



Lea County, NM (NAD 27 NME)
 Persimmon 24 State Com #201H
 H&P 647
 Plan #2

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

WELL DETAILS: #201H

Ground Level: 3757.0
 KB = 25 @ 3782.0usft (H&P 647)
 Northing 533286.00 Easting 751435.00 Latitude 32° 27' 48.216 N Longitude 103° 31' 5.246 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
1	8940.6	1.59	189.04	8934.2	208.5	-5.9	0.00	0.00	-208.6
2	9811.1	88.62	179.51	9491.3	-350.4	-3.6	10.00	-9.54	350.4
3	10961.1	88.62	179.51	9519.0	-1500.0	6.4	0.00	0.00	1500.0
4	10996.0	89.32	179.51	9519.6	-1534.9	6.7	2.00	0.31	1534.9
5	12961.2	89.32	179.51	9543.0	-3499.9	23.5	0.00	0.00	3500.0
6	12968.7	89.17	179.51	9543.1	-3507.4	23.6	2.00	-179.99	3507.5
7	14961.5	89.17	179.51	9572.0	-5499.9	40.6	0.00	0.00	5500.0
8	14979.2	89.52	179.51	9572.2	-5517.6	40.8	2.00	0.00	5517.7
9	16873.7	89.52	179.51	9588.0	-7412.0	57.0	0.00	0.00	7412.2

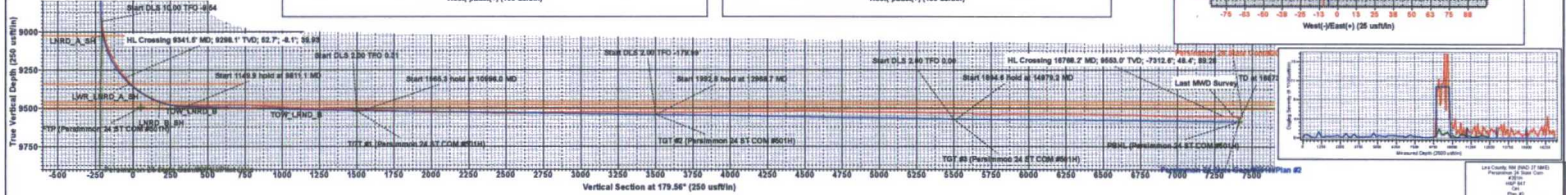
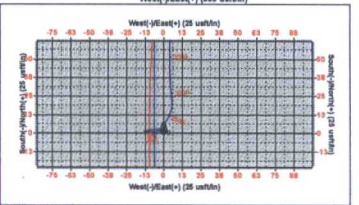
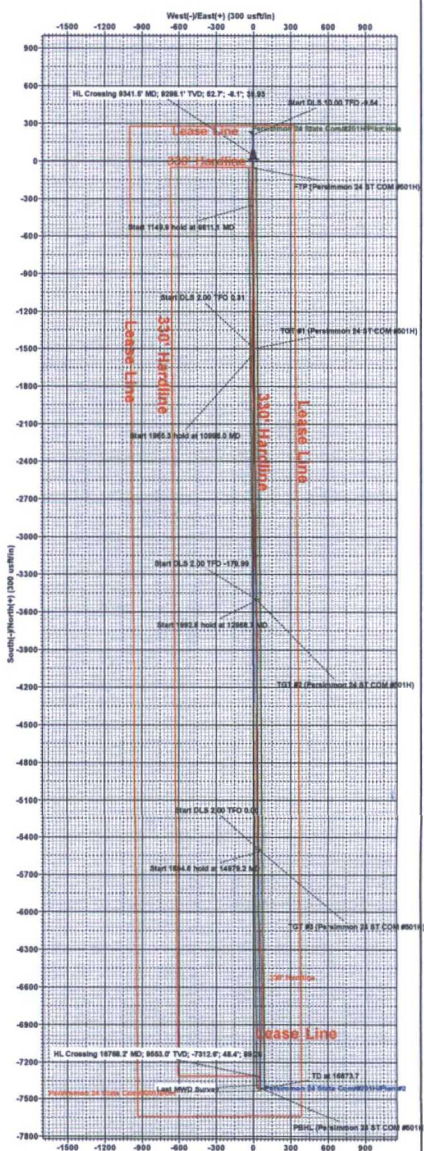
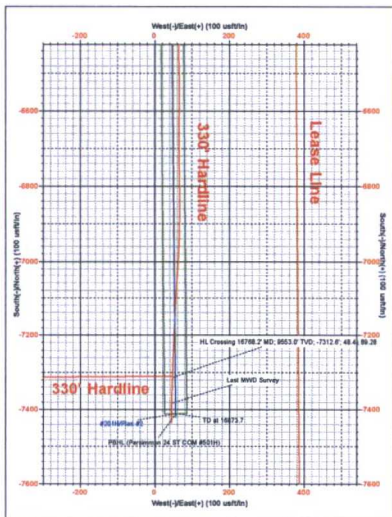
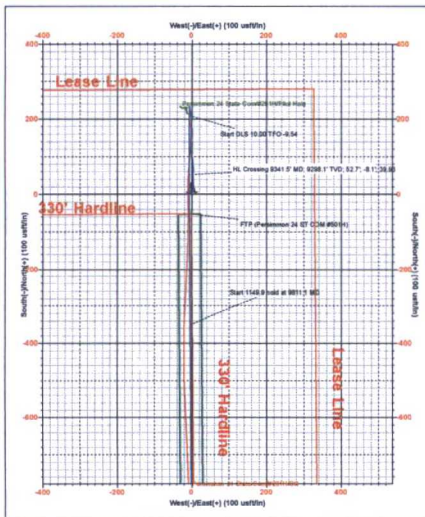
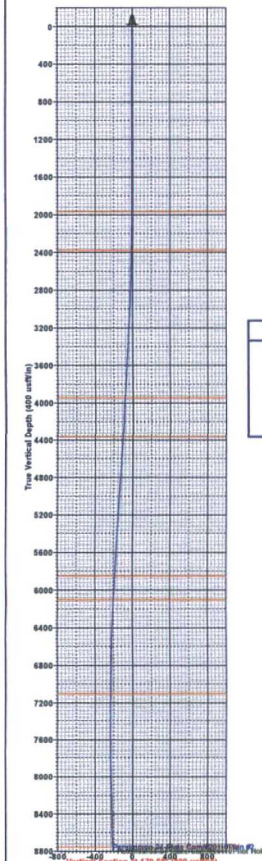
CASING DETAILS
 No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
TOT #1 (Persimmon 24 ST COM #601H)	9819.0	-1500.0	6.4	531756.00	751441.36
TOT #2 (Persimmon 24 ST COM #601H)	9543.0	-3499.9	23.5	529756.10	751468.49
TOT #3 (Persimmon 24 ST COM #601H)	9572.0	-5499.9	40.6	527756.10	751475.62
PBH (Persimmon 24 ST COM #601H)	9588.0	-7412.0	57.0	528844.00	751482.00
FTP (Persimmon 24 ST COM #601H)	9495.0	-63.0	0.0	533203.00	751435.00

WELL DETAILS: #201H

Ground Level: 3757.0
 KB = 25 @ 3782.0usft (H&P 647)
 Northing 533286.00 Easting 751435.00 Latitude 32° 27' 48.216 N Longitude 103° 31' 5.246 W





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Persimmon 24 State Com

#201H

OH

Survey: Intrepid MWD #1

EOG PVA

11 March, 2017

HODBS OCD
MAY 18 2017
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EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25' @ 3781.0usft
Site:	Persimmon 24 State Com	MD Reference:	KB = 25' @ 3781.0usft
Well:	#201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Lea County, NM (NAD 27 NME)		
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	Persimmon 24 State Com		
Site Position:		Northing:	533,255.00 usft
From:	Map	Easting:	751,325.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 27' 48.215 N
		Longitude:	103° 31' 6.530 W
		Grid Convergence:	0.44 °

Well	#201H		
Well Position	+N/-S	0.0 usft	Northing: 533,256.00 usft
	+E/-W	0.0 usft	Easting: 751,435.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 27' 48.216 N
		Longitude:	103° 31' 5.246 W
		Ground Level:	3,757.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	2/8/2017	6.98
			Dip Angle (°) 60.30
			Field Strength (nT) 48,120

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	8,757.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
		Direction (°)	179.56



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EOG PVA

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Site: Persimmon 24 State Com
Well: #201H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #201H
TVD Reference: KB = 25' @ 3781.0usft
MD Reference: KB = 25' @ 3781.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey Program Date 3/11/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
142.0	8,757.0	Intrepid MWD #1 (Pilot Hole)	MWD	MWD - Standard
8,854.0	16,892.0	Intrepid MWD #1 (OH)	MWD	MWD - Standard

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)
8,757.0	1.10	185.10	8,750.7	212.8	-5.3	0.00	0.00	0.00	0.0	0.0
8,854.0	1.30	189.80	8,847.6	210.8	-5.6	0.23	0.21	4.85	0.1	0.0
8,947.0	6.10	177.80	8,940.4	204.8	-5.6	5.20	5.16	-12.90	-3.5	0.2
8,994.0	9.90	176.00	8,986.9	198.3	-5.2	8.10	8.09	-3.83	-6.3	0.5
9,041.0	14.10	169.10	9,032.9	188.6	-3.8	9.43	8.94	-14.68	-8.5	0.8
9,087.0	18.50	170.90	9,077.1	175.9	-1.6	9.63	9.57	3.91	-10.4	3.2
9,134.0	23.10	179.00	9,121.0	159.3	-0.3	11.52	9.79	17.23	-11.4	6.0
9,181.0	27.20	183.90	9,163.5	139.3	-0.9	9.78	8.72	10.43	-12.2	6.4
9,229.0	30.20	185.20	9,205.6	116.4	-2.7	6.38	6.25	2.71	-12.3	4.7
9,276.0	33.50	185.70	9,245.5	91.7	-5.1	7.04	7.02	1.06	-11.2	2.3
9,322.0	37.90	184.10	9,282.9	64.9	-7.3	9.78	9.57	-3.48	-9.4	-0.5
9,369.0	42.80	182.40	9,318.7	34.6	-9.0	10.68	10.43	-3.62	-7.4	-2.6
9,416.0	47.40	179.90	9,351.9	1.3	-9.7	10.49	9.79	-5.32	-5.3	-3.6
9,463.0	52.80	179.00	9,382.0	-34.7	-9.3	11.58	11.49	-1.91	-3.5	-3.5
9,510.0	60.40	180.70	9,407.9	-73.9	-9.2	16.45	16.17	3.62	-3.2	-3.6
9,557.0	64.20	180.80	9,429.7	-115.5	-9.8	8.09	8.09	0.21	-3.6	-4.4
9,604.0	66.50	182.00	9,449.3	-158.2	-10.8	5.42	4.89	2.55	-2.8	-5.7
9,651.0	71.90	182.30	9,466.0	-202.1	-12.5	11.50	11.49	0.64	-1.2	-7.7
9,698.0	79.60	182.70	9,477.6	-247.6	-14.5	16.40	16.38	0.85	-1.0	-10.1
9,748.0	87.70	183.20	9,483.1	-297.2	-17.0	16.23	16.20	1.00	-3.5	-13.0
9,841.0	90.60	181.10	9,484.5	-390.1	-20.5	3.85	3.12	-2.26	-6.8	-17.3



EOG Resources, Inc.

EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Persimmon 24 State Com
Well: #201H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #201H
TVD Reference: KB = 25' @ 3781.0usft
MD Reference: KB = 25' @ 3781.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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)
9,935.0	90.80	178.60	9,483.3	-484.1	-20.3	2.67	0.21	-2.66	-10.2	-17.9
10,029.0	91.60	176.30	9,481.3	-578.0	-16.1	2.59	0.85	-2.45	-14.5	-14.5
10,123.0	91.00	177.80	9,479.2	-671.8	-11.3	1.72	-0.64	1.60	-18.8	-10.5
10,216.0	87.50	178.30	9,480.4	-764.7	-8.1	3.80	-3.76	0.54	-19.9	-8.1
10,309.0	86.90	178.10	9,485.0	-857.6	-5.2	0.68	-0.65	-0.22	-17.6	-6.0
10,402.0	86.40	179.50	9,490.4	-950.4	-3.2	1.60	-0.54	1.51	-14.4	-4.9
10,496.0	87.10	180.00	9,495.7	-1,044.3	-2.8	0.91	0.74	0.53	-11.3	-5.2
10,589.0	89.30	181.70	9,498.7	-1,137.2	-4.2	2.99	2.37	1.83	-10.6	-7.4
10,683.0	89.60	181.80	9,499.6	-1,231.1	-7.1	0.34	0.32	0.11	-12.0	-11.1
10,776.0	88.20	180.70	9,501.3	-1,324.1	-9.1	1.91	-1.51	-1.18	-12.4	-13.9
10,870.0	88.40	180.70	9,504.1	-1,418.0	-10.2	0.21	0.21	0.00	-11.9	-15.9
10,964.0	86.80	180.80	9,508.1	-1,512.0	-11.5	1.71	-1.70	0.11	-10.2	-17.9
11,058.0	86.90	179.10	9,513.2	-1,605.8	-11.4	1.81	0.11	-1.81	-6.2	-18.7
11,152.0	87.70	178.60	9,517.7	-1,699.7	-9.5	1.00	0.85	-0.53	-2.9	-17.6
11,246.0	88.40	177.80	9,520.9	-1,793.6	-6.6	1.13	0.74	-0.85	-0.8	-15.4
11,340.0	87.60	177.50	9,524.1	-1,887.4	-2.7	0.91	-0.85	-0.32	1.3	-12.4
11,434.0	89.20	177.50	9,526.8	-1,981.3	1.4	1.70	1.70	0.00	2.8	-9.1
11,527.0	90.30	179.40	9,527.2	-2,074.3	3.9	2.36	1.18	2.04	2.1	-7.4
11,621.0	90.10	179.40	9,526.8	-2,168.3	4.9	0.21	-0.21	0.00	0.7	-7.2
11,715.0	87.60	180.00	9,528.7	-2,262.2	5.4	2.74	-2.66	0.64	1.4	-7.5
11,809.0	88.40	180.30	9,532.0	-2,356.2	5.1	0.91	0.85	0.32	3.6	-8.6
11,902.0	89.40	180.70	9,533.8	-2,449.2	4.3	1.16	1.08	0.43	4.3	-10.2
11,996.0	89.50	181.00	9,534.7	-2,543.1	2.9	0.34	0.11	0.32	4.1	-12.4
12,089.0	91.50	180.50	9,533.9	-2,636.1	1.7	2.22	2.15	-0.54	2.2	-14.4
12,183.0	91.30	178.90	9,531.6	-2,730.1	2.2	1.71	-0.21	-1.70	-1.3	-14.7
12,276.0	91.00	178.10	9,529.7	-2,823.0	4.6	0.92	-0.32	-0.86	-4.2	-13.1
12,370.0	90.80	179.50	9,528.2	-2,917.0	6.6	1.50	-0.21	1.49	-6.8	-11.9



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EOG PVA

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Site: Persimmon 24 State Com
Well: #201H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #201H
TVD Reference: KB = 25' @ 3781.0usft
MD Reference: KB = 25' @ 3781.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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)
12,463.0	90.80	179.10	9,526.9	-3,010.0	7.7	0.43	0.00	-0.43	-9.2	-11.6
12,556.0	90.40	177.80	9,526.0	-3,103.0	10.3	1.46	-0.43	-1.40	-11.3	-9.8
12,650.0	88.90	176.90	9,526.5	-3,196.8	14.6	1.86	-1.60	-0.96	-11.8	-6.3
12,743.0	89.80	177.60	9,527.6	-3,289.7	19.1	1.23	0.97	0.75	-11.9	-2.6
12,837.0	90.90	178.50	9,527.0	-3,383.7	22.3	1.51	1.17	0.96	-13.6	-0.2
12,930.0	90.30	177.80	9,526.1	-3,476.6	25.3	0.99	-0.65	-0.75	-15.7	2.0
13,024.0	90.30	178.10	9,525.6	-3,570.6	28.6	0.32	0.00	0.32	-17.5	4.5
13,117.0	88.50	177.70	9,526.5	-3,663.5	32.0	1.98	-1.94	-0.43	-17.8	7.1
13,211.0	89.90	178.60	9,527.8	-3,757.4	35.1	1.77	1.49	0.96	-17.9	9.4
13,305.0	91.70	180.20	9,526.5	-3,851.4	36.1	2.56	1.91	1.70	-20.5	9.6
13,399.0	92.00	180.00	9,523.5	-3,945.4	35.9	0.38	0.32	-0.21	-24.9	8.6
13,492.0	89.50	180.70	9,522.3	-4,038.3	35.3	2.79	-2.69	0.75	-27.5	7.2
13,586.0	89.20	181.20	9,523.4	-4,132.3	33.8	0.62	-0.32	0.53	-27.8	4.9
13,680.0	90.80	181.40	9,523.4	-4,226.3	31.6	1.72	1.70	0.21	-29.2	1.9
13,774.0	91.10	181.40	9,521.8	-4,320.2	29.3	0.32	0.32	0.00	-32.1	-1.2
13,868.0	91.40	181.60	9,519.7	-4,414.2	26.9	0.38	0.32	0.21	-35.5	-4.4
13,962.0	89.70	180.80	9,518.8	-4,508.2	24.9	2.00	-1.81	-0.85	-37.8	-7.2
14,056.0	88.40	180.70	9,520.4	-4,602.1	23.7	1.39	-1.38	-0.11	-37.6	-9.2
14,149.0	88.80	180.40	9,522.7	-4,695.1	22.8	0.54	0.43	-0.32	-36.7	-10.9
14,242.0	89.40	179.80	9,524.1	-4,788.1	22.6	0.91	0.65	-0.65	-36.5	-11.9
14,335.0	88.60	179.40	9,525.8	-4,881.1	23.3	0.96	-0.86	-0.43	-36.3	-12.0
14,429.0	89.90	179.60	9,527.0	-4,975.1	24.1	1.40	1.38	0.21	-36.4	-12.0
14,523.0	89.40	179.20	9,527.6	-5,069.1	25.1	0.68	-0.53	-0.43	-37.2	-11.9
14,617.0	88.70	178.90	9,529.1	-5,163.0	26.6	0.81	-0.74	-0.32	-37.0	-11.1
14,711.0	88.80	179.10	9,531.2	-5,257.0	28.3	0.24	0.11	0.21	-36.3	-10.3
14,804.0	89.40	179.10	9,532.6	-5,350.0	29.7	0.65	0.65	0.00	-36.2	-9.6
14,898.0	90.00	179.20	9,533.1	-5,444.0	31.1	0.65	0.64	0.11	-37.1	-9.0



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EOG PVA

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Design: OH

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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)
14,991.0	88.70	178.10	9,534.2	-5,536.9	33.3	1.83	-1.40	-1.18	-37.2	-7.6
15,085.0	88.40	178.00	9,536.6	-5,630.8	36.5	0.34	-0.32	-0.11	-35.6	-5.2
15,179.0	88.90	178.80	9,538.8	-5,724.8	39.1	1.00	0.53	0.85	-34.2	-3.4
15,273.0	90.40	179.10	9,539.3	-5,818.8	40.9	1.63	1.60	0.32	-34.4	-2.5
15,368.0	91.40	178.90	9,537.9	-5,913.7	42.5	1.07	1.05	-0.21	-36.7	-1.6
15,462.0	90.10	177.70	9,536.6	-6,007.7	45.3	1.88	-1.38	-1.28	-38.7	0.3
15,556.0	89.10	177.10	9,537.3	-6,101.6	49.6	1.24	-1.06	-0.64	-38.8	3.8
15,649.0	89.80	177.00	9,538.2	-6,194.4	54.4	0.76	0.75	-0.11	-38.7	7.8
15,743.0	89.80	176.70	9,538.5	-6,288.3	59.5	0.32	0.00	-0.32	-39.1	12.1
15,837.0	89.20	177.60	9,539.3	-6,382.2	64.2	1.15	-0.64	0.96	-39.1	16.0
15,931.0	88.40	179.00	9,541.3	-6,476.1	67.0	1.72	-0.85	1.49	-37.9	18.0
16,025.0	89.90	180.30	9,542.7	-6,570.1	67.6	2.11	1.60	1.38	-37.3	17.8
16,118.0	89.30	180.20	9,543.3	-6,663.1	67.2	0.65	-0.65	-0.11	-37.4	16.6
16,212.0	87.10	179.20	9,546.3	-6,757.0	67.6	2.57	-2.34	-1.06	-35.3	16.3
16,306.0	87.70	179.30	9,550.5	-6,850.9	68.9	0.65	0.64	0.11	-31.8	16.7
16,400.0	89.40	182.90	9,552.9	-6,944.9	67.1	4.23	1.81	3.83	-30.2	14.1
16,493.0	89.50	183.60	9,553.8	-7,037.7	61.8	0.76	0.11	0.75	-30.1	8.0
16,587.0	90.80	183.20	9,553.6	-7,131.5	56.2	1.45	1.38	-0.43	-31.1	1.6
16,681.0	90.30	182.50	9,552.7	-7,225.4	51.6	0.92	-0.53	-0.74	-32.8	-3.8
16,775.0	89.20	181.60	9,553.1	-7,319.4	48.2	1.51	-1.17	-0.96	-33.1	-8.0
16,837.0	89.80	181.20	9,553.6	-7,381.3	46.7	1.16	0.97	-0.65	-33.1	-10.0
16,892.0	89.80	181.20	9,553.8	-7,436.3	45.5	0.00	0.00	0.00	-40.6	-13.4



EOG Resources, Inc.

EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Persimmon 24 State Com
Well: #201H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #201H
TVD Reference: KB = 25' @ 3781.0usft
MD Reference: KB = 25' @ 3781.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,341.5	9,298.1	52.7	-8.1	HL Crossing 9341.5' MD; 9298.1' TVD; 52.7'; -8.1'; 39.93
16,768.2	9,553.0	-7,312.6	48.4	HL Crossing 16768.2' MD; 9553.0' TVD; -7312.6'; 48.4'; 89.28
16,837.0	9,553.6	-7,381.3	46.7	Last MWD Survey
16,892.0	9,553.8	-7,436.3	45.5	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____