

30-025-42862

HOBBS OCD

SEP 26 2018

RECEIVED



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Streetcar 15 Fed

BS #705H

ST01

Design: ST01

Midland PVA

03 July, 2018



Midland PVA

Company:	EOG Resources - Midland			Local Co-ordinate Reference:	Well BS #705H
Project:	Lea County, NM (NAD 83 NME)			TVD Reference:	KB = 25' @ 3391.0usft (H&P 621)
Site:	Streetcar 15 Fed			MD Reference:	KB = 25' @ 3391.0usft (H&P 621)
Well:	BS #705H			North Reference:	Grid
Wellbore:	ST01			Survey Calculation Method:	Minimum Curvature
Design:	ST01			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	Streetcar 15 Fed				
Site Position:		Northing:	409,714.00 usft	Latitude:	32° 7' 26.337 N
From:	Map	Easting:	782,680.00 usft	Longitude:	103° 33' 13.460 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well	BS #705H					
Well Position	+N-S	0.0 usft	Northing:	409,693.00 usft	Latitude:	32° 7' 26.359 N
	+E-W	0.0 usft	Easting:	779,452.00 usft	Longitude:	103° 33' 50.997 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,366.0 usft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/14/2018	6.84	59.96	47,778.00253373

Design	ST01				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	11,866.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.0	0.0	0.0	8.15	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well BS #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3391.0usft (H&P 621)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3391.0usft (H&P 621)
Well:	BS #705H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.14

Survey Program		Date	7/3/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description		
203.0	1,133.0	Cartel 41 MWD 8'kb+17' (OH)	MWD	OWSG MWD - Standard		
1,268.0	11,866.0	Premier MWD (OH)	MWD	OWSG MWD - Standard		
11,990.0	17,074.0	Premier MWD (ST01)	MWD	OWSG MWD - Standard		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
203.0	1.07	46.23	203.0	1.3	1.4	0.53	0.53	0.00	0.0	0.0
325.0	0.20	47.70	325.0	2.2	2.3	0.71	-0.71	1.20	0.0	0.0
452.0	0.79	265.63	452.0	2.3	1.6	0.75	0.46	-111.87	0.0	0.0
578.0	1.41	276.18	578.0	2.4	-0.8	0.52	0.49	8.37	0.0	0.0
704.0	1.15	68.56	703.9	3.1	-1.1	1.97	-0.21	120.94	0.0	0.0
831.0	1.54	56.84	830.9	4.5	1.5	0.37	0.31	-9.23	0.0	0.0
959.0	1.09	67.75	958.9	5.9	4.0	0.40	-0.35	8.52	0.0	0.0
1,085.0	1.07	38.29	1,084.8	7.2	5.9	0.44	-0.02	-23.38	0.0	0.0
1,133.0	0.81	41.92	1,132.8	7.8	6.4	0.56	-0.54	7.56	0.0	0.0
1,268.0	0.87	17.62	1,267.8	9.5	7.3	0.27	0.04	-18.00	0.0	0.0
1,452.0	2.42	96.44	1,451.8	10.4	11.6	1.31	0.84	42.84	0.0	0.0
1,637.0	2.34	100.64	1,636.6	9.3	19.2	0.10	-0.04	2.27	0.0	0.0
1,825.0	2.15	101.73	1,824.5	7.9	26.4	0.10	-0.10	0.58	0.0	0.0
2,012.0	3.18	101.17	2,011.3	6.1	35.0	0.55	0.55	-0.30	0.0	0.0
2,199.0	6.81	103.41	2,197.5	2.6	50.5	1.84	1.83	1.20	0.0	0.0
2,293.0	6.28	102.84	2,290.9	0.2	60.8	0.36	-0.35	-0.61	0.0	0.0
2,480.0	5.50	97.40	2,477.0	-3.2	79.7	0.51	-0.42	-2.91	0.0	0.0
2,666.0	6.14	99.33	2,662.0	-5.9	98.3	0.36	0.34	1.04	0.0	0.0
2,854.0	8.55	105.65	2,848.4	-11.3	121.7	1.35	1.28	3.36	0.0	0.0



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well BS #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3391.0usft (H&P 621)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3391.0usft (H&P 621)
Well:	BS #705H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Buid (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,041.0	7.84	101.11	3,033.5	-17.6	147.6	0.51	-0.38	-2.43	0.0	0.0	
3,135.0	7.51	99.12	3,126.7	-19.8	160.0	0.45	-0.35	-2.12	0.0	0.0	
3,323.0	9.23	93.21	3,312.7	-22.6	187.1	1.02	0.91	-3.14	0.0	0.0	
3,511.0	9.84	108.23	3,498.1	-27.9	217.6	1.19	0.32	6.93	0.0	0.0	
3,697.0	8.51	106.85	3,681.7	-36.3	246.1	0.72	-0.72	0.33	0.0	0.0	
3,884.0	7.07	106.49	3,867.0	-43.6	270.3	0.77	-0.77	-0.19	0.0	0.0	
4,072.0	6.81	101.52	4,053.6	-49.1	292.4	0.35	-0.14	-2.64	0.0	0.0	
4,260.0	6.12	98.10	4,240.4	-52.7	313.2	0.42	-0.37	-1.82	0.0	0.0	
4,447.0	8.76	103.28	4,425.8	-57.4	336.9	1.46	1.41	2.77	0.0	0.0	
4,634.0	10.01	109.86	4,610.3	-66.2	366.1	0.88	0.67	3.52	0.0	0.0	
4,821.0	9.55	113.50	4,794.6	-77.9	395.6	0.41	-0.25	1.95	0.0	0.0	
4,904.0	7.99	113.66	4,876.6	-83.0	407.2	1.88	-1.88	0.19	0.0	0.0	
5,082.0	11.41	93.76	5,052.1	-89.1	436.1	2.66	1.92	-11.18	0.0	0.0	
5,269.0	12.80	100.14	5,235.0	-94.0	475.0	1.03	0.74	3.41	0.0	0.0	
5,456.0	10.52	107.07	5,418.1	-102.6	511.7	1.43	-1.22	3.71	0.0	0.0	
5,642.0	10.90	105.25	5,600.9	-112.2	544.9	0.27	0.20	-0.98	0.0	0.0	
5,829.0	10.21	102.91	5,784.7	-120.6	578.1	0.43	-0.37	-1.25	0.0	0.0	
6,017.0	9.92	98.84	5,969.8	-127.1	610.3	0.32	-0.15	-1.63	0.0	0.0	
6,204.0	8.95	97.45	6,154.3	-131.7	640.6	0.56	-0.52	-1.28	0.0	0.0	
6,391.0	11.14	106.31	6,338.4	-138.7	672.3	1.43	1.17	4.74	0.0	0.0	
6,579.0	13.40	105.31	6,522.1	-149.5	710.8	1.21	1.20	-0.53	0.0	0.0	
6,765.0	13.97	101.84	6,702.8	-159.8	753.5	0.54	0.31	-1.87	0.0	0.0	
6,952.0	10.02	115.84	6,885.7	-171.6	790.3	2.61	-2.11	7.49	0.0	0.0	
7,141.0	6.37	125.68	7,072.8	-184.8	813.6	2.06	-1.93	5.21	0.0	0.0	
7,329.0	2.36	86.91	7,260.2	-190.7	826.0	2.53	-2.13	-20.62	0.0	0.0	
7,516.0	1.09	151.95	7,447.2	-192.1	830.7	1.15	-0.68	34.78	0.0	0.0	
7,702.0	1.09	158.79	7,633.1	-195.3	832.1	0.07	0.00	3.68	0.0	0.0	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well BS #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3391.0usft (H&P 621)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3391.0usft (H&P 621)
Well:	BS #705H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.14

Survey											
MD (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)	
7,795.0	1.20	165.17	7,726.1	-197.1	832.7	0.18	0.12	6.86	0.0	0.0	
7,982.0	1.47	168.47	7,913.1	-201.3	833.7	0.15	0.14	1.76	0.0	0.0	
8,169.0	1.01	23.09	8,100.0	-202.1	834.8	1.27	-0.25	-77.74	0.0	0.0	
8,329.0	0.83	18.64	8,260.0	-199.7	835.7	0.12	-0.11	-2.78	0.0	0.0	
8,517.0	0.30	323.71	8,448.0	-198.1	835.9	0.37	-0.28	-29.22	0.0	0.0	
8,704.0	0.52	214.15	8,635.0	-198.4	835.1	0.36	0.12	-58.59	0.0	0.0	
8,891.0	0.83	189.91	8,822.0	-200.4	834.4	0.22	0.17	-12.96	0.0	0.0	
9,078.0	0.78	186.58	9,009.0	-203.0	834.0	0.04	-0.03	-1.78	0.0	0.0	
9,265.0	0.95	192.75	9,195.9	-205.8	833.5	0.10	0.09	3.30	0.0	0.0	
9,453.0	0.67	196.60	9,383.9	-208.4	832.9	0.15	-0.15	2.05	0.0	0.0	
9,640.0	1.29	152.55	9,570.9	-211.3	833.5	0.50	0.33	-23.56	0.0	0.0	
9,828.0	1.15	100.90	9,758.9	-213.5	836.4	0.57	-0.07	-27.47	0.0	0.0	
10,015.0	0.58	49.82	9,945.8	-213.2	838.9	0.48	-0.30	-27.32	0.0	0.0	
10,200.0	0.85	179.29	10,130.8	-214.0	839.7	0.70	0.15	69.98	0.0	0.0	
10,388.0	0.82	75.09	10,318.8	-215.1	841.0	0.70	-0.02	-55.43	0.0	0.0	
10,575.0	0.77	64.05	10,505.8	-214.2	843.4	0.09	-0.03	-5.90	0.0	0.0	
10,762.0	1.05	75.79	10,692.8	-213.2	846.2	0.18	0.15	6.28	0.0	0.0	
10,949.0	1.42	80.20	10,879.7	-212.4	850.1	0.20	0.20	2.36	0.0	0.0	
11,136.0	1.90	40.68	11,066.7	-209.6	854.4	0.65	0.26	-21.13	0.0	0.0	
11,323.0	0.48	81.18	11,253.6	-207.2	857.2	0.84	-0.76	21.66	0.0	0.0	
11,511.0	2.82	217.53	11,441.6	-210.7	855.2	1.69	1.24	72.53	0.0	0.0	
11,699.0	3.57	220.47	11,629.3	-218.8	848.6	0.41	0.40	1.56	0.0	0.0	
11,742.0	3.38	215.29	11,672.2	-220.9	847.0	0.85	-0.44	-12.05	0.0	0.0	
11,866.0	2.82	212.13	11,796.0	-226.5	843.2	0.47	-0.45	-2.55	0.0	0.0	
11,870.0	2.58	216.71	11,800.0	-226.6	843.1	7.98	-5.92	113.76	-0.1	0.1	
KOP 11870.0 MD; 11800.0 TVD; -226.6; 843.1; 2.58											
11,990.0	7.84	339.17	11,919.7	-221.0	838.6	7.98	4.47	102.05	7.2	0.9	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well BS #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3391.0usft (H&P 621)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3391.0usft (H&P 621)
Well:	BS #705H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Buile (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
12,053.0	18.88	340.47	11,980.9	-207.3	833.6	17.37	17.37	2.06	12.2	2.0	
12,100.0	27.89	335.95	12,023.9	-190.1	826.5	19.53	19.17	-9.62	12.9	5.5	
12,146.0	36.42	334.26	12,062.9	-167.9	816.2	18.64	18.54	-3.67	10.9	10.3	
12,193.0	46.22	336.56	12,098.1	-139.7	803.4	21.10	20.85	4.89	6.8	15.4	
12,241.0	54.51	344.92	12,128.7	-104.8	791.4	21.84	17.27	17.42	1.4	18.7	
12,288.0	64.88	350.13	12,152.4	-65.3	782.7	24.04	22.06	11.09	-7.2	19.1	
12,336.0	72.28	352.59	12,170.0	-21.1	776.0	16.14	15.42	5.12	-19.2	17.6	
12,383.0	73.14	351.51	12,183.9	23.3	769.8	2.86	1.83	-2.30	-30.2	14.9	
12,429.0	74.37	351.70	12,196.8	67.0	763.4	2.70	2.67	0.41	-36.8	12.8	
12,446.3	75.54	352.28	12,201.3	83.6	761.0	7.48	6.74	3.37	-38.2	12.0	
FTP Crossing 12446.3' MD; 12201.3' TVD; 83.6°; 761.0°; 75.54											
12,476.0	77.54	353.27	12,208.2	112.2	757.4	7.48	6.75	3.32	-39.9	10.3	
12,523.0	81.66	353.51	12,216.7	158.1	752.1	8.78	8.77	0.51	-40.8	6.9	
12,570.0	81.84	352.35	12,223.4	204.3	746.4	2.47	0.38	-2.47	-38.2	3.9	
12,617.0	82.42	352.20	12,229.9	250.4	740.1	1.27	1.23	-0.32	-31.4	2.1	
12,664.0	84.83	352.62	12,235.1	296.7	733.9	5.20	5.13	0.89	-25.4	1.2	
12,711.0	84.10	351.30	12,239.6	343.0	727.4	3.20	-1.55	-2.81	-20.0	1.9	
12,758.0	84.26	353.14	12,244.4	389.4	721.1	3.91	0.34	3.91	-14.5	3.5	
12,836.0	90.07	355.53	12,248.3	468.8	713.2	7.85	7.26	2.99	-9.1	5.9	
12,898.0	91.58	356.22	12,247.5	528.7	708.9	2.77	2.52	1.15	-9.0	8.3	
12,993.0	89.80	358.78	12,246.3	623.6	704.7	3.28	-1.87	2.69	-8.5	11.7	
13,086.0	89.54	357.90	12,246.9	716.5	702.0	0.99	-0.28	-0.95	-6.3	13.8	
13,180.0	89.43	0.86	12,247.7	810.5	701.0	3.15	-0.12	3.15	-4.0	14.2	
13,274.0	87.92	357.65	12,249.9	904.5	699.8	3.77	-1.61	-3.41	-1.3	14.7	
13,367.0	92.15	359.46	12,249.8	997.4	697.5	4.95	4.55	1.95	-0.8	16.4	
13,461.0	93.85	359.93	12,244.9	1,091.3	697.0	1.88	1.81	0.50	-5.2	16.3	
13,554.0	89.29	1.19	12,242.4	1,184.2	697.9	5.09	-4.90	1.35	-7.2	14.8	



Midland PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Streetcar 15 Fed Well: BS #705H Wellbore: ST01 Design: ST01			Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:			Well BS #705H KB = 25' @ 3391.0usft (H&P 621) KB = 25' @ 3391.0usft (H&P 621) Grid Minimum Curvature 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)	
13,648.0	88.50	359.79	12,244.2	1,278.2	698.7	1.71	-0.84	-1.49	-4.9		13.3
13,742.0	86.98	358.88	12,247.9	1,372.1	697.6	1.88	-1.62	-0.97	-0.7		13.8
13,836.0	89.28	0.13	12,250.9	1,466.0	696.8	2.78	2.45	1.33	2.9		13.9
13,930.0	91.35	0.41	12,250.4	1,560.0	697.2	2.22	2.20	0.30	2.9		12.9
14,024.0	88.62	359.95	12,250.5	1,654.0	697.5	2.95	-2.90	-0.49	3.5		11.9
14,118.0	87.25	357.62	12,253.8	1,747.9	695.5	2.87	-1.46	-2.48	7.4		13.3
14,211.0	89.48	357.71	12,256.5	1,840.8	691.7	2.40	2.40	0.10	10.6		16.4
14,305.0	89.27	355.76	12,257.5	1,934.6	686.4	2.09	-0.22	-2.07	12.1		21.1
14,431.0	92.62	353.52	12,255.4	2,080.0	674.6	3.20	2.66	-1.78	10.4		32.0
14,493.0	94.79	355.69	12,251.4	2,121.6	668.8	4.94	3.50	3.50	5.6		37.4
14,587.0	100.41	4.76	12,239.0	2,214.7	669.1	11.28	5.98	9.65	-8.8		36.4
14,634.0	98.63	8.51	12,231.2	2,260.7	674.5	8.73	-3.79	7.98	-17.3		30.5
14,681.0	95.17	10.86	12,225.6	2,306.7	682.3	8.88	-7.36	5.00	-23.3		22.3
14,728.0	95.90	11.19	12,221.0	2,352.6	691.3	1.70	1.55	0.70	-28.3		13.2
14,775.0	90.92	11.91	12,218.2	2,398.6	700.7	10.71	-10.60	1.53	-31.6		3.7
14,822.0	87.56	12.60	12,218.9	2,444.5	710.6	7.30	-7.15	1.47	-31.7		-6.3
14,869.0	86.87	9.61	12,221.1	2,490.5	719.7	6.52	-1.47	-8.36	-30.1		-15.6
14,916.0	87.68	5.53	12,223.4	2,537.1	725.9	8.84	1.72	-8.68	-28.5		-22.3
14,963.0	85.39	0.46	12,226.2	2,583.9	728.3	11.82	-4.87	-10.79	-26.2		-25.2
15,010.0	85.12	0.05	12,230.1	2,630.7	728.5	1.04	-0.57	-0.87	-22.9		-25.8
15,057.0	87.31	359.79	12,233.2	2,677.6	728.5	4.69	4.66	-0.55	-20.5		-26.0
15,104.0	85.64	358.21	12,236.1	2,724.5	727.6	4.89	-3.55	-3.36	-18.2		-25.5
15,151.0	85.46	357.14	12,239.7	2,771.3	725.7	2.30	-0.38	-2.28	-15.2		-24.0
15,244.0	90.02	357.45	12,243.4	2,864.1	721.3	4.91	4.90	0.33	-12.9		-20.2
15,339.0	91.71	0.02	12,242.0	2,959.1	719.2	3.24	1.78	2.71	-15.6		-18.7
15,432.0	87.46	3.43	12,242.6	3,052.0	722.0	5.86	-4.57	3.67	-16.3		-22.1
15,563.0	83.65	0.12	12,252.8	3,182.5	726.1	3.85	-2.91	-2.53	-8.1		-27.1



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well BS #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3391.0usft (H&P 621)
Site:	Streelcar 15 Fed	MD Reference:	KB = 25' @ 3391.0usft (H&P 621)
Well:	BS #705H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.14

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,657.0	86.02	357.46	12,261.3	3,276.1	724.1	3.78	2.52	-2.83	-1.5	-25.7
15,751.0	87.29	356.84	12,266.8	3,369.8	719.5	1.50	1.35	-0.66	2.1	-21.7
15,844.0	89.98	0.09	12,269.0	3,462.7	717.0	4.54	2.89	3.49	2.8	-19.8
15,937.0	89.88	2.08	12,269.1	3,555.7	718.7	2.14	-0.11	2.14	1.5	-22.2
16,031.0	90.52	1.58	12,268.8	3,649.7	721.7	0.86	0.68	-0.53	-0.2	-25.9
16,124.0	88.95	2.97	12,269.2	3,742.6	725.4	2.25	-1.69	1.49	-1.3	-30.2
16,218.0	87.44	1.42	12,272.1	3,836.5	729.0	2.30	-1.61	-1.65	-0.1	-34.4
16,312.0	86.10	359.01	12,277.4	3,930.3	729.4	2.93	-1.43	-2.56	3.6	-35.4
16,405.0	86.59	357.56	12,283.4	4,023.1	726.6	1.64	0.53	-1.56	7.8	-33.3
16,498.0	87.06	357.11	12,288.5	4,115.8	722.3	0.70	0.51	-0.48	11.3	-29.6
16,592.0	86.64	354.74	12,293.7	4,209.4	715.6	2.56	-0.45	-2.52	14.8	-23.5
16,686.0	88.12	356.29	12,298.0	4,303.1	708.3	2.28	1.57	1.65	17.2	-16.8
16,780.0	88.17	358.45	12,301.0	4,396.9	704.0	2.30	0.05	2.30	18.5	-13.2
16,874.0	92.65	358.64	12,300.4	4,490.8	701.6	4.77	4.77	0.20	16.1	-11.5
Last MWD Survey (MD = 16874.0)										
17,019.0	92.65	358.64	12,293.6	4,635.6	698.1	0.00	0.00	0.00	6.7	-9.0
17,074.0	92.65	358.64	12,291.1	4,690.6	696.8	0.00	0.00	0.00	3.2	-8.1
Projection to Bit (MD = 17074.0)										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
11,870.0	11,800.0	-226.6	843.1	KOP 11870.0' MD; 11800.0' TVD; -226.6'; 843.1'; 2.58
12,446.3	12,201.3	83.6	761.0	FTP Crossing 12446.3' MD; 12201.3' TVD; 83.6'; 761.0'; 75.54
16,874.0	12,300.4	4,490.8	701.6	Last MWD Survey (MD = 16874.0)
17,074.0	12,291.1	4,690.6	696.8	Projection to Bit (MD = 17074.0)



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well BS #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3391.0usft (H&P 621)
Site:	Streetcar 15 Fed	MD Reference:	KB = 25' @ 3391.0usft (H&P 621)
Well:	BS #705H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.14

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Streetcar 15 Fed BS #705H

H&P 621

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: BS #705H

KB = 25' @ 3391.0usft (H&P 621)
Northing 409693.00 Easting 77452.00 Latitude 32° 7' 28.359 N Longitude 103° 33' 50.997 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSet	Target
1	11862.0	2.84	212.25	11792.0	-226.3	843.3	0.00	0.00	-104.4	
2	12598.6	90.99	349.88	12261.7	224.6	746.6	12.64	137.56	328.2	
3	12922.7	90.99	359.61	12256.1	547.0	717.0	3.00	89.88	643.1	
4	13162.3	90.99	359.61	12252.0	786.5	715.3	0.00	0.00	880.0	TGT #1 (Streetcar 15 Fed BS #705H)
5	13195.7	90.32	359.61	12251.6	819.9	715.1	2.00	179.65	913.0	
6	14383.9	90.32	359.61	12245.0	2008.0	707.0	0.00	0.00	2088.0	TGT #2 (Streetcar 15 Fed BS #705H)
7	14439.4	89.21	359.61	12245.2	2063.5	708.6	2.00	-180.00	2142.9	
8	15508.5	89.21	359.61	12250.0	3132.5	699.4	0.00	0.00	3200.0	TGT #3 (Streetcar 15 Fed BS #705H)
9	15528.2	88.85	359.61	12250.3	3150.2	699.2	2.00	180.00	3217.5	
10	15761.3	88.85	359.61	12265.0	3385.3	697.6	0.00	0.00	3450.0	TGT #4 (Streetcar 15 Fed BS #705H)
11	15778.0	89.15	359.61	12265.3	3400.0	697.5	2.00	0.00	3464.5	
12	16095.1	89.15	359.61	12270.0	3719.0	695.4	0.00	0.00	3780.0	TGT #5 (Streetcar 15 Fed BS #705H)
13	16105.4	88.94	359.61	12270.2	3729.3	695.3	2.00	180.00	3790.3	
14	17178.3	88.94	359.61	12290.0	4802.0	688.0	0.00	0.00	4851.0	PBHL (Streetcar 15 Fed BS #705H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
TGT #1 (Streetcar 15 Fed BS #705H)	12252.0	786.5	715.3	410479.50	780167.24
TGT #2 (Streetcar 15 Fed BS #705H)	12245.0	2008.0	707.0	411701.00	780169.02
TGT #3 (Streetcar 15 Fed BS #705H)	12250.0	3132.5	699.4	412025.50	780161.37
TGT #4 (Streetcar 15 Fed BS #705H)	12265.0	3385.3	697.6	413078.30	780148.64
TGT #5 (Streetcar 15 Fed BS #705H)	12270.0	3719.0	695.4	413412.00	780147.37
PBHL (Streetcar 15 Fed BS #705H)	12290.0	4802.0	688.0	414086.00	780140.30
AC TGT (Streetcar 15 Fed BS #705H)	12232.0	2951.5	703.3	412244.48	780169.32
STP (Streetcar 15 Fed BS #705H)	12287.0	3410.0	720.0	409772.00	780172.00

