



Lea County, NM (NAD 83 NME)

Savage 2 State Com #301H

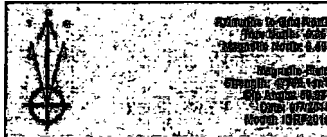
Plan #2

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: #301H

KB = 25 @ 3539.0usft
Northing 424470.00 Easting 751910.00 Latitude 32° 59' 54.418 N Longitude 103° 39' 10.172 W



To convert a Magnetic Direction to a Grid Direction, Add 8.69°
To convert a Magnetic Direction to a True Direction, Add 6.85° East
To convert a True Direction to a Grid Direction, Subtract 0.36°

SECTION DETAILS

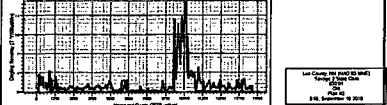
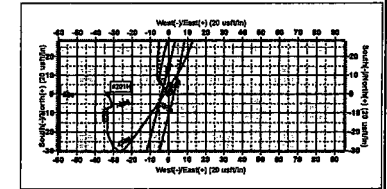
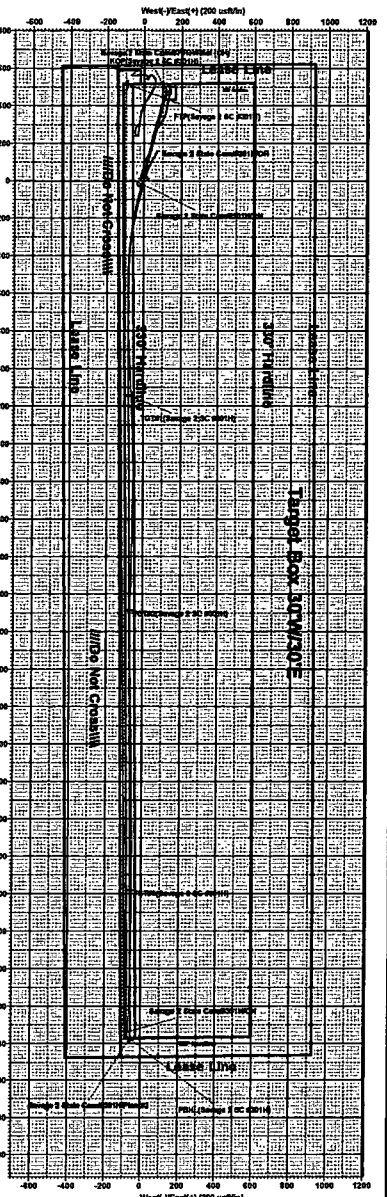
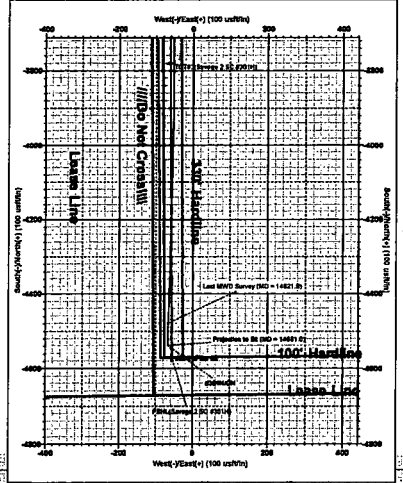
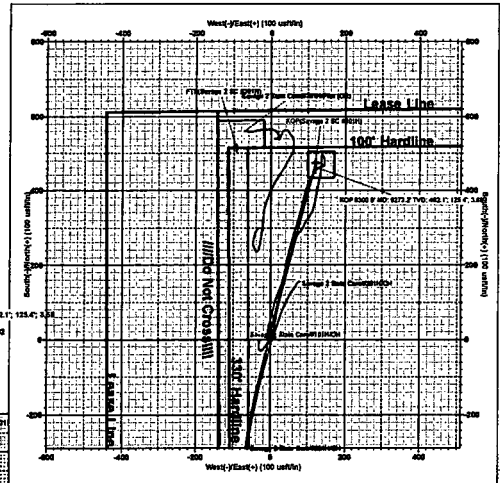
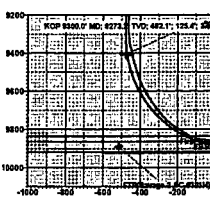
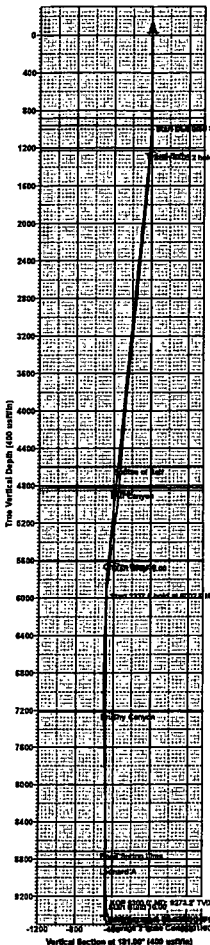
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dieg	TFace	VSect	Target
1	989.0	0.80	281.52	988.9	6.1	-4.3	0.00	0.00	-6.1	
2	1000.1	0.80	281.52	1000.0	6.1	-4.5	0.00	0.00	-6.1	
3	1301.3	5.92	15.05	1300.7	21.6	-2.5	2.00	101.12	-21.5	
4	5706.5	5.92	15.05	5682.4	460.5	115.5	0.00	0.00	-461.9	
5	6002.6	0.00	0.00	5978.0	475.3	119.5	2.00	180.00	-476.7	
6	9340.1	0.00	0.00	9315.5	475.3	119.5	0.00	0.00	-476.7	
7	10235.1	89.60	194.56	9888.4	-75.4	-23.5	10.00	194.56	75.7	
8	10735.5	89.60	179.59	9892.0	-569.5	-84.8	3.00	-90.07	570.5	
9	11307.1	89.50	179.59	9896.0	-1141.1	-80.6	0.00	0.00	1142.0	TGT#1(Savage 2 SC #301H)
10	11312.0	89.50	179.59	9896.0	-1146.0	-80.6	2.00	174.59	1146.9	
11	12450.4	89.50	179.59	9906.0	-2284.3	-72.4	0.00	0.00	2285.0	TGT#2(Savage 2 SC #301H)
12	12456.3	89.62	179.59	9906.0	-2290.2	-72.4	2.00	-0.01	2290.9	
13	13945.7	89.62	179.59	9916.0	-3779.5	-61.7	0.00	0.00	3780.0	TGT#3(Savage 2 SC #301H)
14	13946.7	89.64	179.59	9916.0	-3780.5	-61.7	2.00	0.00	3781.0	
15	14736.2	89.64	179.59	9921.0	-4570.0	-56.0	0.00	0.00	4570.3	PBHL(Savage 2 SC #301H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting
KOP(Savage 2 SC #301H)	9426.5	475.3	119.5	424945.30	750229.50
FTN(Savage 2 SC #301H)	9888.9	816.0	-50.0	424995.00	751877.00
TGT#1(Savage 2 SC #301H)	9896.0	-1141.1	-80.6	423328.90	751929.38
TGT#2(Savage 2 SC #301H)	9906.0	-2284.3	-72.4	423185.70	751837.59
TGT#3(Savage 2 SC #301H)	9916.0	-3779.5	-61.7	423030.50	751848.32
PBHL(Savage 2 SC #301H)	9921.0	-4570.0	-56.0	419900.00	751954.00





HOBBS OCD
DEC 18 2018
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Savage 2 State Com

#301H

OH

Design: OH

Midland PVA

18 September, 2018



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #301H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3539.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 25 @ 3539.0usft
Well:	#301H	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	#301H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			usft
			Latitude:
			Longitude:
			Ground Level:
			3,514.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	9/7/2018	6.85
			Dip Angle
			(°)
			59.98
			Field Strength
			(nT)
			47,768.11343241

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			180.70



Midland PVA

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Site:	Savage 2 State Corn	MD Reference:	KB = 25 @ 3539.0usft
Well:	#301H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program		Date	9/18/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
117.0	989.0	Wildfire MWD GN +25' (OH)	MWD	OWSG MWD - Standard	
1,047.0	14,681.0	Driltech MWD (OH)	MWD	OWSG MWD - Standard	

MD (usft)	Inc (")	Asd (azimuth) (")	TVD (usft)	N/S (usft)	E/W (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
117.0	0.20	179.52	117.0	-0.2	0.0	0.17	0.17	0.00	0.0	0.0
128.0	0.40	242.52	128.0	-0.2	0.0	3.24	1.82	572.73	0.0	0.0
157.0	0.60	108.52	157.0	-0.3	0.0	3.19	0.69	-462.07	0.0	0.0
190.0	0.70	38.52	190.0	-0.2	0.3	2.27	0.30	-212.12	0.0	0.0
217.0	0.60	11.52	217.0	0.0	0.4	1.18	-0.37	-100.00	0.0	0.0
244.0	0.30	247.52	244.0	0.1	0.4	2.99	-1.11	-459.26	0.0	0.0
273.0	0.50	16.52	273.0	0.2	0.4	2.51	0.69	444.83	0.0	0.0
331.0	0.30	223.52	331.0	0.4	0.3	1.34	-0.34	-263.79	0.0	0.0
362.0	0.50	272.52	362.0	0.3	0.1	1.22	0.65	158.06	0.0	0.0
393.0	0.20	227.52	393.0	0.3	0.0	1.24	-0.97	-145.16	0.0	0.0
424.0	0.70	5.52	424.0	0.4	0.0	2.77	1.61	445.16	0.0	0.0
456.0	0.60	299.52	456.0	0.7	-0.2	2.23	-0.31	-208.25	0.0	0.0
487.0	0.80	317.52	487.0	1.0	-0.5	0.95	0.65	58.06	0.0	0.0
518.0	0.70	299.52	518.0	1.2	-0.8	0.82	-0.32	-58.06	0.0	0.0
550.0	1.00	329.52	550.0	1.5	-1.1	1.65	0.94	93.75	0.0	0.0
581.0	0.60	300.52	581.0	1.9	-1.4	1.80	-1.29	-93.55	0.0	0.0
612.0	0.40	300.52	612.0	2.0	-1.6	0.65	-0.65	0.00	0.0	0.0
643.0	0.70	306.52	643.0	2.2	-1.8	0.98	0.97	19.35	0.0	0.0
674.0	1.10	326.52	674.0	2.5	-2.2	1.62	1.29	64.52	0.0	0.0
706.0	1.10	351.52	706.0	3.1	-2.4	1.49	0.00	78.12	0.0	0.0



Midland PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference: Well #301H	
Project: Lea County, NM (NAD 83 NME)		TVD Reference: KB = 25 @ 3539.0usft	
Site: Savage 2 State Com		MD Reference: KB = 25 @ 3539.0usft	
Well: #301H		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)	
737.0	1.00	355.52	737.0	3.7	-2.4	0.40	-0.32	12.90	0.0	0.0	
800.0	0.60	285.52	800.0	4.3	-2.8	1.55	-0.63	-111.11	0.0	0.0	
831.0	0.90	290.52	831.0	4.4	-3.2	0.99	0.97	16.13	0.0	0.0	
863.0	1.60	339.52	862.9	4.9	-3.6	3.80	2.19	153.12	0.0	0.0	
895.0	0.40	322.52	894.9	5.4	-3.8	3.82	-3.75	-53.12	0.0	0.0	
926.0	0.40	326.52	925.9	5.6	-3.9	0.09	0.00	12.90	0.0	0.0	
958.0	0.70	340.52	957.9	5.9	-4.1	1.02	0.94	43.75	0.0	0.0	
989.0	0.80	281.52	988.9	6.1	-4.3	2.40	0.32	-190.32	0.0	0.0	
1,047.0	0.88	326.17	1,046.9	6.6	-5.0	1.11	0.14	76.99	0.1	0.0	
1,141.0	0.97	338.39	1,140.9	7.9	-5.7	0.23	0.10	13.00	1.5	1.2	
1,235.0	2.11	354.21	1,234.9	10.4	-6.1	1.28	1.21	16.83	5.1	2.7	
1,330.0	4.66	2.38	1,329.7	16.0	-6.2	2.73	2.68	8.60	8.7	4.1	
1,518.0	4.84	5.69	1,517.1	31.5	-5.0	0.18	0.10	1.87	12.5	7.1	
1,612.0	5.36	12.75	1,610.7	39.7	-3.6	0.85	0.55	7.30	14.6	6.4	
1,706.0	5.80	16.53	1,704.2	48.5	-1.3	0.61	0.47	4.02	15.6	5.5	
1,801.0	5.45	15.65	1,798.8	57.5	1.3	0.38	-0.37	-0.93	16.0	5.5	
1,895.0	6.16	13.63	1,892.3	66.7	3.7	0.79	0.76	-2.15	16.0	6.2	
1,990.0	6.24	13.19	1,986.8	76.7	6.0	0.10	0.08	-0.46	15.5	6.6	
2,084.0	5.89	11.34	2,080.2	86.4	8.1	0.43	-0.37	-1.97	15.0	7.5	
2,178.0	5.36	11.17	2,173.8	95.4	9.9	0.56	-0.56	-0.18	15.4	8.2	
2,273.0	6.07	18.81	2,268.3	104.5	12.4	1.09	0.75	8.04	16.8	6.0	
2,367.0	6.68	24.44	2,361.7	114.2	16.3	0.93	0.65	5.99	16.4	3.3	
2,461.0	6.07	22.59	2,455.1	123.8	20.5	0.68	-0.65	-1.97	15.5	2.4	
2,556.0	5.54	21.98	2,549.7	132.6	24.1	0.56	-0.56	-0.64	15.6	1.3	
2,651.0	5.54	22.51	2,644.2	141.1	27.6	0.05	0.00	0.56	16.1	-0.1	
2,745.0	6.24	17.58	2,737.7	150.2	30.9	0.92	0.74	-5.24	16.2	0.5	
2,840.0	6.24	12.84	2,832.2	160.2	33.6	0.54	0.00	-4.99	15.5	1.8	



Midland PVA

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Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3539.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 25 @ 3539.0usft
Well:	#301H	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)	
2,934.0	5.72	14.51	2,925.6	169.7	35.9	0.58	-0.55	1.78	15.5	1.5	
3,028.0	5.10	14.60	3,019.2	178.2	38.1	0.66	-0.66	0.10	16.3	1.6	
3,123.0	5.01	17.06	3,113.9	186.3	40.4	0.25	-0.09	2.59	17.8	0.7	
3,218.0	5.72	17.41	3,208.4	194.8	43.0	0.75	0.75	0.37	18.7	0.3	
3,312.0	5.01	16.79	3,302.0	203.2	45.6	0.76	-0.76	-0.66	19.7	0.1	
3,406.0	6.07	15.21	3,395.6	211.9	48.1	1.14	1.13	-1.68	20.3	0.5	
3,501.0	7.47	16.88	3,489.9	222.7	51.2	1.49	1.47	1.76	18.9	-0.2	
3,595.0	7.03	17.67	3,583.2	234.0	54.7	0.48	-0.47	0.84	16.7	-0.9	
3,689.0	6.51	20.48	3,676.5	244.5	58.3	0.66	-0.55	2.89	15.2	-2.3	
3,784.0	5.72	19.52	3,771.0	254.0	61.8	0.84	-0.83	-1.01	14.9	-2.9	
3,889.0	5.36	18.38	3,875.5	263.6	65.1	0.38	-0.34	-1.09	15.6	-3.4	
3,984.0	5.98	21.45	3,970.0	272.4	68.3	0.73	0.65	3.23	15.8	-5.0	
4,078.0	6.33	30.15	4,063.5	281.4	72.7	1.06	0.37	9.26	14.2	-8.1	
4,172.0	5.89	38.85	4,156.9	289.8	78.3	1.09	-0.47	9.26	11.6	-14.3	
4,267.0	5.10	31.12	4,251.5	297.1	83.6	1.14	-0.83	-8.14	13.8	-16.0	
4,362.0	5.01	28.66	4,346.1	304.3	87.7	0.25	-0.09	-2.59	15.6	-17.9	
4,456.0	5.80	26.46	4,439.7	312.2	91.8	0.87	0.84	-2.34	16.9	-19.3	
4,550.0	5.98	31.65	4,533.2	320.6	96.5	0.60	0.19	5.52	14.8	-23.1	
4,644.0	5.28	37.27	4,626.8	328.2	101.7	0.95	-0.74	5.98	12.3	-27.6	
4,693.0	4.66	35.51	4,675.6	331.6	104.2	1.30	-1.27	-3.58	13.6	-28.1	
4,824.0	4.13	32.88	4,806.2	339.9	109.9	0.43	-0.40	-2.01	17.7	-32.8	
4,918.0	5.45	18.35	4,899.9	347.0	113.0	2.02	1.40	-17.59	26.3	-27.6	
5,012.0	6.95	12.66	4,993.3	356.9	115.5	1.65	1.60	-3.93	29.6	-25.7	
5,106.0	7.65	11.34	5,086.6	368.6	117.9	0.77	0.74	-1.40	27.9	-24.5	
5,201.0	7.74	11.17	5,180.7	381.0	120.4	0.10	0.09	-0.18	25.0	-23.8	
5,295.0	7.47	11.70	5,273.9	393.2	122.9	0.30	-0.29	0.56	22.0	-23.4	
5,389.0	7.21	10.29	5,367.1	405.0	125.2	0.34	-0.28	-1.50	20.2	-22.2	



Midland PVA

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Site:	Savage 2 State Com	MD Reference:	KB = 25 @ 3539.0usft
Well:	#301H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
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5,483.0	7.12	11.34	5,460.4	418.5	127.4	0.17	-0.10	1.12	17.7	-21.8	
5,578.0	7.30	9.76	5,554.6	428.2	129.6	0.28	0.19	-1.66	16.2	-20.5	
5,672.0	6.77	9.41	5,647.9	439.6	131.5	0.57	-0.56	-0.37	14.4	-19.5	
5,766.0	6.33	9.76	5,741.3	450.2	133.3	0.47	-0.47	0.37	12.6	-18.7	
5,861.0	6.24	7.39	5,835.7	460.5	134.8	0.29	-0.09	-2.49	9.2	-17.8	
5,955.0	5.19	4.58	5,929.3	469.8	135.8	1.16	-1.12	-2.99	3.8	-16.8	
6,143.0	1.23	350.43	6,116.9	480.2	136.2	2.13	-2.11	-7.53	-2.1	-17.2	
6,238.0	1.32	354.12	6,211.8	482.3	135.9	0.13	0.09	3.88	-5.3	-17.0	
6,332.0	1.49	354.82	6,305.9	484.6	135.7	0.18	0.18	0.74	-7.8	-16.9	
6,427.0	1.23	349.46	6,400.8	486.8	135.4	0.30	-0.27	-5.64	-8.4	-17.7	
6,521.0	1.06	7.30	6,494.8	488.7	135.3	0.42	-0.18	18.88	-15.3	-14.0	
6,615.0	0.79	9.23	6,588.8	490.2	135.5	0.29	-0.29	2.05	-17.3	-13.4	
6,709.0	0.79	358.42	6,682.8	491.5	135.6	0.16	0.00	-11.50	-15.7	-16.5	
6,804.0	0.70	10.03	6,777.8	492.7	135.7	0.18	-0.09	12.22	-20.0	-12.9	
6,898.0	0.62	24.18	6,871.8	493.7	136.0	0.19	-0.09	15.05	-23.6	-7.5	
6,993.0	0.62	34.64	6,966.8	494.6	136.5	0.12	0.00	11.01	-25.6	-3.0	
7,087.0	0.79	117.08	7,060.8	494.8	137.3	1.00	0.18	87.70	-7.0	25.5	
7,182.0	1.06	122.61	7,155.8	494.0	138.7	0.30	0.28	5.82	-6.1	26.1	
7,276.0	1.06	139.05	7,249.8	492.9	140.0	0.32	0.00	17.49	-0.2	27.0	
7,370.0	1.23	141.95	7,343.7	491.4	141.2	0.19	0.18	3.09	-0.7	27.0	
7,465.0	1.23	142.13	7,438.7	489.8	142.4	0.00	0.00	0.19	-2.6	27.0	
7,559.0	0.97	170.07	7,532.7	488.2	143.2	0.63	-0.28	29.72	8.6	25.5	
7,653.0	1.06	173.33	7,626.7	486.6	143.4	0.11	0.10	3.47	8.4	25.1	
7,747.0	0.97	175.79	7,720.7	484.9	143.6	0.11	-0.10	2.62	7.8	24.7	
7,842.0	1.14	181.68	7,815.7	483.2	143.6	0.21	0.18	6.20	8.6	23.9	
7,936.0	1.14	172.62	7,909.6	481.3	143.7	0.19	0.00	-9.64	2.9	24.8	
8,030.0	1.14	179.13	8,003.6	479.4	143.8	0.14	0.00	6.83	3.8	24.4	



Midland PVA

Company:	Eog Resources - Midland	Local Co-ordinate Reference:	Well #301H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3539.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 25 @ 3539.0usft
Well:	#301H	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)	E/W (usft)	DLeg (°/100usft)	Buld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
8,125.0	1.23	171.74	8,098.6	477.5	144.0	0.19	0.09	-7.78	-1.3	24.6
8,219.0	1.41	178.16	8,192.6	475.3	144.2	0.25	0.19	6.83	-0.8	24.7
8,313.0	1.41	178.25	8,286.5	473.0	144.2	0.00	0.00	0.10	-3.0	24.7
8,408.0	1.49	186.51	8,381.5	470.6	144.1	0.24	0.08	8.69	-1.8	25.0
8,502.0	1.76	189.06	8,475.5	468.0	143.8	0.30	0.29	2.71	-3.4	25.1
8,596.0	0.62	276.77	8,569.5	466.6	143.0	1.96	-1.21	93.31	24.4	5.8
8,691.0	0.79	278.71	8,664.4	466.8	141.9	0.18	0.18	2.04	23.4	5.0
8,785.0	1.08	274.14	8,758.4	466.9	140.4	0.30	0.29	-4.86	21.4	6.8
8,879.0	1.14	263.59	8,852.4	466.9	138.6	0.23	0.09	-11.22	18.0	10.5
8,973.0	1.49	242.32	8,946.4	466.2	136.6	0.63	0.37	-22.63	10.9	16.0
9,068.0	2.37	244.08	9,041.3	464.8	133.7	0.93	0.93	1.85	8.2	15.7
9,162.0	1.93	251.37	9,135.3	463.4	130.5	0.55	-0.47	7.76	6.6	14.7
9,235.0	2.11	260.60	9,208.2	462.8	128.0	0.51	0.25	12.64	6.3	13.7
9,281.0	2.37	260.43	9,254.2	462.5	126.2	0.57	0.57	-0.37	4.5	13.7
9,300.0	3.68	228.43	9,273.2	462.1	125.4	11.01	6.91	-168.41	-4.4	13.8
KOP 9300.0° MD; 9273.2° TVD; 462.1°; 125.4°; 3.68										
9,328.0	6.42	211.65	9,301.1	460.1	123.9	11.01	9.77	-59.93	-10.6	11.7
9,375.0	12.66	211.65	9,347.4	453.5	119.8	13.28	13.28	0.00	-17.5	11.5
9,422.0	15.04	208.75	9,393.0	443.8	114.1	5.27	5.06	-6.17	-24.9	9.1
9,469.0	16.09	208.75	9,438.3	432.7	108.1	2.23	2.23	0.00	-29.2	6.8
9,516.0	17.67	204.18	9,483.3	420.5	102.0	4.39	3.36	-9.72	-30.9	1.8
9,563.0	21.90	198.64	9,527.5	405.7	96.3	8.84	9.00	-11.79	-30.4	-3.0
9,610.0	27.35	193.28	9,570.2	386.9	91.0	12.52	11.60	-11.40	-29.3	-5.9
9,657.0	31.74	193.80	9,611.1	364.3	85.6	9.36	9.34	1.11	-28.6	-5.3
9,704.0	35.17	195.56	9,650.3	339.3	79.0	7.58	7.30	3.74	-27.2	-4.6
9,752.0	37.46	196.77	9,689.0	312.0	71.1	5.00	4.77	2.52	-23.9	-5.2
9,799.0	43.18	196.77	9,724.8	282.9	62.3	12.17	12.17	0.00	-19.8	-6.5



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #301H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3539.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 25 @ 3539.0usft
Well:	#301H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Asl (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
9,846.0	49.51	195.10	9,757.2	250.2	53.0	13.71	13.47	-3.55	-16.6	-7.7	
9,893.0	55.05	191.85	9,786.0	214.0	44.4	12.99	11.79	-6.91	-14.1	-7.4	
9,941.0	59.18	190.18	9,812.0	174.5	36.7	9.09	8.60	-3.48	-11.9	-5.0	
9,988.0	64.54	190.45	9,834.2	133.7	29.3	11.42	11.40	0.57	-9.6	-1.7	
10,035.0	71.14	192.99	9,851.9	91.1	20.4	14.91	14.04	5.40	-8.4	0.6	
10,082.0	75.80	187.98	9,865.3	48.9	12.2	14.24	9.91	-10.66	-7.8	3.7	
10,129.0	80.72	194.14	9,874.8	1.7	3.4	16.56	10.47	13.11	-7.1	6.7	
10,176.0	84.50	195.10	9,880.9	-43.4	-8.4	8.29	8.04	2.04	-6.2	6.6	
10,223.0	86.00	195.89	9,884.8	-88.5	-20.9	3.60	3.19	1.68	-3.7	5.8	
10,264.0	87.14	192.64	9,887.2	-128.1	-31.0	8.39	2.78	-7.93	-1.6	5.3	
10,317.0	88.37	192.20	9,889.3	-179.9	-42.4	2.46	2.32	-0.83	0.1	5.1	
10,418.0	90.22	189.13	9,890.6	-279.1	-61.0	3.55	1.83	-3.04	0.7	3.7	
10,512.0	90.40	185.52	9,890.0	-372.3	-73.0	3.85	0.19	-3.84	-0.5	3.0	
10,606.0	89.87	183.06	9,889.8	-466.0	-80.1	2.68	-0.56	-2.62	-1.4	2.7	
10,700.0	89.08	179.90	9,890.7	-560.0	-82.5	3.47	-0.84	-3.36	-1.2	2.4	
10,794.0	88.81	179.81	9,892.4	-654.0	-82.2	0.30	-0.28	-0.10	-0.1	1.9	
10,889.0	88.99	180.43	9,894.2	-749.0	-82.4	0.68	0.19	0.65	1.0	1.1	
10,983.0	89.08	178.29	9,895.8	-842.9	-79.8	4.40	0.10	-4.40	1.9	3.1	
11,078.0	91.01	176.82	9,895.7	-937.7	-74.0	2.11	2.03	0.56	1.2	8.1	
11,172.0	91.80	178.05	9,893.4	-1,031.6	-69.8	1.55	0.84	1.31	-1.8	11.6	
11,266.0	90.48	177.00	9,891.6	-1,125.5	-65.8	1.79	-1.40	-1.12	-4.3	14.9	
11,360.0	90.40	177.17	9,890.9	-1,219.4	-61.0	0.20	-0.09	0.18	-5.8	19.1	
11,455.0	90.92	177.79	9,889.8	-1,314.3	-56.8	0.85	0.55	0.65	-7.7	22.5	
11,549.0	89.96	177.70	9,889.0	-1,408.2	-53.1	1.03	-1.02	-0.10	-9.3	25.6	
11,643.0	90.13	179.20	9,889.0	-1,502.1	-50.6	1.61	0.18	1.60	-10.2	27.4	
11,738.0	90.57	181.13	9,888.4	-1,597.1	-50.9	2.08	0.46	2.03	-11.6	26.5	
11,833.0	91.01	180.95	9,887.1	-1,692.1	-52.6	0.50	0.46	-0.19	-13.8	24.1	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #301H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3539.0usft
Site:	Savage 2 Slate Com	MD Reference:	KB = 25 @ 3539.0usft
Well:	#301H	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)	Buld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
11,927.0	91.71	181.13	9,884.8	-1,786.1	-54.3	0.77	0.74	0.19	-16.8	21.7
12,022.0	90.57	182.10	9,882.9	-1,881.0	-57.0	1.58	-1.20	1.02	-19.5	18.3
12,116.0	90.57	181.39	9,882.0	-1,975.0	-59.8	0.76	0.00	-0.76	-21.3	14.8
12,210.0	91.10	181.74	9,880.6	-2,068.9	-62.4	0.68	0.56	0.37	-23.5	11.6
12,304.0	91.63	181.48	9,878.4	-2,162.8	-65.0	0.63	0.56	-0.28	-26.5	8.3
12,399.0	90.13	181.48	9,876.9	-2,257.8	-67.5	1.58	-1.58	0.00	-28.8	5.1
12,493.0	89.96	179.63	9,876.9	-2,351.8	-68.4	1.98	-0.18	-1.97	-29.6	3.5
12,587.0	90.22	178.76	9,876.7	-2,445.8	-67.1	0.97	0.28	-0.93	-30.4	4.2
12,682.0	90.57	179.72	9,876.1	-2,540.8	-65.8	1.08	0.37	1.01	-31.6	4.8
12,776.0	89.78	179.02	9,875.8	-2,634.8	-64.8	1.12	-0.84	-0.74	-32.6	5.1
12,870.0	89.87	179.11	9,876.1	-2,728.8	-63.3	0.14	0.10	0.10	-32.9	6.0
12,965.0	89.87	179.11	9,876.3	-2,823.7	-61.8	0.00	0.00	0.00	-33.3	6.8
13,059.0	88.46	178.58	9,877.7	-2,917.7	-59.9	1.60	-1.50	-0.56	-32.6	8.0
13,153.0	88.55	179.37	9,880.1	-3,011.7	-58.2	0.85	0.10	0.84	-30.8	9.0
13,248.0	88.99	179.02	9,882.1	-3,106.6	-56.9	0.59	0.46	-0.37	-29.4	9.6
13,343.0	89.25	179.46	9,883.6	-3,201.6	-55.6	0.54	0.27	0.46	-28.5	10.2
13,437.0	89.16	178.93	9,884.9	-3,295.6	-54.3	0.57	-0.10	-0.56	-27.9	10.9
13,531.0	89.34	178.67	9,886.1	-3,389.6	-52.3	0.34	0.19	-0.28	-27.3	12.2
13,625.0	90.48	180.25	9,886.3	-3,483.6	-51.4	2.07	1.21	1.68	-27.7	12.4
13,719.0	91.28	180.07	9,884.8	-3,577.5	-51.7	0.87	0.85	-0.19	-29.8	11.4
13,813.0	91.71	180.60	9,882.4	-3,671.5	-52.2	0.73	0.46	0.56	-32.9	10.2
13,854.0	92.07	180.69	9,881.0	-3,712.5	-52.7	0.91	0.88	0.22	-34.5	9.5
13,907.0	92.24	179.90	9,879.0	-3,765.4	-53.0	1.52	0.32	-1.49	-36.9	8.8
14,002.0	93.56	179.55	9,874.2	-3,860.3	-52.5	1.44	1.39	-0.37	-42.3	8.6
14,097.0	92.51	181.48	9,869.2	-3,955.2	-53.4	2.31	-1.11	2.03	-47.9	7.1
14,191.0	92.07	181.03	9,865.5	-4,049.1	-55.4	0.67	-0.47	-0.48	-52.2	4.3
14,285.0	92.42	180.78	9,861.8	-4,143.0	-56.9	0.46	0.37	-0.27	-56.5	2.2



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #301H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3539.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 25 @ 3539.0usft
Well:	#301H	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)	
14,379.0	92.77	181.04	9,857.5	-4,236.9	-58.4	0.46	0.37	0.28	-61.4	0.0	
14,473.0	92.95	182.10	9,852.8	-4,330.7	-61.0	1.14	0.19	1.13	-66.7	-3.2	
14,567.0	93.03	181.74	9,847.9	-4,424.5	-64.1	0.39	0.09	-0.38	-72.2	-7.1	
14,621.0	93.12	181.13	9,845.0	-4,478.5	-65.5	1.14	0.17	-1.13	-75.4	-8.8	
Last MWD Survey (MD = 14621.0)											
14,681.0	93.12	181.13	9,841.8	-4,538.4	-66.7	0.00	0.00	0.00	-79.0	-10.4	
Projection to Bit (MD = 14681.0)											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
9,300.0	9,273.2	462.1	125.4	KOP 9300.0' MD; 9273.2' TVD; 462.1'; 125.4'; 3.68
14,621.0	9,845.0	-4,478.5	-65.5	Last MWD Survey (MD = 14621.0)
14,681.0	9,841.8	-4,538.4	-66.7	Projection to Bit (MD = 14681.0)

Checked By: _____	Approved By: _____	Date: _____
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