



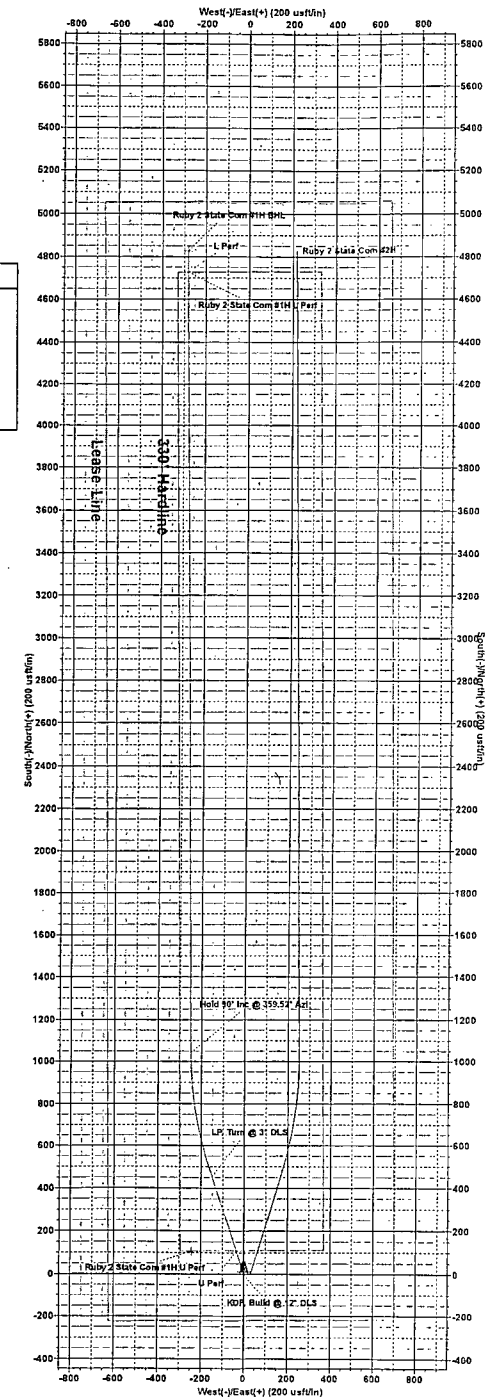
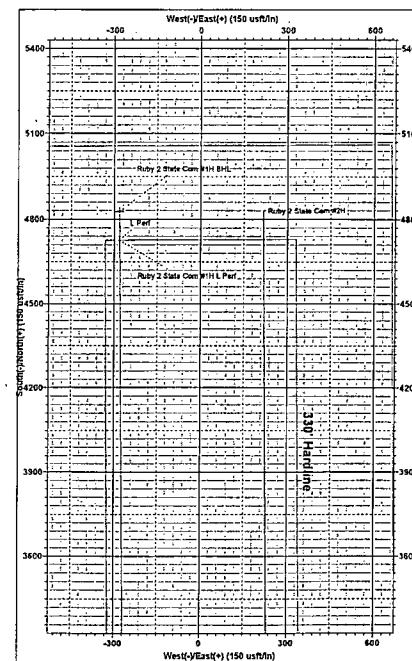
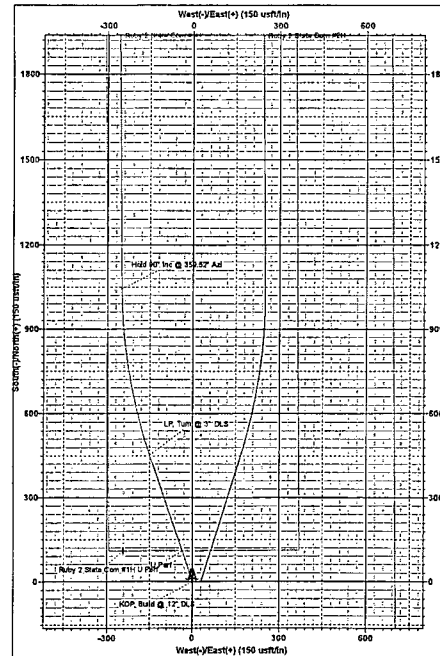
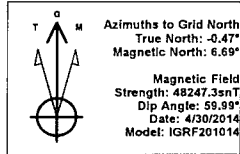
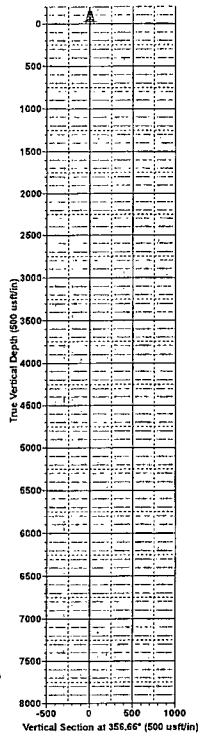
Lea County, NM
Ruby 2 State Com #1H
3311' GL + 30' KB
Plan #1

PROJECT DETAILS: Lea County, NM
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: Ruby 2 State Com #1H			
Northing	Ground Level:	3311.00	Longitude
388748.00	Easting	774632.00	103° 26' 48.449 W
	Latitude	32° 3' 56.457 N	

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSeet	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	9162.54	0.00	0.00	9162.54	0.00	0.00	0.00	0.00	0.00	
3	9912.54	90.00	341.50	9640.00	452.79	-151.50	12.00	341.50	450.86	KOP, Build @ 12° DLS
4	10513.12	90.00	359.52	9640.00	1042.71	-250.13	3.00	90.00	1055.53	LP, Turn @ 3° DLS
5	14297.54	90.00	359.52	9640.00	4827.00	-282.00	0.00	0.00	4835.23	Hold 90° Inc @ 359.52° Azi TD at 14297.54

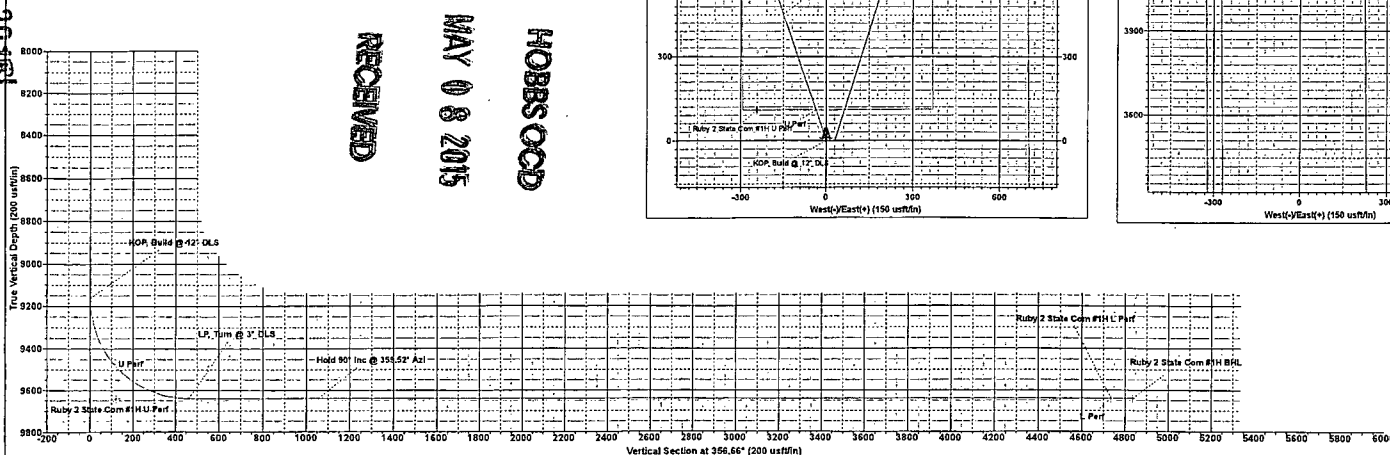
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N-S	+E-W	Northing	Easting	Shape
Ruby 2 State Com #1H BHL	9640.00	4827.00	-282.00	393575.00	774350.00	Point
Ruby 2 State Com #1H L Perf	9640.00	4727.00	-282.00	393475.00	774350.00	Point
Ruby 2 State Com #1H U Perf	9640.00	108.00	-243.00	388856.00	774389.00	Point



RECEIVED

MAY 08 2015

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MAY 12 2015



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Ruby 2 State Com

#701H

OH

Design: OH

EOG PVA

08 January, 2015

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HOBBSOCD



EOG Resources, Inc.

EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 21' @ 3332.0usft (Nomac 55)
Site:	Ruby 2 State Com	MD Reference:	KB = 21' @ 3332.0usft (Nomac 55)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project:	Lea County, NM (NAD 27 NME)	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Ruby 2 State Com		
Site Position:		Northing:	388,748.00 usft
From:	Map	Easting:	774,632.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 56.457 N
		Longitude:	103° 26' 48.449 W
		Grid Convergence:	0.47 °

Well	#701H					
Well Position	+N/-S	0.0 usft	Northing:	388,748.00 usft	Latitude:	32° 3' 56.457 N
	+E/-W	0.0 usft	Easting:	774,632.00 usft	Longitude:	103° 26' 48.449 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,311.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF201014	12/13/2014	7.09	59.97	48,185

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	356.66

Survey Program	Date	1/8/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
193.0	17,530.0	mwdsi MWD #1 (OH)	MWD	MWD - Standard



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EOG PVA

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Site:	Ruby 2 State Com	MD Reference:	KB = 21' @ 3332.0usft (Nomac 55)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	
193.0	1.60	287.70	193.0	0.8	-2.6	0.83	0.83	0.00	-2.7	0.0	
314.0	1.70	287.50	313.9	1.9	-5.9	0.08	0.08	-0.17	-6.2	0.0	
467.0	1.60	281.80	466.9	3.0	-10.1	0.13	-0.07	-3.73	-10.5	-0.9	
653.0	1.70	285.40	652.8	4.3	-15.3	0.08	0.05	1.94	-15.9	0.0	
780.0	1.70	280.60	779.7	5.1	-19.0	0.11	0.00	-3.78	-19.6	-1.5	
970.0	1.50	265.80	969.7	5.4	-24.3	0.24	-0.11	-7.79	-23.8	-7.2	
1,066.0	1.10	230.20	1,065.6	4.8	-26.2	0.92	-0.42	-37.08	-17.1	-20.4	
1,225.0	1.20	224.10	1,224.6	2.6	-28.6	0.10	0.06	-3.84	-18.0	-22.3	
1,364.0	1.00	221.50	1,363.6	0.6	-30.4	0.15	-0.14	-1.87	-19.7	-23.2	
1,459.0	0.80	232.10	1,458.6	-0.4	-31.4	0.27	-0.21	11.16	-25.1	-19.0	
1,554.0	0.70	244.60	1,553.6	-1.1	-32.5	0.20	-0.11	13.16	-29.8	-13.0	
1,648.0	0.80	262.60	1,647.5	-1.4	-33.7	0.27	0.11	19.15	-33.6	-3.0	
1,743.0	0.80	272.40	1,742.5	-1.4	-35.0	0.14	0.00	10.32	-34.9	2.9	
1,838.0	0.50	251.20	1,837.5	-1.5	-36.0	0.40	-0.32	-22.32	-34.6	-10.1	
1,933.0	0.90	270.70	1,932.5	-1.7	-37.2	0.48	0.42	20.53	-37.2	2.1	
2,029.0	0.70	269.00	2,028.5	-1.7	-38.5	0.21	-0.21	-1.77	-38.5	1.0	
2,124.0	0.60	284.60	2,123.5	-1.6	-39.6	0.21	-0.11	16.42	-37.9	11.5	
2,219.0	0.40	281.60	2,218.5	-1.4	-40.4	0.21	-0.21	-3.16	-39.3	9.5	
2,315.0	0.30	308.80	2,314.5	-1.1	-40.9	0.20	-0.10	28.33	-31.2	26.5	
2,410.0	0.30	322.60	2,409.5	-0.8	-41.3	0.08	0.00	14.53	-24.4	33.3	
2,505.0	0.80	13.10	2,504.5	0.1	-41.3	0.69	0.53	53.16	9.3	40.2	
2,601.0	1.40	23.90	2,600.5	1.8	-40.6	0.66	0.62	11.25	14.8	37.9	
2,696.0	1.80	31.20	2,695.4	4.1	-39.4	0.47	0.42	7.68	16.9	35.8	
2,791.0	1.90	30.70	2,790.4	6.7	-37.8	0.11	0.11	-0.53	13.5	36.0	
2,886.0	2.00	33.10	2,885.3	9.5	-36.1	0.14	0.11	2.53	11.8	35.4	
2,982.0	1.50	103.60	2,981.3	10.6	-34.0	2.15	-0.52	73.44	35.5	2.3	



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 21' @ 3332.0usft (Nomac 55)
Site:	Ruby 2 State Com	MD Reference:	KB = 21' @ 3332.0usft (Nomac 55)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 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)	
3,077.0	1.50	82.00	3,076.3	10.5	-31.5	0.59	0.00	-22.74	29.8	14.8	
3,171.0	1.70	75.60	3,170.2	11.0	-29.0	0.29	0.21	-6.81	25.3	17.9	
3,266.0	2.20	75.20	3,265.2	11.8	-25.8	0.53	0.53	-0.42	21.9	18.0	
3,361.0	3.00	72.70	3,360.1	13.0	-21.7	0.85	0.84	-2.63	16.8	18.9	
3,456.0	2.80	74.90	3,455.0	14.4	-17.1	0.24	-0.21	2.32	12.7	18.3	
3,552.0	1.80	122.70	3,550.9	14.2	-13.5	2.16	-1.04	49.79	19.0	4.6	
3,647.0	1.90	93.70	3,645.8	13.3	-10.7	0.98	0.11	-30.53	11.5	12.5	
3,741.0	1.80	201.60	3,739.8	11.8	-9.7	3.18	-0.11	114.79	7.4	-13.4	
3,836.0	1.60	201.60	3,834.8	9.2	-10.7	0.21	-0.21	0.00	4.6	-13.4	
3,931.0	1.90	210.60	3,929.7	6.6	-12.0	0.43	0.32	9.47	-0.5	-13.7	
4,026.0	1.80	204.70	4,024.7	3.9	-13.5	0.23	-0.11	-6.21	-2.1	-13.8	
4,121.0	0.80	176.40	4,119.7	1.8	-14.0	1.22	-1.05	-29.79	2.7	-13.9	
4,216.0	0.20	216.70	4,214.6	1.0	-14.1	0.70	-0.63	42.42	-7.6	-11.9	
4,310.0	0.70	274.30	4,308.6	1.0	-14.8	0.66	0.53	61.28	-14.8	0.2	
4,406.0	1.00	274.50	4,404.6	1.1	-16.2	0.31	0.31	0.21	-16.2	0.2	
4,501.0	1.10	277.50	4,499.6	1.3	-17.9	0.12	0.11	3.16	-17.9	1.1	
4,596.0	0.50	347.80	4,594.6	1.8	-18.9	1.10	-0.63	74.00	-5.7	18.1	
4,691.0	0.80	177.10	4,689.6	1.5	-19.0	1.36	0.32	-179.68	2.5	-18.9	
4,786.0	2.00	213.20	4,784.6	-0.5	-19.8	1.51	1.26	38.00	-11.3	-16.3	
4,880.0	1.80	197.00	4,878.5	-3.3	-21.2	0.61	-0.21	-17.23	-9.4	-19.3	
4,975.0	2.50	162.50	4,973.5	-6.7	-21.0	1.52	0.74	-36.32	-0.1	-22.0	
5,070.0	3.30	152.30	5,068.3	-11.1	-19.1	1.00	0.84	-10.74	-1.0	-22.1	
5,166.0	2.00	198.60	5,164.2	-15.2	-18.3	2.50	-1.35	48.23	-20.2	-12.5	
5,260.0	1.70	206.40	5,258.2	-18.0	-19.5	0.42	-0.32	8.30	-24.5	-9.3	
5,356.0	1.50	209.90	5,354.2	-20.3	-20.7	0.23	-0.21	3.65	-26.0	-7.0	
5,450.0	1.50	212.50	5,448.1	-22.4	-22.0	0.07	0.00	2.77	-25.7	-4.6	
5,545.0	2.80	232.40	5,543.1	-24.9	-24.5	1.56	1.37	20.95	-25.4	4.8	



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EOG PVA

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Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 21' @ 3332.0usft (Nomac 55)
Site:	Ruby 2 State Com	MD Reference:	KB = 21' @ 3332.0usft (Nomac 55)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 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)	
5,641.0	3.50	232.30	5,638.9	-28.1	-28.7	0.73	0.73	-0.10	-26.8	4.8	
5,736.0	3.30	233.80	5,733.7	-31.5	-33.2	0.23	-0.21	1.58	-28.5	5.5	
5,832.0	3.20	231.70	5,829.6	-34.8	-37.5	0.16	-0.10	-2.19	-30.3	4.5	
5,927.0	3.00	233.30	5,924.5	-37.9	-41.6	0.23	-0.21	1.68	-31.5	5.3	
6,023.0	2.80	234.40	6,020.3	-40.8	-45.5	0.22	-0.21	1.15	-32.3	5.9	
6,117.0	2.70	229.60	6,114.2	-43.6	-49.1	0.27	-0.11	-5.11	-33.4	3.2	
6,212.0	2.50	229.40	6,209.1	-46.4	-52.4	0.21	-0.21	-0.21	-33.9	3.3	
6,307.0	2.40	232.40	6,304.0	-48.9	-55.5	0.17	-0.11	3.16	-34.0	5.2	
6,403.0	2.20	235.90	6,400.0	-51.2	-58.6	0.25	-0.21	3.65	-33.6	7.2	
6,498.0	2.20	229.80	6,494.9	-53.4	-61.5	0.25	0.00	-6.42	-34.0	3.6	
6,593.0	2.20	231.80	6,589.8	-55.7	-64.3	0.08	0.00	2.11	-33.6	4.9	
6,688.0	2.20	231.30	6,684.8	-58.0	-67.2	0.02	0.00	-0.53	-33.5	4.7	
6,783.0	2.20	233.10	6,779.7	-60.2	-70.1	0.07	0.00	1.89	-33.2	5.8	
6,879.0	2.10	228.70	6,875.6	-62.5	-72.9	0.20	-0.10	-4.58	-33.3	3.4	
6,974.0	2.10	234.60	6,970.6	-64.6	-75.6	0.23	0.00	6.21	-32.4	6.8	
7,069.0	1.90	229.30	7,065.5	-66.6	-78.2	0.29	-0.21	-5.58	-32.4	3.9	
7,164.0	1.60	234.70	7,160.4	-68.4	-80.5	0.36	-0.32	5.68	-30.9	6.9	
7,260.0	2.00	233.20	7,256.4	-70.2	-82.9	0.42	0.42	-1.56	-30.2	6.1	
7,355.0	1.60	237.20	7,351.4	-71.9	-85.4	0.44	-0.42	4.21	-28.9	8.0	
7,450.0	1.90	234.60	7,446.3	-73.6	-87.8	0.33	0.32	-2.74	-28.3	6.5	
7,545.0	2.30	229.80	7,541.2	-75.7	-90.5	0.46	0.42	-5.05	-28.4	4.2	
7,641.0	2.10	236.40	7,637.2	-77.9	-93.4	0.34	-0.21	6.87	-27.6	7.4	
7,736.0	2.20	232.50	7,732.1	-80.0	-96.3	0.19	0.11	-4.11	-27.8	5.4	
7,832.0	2.10	228.30	7,828.0	-82.3	-99.1	0.19	-0.10	-4.37	-27.8	3.5	
7,927.0	2.00	229.90	7,923.0	-84.5	-101.7	0.12	-0.11	1.68	-27.3	4.5	
8,022.0	2.10	223.20	8,017.9	-86.8	-104.1	0.27	0.11	-7.05	-27.2	1.8	
8,117.0	0.90	213.80	8,112.9	-88.7	-105.8	1.29	-1.26	-9.89	-26.0	-1.7	



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Ruby 2 State Com
Well: #701H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 21' @ 3332.0usft (Nomac 55)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 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)
8,212.0	1.20	241.30	8,207.9	-89.8	-107.0	0.61	0.32	28.95	-21.8	10.2
8,307.0	2.50	223.50	8,302.8	-91.8	-109.3	1.48	1.37	-18.74	-23.1	3.4
8,402.0	2.40	225.80	8,397.7	-94.7	-112.2	0.15	-0.11	2.42	-23.2	4.9
8,494.0	2.30	222.30	8,489.7	-97.4	-114.8	0.19	-0.11	-3.80	-23.6	4.0
8,589.0	2.10	216.40	8,584.6	-100.2	-117.1	0.32	-0.21	-6.21	-23.8	2.5
8,684.0	1.90	213.60	8,679.5	-102.9	-119.0	0.23	-0.21	-2.95	-23.6	2.5
8,779.0	2.70	231.10	8,774.5	-105.7	-121.6	1.11	0.84	18.42	-21.7	10.1
8,874.0	2.30	228.30	8,869.4	-108.3	-124.8	0.44	-0.42	-2.95	-22.5	9.2
8,968.0	2.00	225.00	8,963.3	-110.7	-127.4	0.35	-0.32	-3.51	-22.8	8.3
9,063.0	2.20	227.60	9,058.2	-113.1	-129.9	0.23	0.21	2.74	-22.0	9.7
9,158.0	2.20	223.30	9,153.2	-115.7	-132.5	0.17	0.00	-4.53	-22.6	8.5
9,254.0	2.10	220.50	9,249.1	-118.4	-134.9	0.15	-0.10	-2.92	-22.8	8.2
9,349.0	1.80	218.10	9,344.0	-120.9	-137.0	0.33	-0.32	-2.53	-22.7	8.1
9,445.0	1.90	227.70	9,440.0	-123.1	-139.1	0.34	0.10	10.00	-20.2	12.4
9,540.0	1.60	215.50	9,534.9	-125.3	-141.0	0.50	-0.32	-12.84	-21.6	8.6
9,635.0	1.00	232.50	9,629.9	-126.9	-142.4	0.74	-0.63	17.89	-16.4	15.0
9,730.0	1.70	274.30	9,724.9	-127.3	-144.5	1.23	0.74	44.00	-1.4	20.1
9,821.0	1.80	315.10	9,815.9	-126.1	-146.8	1.34	0.11	44.84	10.1	13.4
9,916.0	2.40	286.70	9,910.8	-124.5	-149.8	1.25	0.63	-29.89	1.5	12.8
10,010.0	2.70	294.00	10,004.7	-123.0	-153.7	0.47	0.32	7.77	0.7	9.4
10,105.0	3.60	291.10	10,099.6	-121.1	-158.5	0.96	0.95	-3.05	-2.9	6.1
10,200.0	3.70	275.10	10,194.4	-119.7	-164.4	1.07	0.11	-16.84	-7.6	1.7
10,295.0	4.70	276.00	10,289.1	-119.0	-171.3	1.05	1.05	0.95	-11.8	-0.8
10,390.0	4.10	236.70	10,383.9	-120.5	-178.0	3.17	-0.63	-41.37	-11.2	-10.8
10,486.0	4.30	220.90	10,479.6	-125.1	-183.2	1.22	0.21	-16.46	-11.0	-13.5
10,581.0	2.60	193.00	10,574.4	-129.9	-186.0	2.47	-1.79	-29.37	-5.7	-16.3
10,677.0	2.30	183.00	10,670.3	-133.9	-186.6	0.54	-0.31	-10.42	-4.4	-14.5



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 21' @ 3332.0usft (Nomac 55)
Site:	Ruby 2 State Com	MD Reference:	KB = 21' @ 3332.0usft (Nomac 55)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 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)	
10,772.0	2.20	190.70	10,765.3	-137.6	-187.1	0.33	-0.11	8.11	-7.2	-11.0	
10,867.0	2.00	181.80	10,860.2	-141.1	-187.5	0.40	-0.21	-9.37	-6.4	-9.2	
10,962.0	2.10	220.50	10,955.1	-144.1	-188.6	1.43	0.11	40.74	-10.1	-1.3	
11,056.0	1.70	232.90	11,049.1	-146.2	-190.9	0.61	-0.43	13.19	-9.4	1.2	
11,152.0	1.00	221.10	11,145.1	-147.7	-192.6	0.78	-0.73	-12.29	-7.9	-0.2	
11,246.0	3.70	232.80	11,239.0	-150.2	-195.5	2.90	2.87	12.45	-7.9	1.6	
11,342.0	3.30	229.60	11,334.8	-153.8	-200.1	0.46	-0.42	-3.33	-10.0	1.2	
11,437.0	2.70	232.80	11,429.7	-156.9	-204.0	0.66	-0.63	3.37	-11.0	1.9	
11,483.0	2.50	231.70	11,475.6	-158.2	-205.6	0.45	-0.43	-2.39	-11.3	1.7	
11,610.0	1.30	231.50	11,602.6	-160.8	-208.9	0.94	-0.94	-0.16	-10.4	1.7	
11,705.0	0.50	298.50	11,697.5	-161.3	-210.1	1.26	-0.84	70.53	-1.7	7.8	
11,800.0	2.20	22.50	11,792.5	-159.4	-209.8	2.32	1.79	88.42	2.4	1.0	
11,895.0	1.70	45.20	11,887.5	-156.7	-208.1	0.96	-0.53	23.89	-4.3	0.2	
11,990.0	1.20	38.70	11,982.4	-155.0	-206.5	0.55	-0.53	-6.84	-10.4	-1.4	
12,085.0	1.40	37.30	12,077.4	-153.3	-205.1	0.21	0.21	-1.47	-16.2	-2.7	
12,179.0	1.80	11.60	12,171.4	-150.9	-204.1	0.86	0.43	-27.34	-18.8	-12.4	
12,224.0	1.60	345.20	12,216.4	-149.6	-204.2	1.78	-0.44	-58.67	-13.2	-21.5	
12,268.0	1.60	339.60	12,260.3	-148.4	-204.5	0.36	0.00	-12.73	-12.8	-24.4	
12,316.0	7.30	331.40	12,308.2	-145.1	-206.2	11.92	11.87	-17.08	-13.0	-28.0	
12,363.0	13.30	338.90	12,354.4	-137.5	-209.6	13.05	12.77	15.96	-22.5	-26.4	
12,411.0	18.40	336.90	12,400.6	-125.3	-214.6	10.68	10.62	-4.17	-27.8	-25.9	
12,457.0	22.50	336.40	12,443.6	-110.6	-220.9	8.92	8.91	-1.09	-32.9	-22.7	
12,505.0	28.80	338.40	12,486.9	-91.4	-228.9	13.25	13.12	4.17	-38.6	-16.2	
12,552.0	34.20	342.70	12,527.0	-68.2	-237.0	12.44	11.49	9.15	-43.9	-7.5	
12,599.0	39.90	349.80	12,564.5	-40.8	-243.6	15.15	12.13	15.11	-47.8	2.3	
12,647.0	43.90	355.10	12,600.2	-9.0	-247.7	11.12	8.33	11.04	-49.6	8.5	
12,695.0	50.70	0.70	12,632.7	26.2	-248.9	16.55	14.17	11.67	-50.3	11.7	



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 21' @ 3332.0usft (Nomac 55)
Site:	Ruby 2 State Com	MD Reference:	KB = 21' @ 3332.0usft (Nomac 55)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 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)
12,742.0	57.20	1.30	12,660.4	64.2	-248.3	13.87	13.83	1.28	-51.8	9.9
12,789.0	59.90	0.60	12,684.9	104.3	-247.6	5.88	5.74	-1.49	-52.1	7.6
12,793.4	60.19	0.47	12,687.1	108.1	-247.6	7.14	6.65	-3.00	-51.9	7.4
HL Crossing, MD:12793.4', TVD:12687.1', N/S:108.1', E/W:-247.6', INC:60.19										
12,837.0	63.10	359.20	12,707.8	146.4	-247.7	7.14	6.67	-2.91	-49.4	6.0
12,869.0	65.80	358.90	12,721.6	175.3	-248.2	8.48	8.44	-0.94	-46.3	5.8
12,872.0	66.10	359.30	12,722.8	178.0	-248.2	15.76	10.00	13.33	-45.9	5.9
12,920.0	72.10	358.40	12,740.0	222.8	-249.1	12.62	12.50	-1.87	-40.4	5.9
12,967.0	73.50	358.80	12,753.9	267.7	-250.2	3.09	2.98	0.85	-32.9	6.6
13,014.0	75.20	359.40	12,766.5	313.0	-250.9	3.82	3.62	1.28	-21.9	7.0
13,062.0	77.20	0.70	12,778.0	359.6	-250.9	4.93	4.17	2.71	-10.1	6.4
13,110.0	79.50	1.20	12,787.7	406.6	-250.1	4.90	4.79	1.04	-0.1	5.1
13,158.0	82.70	2.10	12,795.1	454.0	-248.7	6.92	6.67	1.87	7.6	3.4
13,205.0	85.70	1.90	12,799.8	500.7	-247.1	6.40	6.38	-0.43	12.7	1.4
13,253.0	88.90	2.40	12,802.1	548.6	-245.3	6.75	6.67	1.04	15.3	-0.8
13,346.0	92.80	1.80	12,800.7	641.5	-241.9	4.24	4.19	-0.65	14.6	-5.0
13,441.0	94.50	2.00	12,794.7	736.3	-238.8	1.80	1.79	0.21	9.2	-9.0
13,536.0	93.40	1.10	12,788.1	831.0	-236.2	1.49	-1.16	-0.95	3.4	-12.3
13,631.0	90.20	358.50	12,785.2	926.0	-236.5	4.34	-3.37	-2.74	1.1	-12.8
13,727.0	90.90	358.60	12,784.2	1,021.9	-239.0	0.74	0.73	0.10	0.9	-11.2
13,822.0	91.20	358.00	12,782.5	1,116.9	-241.8	0.71	0.32	-0.63	-0.2	-9.1
13,917.0	91.30	0.50	12,780.4	1,211.8	-243.0	2.63	0.11	2.63	-1.6	-8.7
14,012.0	91.70	358.90	12,777.9	1,306.8	-243.5	1.74	0.42	-1.68	-3.4	-9.0
14,106.0	92.00	1.50	12,774.9	1,400.7	-243.2	2.78	0.32	2.77	-5.7	-10.1
14,201.0	91.90	3.50	12,771.7	1,495.6	-239.0	2.11	-0.11	2.11	-8.3	-15.1
14,295.0	90.70	3.50	12,769.5	1,589.4	-233.3	1.28	-1.28	0.00	-9.7	-21.6
14,389.0	90.70	2.20	12,768.4	1,683.2	-228.6	1.38	0.00	-1.38	-10.2	-27.0



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 21' @ 3332.0usft (Nomac 55)
Site:	Ruby 2 State Corn	MD Reference:	KB = 21' @ 3332.0usft (Nomac 55)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 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)	
14,484.0	89.40	0.60	12,768.3	1,778.2	-226.3	2.17	-1.37	-1.68	-9.6	-30.1	
14,579.0	91.10	0.30	12,767.9	1,873.2	-225.6	1.82	1.79	-0.32	-9.4	-31.7	
14,674.0	92.20	356.50	12,765.1	1,968.1	-228.2	4.16	1.16	-4.00	-11.5	-29.8	
14,769.0	91.40	351.40	12,762.2	2,062.5	-238.2	5.43	-0.84	-5.37	-14.0	-20.5	
14,864.0	90.90	350.80	12,760.3	2,156.3	-252.9	0.82	-0.53	-0.63	-15.1	-6.6	
14,959.0	91.70	357.10	12,758.1	2,250.7	-262.9	6.68	0.84	6.63	-16.6	2.5	
15,054.0	92.30	358.30	12,754.8	2,345.6	-266.7	1.41	0.63	1.26	-19.3	5.5	
15,149.0	93.40	359.00	12,750.1	2,440.5	-269.0	1.37	1.16	0.74	-23.4	7.0	
15,244.0	90.70	358.80	12,746.7	2,535.4	-270.8	2.85	-2.84	-0.21	-26.2	8.0	
15,338.0	90.80	359.90	12,745.4	2,629.4	-271.9	1.17	0.11	1.17	-26.8	8.3	
15,432.0	89.80	358.40	12,744.9	2,723.3	-273.3	1.92	-1.06	-1.60	-26.7	8.9	
15,528.0	91.00	359.60	12,744.3	2,819.3	-274.9	1.77	1.25	1.25	-26.8	9.7	
15,623.0	90.40	1.40	12,743.1	2,914.3	-274.1	2.00	-0.63	1.89	-27.4	8.1	
15,718.0	90.40	3.50	12,742.4	3,009.2	-270.0	2.21	0.00	2.21	-27.4	3.2	
15,813.0	91.80	0.90	12,740.6	3,104.1	-266.4	3.11	1.47	-2.74	-28.2	-1.2	
15,907.0	92.40	357.70	12,737.2	3,198.0	-267.5	3.46	0.64	-3.40	-30.6	-0.8	
16,003.0	90.60	357.10	12,734.7	3,293.9	-271.9	1.98	-1.87	-0.62	-32.1	2.8	
16,098.0	90.70	356.00	12,733.6	3,388.7	-277.6	1.16	0.11	-1.16	-32.1	7.7	
16,193.0	91.20	355.50	12,732.0	3,483.4	-284.6	0.74	0.53	-0.53	-32.6	13.9	
16,288.0	91.30	355.70	12,729.9	3,578.1	-291.9	0.24	0.11	0.21	-33.7	20.4	
16,383.0	90.10	357.60	12,728.8	3,673.0	-297.5	2.37	-1.26	2.00	-33.8	25.2	
16,478.0	90.60	4.20	12,728.2	3,767.9	-296.0	6.97	0.53	6.95	-33.4	22.8	
16,573.0	89.80	1.50	12,727.9	3,862.8	-291.3	2.96	-0.84	-2.84	-32.7	17.3	
16,605.0	89.40	0.20	12,728.1	3,894.8	-290.8	4.25	-1.25	-4.06	-32.1	16.6	
16,637.0	89.30	359.70	12,728.4	3,926.8	-290.8	1.59	-0.31	-1.56	-31.4	16.4	
16,668.0	89.90	359.40	12,728.7	3,957.8	-291.1	2.16	1.94	-0.97	-30.8	16.4	
16,700.0	89.10	357.10	12,728.9	3,989.7	-292.0	7.61	-2.50	-7.19	-30.2	17.1	



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland					Local Co-ordinate Reference:		Well #701H		
Project:	Lea County, NM (NAD 27 NME)					TVD Reference:		KB = 21' @ 3332.0usft (Nomac 55)		
Site:	Ruby 2 State Com					MD Reference:		KB = 21' @ 3332.0usft (Nomac 55)		
Well:	#701H					North Reference:		Grid		
Wellbore:	OH					Survey Calculation Method:		Minimum Curvature		
Design:	OH					Database:		EDM 5000.1 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)
16,732.0	89.90	357.40	12,729.2	4,021.7	-293.6	2.67	2.50	0.94	-29.6	18.3
16,764.0	90.60	356.80	12,729.1	4,053.7	-295.2	2.88	2.19	-1.87	-29.3	19.7
16,795.0	88.90	354.10	12,729.2	4,084.6	-297.7	10.29	-5.48	-8.71	-28.9	21.8
16,827.0	90.10	354.70	12,729.5	4,116.4	-300.8	4.19	3.75	1.87	-28.3	24.7
16,858.0	90.60	354.70	12,729.3	4,147.3	-303.6	1.61	1.61	0.00	-28.1	27.3
16,890.0	89.80	352.90	12,729.2	4,179.1	-307.1	6.16	-2.50	-5.62	-28.0	30.4
16,916.0	89.40	349.70	12,729.4	4,204.8	-311.0	12.40	-1.54	-12.31	-27.7	34.0
16,948.0	90.20	349.90	12,729.5	4,236.3	-316.7	2.58	2.50	0.62	-27.2	39.5
16,979.0	90.10	352.70	12,729.4	4,266.9	-321.4	9.04	-0.32	9.03	-26.8	44.0
17,011.0	91.00	355.40	12,729.1	4,298.7	-324.7	8.89	2.81	8.44	-26.6	47.1
17,043.0	91.10	357.00	12,728.5	4,330.7	-326.8	5.01	0.31	5.00	-26.9	49.0
17,074.0	90.50	357.90	12,728.1	4,361.6	-328.2	3.49	-1.94	2.90	-27.0	50.1
17,106.0	89.80	1.50	12,728.0	4,393.6	-328.4	11.46	-2.19	11.25	-26.7	50.0
17,138.0	91.30	6.40	12,727.7	4,425.5	-326.2	16.01	4.69	15.31	-26.9	47.4
17,169.0	91.70	8.60	12,726.9	4,456.2	-322.1	7.21	1.29	7.10	-27.6	43.0
17,201.0	92.20	10.30	12,725.8	4,487.8	-316.9	5.53	1.56	5.31	-28.4	37.3
17,233.0	90.40	9.60	12,725.1	4,519.3	-311.3	6.04	-5.62	-2.19	-28.6	31.7
17,264.0	88.90	7.90	12,725.3	4,549.9	-306.6	7.31	-4.84	-5.48	-27.9	26.8
17,296.0	89.60	9.60	12,725.7	4,581.6	-301.8	5.74	2.19	5.31	-27.2	21.6
17,328.0	91.20	10.30	12,725.5	4,613.1	-296.2	5.46	5.00	2.19	-27.0	15.7
17,419.0	89.40	6.00	12,725.0	4,703.1	-283.3	5.12	-1.98	-4.73	-26.4	2.3
Last MWD Survey										
17,443.2	89.40	6.00	12,725.2	4,727.2	-280.8	0.00	0.00	0.00	-25.9	-0.4
HL Crossing, MD:17443.2', TVD:12725.2', N/S:4727.2', E/W:-280.8', INC:89.40										
17,530.0	89.40	6.00	12,726.1	4,813.5	-271.7	0.00	0.00	0.00	-24.0	-10.1
Projection To Bit										



EOG Resources, Inc.

EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 21' @ 3332.0usft (Nomac 55)
Site:	Ruby 2 State Com	MD Reference:	KB = 21' @ 3332.0usft (Nomac 55)
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

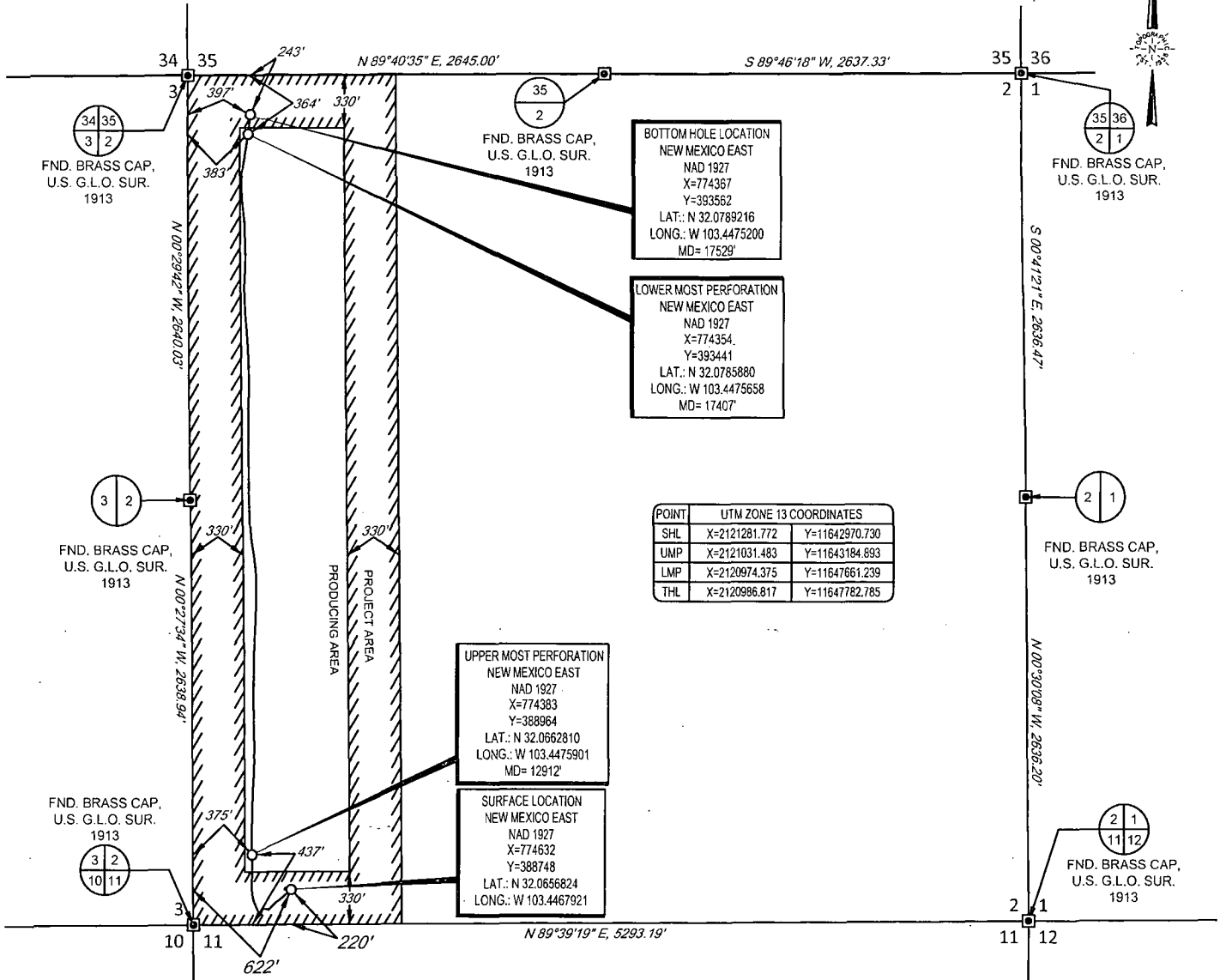
Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,793.4	12,687.1	108.1	-247.6	HL Crossing, MD:12793.4', TVD:12687.1', N/S:108.1', E/W:-247.6', INC:60.19
17,419.0	12,725.0	4,703.1	-283.3	Last MWD Survey
17,443.2	12,725.2	4,727.2	-280.8	HL Crossing, MD:17443.2', TVD:12725.2', N/S:4727.2', E/W:-280.8', INC:89.40
17,530.0	12,726.1	4,813.5	-271.7	Projection To Bit

Checked By: _____	Approved By: _____	Date: _____
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SCALE: 1" = 1000'

0' 500' 1000'

SECTION 2, TOWNSHIP 26-S, RANGE 34-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



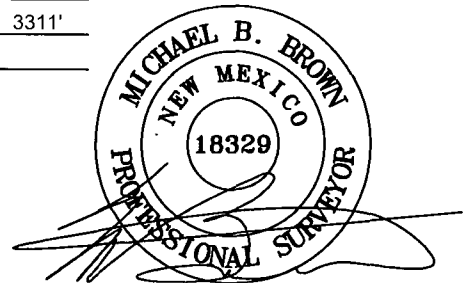
LEASE NAME & WELL NO.: RUBY 2 STATE COM #701H
SECTION 2 TWP 26-S RGE 34-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3311'
DESCRIPTION 220' FSL & 622' FWL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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MAY 6, 2015

RUBY 2 STATE COM #701H AS-COMPLETED	REVISION:
DATE: 05/06/15	
FILE: AD_RUBY2STATECOM_701H	
DRAWN BY: G.J.U.	
SHEET: 1 OF 1	

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
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