

HOBBS OCD Stryker Directional

Lomas Rojas 26 State Com #707H

DEC 12 2016

RECEIVED

Company: EOG Resources
 Project: Lea County, NM (NAD 27 NME)
 Site: Lomas Rojas 26 State Com
 Well: #707H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25 @ 3366.0usft (Precision 612)
 MD Reference: KB = 25 @ 3366.0usft (Precision 612)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: Stryker_EDM

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	Lomas Rojas 26 State Com		
Site Position:		Northing:	403,820.30 usft
From:	None	Easting:	745,192.70 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 27.873 N
		Longitude:	103° 32' 29.253 W
		Grid Convergence:	0.42 °

Well	#707H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty		0.0 usft	Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	6/13/2016	(°)
			7.04
			Dip Angle
			(°)
			59.97
			Field Strength
			(nT)
			47,975

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
			(°)
			355.47

Survey Program	Date 7/6/2016		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1,138.0	17,421.0	MWD Survey (OH)	MWD
			Description
			MWD - Standard

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1,138.0	0.57	170.75	1,138.0	-5.6	0.9	-5.7	5.7	170.87	0.00
1,253.0	0.00	90.70	1,253.0	-6.2	1.0	-6.2	6.2	170.86	0.50
1,347.0	1.60	6.30	1,347.0	-4.9	1.1	-4.9	5.0	166.84	1.70
1,533.0	2.50	353.70	1,532.9	1.8	1.0	1.7	2.0	29.10	0.54
1,719.0	3.70	355.60	1,718.6	11.8	0.1	11.7	11.8	0.34	0.65
1,906.0	4.20	350.50	1,905.1	24.5	-1.5	24.6	24.6	356.45	0.33
2,092.0	5.70	352.70	2,090.4	40.4	-3.8	40.6	40.6	354.60	0.81
2,279.0	6.50	352.10	2,276.4	60.1	-6.5	60.4	60.5	353.87	0.43
2,466.0	8.00	353.20	2,461.9	83.5	-9.5	84.0	84.1	353.54	0.81
2,653.0	8.10	352.30	2,647.0	109.5	-12.8	110.2	110.2	353.35	0.09
2,843.0	7.60	351.10	2,835.3	135.2	-16.5	136.1	136.2	353.04	0.28
3,029.0	8.10	358.70	3,019.5	160.4	-18.7	161.4	161.5	353.35	0.62
3,216.0	8.00	1.70	3,204.7	186.6	-18.6	187.5	187.5	354.31	0.23
3,402.0	7.60	359.20	3,389.0	211.8	-18.4	212.6	212.6	355.04	0.28
3,591.0	7.30	348.10	3,576.4	236.1	-21.0	237.0	237.0	354.91	0.78
3,776.0	6.70	348.60	3,760.0	258.2	-25.6	259.4	259.4	354.34	0.33
3,963.0	7.30	353.20	3,945.6	280.7	-29.2	282.1	282.2	354.07	0.44
4,149.0	6.90	352.90	4,130.2	303.5	-31.9	305.1	305.2	353.99	0.22
4,338.0	7.20	355.50	4,317.7	326.6	-34.3	328.2	328.4	354.01	0.23
4,524.0	7.70	349.20	4,502.2	350.4	-37.5	352.3	352.4	353.89	0.51
4,711.0	6.40	354.50	4,687.8	373.1	-40.9	375.2	375.3	353.75	0.78
4,897.0	7.30	355.30	4,872.4	395.2	-42.8	397.3	397.5	353.81	0.49
5,084.0	7.40	348.20	5,057.9	418.8	-46.3	421.2	421.4	353.70	0.49
5,269.0	9.70	353.30	5,240.8	446.0	-50.5	448.6	448.8	353.54	1.31
5,456.0	9.50	352.60	5,425.2	476.9	-54.4	479.7	480.0	353.50	0.12
5,641.0	8.30	351.10	5,608.0	505.3	-58.4	508.3	508.6	353.41	0.66
5,828.0	7.30	349.20	5,793.3	530.3	-62.7	533.6	534.0	353.26	0.55

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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
6,014.0	7.00	348.80	5,977.8	553.0	-67.1	556.6	557.0	353.08	0.16
6,200.0	6.30	353.80	6,162.6	574.2	-70.4	578.0	578.5	353.01	0.49
6,387.0	7.10	354.40	6,348.3	595.9	-72.7	599.8	600.4	353.05	0.43
6,574.0	6.90	355.30	6,533.9	618.6	-74.7	622.6	623.1	353.11	0.12
6,761.0	6.40	354.50	6,719.6	640.2	-76.6	644.3	644.8	353.18	0.27
6,947.0	6.60	353.30	6,904.4	661.2	-78.9	665.3	665.8	353.20	0.13
7,134.0	5.90	350.30	7,090.3	681.3	-81.7	685.6	686.2	353.16	0.41
7,319.0	5.20	347.20	7,274.5	698.8	-85.2	703.4	704.0	353.05	0.41
7,506.0	4.40	345.20	7,460.8	714.0	-88.9	718.8	719.6	352.90	0.44
7,692.0	4.50	359.20	7,646.2	728.2	-90.8	733.1	733.9	352.89	0.58
7,879.0	3.40	357.50	7,832.8	741.1	-91.2	746.0	746.7	352.99	0.59
8,065.0	2.80	356.30	8,018.5	751.2	-91.7	756.1	756.7	353.04	0.32
8,251.0	2.10	355.00	8,204.3	759.1	-92.3	764.0	764.7	353.07	0.38
8,437.0	1.30	347.60	8,390.3	764.5	-93.0	769.5	770.2	353.06	0.45
8,623.0	1.30	269.00	8,576.2	766.6	-95.6	771.7	772.5	352.89	0.89
8,801.0	0.50	310.30	8,754.2	767.0	-98.2	772.4	773.3	352.70	0.55
8,989.0	0.90	33.80	8,942.2	768.8	-98.0	774.1	775.0	352.73	0.52
9,175.0	2.20	65.70	9,128.1	771.5	-94.0	776.5	777.2	353.06	0.81
9,361.0	1.30	84.20	9,314.0	773.2	-88.6	777.7	778.2	353.46	0.57
9,546.0	0.60	76.90	9,499.0	773.6	-85.6	777.9	778.3	353.69	0.38
9,733.0	0.40	49.60	9,686.0	774.2	-84.1	778.5	778.8	353.80	0.16
9,919.0	1.10	44.00	9,872.0	775.9	-82.4	780.0	780.3	353.94	0.38
10,106.0	0.90	60.70	10,059.0	777.9	-79.9	781.8	782.0	354.14	0.19
10,293.0	0.80	79.60	10,245.9	778.9	-77.3	782.6	782.7	354.33	0.16
10,480.0	0.40	4.60	10,432.9	779.8	-76.0	783.4	783.5	354.44	0.43
10,666.0	0.60	315.70	10,618.9	781.1	-76.6	784.7	784.9	354.40	0.24
10,854.0	0.80	291.30	10,806.9	782.3	-78.5	786.1	786.2	354.27	0.19

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11,040.0	0.40	320.30	10,992.9	783.3	-80.1	787.2	787.4	354.16	0.26
11,133.0	0.50	338.60	11,085.9	783.9	-80.5	787.8	788.0	354.14	0.19
11,155.0	0.50	336.50	11,107.9	784.1	-80.6	788.0	788.2	354.13	0.08
11,234.0	0.30	343.30	11,186.9	784.6	-80.8	788.5	788.8	354.12	0.26
11,421.0	0.60	228.90	11,373.9	784.4	-81.6	788.4	788.7	354.06	0.41
11,608.0	0.80	240.40	11,560.9	783.1	-83.5	787.3	787.6	353.91	0.13
11,795.0	0.60	236.50	11,747.9	782.0	-85.5	786.3	786.6	353.76	0.11
11,983.0	0.40	301.40	11,935.9	781.8	-86.8	786.2	786.6	353.66	0.30
12,168.0	0.80	284.80	12,120.8	782.4	-88.6	787.0	787.4	353.54	0.23
12,263.0	9.10	166.30	12,215.5	775.3	-87.5	779.8	780.2	353.56	10.01
12,310.0	20.40	165.40	12,260.8	763.7	-84.5	768.0	768.4	353.68	24.05
12,358.0	26.70	171.00	12,304.8	744.9	-80.7	749.0	749.3	353.81	13.91
12,405.0	34.90	173.30	12,345.2	721.1	-77.5	725.0	725.3	353.86	17.62
12,451.0	42.90	178.00	12,380.9	692.3	-75.4	696.1	696.4	353.78	18.53
12,498.0	53.20	178.60	12,412.3	657.4	-74.4	661.3	661.6	353.54	21.94
12,544.0	62.50	177.80	12,436.8	618.6	-73.2	622.4	622.9	353.25	20.27
12,588.0	70.50	177.50	12,454.3	578.3	-71.5	582.1	582.7	352.95	18.19
12,638.0	78.50	177.70	12,467.7	530.2	-69.5	534.0	534.7	352.53	16.00
12,670.0	79.60	177.70	12,473.7	498.8	-68.2	502.6	503.4	352.21	3.44
12,701.0	80.50	178.20	12,479.1	468.3	-67.1	472.1	473.1	351.84	3.31
12,732.0	80.60	177.90	12,484.2	437.7	-66.1	441.6	442.7	351.41	1.01
12,764.0	81.30	178.40	12,489.2	406.1	-65.1	410.0	411.3	350.90	2.68
12,794.0	83.20	178.60	12,493.3	376.4	-64.3	380.3	381.9	350.30	6.37
12,826.0	86.00	180.30	12,496.3	344.6	-64.0	348.5	350.5	349.48	10.22
12,920.0	88.50	180.10	12,500.8	250.7	-64.3	255.0	258.8	345.61	2.67
13,013.0	88.50	177.50	12,503.2	157.7	-62.4	162.2	169.6	338.42	2.79
13,106.0	90.00	176.30	12,504.4	64.9	-57.4	69.2	86.6	318.52	2.07

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13,200.0	91.00	177.40	12,503.6	-29.0	-52.2	-24.8	59.7	240.97	1.58
13,294.0	92.80	182.20	12,500.5	-122.9	-51.9	-118.4	133.4	202.88	5.45
13,388.0	87.80	181.40	12,500.0	-216.8	-54.8	-211.8	223.6	194.19	5.39
13,480.0	88.10	181.10	12,503.3	-308.7	-56.8	-303.3	313.9	190.43	0.46
13,574.0	91.30	180.40	12,503.8	-402.7	-58.0	-396.9	406.9	188.20	3.48
13,667.0	89.70	179.70	12,503.0	-495.7	-58.1	-489.6	499.1	186.69	1.88
13,760.0	89.50	177.40	12,503.6	-588.7	-55.8	-582.4	591.3	185.41	2.48
13,853.0	90.50	179.60	12,503.6	-681.6	-53.3	-675.3	683.7	184.47	2.60
13,947.0	92.70	180.20	12,501.0	-775.6	-53.2	-768.9	777.4	183.92	2.43
14,040.0	91.60	181.40	12,497.5	-868.5	-54.5	-861.5	870.2	183.59	1.75
14,133.0	91.90	184.90	12,494.7	-961.3	-59.6	-953.6	963.1	183.55	3.78
14,163.0	90.90	184.40	12,493.9	-991.2	-62.0	-983.2	993.1	183.58	3.73
14,259.0	90.80	181.40	12,492.5	-1,087.0	-66.9	-1,078.4	1,089.1	183.52	3.13
14,350.0	85.90	179.70	12,495.1	-1,178.0	-67.7	-1,168.9	1,179.9	183.29	5.70
14,444.0	87.10	179.80	12,500.9	-1,271.8	-67.3	-1,262.5	1,273.6	183.03	1.28
14,538.0	89.10	180.50	12,504.0	-1,365.7	-67.6	-1,356.1	1,367.4	182.83	2.25
14,631.0	91.40	181.20	12,503.6	-1,458.7	-69.0	-1,448.7	1,460.3	182.71	2.59
14,725.0	92.50	181.10	12,500.4	-1,552.6	-70.8	-1,542.2	1,554.3	182.61	1.18
14,819.0	89.90	181.20	12,498.4	-1,646.6	-72.7	-1,635.7	1,648.2	182.53	2.77
14,912.0	89.60	181.50	12,498.8	-1,739.6	-74.9	-1,728.2	1,741.2	182.47	0.46
15,006.0	90.20	181.90	12,499.0	-1,833.5	-77.7	-1,821.7	1,835.2	182.43	0.77
15,098.0	89.20	181.90	12,499.5	-1,925.5	-80.8	-1,913.1	1,927.2	182.40	1.09
15,192.0	90.70	181.20	12,499.5	-2,019.4	-83.3	-2,006.5	2,021.2	182.36	1.76
15,285.0	93.10	181.00	12,496.5	-2,112.4	-85.1	-2,099.0	2,114.1	182.31	2.59
15,379.0	92.30	178.80	12,492.0	-2,206.3	-84.9	-2,192.6	2,207.9	182.20	2.49
15,473.0	87.50	176.10	12,492.2	-2,300.1	-80.7	-2,286.6	2,301.5	182.01	5.86
15,566.0	89.90	177.10	12,494.3	-2,392.9	-75.2	-2,379.5	2,394.1	181.80	2.80

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15,660.0	91.00	177.50	12,493.6	-2,486.8	-70.8	-2,473.4	2,487.8	181.63	1.25
15,754.0	89.60	174.70	12,493.1	-2,580.6	-64.4	-2,567.4	2,581.4	181.43	3.33
15,848.0	90.70	175.30	12,492.8	-2,674.2	-56.2	-2,661.4	2,674.8	181.20	1.33
15,941.0	91.30	174.20	12,491.2	-2,766.8	-47.7	-2,754.4	2,767.2	180.99	1.35
16,035.0	90.70	171.40	12,489.6	-2,860.1	-35.9	-2,848.3	2,860.3	180.72	3.05
16,128.0	91.70	178.40	12,487.6	-2,952.6	-27.7	-2,941.2	2,952.7	180.54	7.60
16,222.0	87.60	179.60	12,488.2	-3,046.6	-26.0	-3,035.0	3,046.7	180.49	4.54
16,315.0	88.90	180.00	12,491.0	-3,139.5	-25.7	-3,127.7	3,139.6	180.47	1.46
16,408.0	88.60	179.20	12,493.1	-3,232.5	-25.1	-3,220.4	3,232.6	180.44	0.92
16,501.0	90.30	179.00	12,493.9	-3,325.5	-23.6	-3,313.2	3,325.6	180.41	1.84
16,594.0	94.50	179.10	12,490.1	-3,418.4	-22.1	-3,405.9	3,418.4	180.37	4.52
16,688.0	93.30	179.90	12,483.7	-3,512.1	-21.2	-3,499.5	3,512.2	180.35	1.53
16,780.0	90.20	181.70	12,480.9	-3,604.1	-22.5	-3,591.0	3,604.1	180.36	3.90
16,873.0	90.90	178.50	12,480.0	-3,697.1	-22.7	-3,683.7	3,697.1	180.35	3.52
16,966.0	90.10	180.20	12,479.1	-3,790.0	-21.6	-3,776.5	3,790.1	180.33	2.02
17,060.0	87.50	181.00	12,481.1	-3,884.0	-22.6	-3,870.1	3,884.1	180.33	2.89
17,153.0	88.20	179.90	12,484.6	-3,976.9	-23.3	-3,962.7	3,977.0	180.34	1.40
17,247.0	89.80	182.70	12,486.2	-4,070.9	-25.5	-4,056.1	4,071.0	180.36	3.43
17,340.0	90.30	184.20	12,486.2	-4,163.7	-31.1	-4,148.2	4,163.8	180.43	1.70
17,366.0	91.30	184.10	12,485.8	-4,189.6	-33.0	-4,173.9	4,189.8	180.45	3.87
17,421.0	91.30	184.10	12,484.6	-4,244.5	-36.9	-4,228.3	4,244.6	180.50	0.00

17421' MD Projected to Bit



COMPANY: EOG Resources
WELL: #707H
COUNTY: Lea County, NM (NAD 27 NME)
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson Precision 612



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.63°

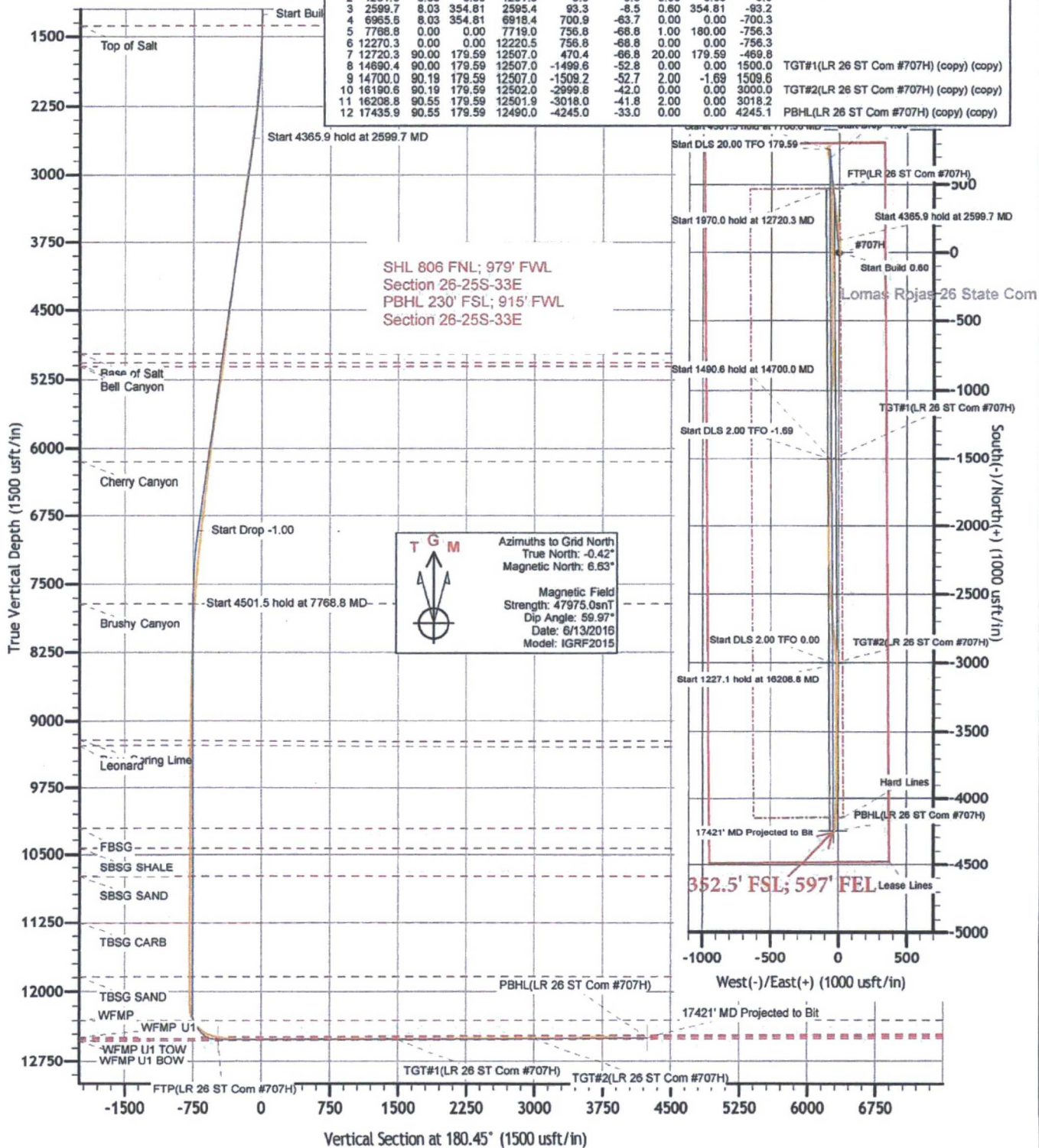
OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico East 3001
KB = 25 (copy) @ 3366.0usft (Precision 612)
GROUND ELEVATION: 3341.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	403330.00	743162.00	32° 6' 23.168 N	103° 32' 52.903 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1261.0	0.00	0.00	1261.0	0.0	0.0	0.00	0.00	0.0	
3	2599.7	8.03	354.81	2595.4	93.3	-8.5	0.60	354.81	-93.2	
4	6965.6	8.03	354.81	6918.4	700.9	-63.7	0.00	0.00	-700.3	
5	7768.8	0.00	0.00	7719.0	756.8	-68.8	1.00	180.00	-756.3	
6	12270.3	0.00	0.00	12220.5	756.8	-68.8	0.00	0.00	-756.3	
7	12720.3	90.00	179.59	12507.0	470.4	-66.8	20.00	179.59	-469.8	TGT#1(LR 26 ST Com #707H) (copy) (copy)
8	14690.4	90.00	179.59	12507.0	-1499.6	-52.8	0.00	0.00	1500.0	TGT#2(LR 26 ST Com #707H) (copy) (copy)
9	14700.0	90.19	179.59	12507.0	-1508.2	-52.7	2.00	1.69	1508.6	
10	16190.6	90.19	179.59	12502.0	-2999.8	-42.0	0.00	0.00	3000.0	
11	16208.8	90.55	179.59	12501.9	-3018.0	-41.8	2.00	0.00	3018.2	
12	17435.9	90.55	179.59	12490.0	-4245.0	-33.0	0.00	0.00	4245.1	PBHL(LR 26 ST Com #707H) (copy) (copy)





August 16, 2016

1108BS OCD

DEC 12 2016

RECEIVED

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Jackie Lathan

Re: EOG Resources, Inc.
Lomas Rojas 26 State Com #707H
WC-025 G-09 S253336D; Upper Wolfcamp
Lea County, New Mexico
API# 30-025-43220

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Paul Niewiemiński	Original Hole	1,253ft. to 17,366ft.	6/15/2016 to 07/06/2016	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Todd Estes

Enclosures

CC:

EOG Resources, Inc.
Attn: Shanna Bennett
5509 Champions Drive
Midland, Texas 79706

EOG Resources, Inc.
Attn: Larry Price
5509 Champions Drive
Midland, Texas 79706

NMEMaNRD\EOG Resources\Lomas Rojas 26 State Com #707H\M161043

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



August 16, 2016

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of June 15, 2016, through July 06, 2016 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,253 feet to a depth of 17,366 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of EOG Resources, Inc. for the Lomas Rojas 26 State Com #707H well, API # **30-025-43220** in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.


Todd Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

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