



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Black Bear 36 State

#703H

OH

Design: OH

EOG PVA

25 March, 2016

HOBBS OCD
OCT 11 2016
RECEIVED



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #703H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3350.0usft (Precision #612)
Site:	Black Bear 36 State	MD Reference:	KB = 25 @ 3350.0usft (Precision #612)
Well:	#703H	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)		
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	Black Bear 36 State		
Site Position:		Northing:	398,659.00 usft
From:	Map	Easting:	750,659.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 5' 36.397 N
		Longitude:	103° 31' 26.155 W
		Grid Convergence:	0.43 °

Well	#703H					
Well Position	+N-S	0.0 usft	Northing:	398,669.00 usft	Latitude:	32° 5' 36.390 N
	+E-W	0.0 usft	Easting:	752,082.00 usft	Longitude:	103° 31' 9.613 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,325.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/2/2016	7.07	59.97	48,008

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	183.51	

Survey Program	Date	3/25/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
115.1	17,355.0	PDI MWD #1 (OH)	MWD	MWD - Standard



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Black Bear 36 State
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3350.0usft (Precision #612)
MD Reference: KB = 25 @ 3350.0usft (Precision #612)
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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	
115.1	0.13	65.57	115.1	0.1	0.1	0.11	0.11	0.00	-0.1	0.0	
207.3	0.27	104.75	207.3	0.0	0.4	0.20	0.15	42.49	-0.4	0.1	
299.5	0.37	109.08	299.5	-0.1	0.9	0.11	0.11	4.70	-0.9	0.2	
391.7	0.41	126.27	391.7	-0.4	1.5	0.13	0.04	18.64	-1.4	0.5	
483.9	0.37	130.33	483.9	-0.8	2.0	0.05	-0.04	4.40	-2.0	0.7	
576.2	0.29	115.03	576.2	-1.1	2.4	0.13	-0.09	-16.59	-2.6	0.0	
668.4	0.20	102.53	668.4	-1.2	2.8	0.11	-0.10	-13.56	-3.0	-0.6	
760.6	0.18	83.06	760.6	-1.2	3.1	0.07	-0.02	-21.11	-2.9	-1.6	
852.8	0.35	88.75	852.8	-1.2	3.5	0.19	0.18	6.17	-3.5	-1.3	
945.0	0.43	89.32	945.0	-1.2	4.1	0.09	0.09	0.62	-4.1	-1.2	
1,037.2	0.57	104.74	1,037.2	-1.3	4.9	0.21	0.15	16.72	-5.1	0.0	
1,072.0	0.49	100.81	1,072.0	-1.4	5.2	0.25	-0.23	-11.30	-5.4	-0.4	
1,149.0	0.88	71.66	1,149.0	-1.3	6.1	0.66	0.51	-37.86	-5.4	-3.1	
1,336.0	2.20	324.08	1,335.9	2.1	5.4	1.39	0.71	-57.53	2.3	-6.0	
1,522.0	2.81	332.52	1,521.8	9.0	1.2	0.38	0.33	4.54	-2.8	-8.0	
1,708.0	4.04	315.47	1,707.4	17.8	-5.5	0.85	0.66	-9.17	-3.5	-11.8	
1,895.0	4.40	298.07	1,893.9	25.8	-16.5	0.71	0.19	-9.30	-1.5	-13.7	
2,081.0	4.84	291.03	2,079.3	32.0	-30.1	0.39	0.24	-3.78	-2.0	-12.4	
2,267.0	4.13	291.56	2,264.7	37.3	-43.7	0.38	-0.38	0.28	-3.9	-10.1	
2,454.0	3.52	294.20	2,451.3	42.1	-55.2	0.34	-0.33	1.41	-3.9	-8.0	
2,641.0	2.90	299.65	2,638.0	46.8	-64.5	0.37	-0.33	2.91	-2.1	-6.7	
2,827.0	4.31	316.35	2,823.7	54.2	-73.4	0.94	0.76	8.98	-2.9	-7.9	
3,013.0	3.96	316.52	3,009.2	63.9	-82.7	0.19	-0.19	0.09	-3.8	-11.3	
3,199.0	3.78	331.64	3,194.8	74.0	-90.0	0.56	-0.10	8.13	-7.8	-14.8	
3,386.0	3.08	322.50	3,381.4	83.4	-96.0	0.47	-0.37	-4.89	-4.3	-21.6	
3,573.0	3.43	298.94	3,568.1	90.1	-103.9	0.73	0.19	-12.60	7.5	-23.1	



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #703H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3350.0usft (Precision #612)
Site:	Black Bear 36 State	MD Reference:	KB = 25 @ 3350.0usft (Precision #612)
Well:	#703H	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)	
3,760.0	5.45	288.22	3,754.6	95.5	-117.3	1.16	1.08	-5.73	9.9	-19.4	
3,946.0	4.31	295.25	3,939.9	101.3	-132.0	0.69	-0.61	3.78	4.6	-18.1	
4,133.0	3.61	295.25	4,126.4	106.8	-143.7	0.37	-0.37	0.00	4.7	-16.7	
4,319.0	5.28	286.99	4,311.9	111.8	-157.1	0.96	0.90	-4.44	5.2	-13.6	
4,505.0	2.90	293.32	4,497.4	116.2	-169.6	1.30	-1.28	3.40	3.3	-11.3	
4,692.0	3.34	284.18	4,684.1	119.4	-179.3	0.35	0.24	-4.89	7.4	-7.6	
4,878.0	3.52	283.48	4,869.8	122.0	-190.1	0.10	0.10	-0.38	8.8	-3.7	
5,065.0	5.98	297.19	5,056.1	127.8	-204.3	1.44	1.32	7.33	5.3	-3.4	
5,251.0	5.45	298.77	5,241.2	136.5	-220.7	0.30	-0.28	0.85	-0.4	-2.7	
5,438.0	5.28	296.48	5,427.4	144.6	-236.2	0.15	-0.09	-1.22	-4.8	-2.0	
5,625.0	4.75	299.82	5,613.7	152.3	-250.6	0.32	-0.28	1.79	-8.2	-0.9	
5,812.0	4.48	297.89	5,800.1	159.6	-263.8	0.17	-0.14	-1.03	-10.2	-0.7	
5,998.0	4.31	299.82	5,985.5	166.4	-276.3	0.12	-0.09	1.04	-11.5	0.2	
6,183.0	3.96	301.23	6,170.0	173.2	-287.7	0.20	-0.19	0.76	-12.0	0.6	
6,370.0	3.34	299.12	6,356.7	179.2	-298.0	0.34	-0.33	-1.13	-10.8	0.4	
6,557.0	2.99	299.47	6,543.4	184.2	-307.0	0.19	-0.19	0.19	-8.1	0.9	
6,744.0	2.73	298.07	6,730.1	188.7	-315.2	0.14	-0.14	-0.75	-4.5	1.2	
6,931.0	2.46	308.44	6,916.9	193.3	-322.3	0.29	-0.14	5.55	0.2	1.2	
7,117.0	2.37	302.81	7,102.8	197.9	-328.6	0.14	-0.05	-3.03	0.7	0.6	
7,304.0	1.58	298.07	7,289.7	201.2	-334.2	0.43	-0.42	-2.53	-3.4	0.4	
7,491.0	2.99	270.82	7,476.5	202.5	-341.3	0.93	0.75	-14.57	-10.3	-2.3	
7,677.0	1.76	251.66	7,662.4	201.7	-348.9	0.78	-0.66	-10.30	-16.4	-7.2	
7,864.0	1.49	255.88	7,849.3	200.2	-354.0	0.16	-0.14	2.26	-22.2	-5.8	
8,049.0	0.44	162.71	8,034.3	198.9	-356.1	0.85	-0.57	-50.36	6.4	-24.3	
8,235.0	0.26	241.29	8,220.3	198.0	-356.2	0.25	-0.10	42.25	-23.1	-10.4	
8,422.0	0.53	96.27	8,407.3	197.7	-355.8	0.41	0.14	-77.55	24.4	-5.0	
8,608.0	0.62	107.69	8,593.3	197.3	-353.9	0.08	0.05	6.14	21.0	-9.5	



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #703H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3350.0usft (Precision #612)
Site:	Black Bear 36 State	MD Reference:	KB = 25 @ 3350.0usft (Precision #612)
Well:	#703H	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)	
8,795.0	0.79	141.27	8,780.2	196.0	-352.2	0.23	0.09	17.96	10.1	-19.0	
8,982.0	0.62	143.03	8,967.2	194.2	-350.8	0.09	-0.09	0.94	7.2	-19.3	
9,169.0	0.18	142.32	9,154.2	193.1	-350.0	0.24	-0.24	-0.38	6.2	-19.2	
9,356.0	0.44	108.75	9,341.2	192.7	-349.1	0.16	0.14	-17.95	14.8	-12.7	
9,543.0	0.18	271.70	9,528.2	192.5	-348.7	0.33	-0.14	87.14	-17.5	8.1	
9,730.0	0.44	334.45	9,715.2	193.1	-349.3	0.21	0.14	33.56	-1.7	19.5	
9,916.0	0.79	193.83	9,901.2	192.5	-349.9	0.63	0.19	-75.60	-11.8	-16.6	
10,101.0	0.79	249.02	10,086.2	190.8	-351.4	0.40	0.00	29.83	-22.4	1.3	
10,288.0	1.85	229.51	10,273.1	188.4	-354.9	0.61	0.57	-10.43	-25.7	-6.7	
10,474.0	0.97	258.69	10,459.1	186.1	-358.8	0.60	-0.47	15.69	-29.9	8.1	
10,661.0	1.06	208.59	10,646.1	184.3	-361.1	0.46	0.05	-26.79	-28.2	-19.0	
10,789.0	0.97	206.13	10,774.0	182.3	-362.2	0.08	-0.07	-1.92	-29.6	-20.2	
10,947.0	1.23	162.36	10,932.0	179.5	-362.3	0.54	0.16	-27.70	-10.1	-36.0	
11,133.0	0.62	195.76	11,118.0	176.6	-361.9	0.42	-0.33	17.96	-30.9	-23.4	
11,319.0	1.93	168.34	11,303.9	172.6	-361.6	0.76	0.70	-14.74	-20.7	-35.5	
11,506.0	0.88	90.64	11,490.9	169.5	-359.5	1.04	-0.56	-41.55	28.1	-30.8	
11,691.0	2.11	245.51	11,675.9	168.0	-361.2	1.58	0.66	83.71	-40.7	16.6	
11,877.0	2.20	339.37	11,861.8	170.0	-365.5	1.69	0.05	50.46	15.9	42.9	
12,064.0	2.55	16.11	12,048.6	177.3	-365.7	0.82	0.19	19.65	31.4	27.0	
12,157.0	3.61	144.26	12,141.6	176.9	-363.4	5.98	1.14	137.80	0.2	-39.7	
12,203.0	10.29	158.49	12,187.2	171.9	-361.0	14.89	14.52	30.93	-12.2	-37.0	
12,250.0	17.76	163.07	12,232.8	161.2	-357.4	16.06	15.89	9.74	-19.0	-33.1	
12,297.0	25.24	168.69	12,276.5	144.4	-353.3	16.49	15.91	11.96	-27.0	-28.0	
12,343.0	29.81	170.10	12,317.3	123.6	-349.4	10.03	9.93	3.07	-32.6	-24.1	
12,390.0	32.89	171.50	12,357.4	99.4	-345.5	6.73	6.55	2.98	-36.4	-19.8	
12,436.0	37.02	173.26	12,395.1	73.3	-342.1	9.24	8.98	3.83	-38.0	-15.4	
12,483.0	41.94	174.67	12,431.3	43.6	-338.9	10.64	10.47	3.00	-38.2	-11.5	



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Black Bear 36 State
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3350.0usft (Precision #612)
MD Reference: KB = 25 @ 3350.0usft (Precision #612)
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)	
12,529.0	49.07	179.94	12,463.6	10.9	-337.5	17.51	15.50	11.46	-38.4	-7.7	
12,576.0	57.51	181.17	12,491.6	-26.8	-337.9	18.08	17.96	2.62	-39.6	-7.9	
12,622.0	59.53	180.47	12,515.7	-66.0	-338.4	4.58	4.39	-1.52	-39.9	-9.1	
12,669.0	61.64	179.59	12,538.7	-106.9	-338.5	4.78	4.49	-1.87	-36.8	-9.7	
12,675.9	62.42	179.39	12,542.0	-113.1	-338.4	11.60	11.32	-2.84	-36.2	-9.7	
FTP(BkBear 36 ST #703H)											
12,714.0	66.74	178.36	12,558.3	-147.4	-337.7	11.60	11.34	-2.71	-32.1	-9.5	
12,761.0	73.16	178.01	12,574.4	-191.5	-336.3	13.68	13.66	-0.74	-27.2	-8.3	
12,808.0	77.91	179.06	12,586.2	-237.0	-335.2	10.34	10.11	2.23	-22.0	-7.4	
12,855.0	81.43	179.76	12,594.6	-283.3	-334.7	7.63	7.49	1.49	-15.3	-7.2	
12,935.0	89.25	180.12	12,601.1	-362.9	-334.6	9.79	9.77	0.45	-9.0	-7.7	
13,028.0	90.66	180.29	12,601.2	-455.9	-334.9	1.53	1.52	0.18	-9.1	-8.7	
13,121.0	89.34	177.48	12,601.2	-548.9	-333.1	3.34	-1.42	-3.02	-9.3	-7.5	
13,213.0	90.75	178.36	12,601.1	-640.8	-329.8	1.81	1.53	0.96	-9.5	-4.8	
13,307.0	91.54	178.36	12,599.2	-734.8	-327.1	0.84	0.84	0.00	-11.5	-2.8	
13,399.0	92.42	178.53	12,596.0	-826.7	-324.6	0.97	0.96	0.18	-14.9	-1.0	
13,492.0	89.96	179.59	12,594.1	-919.6	-323.1	2.88	-2.65	1.14	-16.9	-0.1	
13,585.0	90.57	180.82	12,593.7	-1,012.6	-323.4	1.48	0.66	1.32	-17.5	-1.1	
13,678.0	90.48	184.33	12,592.8	-1,105.5	-327.6	3.78	-0.10	3.77	-18.5	-6.0	
13,771.0	87.49	190.66	12,594.5	-1,197.7	-339.7	7.53	-3.22	6.81	-17.3	-18.5	
13,864.0	82.04	182.93	12,603.0	-1,289.5	-350.7	10.14	-5.86	-8.31	-8.9	-30.3	
13,957.0	85.91	175.37	12,612.7	-1,381.9	-349.3	9.09	4.16	-8.13	1.1	-29.7	
14,050.0	91.01	173.61	12,615.2	-1,474.4	-340.4	5.80	5.48	-1.89	3.2	-21.4	
14,060.6	91.38	174.05	12,615.0	-1,484.9	-339.2	5.43	3.50	4.15	3.0	-20.3	
TGT#1(BkBear 36 ST #703H)											
14,143.0	94.26	177.48	12,611.0	-1,567.0	-333.2	5.43	3.49	4.16	-1.2	-14.9	
14,237.0	91.19	180.12	12,606.5	-1,660.8	-331.2	4.31	-3.27	2.81	-5.9	-13.6	



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Black Bear 36 State
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3350.0usft (Precision #612)
MD Reference: KB = 25 @ 3350.0usft (Precision #612)
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)
14,330.0	89.96	179.76	12,605.6	-1,753.8	-331.1	1.38	-1.32	-0.39	-7.0	-14.1
14,423.0	85.91	175.55	12,608.9	-1,846.7	-327.3	6.28	-4.35	-4.53	-3.8	-11.0
14,516.0	89.69	177.13	12,612.5	-1,939.4	-321.4	4.40	4.06	1.70	-0.4	-5.7
14,609.0	89.69	176.78	12,613.0	-2,032.3	-316.4	0.38	0.00	-0.38	-0.1	-1.5
14,703.0	89.16	176.42	12,613.9	-2,126.1	-310.9	0.68	-0.56	-0.38	0.6	3.4
14,797.0	88.72	174.84	12,615.7	-2,219.8	-303.7	1.74	-0.47	-1.68	2.2	9.9
14,891.0	89.69	177.48	12,617.0	-2,313.6	-297.4	2.99	1.03	2.81	3.3	15.5
14,984.0	90.22	179.94	12,617.0	-2,406.5	-295.3	2.71	0.57	2.65	3.2	17.0
15,077.0	88.99	183.63	12,617.7	-2,499.5	-298.2	4.18	-1.32	3.97	3.7	13.4
15,171.0	90.40	187.32	12,618.2	-2,593.0	-307.2	4.20	1.50	3.93	4.0	3.7
15,265.0	84.50	185.21	12,622.4	-2,686.3	-317.4	6.66	-6.28	-2.24	7.9	-7.2
15,358.0	87.05	182.23	12,629.2	-2,778.8	-323.4	4.21	2.74	-3.20	14.6	-13.9
15,451.0	88.72	181.17	12,632.7	-2,871.7	-326.2	2.13	1.80	-1.14	17.9	-17.3
15,543.0	90.31	179.94	12,633.4	-2,963.7	-327.1	2.18	1.73	-1.34	18.5	-18.8
15,566.8	91.03	179.49	12,633.2	-2,987.6	-327.0	3.56	3.02	-1.89	18.2	-18.9
TGT#2(BkBear 36 ST #703H)										
15,636.0	93.12	178.18	12,630.7	-3,056.7	-325.5	3.56	3.02	-1.89	15.5	-18.0
15,730.0	88.81	178.53	12,629.1	-3,150.6	-322.9	4.60	-4.59	0.37	13.8	-15.9
15,822.0	88.29	177.83	12,631.4	-3,242.5	-319.9	0.95	-0.57	-0.76	16.0	-13.7
15,916.0	85.30	177.30	12,636.7	-3,336.3	-315.9	3.23	-3.18	-0.56	21.1	-10.4
16,009.0	88.81	177.48	12,641.4	-3,429.0	-311.7	3.78	3.77	0.19	25.7	-6.8
16,102.0	87.93	176.78	12,644.1	-3,521.9	-307.1	1.21	-0.95	-0.75	28.2	-2.8
16,195.0	89.96	178.01	12,645.8	-3,614.8	-302.8	2.55	2.18	1.32	29.8	0.7
16,289.0	91.45	177.48	12,644.6	-3,708.7	-299.1	1.68	1.59	-0.56	28.4	3.7
16,382.0	89.87	177.13	12,643.6	-3,801.6	-294.8	1.74	-1.70	-0.38	27.2	7.4
16,476.0	88.11	178.53	12,645.2	-3,895.5	-291.2	2.39	-1.87	1.49	28.7	10.3
16,570.0	88.11	178.89	12,648.3	-3,989.4	-289.1	0.38	0.00	0.38	31.7	11.8



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Black Bear 36 State
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3350.0usft (Precision #612)
MD Reference: KB = 25 @ 3350.0usft (Precision #612)
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)	
16,663.0	86.70	179.24	12,652.5	-4,082.3	-287.6	1.56	-1.52	0.38	35.7	12.6	
16,757.0	87.93	179.76	12,656.9	-4,176.2	-286.8	1.42	1.31	0.55	40.0	12.8	
16,850.0	87.67	179.06	12,660.5	-4,269.1	-285.8	0.80	-0.28	-0.75	43.4	13.1	
16,943.0	94.18	181.35	12,659.0	-4,362.0	-286.1	7.42	7.00	2.46	41.7	12.1	
17,036.0	92.33	181.35	12,653.7	-4,454.9	-288.3	1.99	-1.99	0.00	36.3	9.2	
17,129.0	91.71	181.87	12,650.4	-4,547.8	-290.9	0.87	-0.67	0.56	32.9	5.9	
17,223.0	87.23	179.41	12,651.3	-4,641.7	-292.0	5.44	-4.77	-2.62	33.6	4.2	
17,288.0	88.11	179.59	12,654.0	-4,706.7	-291.4	1.38	1.35	0.28	36.1	4.3	
Last MWD Survey											
17,355.0	88.11	179.59	12,656.2	-4,773.6	-290.9	0.00	0.00	0.00	38.2	4.3	
Projection To Bit - PBHL(BkBear 36 ST #703H)											

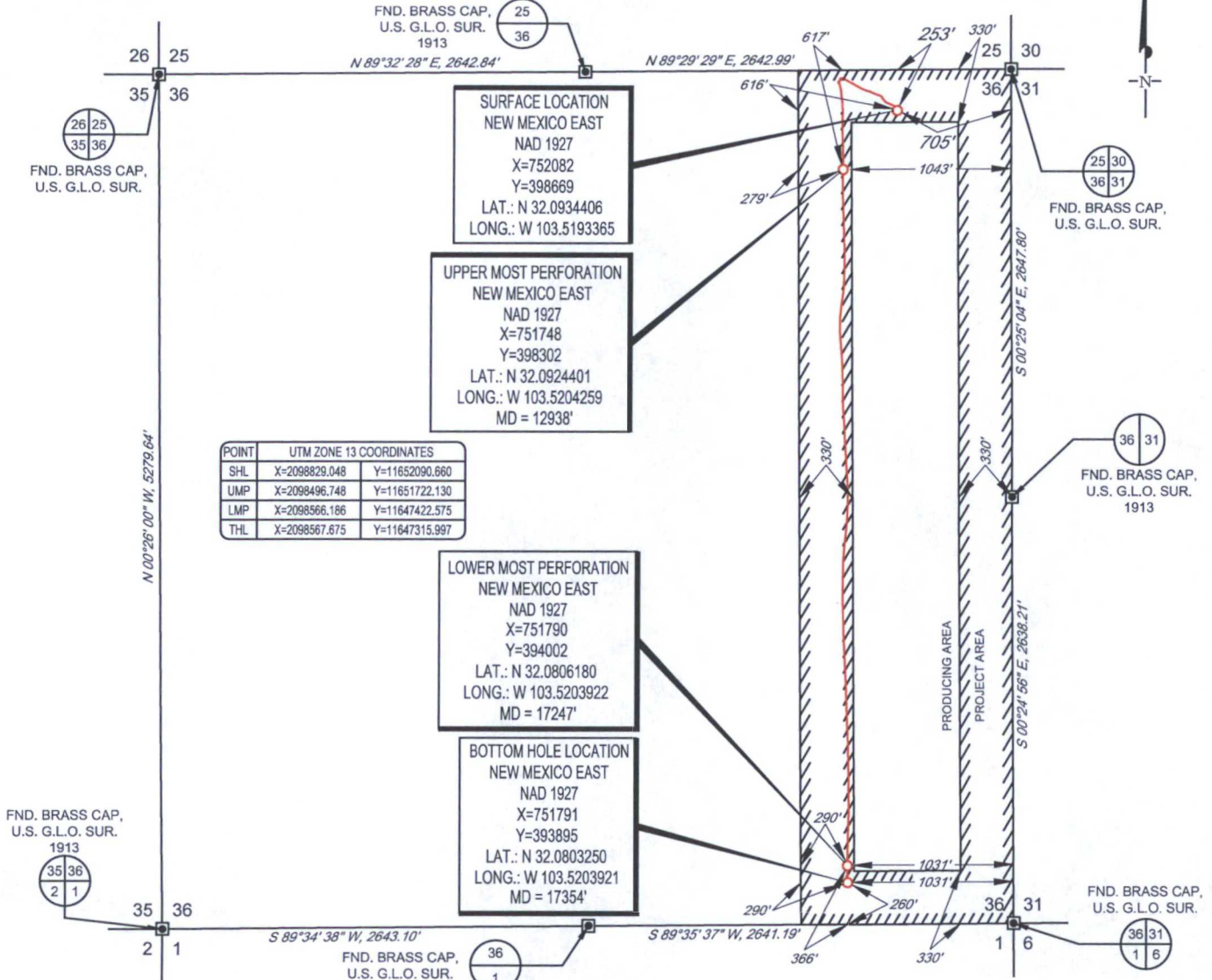
Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
17,288.0	12,654.0	-4,706.7	-291.4	Last MWD Survey	
17,355.0	12,656.2	-4,773.6	-290.9	Projection To Bit	

Checked By: _____ Approved By: _____ Date: _____

SCALE: 1" = 1000'

0' 500' 1000'

SECTION 36, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: BLACK BEAR 36 STATE #703H
SECTION 36 TWP 25-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3325'
DESCRIPTION 253' FNL & 705' FEL



Michael Blake Brown, P.S. No. 18329
AUGUST 10, 2016



BLACK BEAR 36 STATE
#703H AS-COMPLETED

REVISION:

INT DATE

DATE: 08/10/16

FILE:AD_BLACKBEAR36STATE_703H

DRAWN BY: A.C.C.

SHEET: 1 OF 1

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.