49.3	-21.4	
9,476.0	64.72	190.97	9,266.0	171.7	189.9	11.43	10.66	-4.68	-43.2	-22.9	
9,523.0	68.50	189.65	9,284.7	129.3	182.2	8.45	8.04	-2.81	-36.8	-22.7	
9,570.0	71.84	188.07	9,300.6	85.6	175.4	7.78	7.11	-3.36	-29.3	-21.1	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3538.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 25 @ 3538.0usft
Well:	#201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
9,617.0	75.71	185.00	9,313.8	40.8	170.3	10.35	8.23	-8.53	-20.8	-17.5
9,664.0	79.58	184.29	9,323.8	-5.0	169.8	8.37	8.23	-1.51	-12.1	-12.2
9,720.0	81.60	184.47	9,333.0	-60.1	162.4	3.62	3.61	0.32	-3.4	-7.0
9,757.0	84.06	183.06	9,337.6	-96.7	160.0	7.65	6.65	-3.81	0.9	-4.0
9,852.0	88.37	181.57	9,343.9	-191.4	156.1	4.80	4.54	-1.57	6.5	2.7
9,946.0	89.52	181.13	9,345.6	-285.3	153.9	1.31	1.22	-0.47	7.6	6.3
10,041.0	90.75	180.51	9,345.4	-380.3	152.6	1.45	1.29	-0.65	6.7	6.1
10,135.0	90.57	181.48	9,344.3	-474.3	150.9	1.05	-0.19	1.03	4.9	3.8
10,229.0	88.20	180.78	9,345.3	-568.3	149.1	2.63	-2.52	-0.74	5.3	1.2
10,323.0	87.85	180.16	9,348.5	-662.2	148.3	0.76	-0.37	-0.66	7.9	-0.3
10,417.0	88.20	179.90	9,351.8	-756.2	148.3	0.46	0.37	-0.28	10.4	-1.0
10,511.0	87.93	179.46	9,354.9	-850.1	148.8	0.55	-0.29	-0.47	13.0	-1.2
10,605.0	87.85	178.93	9,358.4	-944.0	150.1	0.57	-0.09	-0.56	15.8	-0.5
10,700.0	89.08	179.11	9,360.9	-1,039.0	151.7	1.31	1.29	0.19	17.6	0.4
10,794.0	89.43	179.28	9,362.2	-1,133.0	153.1	0.41	0.37	0.18	18.2	1.0
10,888.0	89.16	178.76	9,363.3	-1,226.9	154.7	0.62	-0.29	-0.55	18.7	1.9
10,983.0	88.55	179.11	9,365.2	-1,321.9	156.4	0.74	-0.64	0.37	19.9	3.0
11,077.0	91.28	177.96	9,365.4	-1,415.9	158.8	3.15	2.90	-1.22	19.3	4.7
11,171.0	92.15	177.17	9,362.6	-1,509.7	162.8	1.25	0.93	-0.84	15.8	8.0
11,266.0	92.24	178.32	9,358.9	-1,604.6	166.6	1.21	0.09	1.21	11.5	11.1
11,360.0	93.03	179.28	9,354.6	-1,698.5	168.5	1.32	0.84	1.02	6.5	12.4
11,454.0	90.66	181.39	9,351.6	-1,792.4	168.0	3.37	-2.52	2.24	2.8	11.1
11,549.0	91.63	182.71	9,349.7	-1,887.3	164.6	1.72	1.02	1.39	0.2	7.0
11,643.0	86.35	183.94	9,351.3	-1,981.1	159.1	5.77	-5.62	1.31	1.2	0.9
11,738.0	87.49	184.29	9,356.4	-2,075.7	152.3	1.26	1.20	0.37	5.6	-6.6
11,832.0	88.11	181.83	9,360.0	-2,169.5	147.3	2.70	0.66	-2.62	8.5	-12.3
11,927.0	88.55	182.10	9,362.8	-2,264.4	144.1	0.54	0.46	0.28	10.6	-16.3



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3538.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 25 @ 3538.0usft
Well:	#201H	North Reference:	Grid
WellBore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
12,021.0	88.29	180.34	9,365.4	-2,358.4	142.1	1.89	-0.28	-1.87	12.5	-18.9	
12,116.0	88.29	178.67	9,368.2	-2,453.3	142.9	1.76	0.00	-1.76	14.6	-18.8	
12,210.0	89.87	178.73	9,369.7	-2,547.2	148.6	2.66	1.68	-2.06	15.4	-15.7	
12,304.0	90.40	178.47	9,369.5	-2,641.1	152.2	0.63	0.56	-0.28	14.5	-10.8	
12,398.0	93.12	177.00	9,366.6	-2,734.8	157.6	2.95	2.89	0.56	11.0	-8.2	
12,493.0	93.47	177.61	9,361.2	-2,829.6	162.0	0.74	0.37	0.64	4.8	-2.4	
12,587.0	92.59	177.96	9,356.2	-2,923.4	165.7	1.01	-0.94	0.37	-0.9	0.6	
12,681.0	92.86	177.88	9,351.7	-3,017.2	169.1	0.30	0.29	-0.09	-6.0	3.3	
12,776.0	92.24	177.88	9,347.5	-3,112.1	172.6	0.65	-0.65	0.00	-10.9	6.1	
12,870.0	90.57	179.11	9,345.2	-3,206.0	175.0	2.21	-1.78	1.31	-13.9	7.9	
12,964.0	89.60	178.32	9,345.1	-3,300.0	177.2	1.33	-1.03	-0.84	-14.7	9.3	
13,059.0	88.02	177.88	9,347.0	-3,394.9	180.3	1.73	-1.66	-0.46	-13.5	11.8	
13,153.0	89.87	179.63	9,348.8	-3,488.8	182.3	2.71	1.97	1.86	-12.4	13.1	
13,248.0	89.60	179.55	9,349.2	-3,583.8	183.0	0.30	-0.28	-0.08	-12.7	13.1	
13,342.0	88.37	180.25	9,350.9	-3,677.8	183.2	1.51	-1.31	0.74	-11.7	12.6	
13,436.0	90.66	180.16	9,351.7	-3,771.8	182.8	2.44	2.44	-0.10	-11.6	11.6	
13,530.0	92.42	178.55	9,349.1	-3,865.8	183.1	1.98	1.87	-0.65	-14.8	11.1	
13,624.0	92.86	178.67	9,344.8	-3,959.7	184.5	1.05	0.47	-0.94	-19.8	11.9	
13,719.0	93.47	178.84	9,339.6	-4,054.5	186.6	0.67	0.64	0.18	-25.7	13.3	
13,813.0	93.21	181.22	9,334.1	-4,148.3	186.6	2.54	-0.28	2.53	-31.9	12.6	
13,907.0	90.84	181.66	9,330.6	-4,242.2	184.2	2.56	-2.52	0.47	-35.9	9.5	
14,002.0	90.84	181.13	9,329.4	-4,337.2	181.9	0.56	0.00	-0.56	-38.0	6.5	
14,096.0	90.84	180.34	9,328.0	-4,431.2	180.7	0.84	0.00	-0.84	-40.1	4.6	
14,162.0	91.45	180.07	9,326.7	-4,497.2	180.4	1.01	0.92	-0.41	-41.9	3.9	
Last MWD Survey (MD = 14162.0)											
14,222.0	91.45	180.07	9,325.2	-4,557.1	180.4	0.00	0.00	0.00	-43.8	3.4	
Projection to Bit (MD = 14222.0)											



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3538.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 25 @ 3538.0usft
Well:	#201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
8,770.0	8,719.5	565.6	261.7	KOP 8770.0' MD; 8719.5' TVD; 565.6'; 261.7'; 5.10
8,856.0	8,888.1	517.6	261.0	FTP Crossing 8856.0' MD; 8888.1' TVD; 517.6'; 261.0'; 24.45
14,162.0	9,326.7	-4,497.2	180.4	Last MWD Survey (MD = 14162.0)
14,222.0	9,325.2	-4,557.1	180.4	Projection to Bit (MD = 14222.0)

Checked By: _____	Approved By: _____	Date: _____
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