



Lea County, NM (NAD 83 NME)

Papaya 10 State #201H

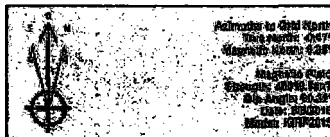
Plan #3

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: #201H

3688.0
KB = 25' @ 3713.0usft
Northing 546769.00 Easting 809706.00 Latitude 32° 30' 0.424 N Longitude 103° 27' 46.265 W



To convert a Magnetic Direction to a Grid Direction, Add 6.36°
To convert a Magnetic Direction to a True Direction, Add 6.63° East
To convert a True Direction to a Grid Direction, Subtract 0.47°

SECTION DETAILS

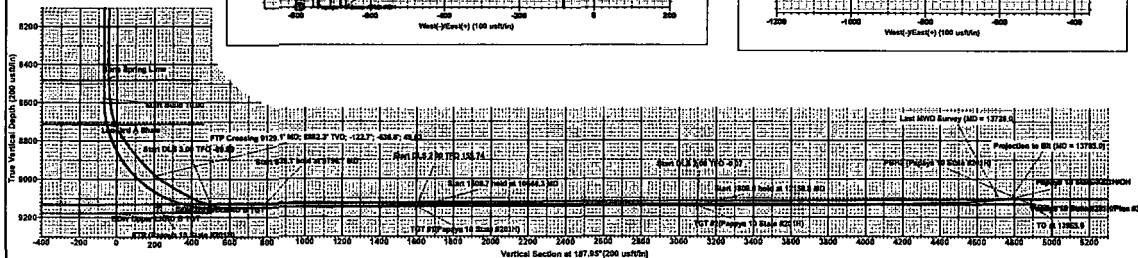
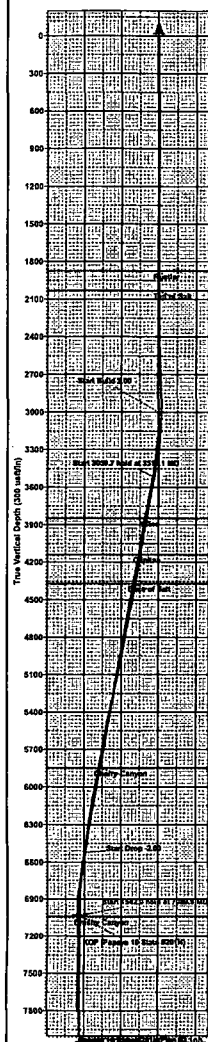
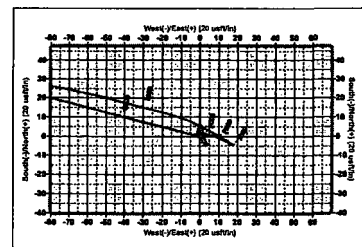
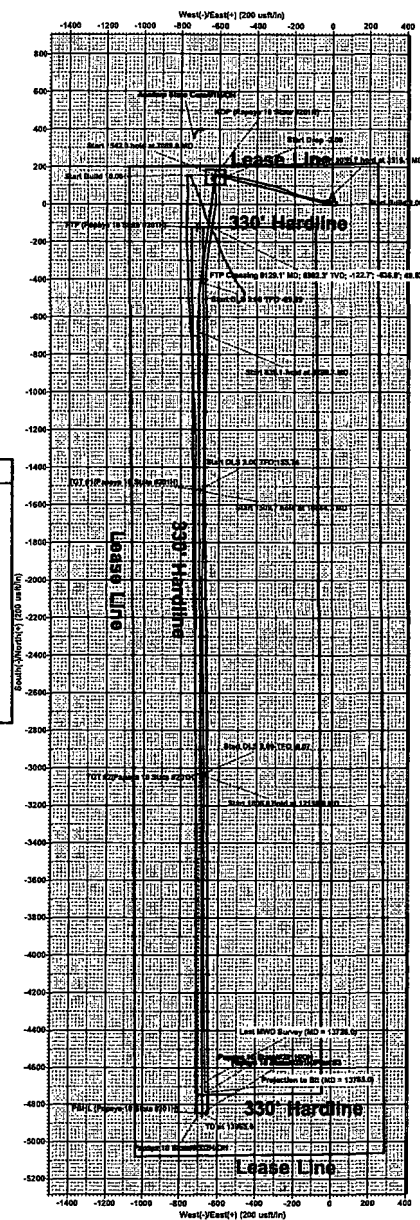
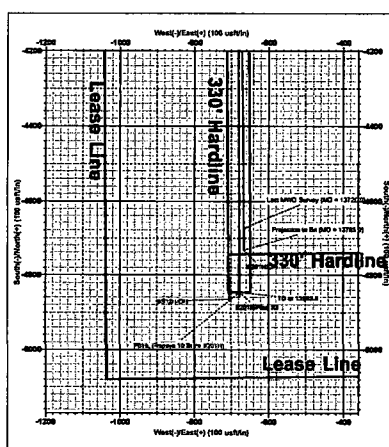
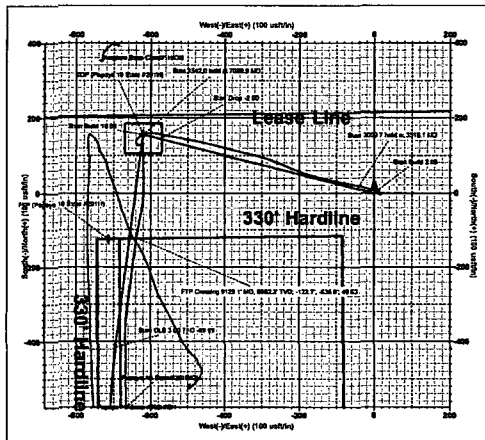
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3515.1	10.30	284.12	3512.3	11.3	-44.8	2.00	284.12	-5.0	
4	6574.8	10.30	284.12	6522.7	144.7	-575.4	0.00	0.00	-63.7	
5	7089.9	0.00	0.00	7035.0	156.0	-620.2	2.00	180.00	-68.7	KOP (Papaya 10 State #201H)
6	8631.9	0.00	0.00	8577.0	156.0	-620.2	0.00	0.00	-68.7	
7	9535.0	90.31	187.41	9149.9	-415.3	-694.5	10.00	187.41	507.4	
8	9798.7	90.31	179.50	9148.5	-678.3	-710.4	3.00	-89.99	770.1	TGT #1(Papaya 10 State #201H)
9	10637.7	90.31	179.50	9144.0	-1517.3	-703.0	0.00	0.00	1600.0	
10	10644.3	90.19	179.55	9144.0	-1523.9	-703.0	2.00	155.74	1606.5	TGT #2(Papaya 10 State #201H)
11	12154.0	90.19	179.55	9139.0	-3033.5	-691.2	0.00	0.00	3100.0	
12	12158.8	90.28	179.55	9139.0	-3038.3	-691.1	2.00	-0.07	3104.7	
13	13965.6	90.28	179.55	9130.0	-4845.0	-677.0	0.00	0.00	4892.1	PBHL (Papaya 10 State #201H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP (Papaya 10 State #201H)	7035.0	156.0	-620.2	546924.99	809085.00
PBHL (Papaya 10 State #201H)	9130.0	-4845.0	-677.0	541924.00	809029.00
TGT #2(Papaya 10 State #201H)	9139.0	-3033.5	-691.2	543735.50	809014.84
TGT #1(Papaya 10 State #201H)	9144.0	-1517.3	-703.0	546281.70	809062.98
FTP (Papaya 10 State #201H)	9145.0	-124.0	-714.0	546645.00	809092.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Papaya 10 State

#201H

OH

Design: OH

Midland PVA

24 May, 2018

HOBBS OCD
JUN 26 2018
RECEIVED





Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3713.0usft
Site:	Papaya 10 State	MD Reference:	KB = 25' @ 3713.0usft
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	Papaya 10 State		
Site Position:		Northing:	546,769.00 usft
From:	Map	Easting:	809,706.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 30' 0.424 N
		Longitude:	103° 27' 46.265 W
		Grid Convergence:	0.47 "

Well	#201H		
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:
			3,688.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	5/8/2018	6.83
			Dip Angle
			(°)
			60.32
			Field Strength
			(nT)
			48,019,54701885

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
			(°)
			187.95



Midland PVA



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Well:	#201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program	Date	5/24/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
134.0	1,934.0	Cartel 41 8' KB +17' (OH)	MWD	OWSG MWD - Standard	
1,989.0	13,785.0	Premier MWD (OH)	MWD	OWSG MWD - Standard	

ND (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
134.0	0.09	18.58	134.0	0.1	0.0	0.07	0.07	0.00	-0.1	0.0
315.0	0.49	72.48	315.0	0.5	0.8	0.24	0.22	29.78	-0.9	0.2
506.0	0.22	60.45	506.0	0.9	1.9	0.15	-0.14	-8.30	-2.1	-0.2
696.0	0.09	259.54	696.0	1.0	2.1	0.16	-0.07	-84.69	2.2	-0.7
885.0	0.09	58.64	885.0	1.1	2.1	0.09	0.00	84.18	-2.3	-0.1
1,075.0	0.09	277.26	1,075.0	1.2	2.0	0.09	0.00	-74.41	1.9	-1.4
1,265.0	0.22	23.16	1,265.0	1.5	2.0	0.14	0.07	55.74	-2.2	-1.3
1,456.0	0.09	354.55	1,456.0	2.0	2.2	0.08	-0.07	-14.98	-1.8	-2.4
1,646.0	0.22	169.78	1,646.0	1.8	2.2	0.16	0.07	92.23	1.4	2.5
1,835.0	0.22	165.24	1,835.0	1.1	2.4	0.01	0.00	-2.40	0.5	2.6
1,878.0	0.09	112.18	1,878.0	1.0	2.4	0.42	-0.30	-123.40	-1.9	1.9
2,019.0	0.22	100.38	2,019.0	0.9	2.8	0.09	0.09	-8.37	-2.6	1.4
2,113.0	0.84	84.64	2,113.0	1.0	3.7	0.67	0.66	-16.74	-3.7	0.6
2,302.0	1.05	111.63	2,302.0	0.5	6.7	0.26	0.11	14.28	-6.0	2.9
2,491.0	1.10	115.67	2,490.9	-1.0	9.9	0.05	0.03	2.14	-9.3	3.4
2,680.0	1.23	112.06	2,679.9	-2.5	13.4	0.08	0.07	-1.91	-13.4	2.7
2,869.0	1.32	112.94	2,868.8	-4.1	17.3	0.05	0.05	0.47	-17.5	2.9
2,964.0	0.13	221.49	2,963.8	-4.6	18.2	1.44	-1.25	114.28	8.6	16.7
3,058.0	1.71	302.96	3,057.8	-4.0	17.0	1.80	1.68	86.67	17.0	-6.1
3,153.0	3.21	300.24	3,152.7	-1.8	13.5	1.58	1.58	-2.86	16.5	-6.3



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3713.0usft
Site:	Papaya 10 State	MD Reference:	KB = 25' @ 3713.0usft
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)	
3,248.0	5.58	299.80	3,247.4	1.8	7.2	2.49	2.49	-0.46	15.6	-8.0	
3,342.0	8.48	293.91	3,340.7	6.9	-3.1	3.17	3.09	-6.27	14.3	-8.4	
3,437.0	11.16	285.21	3,434.3	12.1	-18.4	3.22	2.82	-9.16	12.0	-7.5	
3,626.0	10.64	282.92	3,619.9	20.8	-53.0	0.36	-0.28	-1.21	9.2	-7.1	
3,815.0	9.45	279.94	3,806.0	27.4	-85.3	0.69	-0.63	-1.58	10.3	-5.0	
4,005.0	9.80	283.45	3,993.3	33.9	-116.4	0.36	0.18	1.85	12.3	-4.3	
4,194.0	9.85	284.33	4,179.6	41.6	-147.7	0.08	0.03	0.47	13.8	-4.4	
4,383.0	10.02	286.62	4,365.7	50.3	-179.2	0.23	0.09	1.21	14.8	-5.7	
4,572.0	11.91	292.77	4,551.3	62.6	-212.9	1.17	1.00	3.25	11.6	-10.6	
4,761.0	10.99	291.54	4,736.5	76.7	-247.6	0.50	-0.49	-0.65	7.8	-15.1	
4,950.0	10.24	291.54	4,922.3	89.5	-280.0	0.40	-0.40	0.00	6.5	-19.5	
5,140.0	11.96	282.52	5,108.7	100.0	-315.0	1.28	0.91	-4.75	7.0	-20.0	
5,329.0	11.74	283.89	5,293.7	108.8	-352.7	0.19	-0.12	0.72	1.4	-19.5	
5,518.0	11.43	283.45	5,478.9	117.8	-389.6	0.17	-0.16	-0.23	-2.7	-19.2	
5,707.0	11.16	283.36	5,664.2	126.4	-425.6	0.14	-0.14	-0.05	-6.0	-18.8	
5,881.0	10.68	283.01	5,835.1	133.9	-457.7	0.28	-0.28	-0.20	-7.7	-18.4	
5,952.0	10.86	282.66	5,904.8	136.9	-470.7	0.27	0.25	-0.49	-8.2	-18.1	
6,141.0	10.59	279.67	6,090.5	143.7	-505.1	0.33	-0.14	-1.58	-8.7	-16.8	
6,329.0	9.71	281.69	6,275.6	149.8	-537.7	0.50	-0.47	1.07	-8.8	-14.5	
6,424.0	8.92	281.43	6,369.3	152.9	-552.8	0.83	-0.83	-0.27	-7.1	-13.8	
6,519.0	9.05	280.64	6,463.1	155.7	-567.3	0.19	0.14	-0.83	-4.8	-12.9	
6,613.0	9.01	281.08	6,556.0	158.5	-581.8	0.08	-0.04	0.47	-3.0	-12.0	
6,708.0	9.58	272.64	6,649.7	160.3	-597.0	1.55	0.60	-8.89	-2.5	-10.5	
6,803.0	9.54	255.06	6,743.4	158.6	-612.5	3.06	-0.04	-18.51	-4.9	-7.7	
6,896.0	9.10	237.84	6,835.2	152.7	-626.2	3.02	-0.47	-18.52	-11.6	-5.4	
6,991.0	7.74	218.76	6,929.2	143.7	-636.6	3.25	-1.43	-20.08	-20.6	-6.9	
7,085.0	3.30	173.24	7,022.8	136.1	-640.2	6.29	-4.72	-48.43	-17.4	-22.2	



Midland PVA



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Site:	Papaya 10 State	MD Reference:	KB = 25' @ 3713.0usft
Well:	#201H	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)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
7,180.0	3.87	125.34	7,117.6	131.5	-637.3	3.11	0.60	-50.42	-0.2	-29.8
7,274.0	0.79	142.12	7,211.5	129.2	-634.3	3.32	-3.28	17.85	-12.5	-27.6
7,464.0	0.57	204.44	7,401.5	127.3	-633.9	0.38	-0.12	32.80	-31.8	-0.6
7,653.0	0.75	221.84	7,590.5	125.5	-635.1	0.14	0.10	9.21	-32.6	9.2
7,842.0	1.58	70.49	7,779.5	125.5	-633.5	1.20	0.44	-80.08	22.7	-24.4
8,032.0	2.11	60.65	7,969.4	128.0	-627.9	0.32	0.28	-5.18	20.4	-20.6
8,221.0	1.76	58.71	8,158.3	131.3	-622.4	0.19	-0.19	-1.03	14.7	-20.0
8,339.0	1.76	61.44	8,276.2	133.1	-619.3	0.07	0.00	2.31	10.2	-20.6
8,529.0	2.33	216.57	8,466.2	131.4	-619.0	2.10	0.30	81.65	-19.1	15.6
8,623.0	2.73	207.78	8,560.1	127.8	-621.2	0.59	0.43	-9.35	-25.4	12.2
8,718.0	13.85	174.55	8,654.0	114.5	-621.2	12.27	11.71	-34.98	-35.8	-3.6
8,765.0	22.51	173.32	8,698.6	99.9	-619.6	18.44	18.43	-2.62	-42.1	-2.3
8,812.0	29.41	178.07	8,740.8	79.4	-618.2	15.32	14.68	10.11	-50.6	4.2
8,859.0	34.46	178.60	8,780.7	54.6	-617.4	10.76	10.74	1.13	-59.8	7.6
8,906.0	37.10	180.00	8,818.8	27.1	-617.1	5.88	5.62	2.98	-67.8	12.2
8,954.0	39.47	183.52	8,856.5	-2.6	-618.1	6.71	4.94	7.33	-73.0	18.6
9,000.0	42.55	188.62	8,891.2	-32.6	-621.3	9.88	6.70	11.09	-75.0	24.5
9,048.0	44.13	190.46	8,926.1	-65.1	-626.8	4.21	3.29	3.83	-75.7	24.9
9,096.0	45.98	189.76	8,960.0	-98.5	-632.7	3.99	3.85	-1.46	-73.9	22.4
9,129.1	49.63	189.63	8,982.3	-122.7	-636.8	11.03	11.02	-0.39	-71.5	21.1
FTP Crossing 9129.1' MD; 8982.3' TVD; -122.7°; -636.8°; 49.63										
9,143.0	51.16	189.58	8,991.1	-133.2	-638.6	11.03	11.02	-0.36	-70.5	20.6
9,190.0	57.93	186.68	9,018.4	-171.1	-644.0	15.25	14.40	-6.17	-68.0	18.2
9,237.0	59.82	187.83	9,042.7	-211.0	-649.1	4.53	4.02	2.45	-64.0	19.0
9,285.0	61.98	188.09	9,066.0	-252.6	-654.9	4.52	4.50	0.54	-57.2	18.7
9,332.0	62.33	187.65	9,088.0	-293.7	-660.6	1.11	0.74	-0.94	-47.5	18.5
9,379.0	66.64	184.57	9,108.2	-335.9	-665.1	10.91	9.17	-6.55	-35.8	19.1



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
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9,426.0	71.60	181.06	9,125.0	-379.7	-667.2	12.65	10.55	-7.47	-24.0	22.3	
9,474.0	76.44	179.83	9,138.2	-425.9	-667.6	10.38	10.08	-2.56	-12.2	27.8	
9,521.0	83.47	179.48	9,146.4	-472.1	-667.3	14.98	14.96	-0.74	-3.7	33.5	
9,569.0	89.67	179.56	9,149.2	-520.0	-666.9	12.92	12.92	0.17	-0.2	38.2	
9,663.0	90.20	178.33	9,149.3	-614.0	-665.1	1.42	0.56	-1.31	0.5	44.7	
9,852.0	91.30	181.23	9,146.9	-802.9	-664.4	1.64	0.58	1.53	-1.0	44.9	
10,041.0	91.08	181.23	9,142.9	-991.9	-668.5	0.12	-0.12	0.00	-3.9	39.1	
10,230.0	89.89	181.23	9,141.3	-1,180.8	-672.5	0.63	-0.63	0.00	-4.5	33.4	
10,419.0	91.52	181.50	9,139.0	-1,369.7	-677.0	0.87	0.86	0.14	-5.8	27.3	
10,608.0	91.25	180.27	9,134.4	-1,558.6	-680.0	0.67	-0.14	-0.65	-9.4	22.7	
10,797.0	90.42	180.27	9,131.7	-1,747.6	-680.8	0.44	-0.44	0.00	-11.5	20.4	
10,891.0	88.66	181.50	9,132.4	-1,841.6	-682.3	2.28	-1.87	1.31	-10.5	18.2	
10,986.0	86.64	181.41	9,136.3	-1,936.5	-684.7	2.13	-2.13	-0.09	-6.2	15.0	
11,080.0	89.23	180.53	9,139.7	-2,030.4	-686.3	2.91	2.76	-0.94	-2.6	12.7	
11,174.0	90.46	180.44	9,140.0	-2,124.4	-687.1	1.31	1.31	-0.10	-2.0	11.2	
11,269.0	91.52	180.27	9,138.3	-2,219.4	-687.7	1.13	1.12	-0.18	-3.3	9.8	
11,363.0	93.32	179.65	9,134.4	-2,313.3	-687.6	2.03	1.91	-0.66	-7.0	9.2	
11,458.0	91.03	179.48	9,130.8	-2,408.2	-686.9	2.42	-2.41	-0.18	-10.3	9.2	
11,552.0	91.91	179.21	9,128.4	-2,502.2	-685.8	0.98	0.94	-0.29	-12.4	9.5	
11,646.0	88.84	178.95	9,127.7	-2,596.1	-684.3	3.28	-3.27	-0.28	-12.7	10.3	
11,741.0	89.80	178.86	9,128.9	-2,691.1	-682.5	1.01	1.01	-0.09	-11.3	11.3	
11,835.0	88.09	179.30	9,130.6	-2,785.1	-681.0	1.88	-1.82	0.47	-9.2	12.1	
11,930.0	88.97	179.56	9,133.0	-2,880.1	-680.0	0.97	0.93	0.27	-6.5	12.3	
12,024.0	90.24	179.65	9,133.7	-2,974.0	-679.4	1.35	1.35	0.10	-5.5	12.2	
12,119.0	91.16	179.56	9,132.5	-3,069.0	-678.7	0.97	0.97	-0.09	-6.3	12.1	
12,213.0	88.70	180.18	9,132.6	-3,163.0	-678.5	2.70	-2.62	0.66	-5.7	11.6	
12,308.0	87.87	179.56	9,135.5	-3,258.0	-678.3	1.09	-0.87	-0.65	-2.4	11.1	



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3713.0usft
Site:	Papaya 10 State	MD Reference:	KB = 25' @ 3713.0usft
Well:	#201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (")	Azi (azi/muth) (")	TVD (usft)	N/S (usft)	EAW (usft)	DLeg ("/100usft)	Bulld ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
12,402.0	90.37	179.83	9,136.9	-3,352.0	-677.8	2.68	2.66	0.29	-0.5	-0.5	10.9
12,497.0	90.73	179.65	9,136.0	-3,447.0	-677.4	0.42	0.38	-0.19	-0.9	-0.9	10.6
12,591.0	90.59	179.65	9,134.9	-3,541.0	-676.8	0.15	-0.15	0.00	-1.6	-1.6	10.4
12,686.0	90.68	179.65	9,133.9	-3,635.9	-676.2	0.09	0.09	0.00	-2.1	-2.1	10.2
12,780.0	90.64	179.48	9,132.8	-3,729.9	-675.5	0.19	-0.04	-0.18	-2.8	-2.8	10.2
12,875.0	90.68	180.00	9,131.7	-3,824.9	-675.1	0.55	0.04	0.55	-3.4	-3.4	9.9
12,970.0	89.23	179.65	9,131.8	-3,919.9	-674.8	1.57	-1.53	-0.37	-2.8	-2.8	9.4
13,064.0	88.84	179.65	9,133.4	-4,013.9	-674.2	0.41	-0.41	0.00	-0.8	-0.8	9.3
13,159.0	91.78	179.13	9,132.8	-4,108.9	-673.2	3.14	3.09	-0.55	-0.8	-0.8	9.6
13,253.0	92.44	178.86	9,129.4	-4,202.8	-671.6	0.76	0.70	-0.29	-3.8	-3.8	10.5
13,348.0	91.03	179.04	9,126.5	-4,297.7	-669.8	1.50	-1.48	0.19	-6.2	-6.2	11.5
13,442.0	91.52	179.30	9,124.4	-4,391.7	-668.5	0.59	0.52	0.28	-7.8	-7.8	12.1
13,537.0	92.97	179.48	9,120.7	-4,486.6	-667.4	1.54	1.53	0.19	-11.1	-11.1	12.4
13,631.0	94.37	179.65	9,114.7	-4,580.4	-666.7	1.50	1.49	0.18	-16.6	-16.6	12.4
13,726.0	95.16	179.48	9,106.8	-4,675.1	-666.0	0.85	0.83	-0.18	-24.0	-24.0	12.3
Last MWD Survey (MD = 13726.0)											
13,785.0	95.16	179.48	9,101.5	-4,733.9	-665.5	0.00	0.00	0.00	-29.1	-29.1	12.4
Projection to Bit (MD = 13785.0)											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
9,129.1	8,982.3	-122.7	-636.8	FTP Crossing 9129.1' MD; 8982.3' TVD; -122.7'; -636.8'; 49.63
13,726.0	9,106.8	-4,675.1	-666.0	Last MWD Survey (MD = 13726.0)
13,785.0	9,101.5	-4,733.9	-665.5	Projection to Bit (MD = 13785.0)



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3713.0usft
Site:	Papaya 10 State	MD Reference:	KB = 25' @ 3713.0usft
Well:	#201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Checked By: _____	Approved By: _____	Date: _____
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