

AUG 31 2017

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Lea County, NM (NAD 83 NME)

Nectarine 13 State Com #501H

H&P 653

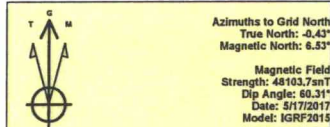
Plan #2

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: #501H

Ground Level: 3778.0
KB = 25' @ 3803.0usft (H&P 653)
Northing: 541251.00 Easting: 788211.00
Latitude: 32° 29' 7.492 N Longitude: 103° 31' 37.723 W



To convert a Magnetic Direction to a Grid Direction, Add 6.53°
To convert a Magnetic Direction to a True Direction, Add 6.96° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

SECTION DETAILS

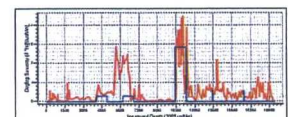
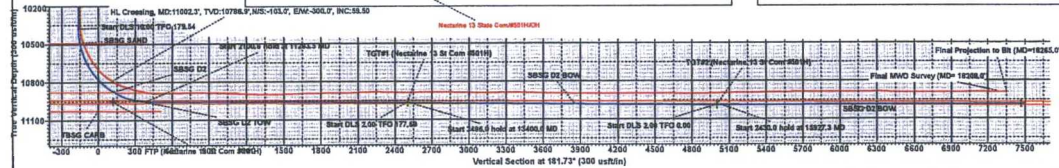
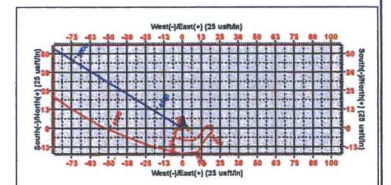
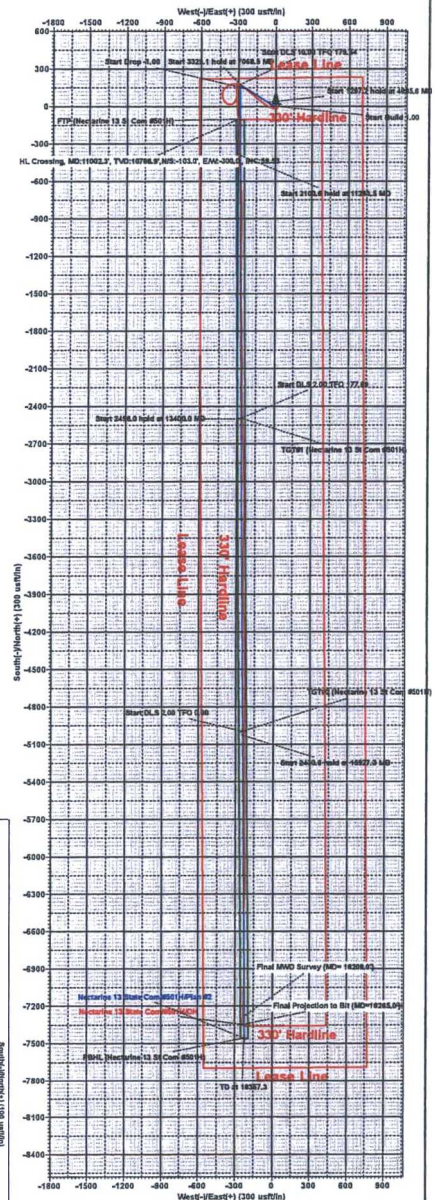
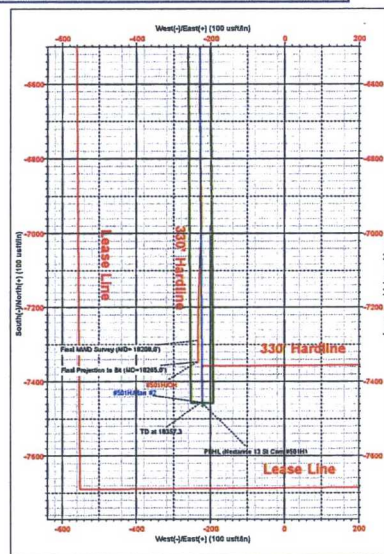
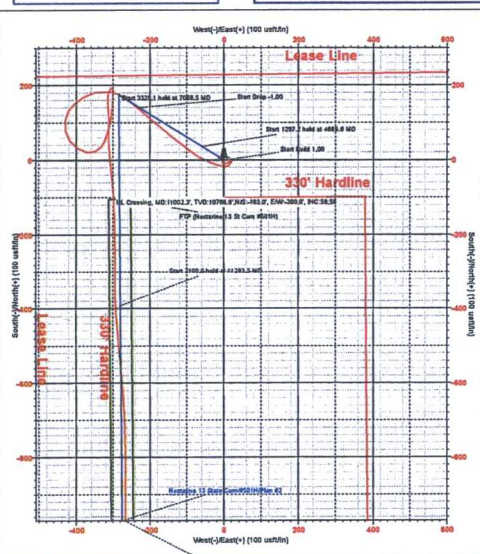
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4885.6	8.86	301.59	4882.1	35.8	-58.2	1.00	301.59	-34.0	
4	6182.9	8.86	301.59	6163.9	140.4	-228.3	0.00	0.00	-133.5	
5	7068.5	0.00	0.00	7046.0	176.2	-286.5	1.00	180.00	-167.5	
6	10397.6	0.00	0.00	10375.1	176.2	-286.5	0.00	0.00	-167.5	
7	11293.5	89.59	179.54	10948.0	-392.7	-281.9	10.00	179.54	401.0	
8	13394.1	89.59	179.54	10963.0	-2493.1	-264.8	0.00	0.00	2500.0	TGT#1 (Nectarine 13 St Com #501H)
9	13400.0	89.47	179.54	10963.0	-2499.0	-264.8	2.00	177.69	2505.9	
10	15896.1	89.47	179.54	10986.0	-4994.9	-244.8	0.00	0.00	5000.0	TGT#2 (Nectarine 13 St Com #501H)
11	15927.3	90.10	179.54	10986.1	-5026.1	-244.5	2.00	0.00	5031.2	
12	18357.3	90.10	179.54	10982.0	-7456.0	-225.0	0.00	0.00	7459.4	PBHL (Nectarine 13 St Com #501H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
FTP (Nectarine 13 St Com #501H)	10948.0	-102.0	-284.0	541149.00	787927.00
TGT#1 (Nectarine 13 St Com #501H)	10963.0	-2493.1	-264.8	538787.50	787946.15
PBHL (Nectarine 13 St Com #501H)	10982.0	-7456.0	-225.0	538786.00	787986.00
TGT#2 (Nectarine 13 St Com #501H)	10986.0	-4994.9	-244.8	538256.10	787966.24



Lea County, NM (NAD 83 NME)
Nectarine 13 State Com #501H
H&P 653
Plan #2
8/31/2017

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Aug 31 2017
HOBBS OCD

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Nectarine 13 State Com

#501H

OH

Design: OH

PVA Report

14 June, 2017

EOG Resources

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #501H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3803.0usft (H&P 653)
Site:	Nectarine 13 State Com	MD Reference:	KB = 25' @ 3803.0usft (H&P 653)
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 Single User Db

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	Nectarine 13 State Com		
Site Position:		Northing:	541,251.00 usft
From:	Map	Easting:	788,211.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 29' 7.492 N
		Longitude:	103° 31' 57.723 W
		Grid Convergence:	0.43 °

Well	#501H		
Well Position	+N/-S	0.0 usft	Northing: 541,251.00 usft
	+E/-W	0.0 usft	Easting: 788,211.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 29' 7.492 N
		Longitude:	103° 31' 57.723 W
		Ground Level:	3,778.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	5/17/2017	6.96
			Dip Angle (°) 60.31
			Field Strength (nT) 48,103.71561333

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 (°)	181.73

EOG Resources

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Nectarine 13 State Com
Well: #501H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #501H
TVD Reference: KB = 25' @ 3803.0usft (H&P 653)
MD Reference: KB = 25' @ 3803.0usft (H&P 653)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Survey Program Date 6/14/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
213.0	1,809.0	Wildfire MWD #1 (OH)	MWD	MWD - Standard
1,886.0	18,265.0	Drilltech MWD #1 (OH)	MWD	MWD - Standard

MD (usft)	Inc (°)	Azi (grid_north_azim)	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
213.0	0.70	257.87	213.0	-0.3	-1.3	0.33	0.33	0.00	-1.3	0.0
241.0	0.20	216.87	241.0	-0.3	-1.5	2.02	-1.79	-146.43	-1.2	-1.0
305.0	0.30	223.87	305.0	-0.6	-1.7	0.16	0.16	10.94	-1.5	-0.8
396.0	0.40	300.87	396.0	-0.6	-2.1	0.49	0.11	84.62	-1.5	1.6
427.0	0.50	310.87	427.0	-0.4	-2.3	0.41	0.32	32.26	-1.5	1.8
457.0	0.80	276.87	457.0	-0.3	-2.6	1.59	1.00	-113.33	-2.5	0.6
561.0	0.40	218.87	561.0	-0.5	-3.5	0.65	-0.38	-55.77	-2.6	-2.4
605.0	0.80	217.87	605.0	-0.9	-3.8	0.91	0.91	-2.27	-3.0	-2.5
649.0	0.30	226.87	649.0	-1.2	-4.1	1.15	-1.14	20.45	-3.8	-1.9
780.0	0.40	265.87	780.0	-1.5	-4.8	0.19	0.08	29.77	-4.9	1.1
823.0	0.40	281.87	823.0	-1.4	-5.1	0.26	0.00	37.21	-4.7	2.5
867.0	0.30	177.87	867.0	-1.5	-5.2	1.26	-0.23	-236.36	-1.3	-5.3
911.0	0.30	160.87	911.0	-1.7	-5.2	0.20	0.00	-38.64	0.1	-5.5
954.0	0.40	162.87	954.0	-2.0	-5.1	0.23	0.23	4.65	-0.4	-5.5
998.0	0.50	165.87	998.0	-2.3	-5.0	0.23	0.23	6.82	-1.0	-5.4
1,173.0	0.70	175.87	1,173.0	-4.1	-4.8	0.13	0.11	5.71	-3.8	-5.1
1,562.0	0.60	271.87	1,561.9	-6.4	-6.6	0.25	-0.03	24.68	-6.4	6.7
1,605.0	0.40	344.87	1,604.9	-6.3	-6.9	1.43	-0.47	169.77	4.3	8.3
1,649.0	0.20	350.87	1,648.9	-6.1	-6.9	0.46	-0.45	13.64	4.9	7.8
1,658.0	0.20	93.87	1,657.9	-6.0	-6.9	3.48	0.00	1,144.44	6.5	-6.5

EOG Resources

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Nectarine 13 State Com
Well: #501H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #501H
TVD Reference: KB = 25' @ 3803.0usft (H&P 653)
MD Reference: KB = 25' @ 3803.0usft (H&P 653)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
1,736.0	0.20	86.87	1,735.9	-6.1	-6.7	0.03	0.00	-8.97	7.0	-5.7	
1,780.0	0.40	301.87	1,779.9	-6.0	-6.7	1.31	0.45	-329.55	-2.6	8.6	
1,809.0	0.30	177.87	1,808.9	-6.0	-6.8	2.14	-0.34	-427.59	-5.7	-7.0	
1,886.0	0.26	76.49	1,885.9	-6.1	-6.6	0.56	-0.05	-131.66	7.9	-4.4	
2,076.0	1.14	96.79	2,075.9	-6.3	-4.3	0.47	0.46	10.68	3.6	-6.7	
2,266.0	2.46	107.96	2,265.8	-7.8	1.4	0.72	0.69	5.88	-3.7	-6.9	
2,455.0	1.76	59.18	2,454.7	-7.5	7.8	0.98	-0.37	-25.81	-2.8	-10.4	
2,644.0	1.93	37.82	2,643.6	-3.5	12.2	0.37	0.09	-11.30	-4.7	-11.8	
2,834.0	0.62	20.50	2,833.6	0.0	14.5	0.71	-0.69	-9.12	-5.1	-13.6	
3,023.0	1.23	52.23	3,022.5	2.2	16.5	0.41	0.32	16.79	-14.4	-8.4	
3,213.0	1.32	130.19	3,212.5	2.0	19.8	0.85	0.05	41.03	-13.8	14.3	
3,402.0	1.41	215.97	3,401.5	-1.3	20.1	0.98	0.05	45.39	10.8	17.0	
3,591.0	1.58	224.15	3,590.4	-5.0	16.9	0.14	0.09	4.33	8.2	15.6	
3,781.0	1.76	212.99	3,780.3	-9.4	13.5	0.20	0.09	-5.87	-0.5	16.4	
3,970.0	2.29	206.74	3,969.2	-15.2	10.2	0.30	0.28	-3.31	-8.9	15.9	
4,159.0	5.98	282.33	4,157.8	-16.4	-1.1	3.09	1.95	39.99	4.5	17.0	
4,348.0	9.06	285.67	4,345.1	-10.3	-25.1	1.65	1.63	1.77	-11.3	19.6	
4,537.0	10.64	296.39	4,531.4	1.5	-55.0	1.28	0.84	5.67	-25.2	25.5	
4,727.0	12.66	305.80	4,717.5	21.4	-87.6	1.46	1.06	4.95	-38.3	30.6	
4,916.0	16.09	307.99	4,900.5	49.7	-125.1	1.84	1.81	1.16	-57.7	29.9	
5,105.0	19.17	309.84	5,080.6	85.7	-169.6	1.66	1.63	0.98	-85.7	28.7	
5,200.0	21.02	308.87	5,169.8	106.4	-194.8	1.98	1.95	-1.02	-104.8	25.3	
5,294.0	22.34	310.19	5,257.2	128.5	-221.6	1.50	1.40	1.40	-125.2	26.1	
5,389.0	23.48	310.28	5,344.7	152.4	-249.8	1.20	1.20	0.09	-148.5	24.3	
5,482.0	23.65	299.12	5,430.0	173.5	-280.3	4.79	0.18	-12.00	-173.6	-8.6	
5,576.0	23.92	275.39	5,516.2	184.4	-315.8	10.12	0.29	-25.24	-179.2	-80.2	
5,671.0	21.90	256.93	5,603.8	182.2	-352.3	7.82	-2.13	-19.43	-171.7	-128.1	

EOG Resources

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #501H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3803.0usft (H&P 653)
Site:	Nectarine 13 State Com	MD Reference:	KB = 25' @ 3803.0usft (H&P 653)
Well:	#501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
5,766.0	19.43	237.86	5,692.8	169.8	-382.9	7.51	-2.60	-20.07	-148.8	-168.8
5,860.0	16.62	228.98	5,782.2	152.7	-406.3	4.17	-2.99	-9.45	-146.1	-178.1
5,955.0	15.04	209.47	5,873.6	133.0	-422.7	5.81	-1.66	-20.54	-105.3	-205.9
6,049.0	17.06	192.07	5,964.0	108.9	-431.5	5.52	2.15	-18.51	-70.0	-217.5
6,144.0	18.91	166.58	6,054.5	80.2	-430.9	8.44	1.95	-26.83	-9.8	-221.5
6,238.0	18.55	146.01	6,143.6	53.0	-419.0	7.00	-0.38	-21.88	27.1	-209.0
6,333.0	18.20	122.90	6,233.9	32.4	-398.0	7.63	-0.37	-24.33	65.8	-185.2
6,428.0	15.39	99.08	6,325.0	22.3	-373.1	7.76	-2.96	-25.07	99.4	-150.8
6,522.0	13.01	66.74	6,416.2	24.5	-351.0	8.68	-2.53	-34.40	138.0	-87.3
6,617.0	11.34	41.69	6,509.1	35.7	-335.0	5.78	-1.76	-26.37	141.4	-32.9
6,712.0	9.85	20.15	6,602.6	50.3	-326.0	4.42	-1.57	-22.67	128.3	10.8
6,807.0	10.11	20.24	6,696.1	65.8	-320.3	0.27	0.27	0.09	113.2	4.1
6,901.0	10.20	16.37	6,788.6	81.5	-315.1	0.73	0.10	-4.12	97.4	6.5
6,996.0	10.02	13.30	6,882.2	97.6	-310.8	0.60	-0.19	-3.23	81.3	7.9
7,091.0	7.91	8.11	6,976.0	112.2	-308.0	2.38	-2.22	-5.46	66.2	12.7
7,185.0	7.30	7.32	7,069.2	124.5	-306.3	0.66	-0.65	-0.84	53.8	13.2
7,280.0	6.86	5.91	7,163.5	136.1	-305.0	0.50	-0.46	-1.48	41.7	14.3
7,375.0	6.86	3.63	7,257.8	147.4	-304.0	0.29	0.00	-2.40	29.8	15.8
7,469.0	4.04	3.01	7,351.3	156.3	-303.5	3.00	-3.00	-0.66	20.7	16.0
7,564.0	3.87	2.14	7,446.1	162.9	-303.2	0.19	-0.18	-0.92	13.9	16.2
7,659.0	2.64	1.26	7,541.0	168.3	-303.0	1.30	-1.29	-0.93	8.3	16.4
7,848.0	1.67	5.83	7,729.8	175.4	-302.7	0.52	-0.51	2.42	2.5	16.0
8,038.0	1.41	3.54	7,919.8	180.4	-302.2	0.14	-0.14	-1.21	-3.3	16.0
8,227.0	1.23	3.81	8,108.7	184.8	-301.9	0.10	-0.10	0.14	-7.5	16.0
8,417.0	1.06	342.27	8,298.7	188.5	-302.3	0.24	-0.09	-11.34	-16.5	11.4
8,606.0	0.70	343.06	8,487.6	191.3	-303.2	0.19	-0.19	0.42	-19.3	11.6
8,796.0	0.70	325.13	8,677.6	193.3	-304.2	0.11	0.00	-9.44	-24.2	4.7

EOG Resources

PVA Report

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Site: Nectarine 13 State Com
Well: #501H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #501H
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North Reference: Grid
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8,987.0	0.53	298.94	8,868.6	194.7	-305.7	0.17	-0.09	-13.71	-25.7	-6.9	
9,176.0	0.79	229.07	9,057.6	194.3	-307.4	0.42	0.14	-36.97	-3.9	-27.4	
9,365.0	1.23	209.65	9,246.6	191.7	-309.4	0.29	0.23	-10.28	2.1	-27.6	
9,554.0	1.23	210.00	9,435.5	188.1	-311.4	0.00	0.00	0.19	-2.1	-27.6	
9,743.0	2.02	208.59	9,624.5	183.5	-314.0	0.42	0.42	-0.75	-6.8	-27.6	
9,933.0	1.67	186.09	9,814.4	177.8	-315.9	0.42	-0.18	-11.84	-1.5	-29.4	
10,122.0	1.32	179.76	10,003.3	172.9	-316.2	0.20	-0.19	-3.35	-3.2	-29.7	
10,311.0	1.41	189.52	10,192.2	168.4	-316.6	0.13	0.05	5.16	-12.7	-28.4	
10,401.0	1.14	187.76	10,282.2	166.4	-316.9	0.30	-0.30	-1.96	-13.8	-28.8	
10,431.0	0.88	180.90	10,312.2	165.9	-316.9	0.95	-0.87	-22.87	-10.8	-30.3	
10,478.0	4.22	181.52	10,359.2	163.8	-317.0	7.11	7.11	1.32	-13.2	-30.2	
10,526.0	9.85	180.99	10,406.8	157.9	-317.1	11.73	11.73	-1.10	-17.8	-30.4	
10,573.0	14.60	175.02	10,452.7	148.0	-316.6	10.45	10.11	-12.70	-20.0	-32.1	
10,620.0	19.70	173.08	10,497.6	134.2	-315.2	10.92	10.85	-4.13	-24.4	-31.9	
10,667.0	25.32	179.50	10,541.0	116.3	-314.1	13.03	11.96	13.66	-33.4	-28.3	
10,715.0	28.40	180.64	10,583.8	94.6	-314.2	6.51	6.42	2.37	-39.3	-27.7	
10,762.0	34.47	180.29	10,623.9	70.1	-314.4	12.92	12.91	-0.74	-44.0	-28.4	
10,810.0	38.78	177.04	10,662.4	41.5	-313.7	9.84	8.98	-6.77	-47.6	-30.1	
10,857.0	44.76	174.14	10,697.5	10.3	-311.2	13.37	12.72	-6.17	-51.5	-30.0	
10,904.0	47.92	173.70	10,729.9	-23.5	-307.6	6.76	6.72	-0.94	-56.0	-26.9	
10,951.0	55.13	174.14	10,759.1	-60.1	-303.7	15.36	15.34	0.94	-60.8	-23.0	
10,999.0	59.00	175.90	10,785.2	-100.2	-300.2	8.63	8.06	3.67	-66.1	-18.5	
11,047.0	66.30	178.09	10,807.3	-142.7	-298.0	15.74	15.21	4.56	-71.4	-15.1	
11,094.0	72.37	179.50	10,823.8	-186.7	-297.1	13.22	12.91	3.00	-77.4	-13.7	
11,141.0	74.48	179.94	10,837.3	-231.7	-296.9	4.58	4.49	0.94	-82.2	-13.5	
11,188.0	75.18	179.59	10,849.6	-277.1	-296.7	1.65	1.49	-0.74	-83.6	-13.9	
11,235.0	77.47	179.59	10,860.7	-322.8	-296.4	4.87	4.87	0.00	-81.8	-13.9	

EOG Resources

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Nectarine 13 State Com
Well: #501H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #501H
TVD Reference: KB = 25' @ 3803.0usft (H&P 653)
MD Reference: KB = 25' @ 3803.0usft (H&P 653)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
11,283.0	77.47	178.44	10,871.1	-369.6	-295.6	2.34	0.00	-2.40	-76.2	-13.8	
11,330.0	82.57	175.90	10,879.2	-415.8	-293.3	12.09	10.85	-5.40	-69.0	-11.7	
11,378.0	88.99	174.49	10,882.8	-463.5	-289.3	13.69	13.37	-2.94	-65.8	-8.0	
11,425.0	91.45	174.93	10,882.6	-510.3	-284.9	5.32	5.23	0.94	-66.3	-4.0	
11,493.0	91.36	174.31	10,880.9	-578.0	-278.6	0.92	-0.13	-0.91	-68.5	1.8	
11,588.0	90.92	176.86	10,879.0	-672.7	-271.3	2.72	-0.46	2.68	-71.0	8.3	
11,683.0	89.69	179.41	10,878.5	-767.6	-268.2	2.98	-1.29	2.68	-72.2	10.7	
11,778.0	89.16	180.11	10,879.5	-862.6	-267.8	0.92	-0.56	0.74	-71.9	10.3	
11,872.0	88.46	180.47	10,881.4	-956.6	-268.2	0.84	-0.74	0.38	-70.6	9.1	
11,967.0	88.20	180.64	10,884.2	-1,051.5	-269.2	0.33	-0.27	0.18	-68.5	7.4	
12,062.0	88.02	180.55	10,887.3	-1,146.5	-270.1	0.21	-0.19	-0.09	-66.1	5.6	
12,156.0	86.88	180.82	10,891.5	-1,240.4	-271.3	1.25	-1.21	0.29	-62.6	3.8	
12,251.0	89.78	180.03	10,894.3	-1,335.3	-272.0	3.16	3.05	-0.83	-60.5	2.3	
12,346.0	91.28	179.32	10,893.4	-1,430.3	-271.4	1.75	1.58	-0.75	-62.0	2.0	
12,440.0	91.98	178.97	10,890.7	-1,524.3	-270.0	0.83	0.74	-0.37	-65.4	2.7	
12,535.0	92.33	178.62	10,887.1	-1,619.2	-268.0	0.52	0.37	-0.37	-69.6	3.9	
12,630.0	90.48	179.59	10,884.8	-1,714.1	-266.6	2.20	-1.95	1.02	-72.6	4.6	
12,724.0	90.13	178.88	10,884.3	-1,808.1	-265.3	0.84	-0.37	-0.76	-73.8	5.1	
12,819.0	90.13	177.92	10,884.1	-1,903.1	-262.6	1.01	0.00	-1.01	-74.7	7.0	
12,914.0	91.19	180.29	10,883.0	-1,998.0	-261.2	2.73	1.12	2.49	-76.5	7.7	
13,008.0	93.30	180.55	10,879.3	-2,092.0	-261.9	2.26	2.24	0.28	-80.8	6.3	
13,103.0	91.36	180.29	10,875.5	-2,186.9	-262.5	2.06	-2.04	-0.27	-85.4	4.8	
13,198.0	88.46	179.41	10,875.6	-2,281.9	-262.3	3.19	-3.05	-0.93	-85.9	4.3	
13,293.0	87.76	177.83	10,878.7	-2,376.8	-260.0	1.82	-0.74	-1.66	-83.4	5.8	
13,387.0	90.13	177.83	10,880.5	-2,470.7	-256.5	2.52	2.52	0.00	-82.4	8.6	
13,482.0	91.10	176.95	10,879.5	-2,565.6	-252.1	1.38	1.02	-0.93	-84.2	12.1	
13,576.0	90.40	178.00	10,878.2	-2,659.5	-248.0	1.34	-0.74	1.12	-86.3	15.5	

EOG Resources

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Nectarine 13 State Corn
Well: #501H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #501H
TVD Reference: KB = 25' @ 3803.0usft (H&P 653)
MD Reference: KB = 25' @ 3803.0usft (H&P 653)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
13,671.0	89.69	180.47	10,878.1	-2,754.5	-246.7	2.71	-0.75	2.60	-87.2	16.0	
13,766.0	89.52	178.53	10,878.8	-2,849.5	-245.9	2.05	-0.18	-2.04	-87.5	16.1	
13,773.0	89.60	179.06	10,878.9	-2,856.5	-245.7	7.66	1.14	7.57	-87.5	16.2	
13,868.0	88.90	176.95	10,880.1	-2,951.4	-242.4	2.34	-0.74	-2.22	-87.1	18.7	
13,963.0	88.64	178.62	10,882.1	-3,046.3	-238.8	1.78	-0.27	1.76	-85.9	21.6	
14,058.0	90.31	180.20	10,883.0	-3,141.3	-237.8	2.42	1.76	1.66	-85.9	21.9	
14,152.0	90.92	178.71	10,882.0	-3,235.3	-236.9	1.71	0.65	-1.59	-87.8	22.0	
14,239.0	89.87	181.61	10,881.4	-3,322.2	-237.1	3.54	-1.21	3.33	-89.2	21.1	
14,333.0	88.99	182.40	10,882.3	-3,416.2	-240.4	1.26	-0.94	0.84	-89.1	17.0	
14,428.0	88.72	181.52	10,884.2	-3,511.1	-243.7	0.97	-0.28	-0.93	-88.1	13.0	
14,523.0	88.55	181.43	10,886.5	-3,606.1	-246.1	0.20	-0.18	-0.09	-86.7	9.8	
14,618.0	89.25	179.24	10,888.3	-3,701.0	-246.7	2.42	0.74	-2.31	-85.8	8.5	
14,712.0	88.55	178.18	10,890.1	-3,795.0	-244.6	1.35	-0.74	-1.13	-84.8	9.8	
14,807.0	89.96	178.88	10,891.4	-3,889.9	-242.1	1.66	1.48	0.74	-84.5	11.5	
14,902.0	90.04	178.27	10,891.4	-3,984.9	-239.8	0.65	0.08	-0.64	-85.4	13.1	
14,996.0	89.96	177.21	10,891.4	-4,078.8	-236.1	1.13	-0.09	-1.13	-86.2	16.0	
15,091.0	90.75	178.36	10,890.8	-4,173.8	-232.4	1.47	0.83	1.21	-87.7	19.0	
15,186.0	90.57	178.88	10,889.7	-4,268.7	-230.1	0.58	-0.19	0.55	-89.6	20.5	
15,281.0	89.78	180.20	10,889.4	-4,363.7	-229.3	1.62	-0.83	1.39	-90.8	20.5	
15,375.0	89.96	180.03	10,889.6	-4,457.7	-229.5	0.26	0.19	-0.18	-91.5	19.6	
15,470.0	89.69	179.15	10,889.9	-4,552.7	-228.8	0.97	-0.28	-0.93	-92.0	19.5	
15,565.0	89.16	180.82	10,890.8	-4,647.7	-228.8	1.84	-0.56	1.76	-92.0	18.7	
15,659.0	88.55	180.29	10,892.7	-4,741.7	-229.7	0.86	-0.65	-0.56	-90.9	17.1	
15,754.0	90.31	181.08	10,893.7	-4,836.7	-230.9	2.03	1.85	0.83	-90.9	15.2	
15,848.0	91.54	180.38	10,892.2	-4,930.6	-232.1	1.51	1.31	-0.74	-93.3	13.2	
15,943.0	92.07	179.94	10,889.2	-5,025.6	-232.3	0.72	0.56	-0.46	-97.0	12.2	
16,038.0	91.28	180.03	10,886.4	-5,120.6	-232.3	0.84	-0.83	0.09	-99.6	11.4	

EOG Resources

PVA Report

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Project: Lea County, NM (NAD 83 NME)
Site: Nectarine 13 State Com
Well: #501H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #501H
TVD Reference: KB = 25' @ 3803.0usft (H&P 653)
MD Reference: KB = 25' @ 3803.0usft (H&P 653)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
16,132.0	90.40	180.11	10,885.0	-5,214.5	-232.4	0.94	-0.94	0.09	-100.8	10.6	
16,227.0	90.75	179.67	10,884.1	-5,309.5	-232.2	0.59	0.37	-0.46	-101.6	10.0	
16,321.0	91.10	179.06	10,882.5	-5,403.5	-231.2	0.75	0.37	-0.65	-102.9	10.3	
16,416.0	89.96	180.20	10,881.7	-5,498.5	-230.6	1.70	-1.20	1.20	-103.6	10.1	
16,511.0	90.40	180.20	10,881.4	-5,593.5	-230.9	0.46	0.46	0.00	-103.8	9.0	
16,605.0	89.69	179.94	10,881.3	-5,687.5	-231.0	0.80	-0.76	-0.28	-103.7	8.1	
16,700.0	89.43	177.65	10,882.0	-5,782.5	-229.0	2.43	-0.27	-2.41	-102.8	9.4	
16,794.0	90.84	179.41	10,881.8	-5,876.4	-226.6	2.40	1.50	1.87	-102.8	11.0	
16,889.0	90.57	179.94	10,880.6	-5,971.4	-226.1	0.63	-0.28	0.56	-103.8	10.8	
16,983.0	88.90	177.65	10,881.1	-6,065.4	-224.1	3.02	-1.78	-2.44	-103.2	12.0	
17,078.0	90.57	181.61	10,881.5	-6,160.4	-223.5	4.52	1.76	4.17	-102.6	11.9	
17,172.0	91.36	181.17	10,879.9	-6,254.3	-225.8	0.96	0.84	-0.47	-104.0	8.8	
17,267.0	88.20	182.31	10,880.3	-6,349.3	-228.6	3.54	-3.33	1.20	-103.5	5.2	
17,361.0	86.97	181.34	10,884.2	-6,443.1	-231.6	1.67	-1.31	-1.03	-99.4	1.4	
17,455.0	89.96	179.85	10,886.8	-6,537.1	-232.6	3.55	3.18	-1.59	-96.7	-0.3	
17,550.0	90.48	179.85	10,886.4	-6,632.1	-232.4	0.55	0.55	0.00	-96.9	-0.8	
17,645.0	90.13	178.53	10,885.9	-6,727.1	-231.0	1.44	-0.37	-1.39	-97.2	-0.2	
17,740.0	90.40	178.88	10,885.4	-6,822.0	-228.9	0.47	0.28	0.37	-97.5	1.1	
17,834.0	90.40	179.06	10,884.8	-6,916.0	-227.2	0.19	0.00	0.19	-98.0	2.1	
17,929.0	91.71	182.22	10,883.0	-7,011.0	-228.2	3.60	1.38	3.33	-99.6	0.2	
18,024.0	89.08	181.96	10,882.4	-7,105.9	-231.7	2.78	-2.77	-0.27	-100.1	-4.0	
18,118.0	89.16	181.17	10,883.8	-7,199.9	-234.3	0.84	0.09	-0.84	-98.4	-7.3	
18,208.0	89.08	180.47	10,885.2	-7,289.9	-235.6	0.78	-0.09	-0.78	-96.9	-9.3	
18,265.0	89.08	180.47	10,886.1	-7,346.8	-236.0	0.00	0.00	0.00	-95.9	-10.3	

EOG Resources

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Nectarine 13 State Com
Well: #501H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #501H
TVD Reference: KB = 25' @ 3803.0usft (H&P 653)
MD Reference: KB = 25' @ 3803.0usft (H&P 653)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,002.3	10,786.9	-103.0	-300.0	HL Crossing, MD:11002.3', TVD:10786.9', N/S:-103.0', E/W:-300.0', INC:59.50
18,208.0	10,885.2	-7,289.9	-235.6	Final MWD Survey (MD= 18208.0')
18,265.0	10,886.1	-7,346.8	-236.0	Final Projection to Bit (MD=18265.0')

Checked By: _____ Approved By: _____ Date: _____