



Lea County, NM (NAD 83 NME)

Savage 2 State Com #101H

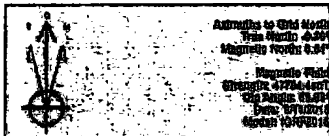
Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #101H

KB = 25 @ 3538.0usft
Northing 424469.00 Easting 751845.00 Latitude 32° 9' 54.412 N Longitude 103° 39' 10.929 W



To convert a Magnetic Direction to a Grid Direction, Add 0.51°
To convert a Magnetic Direction to a True Direction, Add 9.87° East
To convert a True Direction to a Grid Direction, Subtract 0.36°

SECTION DETAILS

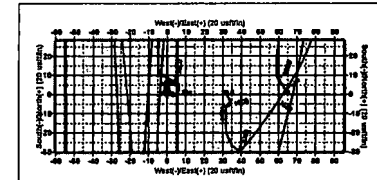
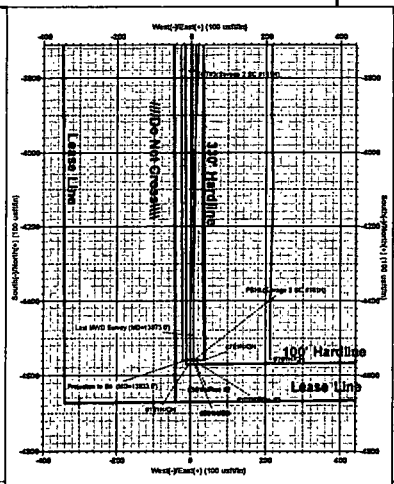
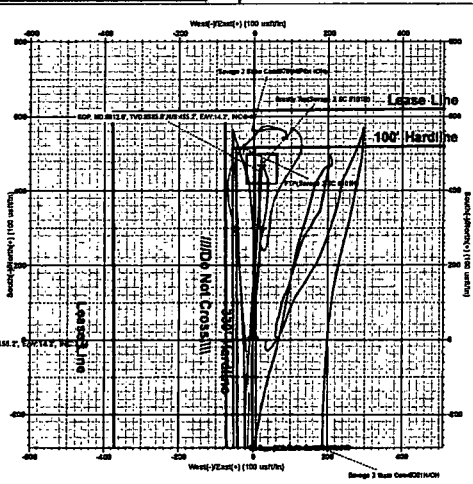
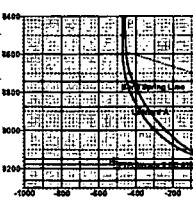
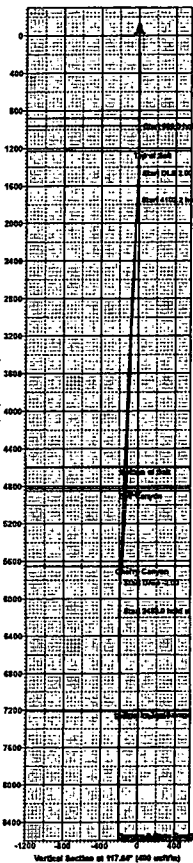
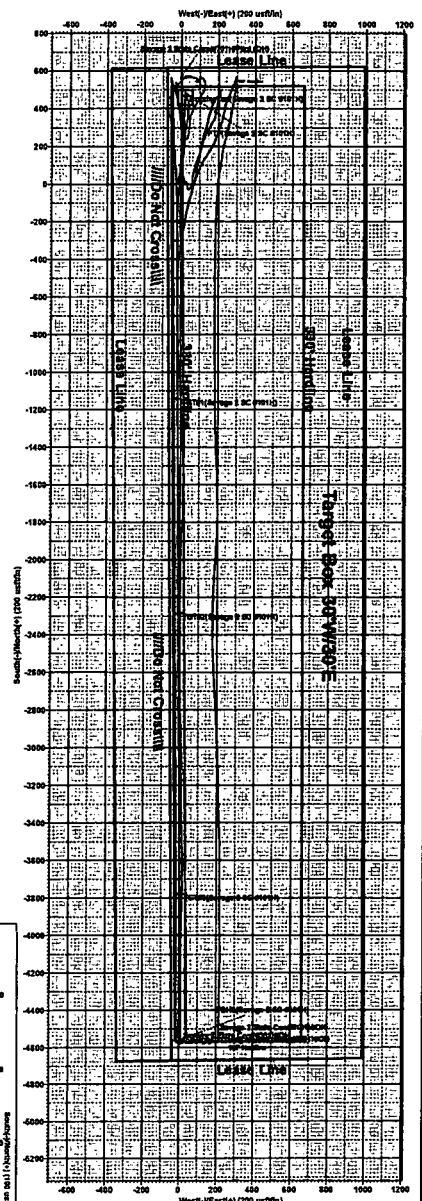
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	968.0	0.97	297.16	967.9	6.8	4.2	0.00	0.00	-5.6	
2	1468.0	0.97	297.16	1467.8	10.5	-3.3	0.00	0.00	-10.5	
3	1751.6	6.00	3.17	1750.9	26.4	-4.8	2.00	74.97	-26.4	
4	5853.9	6.00	3.17	5830.7	454.3	19.1	0.00	0.00	-454.3	
5	6153.7	0.00	0.00	6130.0	470.0	20.0	2.00	180.00	-470.0	
6	8612.7	0.00	0.00	8589.0	470.0	20.0	0.00	0.00	-470.0	
7	9508.3	89.58	183.68	9181.9	-97.4	-16.5	10.00	183.68	97.4	
8	9713.4	89.58	179.58	9183.5	-302.3	-22.3	2.00	-90.05	302.3	
9	10553.1	89.58	179.58	9170.0	-1142.0	-16.1	0.00	0.00	1142.0	TGT#1(Savage 2 SC #101H)
10	10556.1	89.50	179.58	9170.0	-1145.0	-16.1	2.00	-178.61	1144.9	TGT#2(Savage 2 SC #101H)
11	11695.2	89.50	179.58	9180.0	-2285.0	-7.7	0.00	0.00	2285.0	
12	11702.1	89.62	179.58	9180.0	-2290.9	-7.7	2.00	0.00	2290.9	
13	13191.3	89.62	179.58	9190.0	-3780.0	3.3	0.00	0.00	3780.0	TGT#3(Savage 2 SC #101H)
14	13192.0	89.63	179.58	9180.0	-3780.8	3.3	2.00	0.00	3780.8	
15	13970.3	89.63	179.58	9195.0	-4559.0	9.0	0.00	0.00	4559.0	PBHL(Savage 2 SC #101H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brushy Top(Savage 2 SC #101H)	7210.0	470.0	20.0	424939.00	751885.00
PTT(Savage 2 SC #101H)	9162.0	516.0	-28.0	424958.00	751817.00
TGT1(Savage 2 SC #101H)	9170.0	-1142.0	-16.1	423327.00	751626.85
TGT2(Savage 2 SC #101H)	9180.0	-2285.0	-7.7	422184.00	751837.26
TGT3(Savage 2 SC #101H)	9180.0	-3780.0	3.3	420553.00	751648.27
PBHL(Savage 2 SC #101H)	9185.0	-4559.0	9.0	419910.00	751654.00





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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Savage 2 State Com

#101H

OH

Design: OH

Midland PVA

02 October, 2018



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #101H
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:	#101H	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
From:	Map	Easting:	751,845.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 9' 54.412 N
		Longitude:	103° 39' 10.929 W
		Grid Convergence:	0.36 °

Well	#101H		
Well Position	+N-S	0.0 usft	Northing: 424,469.00 usft
	+E-W	0.0 usft	Easting: 751,845.00 usft
Position Uncertainty	0.0 usft		Wellhead Elevation: usft
			Latitude: 32° 9' 54.412 N
			Longitude: 103° 39' 10.929 W
			Ground Level: 3,513.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	9/11/2018	6.87
			Dip Angle (°)
			59.98
			Field Strength (nT)
			47,784.41175771

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)
	0.0	0.0	0.0
			Direction (°)
			179.89

Survey Program	Date 10/2/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
179.0	13,933.0	Dritech MWD (OH)	MWD
			Description
			OWSG MWD - Standard



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #101H
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:	#101H	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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0
179.0	0.87	99.76	179.0	-0.3	1.5	0.54	0.54	0.00	0.0	0.0	0.0
268.0	1.23	84.03	268.0	-0.3	3.2	0.45	0.29	-17.67	0.0	0.0	0.0
324.0	0.97	70.93	324.0	-0.1	4.2	0.64	-0.46	-23.39	0.0	0.0	0.0
383.0	0.97	47.38	383.0	0.4	5.1	0.67	0.00	-39.92	0.0	0.0	0.0
443.0	0.88	26.37	442.9	1.2	5.6	0.58	-0.15	-35.02	0.0	0.0	0.0
503.0	0.97	5.63	502.9	2.1	5.9	0.57	0.15	-34.57	0.0	0.0	0.0
563.0	1.06	21.63	562.9	3.1	6.2	0.49	0.15	26.67	0.0	0.0	0.0
623.0	0.97	2.12	622.9	4.2	6.4	0.59	-0.15	-32.52	0.0	0.0	0.0
716.0	0.35	340.93	715.9	5.2	6.3	0.71	-0.67	-22.78	0.0	0.0	0.0
779.0	0.35	272.73	778.9	5.4	6.1	0.62	0.00	-108.25	0.0	0.0	0.0
873.0	0.70	315.09	872.9	5.8	5.4	0.53	0.37	45.06	0.0	0.0	0.0
968.0	0.97	297.16	967.9	6.6	4.2	0.39	0.28	-18.87	0.0	0.0	0.0
1,003.0	1.23	272.64	1,002.9	6.8	3.6	1.52	0.74	-70.06	-0.1	0.1	0.1
1,055.0	1.23	266.40	1,054.9	6.7	2.5	0.26	0.00	-12.00	-0.5	0.5	0.5
1,149.0	1.23	260.43	1,148.9	6.5	0.5	0.14	0.00	-6.35	-1.3	1.3	1.3
1,243.0	0.97	255.33	1,242.8	6.1	-1.3	0.30	-0.28	-5.43	-2.0	2.1	2.1
1,337.0	0.88	249.88	1,336.8	5.7	-2.7	0.13	-0.10	-5.80	-2.6	3.0	3.0
1,432.0	0.35	312.19	1,431.8	5.6	-3.6	0.82	-0.56	65.59	2.4	4.0	4.0
1,526.0	2.99	4.05	1,525.8	8.3	-3.7	2.97	2.81	55.17	3.2	-0.6	-0.6
1,620.0	5.98	5.19	1,619.5	15.6	-3.0	3.18	3.18	1.21	-0.2	-1.7	-1.7
1,714.0	7.12	3.96	1,712.9	26.3	-2.2	1.22	1.21	-1.31	-3.8	-2.3	-2.3
1,808.0	6.33	2.38	1,808.2	37.3	-1.6	0.86	-0.84	-1.68	-5.2	-2.5	-2.5
1,903.0	5.98	2.82	1,900.7	47.5	-1.1	0.37	-0.37	0.46	-5.5	-2.3	-2.3
1,998.0	5.45	2.29	1,995.2	56.9	-0.7	0.56	-0.56	-0.56	-5.0	-2.3	-2.3
2,092.0	4.84	1.32	2,088.8	65.3	-0.4	0.66	-0.65	-1.03	-3.5	-2.1	-2.1
2,186.0	4.22	1.15	2,182.5	72.7	-0.3	0.66	-0.66	-0.18	-1.1	-1.8	-1.8



Midland PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference: Well #101H	
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: #101H		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)	EAH (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
2,281.0	3.69	2.12	2,277.3	79.3	-0.1	0.56	-0.56	1.02	2.2	-1.5	
2,375.0	4.04	2.29	2,371.1	85.6	0.2	0.37	0.37	0.18	5.7	-1.4	
2,469.0	6.86	6.25	2,464.7	94.5	0.9	3.02	3.00	4.21	6.5	-2.1	
2,564.0	7.91	6.86	2,558.9	106.7	2.3	1.11	1.11	0.64	4.2	-2.7	
2,659.0	6.77	6.33	2,653.1	118.7	3.7	1.20	-1.20	-0.56	1.9	-3.3	
2,753.0	5.80	6.51	2,746.5	128.9	4.9	1.03	-1.03	0.19	1.4	-3.8	
2,847.0	5.28	2.91	2,840.1	138.0	5.6	0.67	-0.55	-3.83	2.4	-4.0	
2,942.0	5.80	4.22	2,934.6	147.1	6.2	0.56	0.55	1.38	3.1	-4.1	
3,036.0	7.56	5.63	3,028.0	158.0	7.1	1.88	1.87	1.50	1.9	-4.5	
3,131.0	6.68	4.40	3,122.3	169.7	8.2	0.94	-0.93	-1.29	0.1	-4.8	
3,225.0	6.07	4.05	3,215.7	180.2	8.9	0.65	-0.65	-0.37	-0.5	-5.0	
3,320.0	5.10	7.65	3,310.2	189.3	9.9	1.09	-1.02	3.79	-0.1	-5.4	
3,414.0	4.22	9.85	3,403.9	196.9	11.0	0.96	-0.94	2.34	1.8	-6.4	
3,509.0	4.04	3.08	3,498.7	203.7	11.8	0.55	-0.19	-7.13	5.7	-6.5	
3,603.0	6.07	4.14	3,592.3	211.9	12.3	2.16	2.16	1.13	7.1	-6.7	
3,697.0	6.95	6.25	3,685.7	222.6	13.3	0.97	0.94	2.24	6.0	-7.3	
3,792.0	5.54	5.28	3,780.1	232.8	14.4	1.49	-1.48	-1.02	5.7	-7.7	
3,886.0	4.48	5.10	3,873.8	241.0	15.1	1.13	-1.13	-0.19	7.3	-8.0	
3,981.0	5.98	359.65	3,968.4	249.7	15.4	1.66	1.58	-5.74	9.3	-7.0	
4,075.0	6.07	4.40	4,061.8	259.5	15.7	0.54	0.10	5.05	8.7	-7.6	
4,169.0	4.48	11.78	4,155.4	268.1	16.9	1.84	-1.69	7.85	8.7	-8.5	
4,264.0	6.33	2.73	4,250.0	276.9	17.9	2.14	1.95	-9.53	11.2	-8.5	
4,453.0	5.54	17.23	4,438.0	286.0	21.1	0.89	-0.42	7.67	8.6	-13.2	
4,547.0	4.48	19.78	4,531.7	303.8	23.7	1.15	-1.13	2.71	9.3	-16.2	
4,641.0	5.98	16.00	4,625.3	312.0	26.3	1.64	1.60	-4.02	11.3	-17.9	
4,709.0	7.21	10.55	4,692.8	319.6	28.0	2.03	1.81	-8.01	12.2	-18.0	
4,820.0	5.98	8.80	4,803.1	332.2	30.2	1.12	-1.11	-1.58	11.6	-19.0	



Midland PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference: Well #101H			
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: #101H		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)	Buile (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
4,915.0	6.33	11.17	4,897.5	342.2	32.0	0.46	0.37	2.49	10.4	-20.6	
5,009.0	7.65	5.98	4,990.8	353.5	33.6	1.58	1.40	-5.52	10.6	-20.6	
5,103.0	8.79	2.29	5,083.9	366.9	34.5	1.34	1.21	-3.93	8.3	-20.1	
5,198.0	8.62	2.64	5,177.8	381.3	35.2	0.19	-0.18	0.37	3.7	-20.0	
5,292.0	8.18	2.64	5,270.8	395.0	35.8	0.47	-0.47	0.00	-0.3	-19.9	
5,386.0	7.83	3.08	5,363.8	408.0	36.4	0.38	-0.37	0.47	-3.7	-19.9	
5,480.0	8.00	3.08	5,456.9	421.0	37.1	0.18	0.18	0.00	-6.9	-19.8	
5,574.0	7.30	348.05	5,550.1	433.3	36.3	2.25	-0.74	-15.99	-4.4	-20.1	
5,669.0	7.12	340.67	5,644.4	444.8	33.1	0.99	-0.19	-7.77	-4.5	-17.4	
5,763.0	6.42	338.03	5,737.7	455.2	29.2	0.81	-0.74	-2.81	-5.9	-13.7	
5,858.0	4.57	335.66	5,832.3	463.6	25.6	1.98	-1.95	-2.49	-5.5	-9.6	
5,951.0	3.96	331.71	5,925.0	469.8	22.6	0.73	-0.66	-4.25	-4.8	-6.0	
6,046.0	3.96	334.43	6,019.8	475.6	19.6	0.20	0.00	2.86	-7.1	-3.1	
6,140.0	1.41	353.15	6,113.7	479.7	18.1	2.83	-2.71	19.91	-9.9	0.6	
6,234.0	1.14	16.44	6,207.7	481.7	18.2	0.62	-0.29	24.78	-10.7	5.1	
6,329.0	1.23	16.71	6,302.6	483.6	18.7	0.09	0.09	0.28	-12.7	5.1	
6,423.0	1.14	17.94	6,396.6	485.5	19.3	0.10	-0.10	1.31	-14.5	5.4	
6,518.0	1.32	15.04	6,491.6	487.4	19.9	0.20	0.19	-3.05	-16.8	4.6	
6,612.0	1.14	172.01	6,585.6	487.5	20.3	2.56	-0.19	166.99	17.3	2.7	
6,706.0	2.02	179.30	6,679.6	485.0	20.5	0.96	0.94	7.76	15.0	0.6	
6,800.0	1.67	189.32	6,773.5	482.0	20.3	0.51	-0.37	10.66	11.8	-1.7	
6,895.0	1.93	185.63	6,868.5	479.0	19.9	0.30	0.27	-3.88	8.9	-1.0	
6,989.0	1.67	183.52	6,962.4	476.1	19.6	0.29	-0.28	-2.24	6.0	-0.7	
7,084.0	1.76	180.29	7,057.4	473.2	19.3	0.23	0.09	7.13	3.1	-1.3	
7,178.0	1.58	195.83	7,151.3	470.6	18.7	0.26	-0.18	5.89	0.2	-1.4	
7,272.0	1.78	190.55	7,245.3	467.9	18.1	0.25	0.19	-5.62	-2.4	-1.5	
7,367.0	1.85	195.21	7,340.2	465.0	17.4	0.18	0.09	4.91	-5.5	-1.2	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #101H
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:	#101H	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)	Buld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
7,461.0	1.85	191.34	7,434.2	462.0	16.7	0.13	0.00	-4.12	-8.5	-1.7	
7,555.0	0.35	21.28	7,528.2	460.8	16.5	2.34	-1.60	-180.91	9.8	-0.1	
7,650.0	0.70	21.10	7,623.2	461.6	16.8	0.37	0.37	-0.19	9.0	0.0	
7,744.0	0.53	355.35	7,717.2	462.6	17.0	0.34	-0.18	-27.39	7.1	3.6	
7,838.0	0.35	38.41	7,811.2	463.3	17.1	0.39	-0.19	45.81	7.1	-1.9	
7,933.0	0.18	155.48	7,906.2	463.3	17.4	0.48	-0.18	123.23	-5.0	-5.1	
8,027.0	0.09	50.19	8,000.2	463.3	17.5	0.24	-0.10	-112.01	6.2	-3.6	
8,121.0	0.18	303.76	8,094.2	463.4	17.4	0.24	0.10	-113.22	1.5	6.9	
8,216.0	0.53	212.09	8,189.2	463.1	17.1	0.59	0.37	-98.49	-7.4	1.2	
8,310.0	0.79	207.52	8,283.2	462.2	16.5	0.28	0.28	-4.86	-8.6	0.6	
8,404.0	1.14	204.53	8,377.1	460.7	15.9	0.38	0.37	-3.18	-10.2	0.1	
8,499.0	1.32	210.15	8,472.1	458.9	14.9	0.23	0.19	5.92	-12.1	1.2	
8,546.0	1.41	198.73	8,519.1	457.9	14.5	0.61	0.19	-24.30	-13.2	-1.4	
8,612.0	3.44	178.80	8,585.0	455.2	14.2	3.29	3.08	-30.20	-14.7	-6.1	
KOP, MD:8612.0', TVD:8585.0', N/S:455.2', EW:14.2', INC:3.44											
8,628.0	3.96	177.11	8,601.0	454.1	14.3	3.29	3.22	-10.55	-15.4	-6.5	
8,675.0	12.13	181.06	8,647.5	447.6	14.3	17.41	17.38	8.40	-19.4	-5.2	
8,722.0	18.20	185.19	8,692.9	435.3	13.5	13.11	12.91	8.79	-25.2	-3.6	
8,769.0	22.16	182.47	8,737.0	419.1	12.5	8.66	8.43	-5.79	-30.6	-4.9	
8,816.0	26.29	177.28	8,779.8	399.9	12.6	9.88	8.79	-11.04	-35.0	-8.6	
8,857.0	30.16	175.88	8,815.9	380.5	13.7	9.58	9.44	-3.41	-38.7	-5.3	
8,910.0	33.94	178.60	8,860.9	352.4	15.1	7.63	7.13	5.13	-42.7	-0.6	
8,957.0	35.00	179.65	8,899.8	325.8	15.5	2.59	2.26	2.23	-43.7	2.2	
9,005.0	38.43	179.92	8,938.1	297.1	15.6	7.15	7.15	0.56	-42.2	4.6	
9,052.0	43.35	179.48	8,973.6	266.4	15.7	10.49	10.47	-0.94	-40.0	6.8	
9,099.0	48.63	180.45	9,006.2	232.6	15.7	11.33	11.23	2.06	-37.8	9.7	
9,146.0	49.33	183.35	9,037.1	197.2	14.6	4.89	1.49	6.17	-33.5	12.1	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #101H
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:	#101H	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)	D/Lag (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
9,193.0	51.53	187.56	9,087.0	161.1	11.1	8.34	4.68	8.96	-26.4	12.0	
9,288.0	62.78	185.54	9,118.5	81.9	2.1	11.98	11.84	-2.13	-12.1	7.2	
9,382.0	74.04	182.91	9,153.0	-5.1	-4.3	12.26	11.98	-2.80	-0.6	6.3	
9,445.0	82.31	180.01	9,165.9	-66.7	-5.8	13.88	13.13	-4.60	5.0	8.7	
9,476.0	87.67	179.13	9,168.6	-97.5	-5.6	17.52	17.29	-2.84	6.7	10.8	
9,568.0	91.19	178.69	9,169.5	-189.5	-3.8	3.86	3.83	-0.48	6.9	17.1	
9,662.0	91.71	178.16	9,167.2	-283.4	-1.2	0.79	0.55	-0.56	3.8	21.2	
9,756.0	91.80	178.42	9,164.3	-377.3	1.6	0.29	0.10	0.28	0.2	23.3	
9,851.0	91.54	181.41	9,161.5	-472.3	1.7	3.16	-0.27	3.15	-3.3	22.8	
9,945.0	91.19	181.32	9,159.3	-566.2	-0.5	0.38	-0.37	-0.10	-6.3	19.9	
10,040.0	91.71	181.59	9,156.9	-661.2	-2.9	0.62	0.55	0.28	-9.4	16.7	
10,134.0	91.10	182.82	9,154.6	-755.1	-6.6	1.46	-0.65	1.31	-12.5	12.4	
10,228.0	90.84	180.88	9,153.0	-849.0	-9.6	2.08	-0.28	-2.06	-14.8	8.7	
10,322.0	90.75	180.80	9,151.7	-943.0	-11.0	0.13	-0.10	-0.09	-16.8	6.6	
10,416.0	90.40	181.24	9,150.7	-1,037.0	-12.6	0.60	-0.37	0.47	-18.5	4.3	
10,510.0	90.48	179.83	9,150.0	-1,131.0	-13.5	1.50	0.09	-1.50	-19.9	2.7	
10,604.0	90.48	179.48	9,149.2	-1,225.0	-12.9	0.37	0.00	-0.37	-21.5	2.6	
10,699.0	90.57	179.65	9,148.3	-1,319.9	-12.2	0.20	0.09	0.18	-23.2	2.6	
10,793.0	90.84	179.57	9,147.2	-1,413.9	-11.6	0.30	0.29	-0.09	-25.2	2.6	
10,887.0	91.28	178.51	9,145.5	-1,507.9	-10.0	1.22	0.47	-1.13	-27.7	3.4	
10,982.0	89.52	180.01	9,144.8	-1,602.9	-8.8	2.43	-1.85	1.58	-29.2	4.0	
11,076.0	89.43	179.22	9,145.6	-1,696.9	-8.2	0.85	-0.10	-0.84	-29.2	3.9	
11,170.0	89.08	179.83	9,146.9	-1,790.9	-7.4	0.75	-0.37	0.65	-28.8	4.0	
11,265.0	88.55	178.86	9,148.8	-1,885.8	-6.3	1.16	-0.56	-1.02	-27.7	4.4	
11,359.0	89.78	179.48	9,150.2	-1,979.8	-4.9	1.47	1.31	0.66	-27.1	5.1	
11,453.0	91.80	181.76	9,148.9	-2,073.8	-5.9	3.24	2.15	2.43	-29.2	3.4	
11,548.0	92.07	181.59	9,145.7	-2,168.7	-8.7	0.34	0.28	-0.18	-33.3	-0.1	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #101H
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:	#101H	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)	DLog ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
11,642.0	92.42	181.41	9,142.0	-2,262.6	-11.2	0.42	0.37	-0.19	-37.8	-3.3	
11,737.0	92.59	180.71	9,137.9	-2,357.5	-12.9	0.76	0.18	-0.74	-42.6	-5.7	
11,831.0	91.98	179.92	9,134.1	-2,451.4	-13.5	1.06	-0.65	-0.84	-47.0	-6.9	
11,926.0	91.10	179.74	9,131.6	-2,546.4	-13.2	0.95	-0.93	-0.19	-50.2	-7.4	
12,020.0	90.84	179.83	9,130.0	-2,640.4	-12.8	0.29	-0.28	0.10	-52.4	-7.7	
12,115.0	90.57	179.30	9,128.8	-2,735.4	-12.1	0.63	-0.28	-0.56	-54.2	-7.7	
12,209.0	90.13	178.95	9,128.2	-2,829.3	-10.7	0.60	-0.47	-0.37	-55.4	-6.9	
12,303.0	91.19	177.90	9,127.1	-2,923.3	-8.1	1.59	1.13	-1.12	-57.1	-5.0	
12,397.0	90.66	178.25	9,125.6	-3,017.2	-4.9	0.68	-0.56	0.37	-59.3	-2.6	
12,492.0	90.13	177.19	9,125.0	-3,112.2	-1.1	1.25	-0.56	-1.12	-60.6	0.5	
12,586.0	90.92	178.42	9,124.1	-3,206.1	2.5	1.56	0.84	1.31	-62.0	3.4	
12,680.0	90.66	178.34	9,122.8	-3,300.0	5.1	0.29	-0.28	-0.09	-64.0	5.4	
12,775.0	88.11	177.11	9,123.8	-3,394.9	8.9	2.98	-2.68	-1.29	-63.6	8.4	
12,869.0	88.02	178.49	9,127.0	-3,488.7	14.1	0.67	-0.10	-0.66	-61.0	13.0	
12,963.0	91.98	178.25	9,127.0	-3,582.6	18.4	4.61	4.21	1.87	-61.7	16.6	
13,058.0	92.95	181.15	9,122.9	-3,677.5	18.9	3.22	1.02	3.05	-66.4	16.5	
13,152.0	93.65	181.24	9,117.5	-3,771.3	17.0	0.75	0.74	0.10	-72.4	13.8	
13,247.0	91.54	182.03	9,113.2	-3,866.2	14.3	2.37	-2.22	0.83	-77.3	10.4	
13,341.0	89.69	180.71	9,112.2	-3,960.2	12.0	2.42	-1.97	-1.40	-78.9	7.4	
13,435.0	92.42	180.53	9,110.5	-4,054.1	11.0	2.91	2.90	-0.19	-81.3	5.7	
13,529.0	90.57	180.62	9,108.0	-4,148.1	10.1	1.97	-1.97	0.10	-84.3	4.1	
13,623.0	90.22	180.80	9,107.4	-4,242.1	8.9	0.42	-0.37	0.19	-85.6	2.2	
13,718.0	88.99	180.97	9,108.0	-4,337.1	7.4	1.31	-1.29	0.18	-85.5	0.1	
13,812.0	89.25	180.36	9,109.5	-4,431.0	6.3	0.71	0.28	-0.65	-84.7	-1.7	
13,873.0	87.58	179.30	9,111.2	-4,492.0	6.5	3.24	-2.74	-1.74	-83.4	-2.0	

Last MWD Survey (MD=13873.0)



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #101H
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:	#101H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
13,933.0	87.58	179.30	9,113.7	-4,552.0	7.3	0.00	0.00	0.00	-81.3	-1.7
Projection to Bit (MD=13933.0')										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
8,612.0	8,585.0	455.2	14.2	KOP, MD:8612.0', TVD:8585.0', N/S:455.2', E/W:14.2', INC:3.44
13,873.0	9,111.2	-4,492.0	6.5	Last MWD Survey (MD=13873.0')
13,933.0	9,113.7	-4,552.0	7.3	Projection to Bit (MD=13933.0')

Checked By: _____	Approved By: _____	Date: _____
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