



Lea County, NM (NAD 83 NME)

Bridge State Unit #301H

HP 651

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: #301H

KB = 25' @ 3610.0usft (HP 651) 3585.0
Northing 499889.00 Easting 830851.00 Latitude 32° 22' 14.799 N Longitude 103° 23' 44.187 W



To convert a Magnetic Direction to a Grid Direction, Add 6.36°
To convert a Magnetic Direction to a True Direction, Add 6.86° East
To convert a True Direction to a Grid Direction, Subtract 0.50°

SECTION DETAILS

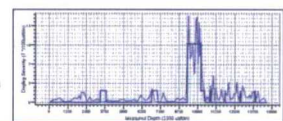
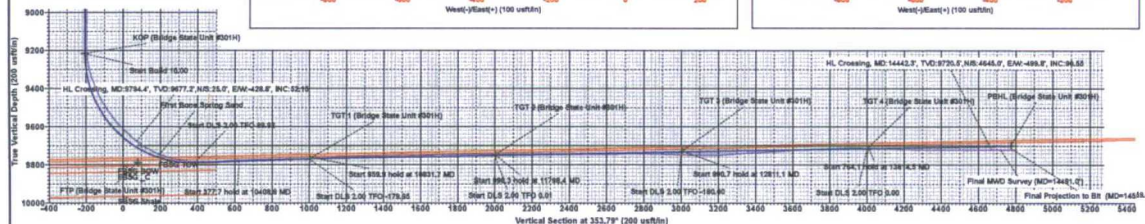
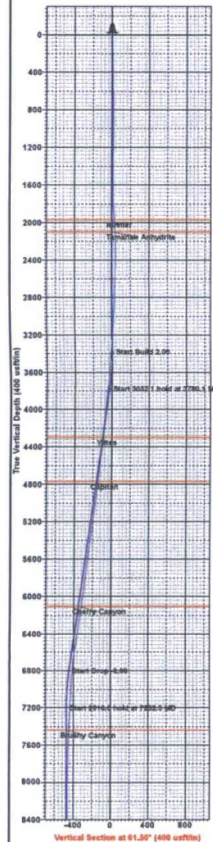
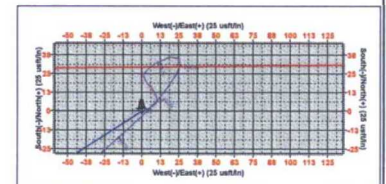
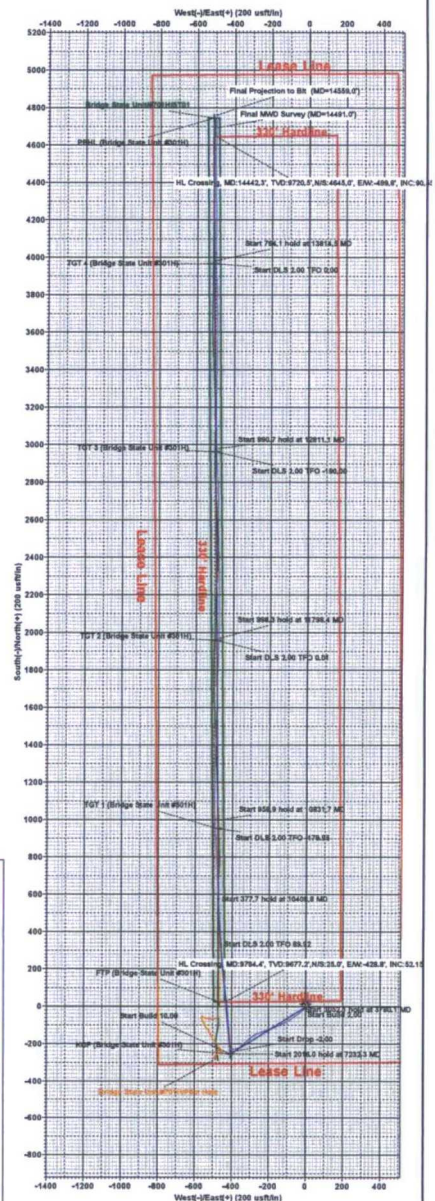
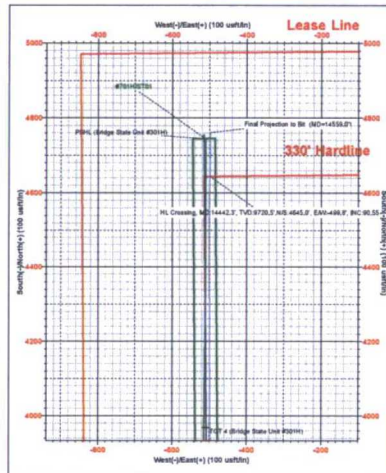
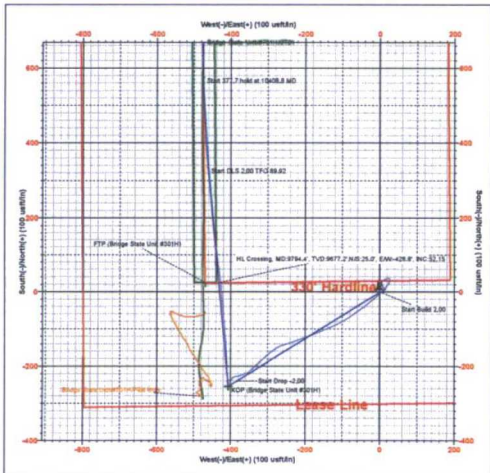
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0	0.0	
2	3380.0	0.00	0.00	3380.0	0.0	0.0	0.00	0.0	0.0	
3	3780.1	8.00	238.09	3778.8	-14.7	-23.7	2.00	238.09	-12.1	
4	6832.2	8.00	238.09	6801.2	-239.3	-384.3	0.00	0.00	-196.4	
5	7232.3	0.00	0.00	7200.0	-254.1	-408.0	2.00	180.00	-208.5	
6	9248.3	0.00	0.00	9216.0	-254.1	-408.0	0.00	0.00	-208.5	
7	10167.4	91.91	354.62	9788.6	335.4	-463.5	10.00	354.62	383.5	KOP (Bridge State Unit #301H)
8	10408.8	91.91	359.45	9780.6	576.2	-476.0	2.00	89.92	624.3	TGT 1 (Bridge State Unit #301H)
9	10786.5	91.91	359.45	9768.0	953.7	-479.6	0.00	0.00	1000.0	TGT 2 (Bridge State Unit #301H)
10	10831.7	91.01	359.45	9766.8	998.9	-480.0	2.00	-179.95	1044.9	TGT 3 (Bridge State Unit #301H)
11	11791.6	91.01	359.45	9750.0	1958.6	-489.3	0.00	0.00	2000.0	TGT 4 (Bridge State Unit #301H)
12	11798.4	91.14	359.45	9749.9	1965.3	-489.3	2.00	0.01	2006.7	PBHL (Bridge State Unit #301H)
13	12796.7	91.14	359.45	9730.0	2963.4	-498.9	0.00	0.00	3000.0	
14	12811.1	90.85	359.45	9729.7	2977.8	-499.0	2.00	-180.00	3014.3	
15	13801.7	90.85	359.45	9715.0	3968.3	-508.5	0.00	0.00	4000.0	
16	13814.5	91.11	359.45	9714.8	3981.1	-508.7	2.00	0.00	4012.7	
17	14578.6	91.11	359.45	9700.0	4745.0	-516.0	0.00	0.00	4773.0	

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP (Bridge State Unit #301H)	9216.0	-254.1	-408.0	499634.91	830443.00
PBHL (Bridge State Unit #301H)	9700.0	4745.0	-516.0	504634.00	830335.00
TGT 4 (Bridge State Unit #301H)	9715.0	3968.3	-508.5	503857.30	830342.46
TGT 3 (Bridge State Unit #301H)	9730.0	2963.4	-498.9	502852.40	830352.10
TGT 2 (Bridge State Unit #301H)	9750.0	1958.6	-489.3	501847.60	830361.75
TGT 1 (Bridge State Unit #301H)	9768.0	953.7	-479.6	500942.70	830371.39
FTP (Bridge State Unit #301H)	9789.0	25.0	-471.0	499914.00	830380.00



Lea County, NM (NAD 83 NME)
Bridge State Unit #301H
HP 651
Plan #1
11/07/2017



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Bridge State Unit

#301H

OH

Design: OH

PVA Report

25 September, 2017

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #301H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3610.0usft (HP 651)
Site:	Bridge State Unit	MD Reference:	KB = 25' @ 3610.0usft (HP 651)
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	Bridge State Unit		
Site Position:		Northing:	499,889.00 usft
From:	Map	Easting:	830,851.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 22' 14.799 N
		Longitude:	103° 23' 44.187 W
		Grid Convergence:	0.50 °

Well		#301H				
Well Position	+N/-S	0.0 usft	Northing:	499,889.00 usft	Latitude:	32° 22' 14.799 N
	+E/-W	0.0 usft	Easting:	830,851.00 usft	Longitude:	103° 23' 44.187 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,585.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/16/2017	6.86	60.22	48,025.71965445

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)	Direction (°)
	0.0	0.0	0.0	353.79

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #301H
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Site:	Bridge State Unit	MD Reference:	KB = 25' @ 3610.0usft (HP 651)
Well:	#301H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program		Date 9/25/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
194.0	1,993.0	Gyro (OH)	CT_GYRO_MS	Continuous Gyro Multishot	
2,040.0	14,559.0	PRO MWD (OH)	MWD	MWD - Standard	

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
194.0	0.88	69.91	194.0	0.5	1.4	0.45	0.45	0.00	-1.5	0.0
434.0	2.02	59.48	433.9	3.3	6.8	0.49	0.47	-4.35	-7.5	-0.6
623.0	1.06	11.11	622.8	6.7	10.0	0.81	-0.51	-25.59	-8.5	-8.5
825.0	0.97	327.95	824.8	10.0	9.4	0.37	-0.04	-21.37	-3.5	-13.3
1,014.0	0.97	339.44	1,013.8	12.8	8.0	0.10	0.00	6.08	-9.2	-12.0
1,223.0	1.23	315.56	1,222.8	16.1	5.8	0.25	0.12	-11.43	-7.4	-15.4
1,411.0	1.76	315.91	1,410.7	19.6	2.4	0.28	0.28	0.19	-12.4	-15.4
1,615.0	1.23	18.84	1,614.6	23.9	0.9	0.80	-0.26	30.85	-23.0	6.8
1,822.0	2.20	45.56	1,821.5	28.8	4.5	0.60	0.47	12.91	-23.4	17.4
1,993.0	3.96	65.16	1,992.3	33.6	12.2	1.19	1.03	11.46	-25.1	25.4
2,040.0	4.10	68.10	2,039.2	34.9	15.2	0.53	0.30	6.26	-27.1	26.7
2,120.0	2.90	78.40	2,119.0	36.4	19.9	1.69	-1.50	12.87	-26.8	31.7
2,308.0	1.30	166.00	2,306.9	35.3	25.0	1.66	-0.85	46.60	28.2	32.8
2,496.0	1.40	180.20	2,494.9	30.9	25.5	0.19	0.05	7.55	31.0	25.4
2,685.0	2.80	214.80	2,683.8	24.8	22.9	0.97	0.74	18.31	33.4	4.7
2,873.0	3.20	212.30	2,871.5	16.6	17.5	0.22	0.21	-1.33	23.4	5.9
3,063.0	3.80	222.20	3,061.1	7.4	10.4	0.45	0.32	5.21	12.5	2.7
3,251.0	4.90	227.20	3,248.6	-2.6	0.3	0.62	0.59	2.66	-1.5	2.2
3,440.0	4.90	229.00	3,436.9	-13.4	-11.7	0.08	0.00	0.95	-17.0	2.6
3,629.0	4.80	228.70	3,625.2	-23.9	-23.7	0.05	-0.05	-0.16	-23.1	4.1

PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Bridge State Unit
 Well: #301H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #301H
 TVD Reference: KB = 25' @ 3610.0usft (HP 651)
 MD Reference: KB = 25' @ 3610.0usft (HP 651)
 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)
3,817.0	5.40	230.70	3,812.5	-34.7	-36.5	0.33	0.32	1.06	-17.7	8.0
4,005.0	5.80	235.50	3,999.6	-45.7	-51.1	0.33	0.21	2.55	-9.1	11.4
4,194.0	6.30	234.30	4,187.5	-57.2	-67.4	0.27	0.26	-0.63	-2.9	12.7
4,382.0	6.20	237.70	4,374.4	-68.6	-84.4	0.20	-0.05	1.81	3.6	13.6
4,571.0	5.80	239.80	4,562.4	-78.9	-101.3	0.24	-0.21	1.11	10.7	13.1
4,759.0	6.60	244.40	4,749.3	-88.3	-119.2	0.50	0.43	2.45	17.5	10.1
4,948.0	7.60	246.90	4,936.8	-97.9	-140.5	0.55	0.53	1.32	20.6	5.8
5,136.0	8.00	248.20	5,123.1	-107.6	-164.1	0.23	0.21	0.69	21.0	1.0
5,325.0	7.40	247.90	5,310.4	-117.1	-187.6	0.32	-0.32	-0.16	21.6	-3.5
5,513.0	7.90	251.00	5,496.7	-125.9	-211.0	0.34	0.27	1.65	21.9	-9.8
5,701.0	6.90	249.90	5,683.1	-134.0	-233.8	0.54	-0.53	-0.59	23.5	-15.0
5,876.0	7.20	252.30	5,856.8	-140.9	-254.2	0.24	0.17	1.37	25.0	-21.5
5,952.0	7.50	251.40	5,932.2	-143.9	-263.4	0.42	0.39	-1.18	25.9	-23.6
6,140.0	7.60	233.10	6,118.6	-155.3	-285.0	1.27	0.05	-9.73	34.0	-15.9
6,329.0	8.30	228.30	6,305.8	-171.9	-305.1	0.51	0.37	-2.54	35.0	-9.6
6,518.0	9.00	227.80	6,492.6	-190.9	-326.3	0.37	0.37	-0.26	32.6	-4.8
6,707.0	7.30	226.10	6,679.7	-209.1	-345.9	0.91	-0.90	-0.90	31.6	1.2
6,895.0	3.40	250.10	6,866.9	-219.3	-359.7	2.35	-2.07	12.77	37.9	-12.1
7,084.0	3.30	252.50	7,055.5	-222.9	-370.2	0.09	-0.05	1.27	41.9	-17.5
7,273.0	3.40	254.50	7,244.2	-226.0	-380.8	0.08	0.05	1.06	33.7	-19.8
7,461.0	3.40	260.30	7,431.9	-228.4	-391.7	0.18	0.00	3.08	20.4	-22.6
7,650.0	1.40	191.00	7,620.8	-231.7	-397.6	1.69	-1.06	-36.67	24.0	5.9
7,838.0	0.90	214.10	7,808.7	-235.1	-398.9	0.36	-0.27	12.29	20.8	-3.1
8,027.0	0.90	237.20	7,997.7	-237.2	-401.0	0.19	0.00	12.22	15.1	-10.4
8,215.0	0.90	267.70	8,185.7	-238.0	-403.7	0.25	0.00	16.22	5.0	-15.9
8,403.0	1.20	277.00	8,373.6	-237.8	-407.1	0.18	0.16	4.95	-1.1	-16.2
8,592.0	0.30	102.30	8,562.6	-237.7	-408.6	0.79	-0.48	-92.43	4.1	15.9

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #301H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3610.0usft (HP 651)
Site:	Bridge State Unit	MD Reference:	KB = 25' @ 3610.0usft (HP 651)
Well:	#301H	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)
8,780.0	0.60	269.60	8,750.6	-237.8	-409.1	0.48	0.16	88.99	-1.0	-16.3
8,969.0	1.50	185.60	8,939.6	-240.3	-410.3	0.82	0.48	-44.44	13.5	-3.7
9,158.0	0.70	184.80	9,128.6	-243.9	-410.7	0.42	-0.42	-0.42	9.9	-3.5
9,186.0	0.40	225.10	9,156.6	-244.1	-410.8	1.69	-1.07	143.93	5.1	-9.0
9,280.0	6.80	0.90	9,250.4	-238.8	-410.9	7.54	6.81	144.47	-14.2	3.0
9,327.0	13.70	1.90	9,296.6	-230.4	-410.7	14.69	14.68	2.13	-17.7	2.7
9,375.0	18.50	357.50	9,342.7	-217.1	-410.8	10.31	10.00	-9.17	-22.3	0.4
9,422.0	23.00	356.10	9,386.6	-200.5	-411.8	9.63	9.57	-2.98	-26.4	-0.6
9,469.0	26.40	358.20	9,429.3	-180.9	-412.7	7.47	7.23	4.47	-29.7	-0.5
9,516.0	30.10	357.10	9,470.7	-158.7	-413.6	7.95	7.87	-2.34	-31.9	-2.1
9,563.0	34.50	355.70	9,510.4	-133.6	-415.2	9.50	9.36	-2.98	-33.3	-3.6
9,610.0	39.00	355.30	9,548.1	-105.6	-417.5	9.59	9.57	-0.85	-34.2	-4.2
9,658.0	42.90	355.20	9,584.3	-74.3	-420.1	8.13	8.12	-0.21	-34.5	-4.6
9,705.0	45.80	354.70	9,617.9	-41.5	-423.0	6.21	6.17	-1.06	-33.4	-5.0
9,752.0	48.00	355.60	9,650.0	-7.3	-425.8	4.89	4.68	1.91	-30.4	-5.1
9,794.4	52.15	353.88	9,677.2	25.0	-428.8	10.27	9.78	-4.07	-26.4	-5.6
HL Crossing, MD:9794.4', TVD:9677.2', N/S:25.0', E/W:-428.8', INC:52.15										
9,799.0	52.60	353.70	9,680.1	28.6	-429.2	10.27	9.82	-3.81	-26.0	-5.6
9,847.0	59.00	351.40	9,707.0	68.0	-434.4	13.91	13.33	-4.79	-21.9	-4.5
9,894.0	65.70	352.70	9,728.8	109.2	-440.2	14.46	14.26	2.77	-19.4	-2.3
9,941.0	70.40	354.00	9,746.4	152.5	-445.2	10.32	10.00	2.77	-17.6	-1.1
9,988.0	73.40	355.10	9,761.0	196.9	-449.4	6.76	6.38	2.34	-14.9	-1.0
10,035.0	79.80	355.40	9,771.9	242.5	-453.2	13.63	13.62	0.64	-12.1	-1.5
10,082.0	83.50	355.30	9,778.7	288.8	-457.0	7.88	7.87	-0.21	-9.6	-2.1
10,122.0	86.80	354.90	9,782.1	328.5	-460.4	8.31	8.25	-1.00	-6.7	-2.5
10,153.0	89.90	355.60	9,783.0	359.4	-463.0	10.25	10.00	2.26	-4.9	-2.7
10,248.0	94.00	356.10	9,779.7	454.1	-469.8	4.35	4.32	0.53	-4.9	-2.4

PVA Report

Company: EOG Resources - Midland
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 Site: Bridge State Unit
 Well: #301H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #301H
 TVD Reference: KB = 25' @ 3610.0usft (HP 651)
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 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
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Survey											
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10,342.0	91.60	357.40	9,775.1	547.8	-475.1	2.90	-2.55	1.38	-6.4	-0.4	
10,436.0	91.30	357.30	9,772.8	641.7	-479.5	0.34	-0.32	-0.11	-5.6	2.9	
10,531.0	91.60	357.50	9,770.4	736.5	-483.8	0.38	0.32	0.21	-4.9	6.3	
10,625.0	91.20	356.60	9,768.1	830.4	-488.6	1.05	-0.43	-0.96	-4.0	10.2	
10,719.0	91.40	356.80	9,765.9	924.2	-494.0	0.30	0.21	0.21	-3.0	14.7	
10,813.0	92.90	359.00	9,762.4	1,018.1	-497.5	2.83	1.60	2.34	-4.1	17.3	
10,908.0	93.80	359.60	9,756.9	1,112.9	-498.6	1.14	0.95	0.63	-8.0	17.5	
11,002.0	89.80	1.00	9,753.9	1,206.8	-498.2	4.51	-4.26	1.49	-9.3	16.1	
11,096.0	89.50	1.10	9,754.5	1,300.8	-496.4	0.34	-0.32	0.11	-7.1	13.5	
11,190.0	91.50	2.10	9,753.7	1,394.8	-493.8	2.38	2.13	1.06	-6.3	10.0	
11,285.0	91.80	1.30	9,750.9	1,489.7	-491.0	0.90	0.32	-0.84	-7.3	6.2	
11,379.0	92.00	1.70	9,747.8	1,583.6	-488.5	0.48	0.21	0.43	-8.8	2.9	
11,473.0	91.50	1.10	9,744.9	1,677.5	-486.2	0.83	-0.53	-0.64	-10.0	-0.3	
11,567.0	89.40	1.30	9,744.2	1,771.5	-484.3	2.24	-2.23	0.21	-9.1	-3.2	
11,661.0	90.00	1.50	9,744.7	1,865.5	-482.0	0.67	0.64	0.21	-6.9	-6.4	
11,756.0	90.30	1.60	9,744.4	1,960.4	-479.4	0.33	0.32	0.11	-5.5	-9.9	
11,850.0	90.40	0.10	9,743.9	2,054.4	-478.0	1.60	0.11	-1.60	-4.2	-12.2	
11,944.0	91.50	0.50	9,742.3	2,148.4	-477.5	1.25	1.17	0.43	-3.9	-13.6	
12,038.0	88.90	358.70	9,742.0	2,242.4	-478.2	3.36	-2.77	-1.91	-2.4	-13.8	
12,133.0	89.20	359.00	9,743.6	2,337.4	-480.1	0.45	0.32	0.32	1.1	-12.8	
12,227.0	89.90	359.10	9,744.3	2,431.3	-481.6	0.75	0.74	0.11	3.7	-12.2	
12,321.0	90.50	359.30	9,744.0	2,525.3	-482.9	0.67	0.64	0.21	5.2	-11.7	
12,415.0	92.00	359.40	9,741.9	2,619.3	-484.0	1.60	1.60	0.11	5.1	-11.6	
12,509.0	90.60	359.40	9,739.8	2,713.3	-485.0	1.49	-1.49	0.00	4.8	-11.5	
12,604.0	87.80	357.70	9,741.1	2,808.2	-487.4	3.45	-2.95	-1.79	8.0	-10.0	
12,698.0	88.20	357.80	9,744.4	2,902.1	-491.1	0.44	0.43	0.11	13.2	-7.2	
12,792.0	89.20	358.60	9,746.5	2,996.0	-494.0	1.36	1.06	0.85	17.0	-5.2	

PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Bridge State Unit
 Well: #301H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #301H
 TVD Reference: KB = 25' @ 3610.0usft (HP 651)
 MD Reference: KB = 25' @ 3610.0usft (HP 651)
 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)
12,886.0	89.80	359.20	9,747.3	3,090.0	-495.8	0.90	0.64	0.64	19.3	-4.3
12,981.0	92.30	0.30	9,745.6	3,185.0	-496.3	2.87	2.63	1.16	18.9	-4.8
13,075.0	94.40	0.70	9,740.1	3,278.8	-495.4	2.27	2.23	0.43	14.8	-6.5
13,170.0	93.50	0.90	9,733.6	3,373.6	-494.1	0.97	-0.95	0.21	9.7	-8.7
13,264.0	92.80	0.30	9,728.4	3,467.4	-493.1	0.98	-0.74	-0.64	5.9	-10.6
13,358.0	93.60	0.60	9,723.2	3,561.3	-492.4	0.91	0.85	0.32	2.1	-12.2
13,452.0	93.20	359.40	9,717.6	3,655.1	-492.4	1.34	-0.43	-1.28	-2.1	-13.1
13,546.0	92.50	359.10	9,712.9	3,749.0	-493.6	0.81	-0.74	-0.32	-5.4	-12.8
13,641.0	90.90	358.60	9,710.1	3,843.9	-495.5	1.76	-1.68	-0.53	-6.8	-11.8
13,736.0	89.10	358.70	9,710.1	3,938.9	-497.8	1.90	-1.89	0.11	-5.3	-10.5
13,830.0	88.00	359.40	9,712.5	4,032.8	-499.3	1.39	-1.17	0.74	-1.3	-9.8
13,924.0	87.50	359.90	9,716.2	4,126.8	-499.9	0.75	-0.53	0.53	4.2	-10.2
14,019.0	89.40	359.70	9,718.7	4,221.7	-500.2	2.01	2.00	-0.21	8.6	-10.7
14,113.0	89.20	359.60	9,719.9	4,315.7	-500.8	0.24	-0.21	-0.11	11.6	-11.1
14,208.0	89.60	359.80	9,720.9	4,410.7	-501.3	0.47	0.42	0.21	14.4	-11.5
14,302.0	89.90	0.30	9,721.3	4,504.7	-501.2	0.62	0.32	0.53	16.6	-12.5
14,396.0	90.50	0.70	9,721.0	4,598.7	-500.4	0.77	0.64	0.43	18.1	-14.2
14,442.3	90.55	0.89	9,720.5	4,645.0	-499.8	0.43	0.11	0.42	18.6	-15.3
HL Crossing, MD:14442.3', TVD:9720.5', N/S:4645.0', E/W:-499.8', INC:90.55										
14,491.0	90.60	1.10	9,720.0	4,693.7	-498.9	0.43	0.11	0.42	19.1	-16.6
Final MWD Survey (MD=14491.0')										
14,559.0	90.60	1.10	9,719.3	4,761.7	-497.6	0.00	0.00	0.00	22.9	-21.2
Final Projection to Bit (MD=14559.0')										

PVA Report

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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,794.4	9,677.2	25.0	-428.8	HL Crossing, MD:9794.4', TVD:9677.2', N/S:25.0', E/W:-428.8', INC:52.15
14,442.3	9,720.5	4,645.0	-499.8	HL Crossing, MD:14442.3', TVD:9720.5', N/S:4645.0', E/W:-499.8', INC:90.55
14,491.0	9,720.0	4,693.7	-498.9	Final MWD Survey (MD=14491.0')
14,559.0	9,719.3	4,761.7	-497.6	Final Projection to Bit (MD=14559.0')

Checked By: _____ Approved By: _____ Date: _____