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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Yarrow 32 State

#204H

OH

Design: OH

Final PVA Report

11 September, 2019



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #204H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3697.0usft
Site:	Yarrow 32 State	MD Reference:	KB = 25 @ 3697.0usft
Well:	#204H	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	Yarrow 32 State		
Site Position:		Northing:	457,304.00 usft
From:	Map	Easting:	771,882.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 15' 18.011 N
		Longitude:	103° 35' 15.414 W
		Grid Convergence:	0.40 °

Well	#204H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 15' 18.639 N
		Longitude:	103° 35' 27.886 W
		Ground Level:	3,672.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	7/25/2019	6.74
			Dip Angle
			(°)
			60.06
			Field Strength
			(nT)
			47,738.34503632

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
			(°)
			351.52

Survey Program	Date 9/11/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		Description
189.0	14,481.0	QES MWD #1 (OH)	MWD
			OWSG MWD - Standard



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 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #204H
 TVD Reference: KB = 25 @ 3697.0usft
 MD Reference: KB = 25 @ 3697.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
189.0	0.62	331.75	189.0	0.9	-0.5	0.33	0.33	0.00	-1.0	0.0
328.0	0.70	336.32	328.0	2.3	-1.2	0.07	0.06	3.29	-2.6	0.1
513.0	0.26	6.02	513.0	3.8	-1.6	0.27	-0.24	16.05	-3.6	2.0
698.0	0.18	200.79	698.0	3.9	-1.6	0.24	-0.04	-89.31	3.1	-2.9
889.0	0.18	253.17	889.0	3.6	-2.0	0.08	0.00	27.42	-0.9	-4.0
1,081.0	0.62	277.61	1,081.0	3.6	-3.4	0.24	0.23	12.73	-3.8	-3.1
1,273.0	0.53	274.44	1,273.0	3.8	-5.3	0.05	-0.05	-1.65	-5.6	-3.4
1,334.0	0.44	303.45	1,334.0	4.0	-5.8	0.42	-0.15	47.56	-7.0	-0.1
1,447.0	0.53	315.05	1,447.0	4.6	-6.5	0.12	0.08	10.27	-7.8	1.3
1,636.0	4.40	261.08	1,635.8	4.1	-14.3	2.17	2.05	-28.56	-10.3	-6.6
1,826.0	6.95	255.28	1,824.8	0.0	-32.6	1.37	1.34	-3.05	-13.0	-8.7
2,015.0	6.86	256.34	2,012.4	-5.5	-54.6	0.08	-0.05	0.56	-12.9	-8.2
2,204.0	6.60	258.45	2,200.1	-10.4	-78.2	0.19	-0.14	1.12	-12.4	-10.1
2,394.0	6.33	258.27	2,388.9	-14.7	-97.2	0.14	-0.14	-0.09	-10.7	-11.9
2,582.0	7.30	251.59	2,575.8	-20.6	-118.7	0.67	0.52	-3.55	-8.6	-13.3
2,771.0	6.95	250.89	2,763.1	-28.1	-140.9	0.19	-0.19	-0.37	-8.9	-12.3
2,963.0	6.24	251.41	2,953.9	-35.2	-161.7	0.37	-0.37	0.27	-7.6	-11.1
3,152.0	7.39	254.93	3,141.5	-41.7	-183.2	0.65	0.61	1.66	-7.7	-10.3
3,340.0	6.68	255.99	3,328.1	-47.5	-205.5	0.38	-0.38	0.56	-8.0	-10.7
3,529.0	5.80	257.22	3,516.0	-52.2	-225.5	0.47	-0.47	0.65	-5.7	-11.6
3,717.0	6.42	249.83	3,702.9	-58.0	-244.6	0.53	0.33	-3.93	-1.3	-11.8
3,906.0	5.19	243.33	3,891.0	-65.4	-262.2	0.74	-0.65	-3.44	3.7	-8.8
4,094.0	5.45	237.53	4,078.1	-74.1	-277.3	0.32	0.14	-3.09	9.2	-2.8
4,283.0	5.89	232.61	4,266.2	-84.8	-292.6	0.35	0.23	-2.60	12.2	5.7
4,471.0	6.60	222.41	4,453.1	-98.6	-307.5	0.70	0.38	-5.43	11.0	15.5
4,659.0	5.45	222.94	4,640.1	-113.1	-320.9	0.61	-0.61	0.28	14.2	16.5



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Well:	#204H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)		
4,848.0	5.28	213.45	4,828.2	-128.9	-331.8	0.48	-0.09	-5.02	16.4	21.3		
5,037.0	8.16	228.39	5,016.3	-140.9	-344.2	0.91	0.47	7.90	25.8	16.8		
5,162.0	5.19	231.90	5,140.7	-148.9	-353.6	0.82	-0.78	2.81	29.5	13.5		
5,318.0	4.40	236.12	5,296.2	-156.6	-364.1	0.55	-0.51	2.71	36.0	7.8		
5,507.0	7.47	231.02	5,484.1	-166.3	-379.7	1.65	1.62	-2.70	38.5	7.5		
5,698.0	7.65	230.67	5,671.5	-184.0	-399.0	0.10	0.10	-0.19	38.4	4.9		
5,886.0	8.27	231.02	5,859.6	-200.6	-418.4	0.33	0.33	0.18	33.1	1.9		
6,075.0	8.00	229.97	6,046.7	-217.7	-440.0	0.16	-0.14	-0.56	29.2	-0.1		
6,264.0	8.00	230.85	6,233.9	-234.4	-460.3	0.06	0.00	0.47	25.7	-3.2		
6,453.0	8.09	232.08	6,421.0	-250.9	-481.0	0.10	0.05	0.65	21.9	-6.7		
6,642.0	8.53	233.13	6,608.1	-267.5	-502.7	0.25	0.23	0.56	17.2	-10.5		
6,830.0	8.53	233.84	6,794.0	-284.1	-525.1	0.06	0.00	0.38	11.7	-14.5		
7,019.0	6.86	221.71	6,981.3	-300.8	-543.9	1.23	-0.88	-6.42	12.4	-13.8		
7,207.0	2.90	238.41	7,168.6	-311.6	-555.5	2.22	-2.11	8.88	9.6	-18.0		
7,395.0	0.79	206.59	7,356.5	-315.3	-560.1	1.21	-1.12	-16.93	17.6	-11.2		
7,584.0	0.26	312.59	7,545.5	-316.2	-561.0	0.47	-0.28	56.08	-15.6	-12.6		
7,772.0	0.35	3.21	7,733.5	-315.3	-561.3	0.15	0.05	26.93	-20.5	4.4		
7,961.0	0.18	73.17	7,922.5	-314.6	-561.0	0.18	-0.09	37.02	-3.3	21.3		
8,149.0	0.53	120.46	8,110.5	-315.0	-559.9	0.23	0.19	25.15	12.3	17.1		
8,338.0	0.88	150.16	8,299.4	-316.7	-558.5	0.26	0.19	15.71	17.0	9.2		
8,526.0	1.32	160.71	8,487.4	-320.0	-557.0	0.26	0.23	5.61	14.8	6.2		
8,715.0	1.14	164.05	8,676.4	-323.9	-555.8	0.10	-0.10	1.77	11.1	5.5		
8,903.0	1.58	182.68	8,864.3	-328.3	-555.4	0.33	0.23	9.91	7.9	2.2		
8,997.0	1.49	177.06	8,958.3	-330.8	-555.4	0.19	-0.10	-5.98	5.1	2.9		
9,098.0	3.34	318.91	9,059.2	-329.9	-557.3	4.56	1.83	140.45	-4.1	-4.6		
9,115.2	5.97	322.88	9,076.4	-328.8	-558.1	15.40	15.29	23.09	-5.8	-4.3		

KOP (Yarrow 32 State #204H)



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Site: Yarrow 32 State
Well: #204H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #204H
TVD Reference: KB = 25 @ 3697.0usft
MD Reference: KB = 25 @ 3697.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
9,145.0	10.55	325.07	9,105.9	-325.3	-560.8	15.40	15.37	7.34	-9.6	-3.7
9,192.0	14.95	346.16	9,151.7	-315.9	-584.8	13.48	9.36	44.87	-16.1	1.9
9,239.0	17.15	339.13	9,198.9	-303.5	-568.5	6.24	4.68	-14.96	-21.2	0.9
9,380.0	28.58	340.71	9,326.6	-252.1	-587.1	8.12	8.11	1.12	-29.1	10.4
9,427.0	33.85	343.70	9,366.8	-228.9	-594.5	11.68	11.21	6.36	-29.9	15.2
9,475.0	36.78	346.27	9,405.9	-202.0	-601.2	8.18	8.06	9.52	-29.3	19.4
9,563.1	45.65	354.93	9,472.2	-144.6	-609.3	11.23	10.08	7.56	-26.7	20.2
FTP (Yarrow 32 State #204H)										
9,569.0	46.25	355.30	9,476.3	-140.4	-609.7	11.23	10.29	6.28	-26.5	20.0
9,663.0	58.39	358.64	9,533.7	-68.3	-613.4	13.21	12.91	3.55	-27.1	11.8
9,757.0	61.64	355.65	9,580.6	15.0	-617.5	4.42	3.46	-3.18	-24.6	1.2
9,851.0	71.05	349.50	9,618.3	100.2	-628.8	11.66	10.01	-6.54	-16.1	-2.9
9,898.0	76.77	347.74	9,631.4	144.5	-637.7	12.69	12.17	-3.74	-12.1	-1.5
9,982.0	85.21	345.99	9,646.1	234.8	-658.8	9.16	8.98	-1.86	-4.0	4.4
10,133.0	87.41	347.92	9,655.1	371.8	-690.5	2.07	1.56	1.37	6.0	20.0
10,322.0	91.71	354.42	9,656.6	558.5	-719.5	4.12	2.28	3.44	9.0	44.9
10,368.0	91.63	356.00	9,655.3	604.3	-723.4	3.44	-0.17	3.43	8.0	48.4
10,416.0	91.54	0.05	9,653.9	652.2	-725.0	8.44	-0.19	8.44	6.9	49.8
10,462.0	90.22	0.75	9,653.2	698.2	-724.7	3.25	-2.87	1.52	6.5	49.1
10,510.0	90.66	0.93	9,652.9	746.2	-724.0	0.99	0.92	0.37	6.5	48.1
10,605.0	92.42	3.74	9,650.3	841.1	-720.1	3.49	1.85	2.98	4.5	43.8
10,700.0	89.43	3.04	9,646.8	935.9	-714.5	3.23	-3.15	-0.74	3.8	37.3
10,794.0	88.72	1.81	9,650.3	1,029.8	-710.5	1.51	-0.76	-1.31	6.0	32.7
10,888.0	91.54	2.33	9,650.1	1,123.7	-707.1	3.05	3.00	0.55	6.4	28.7
10,983.0	92.42	2.16	9,646.8	1,218.6	-703.4	0.94	0.93	-0.18	3.8	24.3
11,077.0	90.04	2.68	9,644.8	1,312.5	-699.5	2.59	-2.53	0.55	2.5	19.7
11,171.0	89.16	2.16	9,645.4	1,406.4	-695.5	1.09	-0.94	-0.55	3.8	15.1



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11,266.0	91.38	3.21	9,645.0	1,501.3	-691.0	2.57	2.32	1.11	4.0	10.0		
11,360.0	93.39	3.39	9,641.1	1,595.0	-685.6	2.17	2.16	0.19	0.8	4.0		
11,402.4	93.43	2.75	9,638.6	1,637.3	-683.4	1.50	0.09	-1.50	-1.4	1.4		
TGT 1 (Yarrow 32 State #204H)												
11,454.0	93.47	1.98	9,635.5	1,688.8	-681.2	1.50	0.08	-1.50	-3.8	-1.1		
11,548.0	89.16	2.68	9,633.3	1,782.6	-677.4	4.65	-4.59	0.74	-4.6	-5.5		
11,642.0	89.52	2.68	9,634.4	1,876.5	-673.0	0.38	0.38	0.00	-2.0	-10.6		
11,737.0	88.64	1.63	9,635.9	1,971.4	-669.5	1.44	-0.93	-1.11	0.9	-14.8		
11,831.0	88.90	1.63	9,637.9	2,065.4	-666.8	0.28	0.28	0.00	4.4	-18.1		
11,925.0	89.43	359.34	9,639.3	2,159.4	-666.0	2.50	0.56	-2.44	7.2	-19.6		
12,019.0	89.78	359.52	9,640.0	2,253.4	-666.9	0.42	0.37	0.19	9.3	-19.3		
12,064.7	89.74	359.35	9,640.2	2,299.1	-667.4	0.38	-0.10	-0.37	10.2	-19.1		
TGT 2 (Yarrow 32 State #204H)												
12,113.0	89.69	359.17	9,640.4	2,347.3	-668.0	0.38	-0.10	-0.37	11.1	-18.8		
12,208.0	89.78	359.52	9,640.8	2,442.3	-669.1	0.38	0.09	0.37	13.0	-18.4		
12,302.0	88.87	359.52	9,641.1	2,536.3	-669.9	0.10	0.10	0.00	14.7	-18.2		
12,396.0	90.40	359.34	9,640.9	2,630.3	-670.8	0.60	0.56	-0.19	15.9	-18.0		
12,490.0	90.48	359.70	9,640.2	2,724.3	-671.6	0.39	0.09	0.38	16.6	-17.8		
12,583.0	90.84	359.70	9,639.1	2,817.3	-672.1	0.39	0.39	0.00	16.9	-18.0		
12,677.0	93.83	357.76	9,635.3	2,911.2	-674.2	3.79	3.18	-2.06	14.5	-16.5		
12,729.9	94.03	357.76	9,631.7	2,983.9	-676.2	0.37	0.37	0.00	11.6	-14.8		
TGT 3 (Yarrow 32 State #204H)												
12,771.0	94.18	357.76	9,628.7	3,004.9	-677.8	0.37	0.37	0.00	9.2	-13.5		
12,866.0	94.00	357.59	9,621.9	3,099.6	-681.7	0.26	-0.18	-0.18	3.5	-10.3		
12,960.0	91.71	358.47	9,617.3	3,193.4	-684.9	2.61	-2.44	0.94	0.0	-7.7		
13,054.0	90.57	358.29	9,615.4	3,287.3	-687.5	1.23	-1.21	-0.19	-0.8	-5.7		
13,148.0	91.01	358.29	9,614.1	3,381.3	-690.4	0.47	0.47	0.00	-1.0	-3.5		



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13,243.0	91.28	357.41	9,612.2	3,476.2	-693.9	0.97	0.28	-0.93	-1.8	-0.6
13,337.0	92.07	357.41	9,609.4	3,570.1	-698.2	0.84	0.84	0.00	-3.5	3.0
13,431.0	90.92	357.06	9,607.0	3,663.9	-702.7	1.28	-1.22	-0.37	-4.8	6.9
13,525.0	91.01	359.52	9,605.4	3,757.9	-705.5	2.62	0.10	2.62	-5.3	9.0
13,588.9	91.31	358.81	9,604.1	3,821.7	-706.4	1.20	0.46	-1.11	-5.9	9.5
TGT 4 (Yarrow 32 State #204H)										
13,620.0	91.45	358.47	9,603.4	3,852.8	-707.2	1.20	0.46	-1.11	-6.3	10.1
13,713.0	90.92	359.52	9,601.4	3,945.8	-708.8	1.28	-0.57	1.13	-7.2	11.0
13,807.0	88.37	0.22	9,602.0	4,039.8	-709.0	2.81	-2.71	0.74	-5.5	10.6
13,901.0	87.58	359.87	9,605.4	4,133.7	-708.9	0.92	-0.84	-0.37	-1.1	9.9
13,996.0	87.67	359.52	9,609.3	4,228.6	-709.4	0.38	0.09	-0.37	3.8	9.8
14,090.0	88.11	359.34	9,612.8	4,322.6	-710.4	0.51	0.47	-0.19	8.4	10.1
14,184.0	89.87	0.57	9,614.4	4,416.5	-710.4	2.28	1.87	1.31	11.1	9.5
14,279.0	91.01	0.93	9,613.7	4,511.5	-709.2	1.28	1.20	0.38	11.4	7.8
14,373.0	91.80	1.45	9,611.4	4,605.5	-707.3	1.01	0.84	0.55	10.2	5.0
14,424.0	91.63	0.75	9,609.8	4,656.5	-706.3	1.41	-0.33	-1.37	9.2	3.7
Final MWD Survey (MD=14424.0')										
14,481.0	91.63	0.75	9,608.2	4,713.4	-705.5	0.00	0.00	0.00	8.2	2.5
Final Projection to Bit (MD=14481.0') - PBHL (Yarrow 32 State #204H)										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
14,424.0	9,609.8	4,656.5	-708.3	Final MWD Survey (MD=14424.0')
14,481.0	9,608.2	4,713.4	-705.5	Final Projection to Bit (MD=14481.0')

I certify this survey to be true and correct to the best of my belief and knowledge.

Kay Maddox 01/08/2020
Signed Date



HOBBS OCD

JAN 09 2020

RECEIVED

Lea County, NM (NAD 83 NME)

Yarrow 32 State #204H

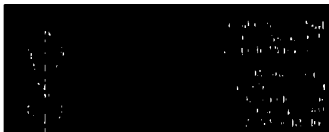
Plan #1

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: #204H

KB = 25 @ 3697.0mft
Northing 457350.00 Easting 770782.00
Latitude 32° 15' 18.639 N Longitude 103° 35' 27.588 W



To convert a Magnetic Direction to a Grid Direction, Add 8.34°
To convert a Magnetic Direction to a True Direction, Add 8.74° East
To convert a True Direction to a Grid Direction, Subtract 9.40°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	1850.0	7.00	254.00	1849.1	-5.9	-20.5	2.00	254.00	-2.8	
4	4350.0	7.00	254.00	4330.6	-89.9	-313.4	0.00	0.00	-42.7	
5	4631.3	7.00	223.91	4510.8	-100.9	-331.7	2.00	-105.00	-50.8	
6	7035.5	7.00	223.91	6996.1	-320.8	-643.2	0.00	0.00	-237.0	
7	7385.3	0.00	359.61	7345.0	-338.0	-558.0	2.00	180.00	-250.0	
8	9117.4	0.00	359.61	9077.1	-338.0	-558.0	0.00	0.00	-250.0	KOP (Yarrow 32 State #204H)
9	10021.5	80.41	350.42	9650.0	233.0	-654.0	10.00	350.42	328.9	
10	10251.3	80.41	359.61	9648.4	481.7	-674.0	4.00	89.97	559.0	
11	11427.0	80.41	359.61	9640.0	1637.3	-682.0	0.00	0.00	1720.0	TGT 1 (Yarrow 32 State #204H)
12	11450.2	90.87	359.61	9639.7	1660.5	-682.1	2.00	-0.29	1743.0	
13	12088.7	90.87	359.61	9630.0	2298.9	-686.5	0.00	0.00	2375.0	TGT 2 (Yarrow 32 State #204H)
14	12089.2	90.88	359.61	9630.0	2299.4	-686.5	2.00	179.78	2375.5	
15	12762.4	90.88	359.61	9620.0	2962.5	-691.0	0.00	0.00	3032.0	TGT 3 (Yarrow 32 State #204H)
16	12762.3	90.67	359.61	9619.9	2972.4	-691.1	2.00	-180.00	3041.8	
17	13611.9	90.67	359.61	9610.0	3822.0	-696.9	0.00	0.00	3883.0	TGT 4 (Yarrow 32 State #204H)
18	13613.1	90.64	359.61	9610.0	3823.2	-696.9	2.00	180.00	3884.1	
19	14504.0	90.64	359.61	9500.0	4714.0	-703.0	0.00	0.00	4785.1	PBHL (Yarrow 32 State #204H)

WELLSBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Yarrow 32 State #204H)	9077.1	338.0	-558.0	457350.00	770782.00
TGT 1 (Yarrow 32 State #204H)	9640.0	1637.3	-682.0	452997.30	770100.03
TGT 2 (Yarrow 32 State #204H)	9630.0	2298.9	-686.5	452958.90	770086.61
TGT 3 (Yarrow 32 State #204H)	9620.0	2962.5	-691.0	452922.50	770090.97
TGT 4 (Yarrow 32 State #204H)	9610.0	3822.0	-696.9	451182.00	770083.10
PBHL (Yarrow 32 State #204H)	9500.0	4714.0	-703.0	452074.00	770076.00
FTP (Yarrow 32 State #204H)	8500.0	-358.0	-458.0	457004.00	770114.00

