



HOBBS OCD
AUG 10 2018
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Fox 30 Fed Com

#705H

OH

Design: OH

Midland PVA

12 June, 2018





Midland PVA



Company:	Eog Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3349.0usft (H&P 647)
Site:	Fox 30 Fed Com	MD Reference:	KB = 25' @ 3349.0usft (H&P 647)
Well:	#705H	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	Fox 30 Fed Com		
Site Position:		Northing:	401,193.00 usft
From:	Map	Easting:	797,271.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 0.944 N
		Longitude:	103° 30' 24.151 W
		Grid Convergence:	0.44 °

Well	#705H					
Well Position	+N-S	0.0 usft	Northing:	401,193.00 usft	Latitude:	32° 6' 0.941 N
	+E-W	0.0 usft	Easting:	797,306.00 usft	Longitude:	103° 30' 24.151 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,324.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/1/2018	6.83	59.95	47,791,04707523

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	177.58

Survey Program	Date	6/12/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
202.0	20,178.0	Integrity MWD (OH)	MWD	OWSG MWD - Standard



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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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0
202.0	1.30	99.90	202.0	-0.4	2.3	0.64	0.64	0.00	0.0	0.0	0.0
267.0	1.30	95.10	267.0	-0.6	3.7	0.17	0.00	-7.38	0.0	0.0	0.0
411.0	1.40	80.90	410.9	-0.5	7.1	0.24	0.07	-9.86	0.0	0.0	0.0
575.0	1.00	104.60	574.9	-0.5	10.4	0.38	-0.24	14.45	0.0	0.0	0.0
760.0	0.80	138.40	759.9	-1.9	12.9	0.30	-0.11	18.27	0.0	0.0	0.0
934.0	1.10	142.40	933.8	-4.1	14.7	0.18	0.17	2.30	0.0	0.0	0.0
1,020.0	1.40	142.60	1,019.8	-5.6	15.8	0.35	0.35	0.23	0.0	0.0	0.0
1,084.0	1.50	149.60	1,083.8	-6.9	16.7	0.32	0.16	10.94	0.0	0.0	0.0
1,259.0	1.30	159.90	1,258.7	-10.8	18.6	0.18	-0.11	5.89	0.0	0.0	0.0
1,433.0	1.90	153.30	1,432.7	-15.2	20.5	0.36	0.34	-3.79	0.0	0.0	0.0
1,608.0	0.80	340.70	1,607.7	-18.9	21.5	1.43	-0.74	-98.63	0.0	0.0	0.0
1,782.0	0.70	352.10	1,781.6	-15.0	21.1	0.09	0.06	6.55	0.0	0.0	0.0
1,957.0	1.10	346.60	1,956.6	-12.3	20.6	0.23	0.23	-3.14	0.0	0.0	0.0
2,131.0	1.80	338.50	2,130.6	-8.2	19.2	0.42	0.40	-4.66	0.0	0.0	0.0
2,306.0	1.80	335.10	2,305.5	-3.1	17.0	0.06	0.00	-1.94	0.0	0.0	0.0
2,480.0	0.50	157.80	2,479.5	-1.3	16.1	1.32	-0.75	-101.90	0.0	0.0	0.0
2,655.0	0.50	107.90	2,654.4	-2.3	17.2	0.24	0.00	-28.51	0.0	0.0	0.0
2,829.0	1.10	125.80	2,828.4	-3.5	19.2	0.37	0.34	10.29	0.0	0.0	0.0
3,003.0	1.60	118.00	3,002.4	-5.6	22.7	0.31	0.29	-4.48	0.0	0.0	0.0
3,178.0	2.20	108.00	3,177.3	-7.8	28.1	0.39	0.34	-5.71	0.0	0.0	0.0
3,309.0	3.30	98.70	3,308.1	-9.1	34.2	0.90	0.84	-7.10	0.0	0.0	0.0
3,483.0	1.40	63.30	3,482.0	-8.9	41.1	1.33	-1.09	-20.34	0.0	0.0	0.0
3,658.0	1.70	10.60	3,656.9	-5.4	43.4	0.80	0.17	-30.11	0.0	0.0	0.0
3,832.0	1.30	0.20	3,830.9	-0.9	43.9	0.28	-0.23	-5.98	0.0	0.0	0.0
4,007.0	2.00	15.90	4,005.8	4.0	44.8	0.47	0.40	8.97	0.0	0.0	0.0
4,181.0	0.70	353.40	4,179.7	8.0	45.5	0.79	-0.75	-12.93	0.0	0.0	0.0



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	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)	
4,356.0	1.50	268.10	4,354.7	9.0	43.1	0.92	0.46	-48.74	0.0	0.0	
4,530.0	1.00	268.00	4,528.7	8.8	39.3	0.29	-0.29	-0.06	0.0	0.0	
4,705.0	0.40	170.10	4,703.7	8.2	37.9	0.64	-0.34	-55.84	0.0	0.0	
4,879.0	1.60	149.00	4,877.6	5.5	39.2	0.71	0.69	-12.13	0.0	0.0	
5,054.0	2.50	139.20	5,052.5	0.5	43.0	0.55	0.51	-5.60	0.0	0.0	
5,098.0	2.20	131.60	5,098.5	-0.8	44.2	0.98	-0.68	-17.27	0.0	0.0	
5,278.0	1.90	56.34	5,276.4	-1.4	49.3	1.40	-0.17	-41.81	2.2	-0.3	
5,466.0	6.10	25.30	5,463.9	9.4	56.2	2.43	2.23	-16.51	5.1	3.1	
5,654.0	11.08	30.94	5,649.7	33.9	69.7	2.68	2.65	3.00	5.1	2.6	
5,841.0	11.80	30.60	5,833.0	65.8	88.7	0.39	0.39	-0.18	5.2	-0.8	
6,028.0	12.00	28.80	6,016.0	99.3	107.8	0.23	0.11	-0.96	4.9	-3.7	
6,216.0	12.20	22.60	6,199.8	134.7	124.8	0.70	0.11	-3.30	4.4	-3.6	
6,404.0	12.40	20.70	6,383.5	172.0	139.6	0.24	0.11	-1.01	2.8	-1.2	
6,589.0	12.10	18.50	6,564.3	208.9	152.8	0.30	-0.16	-1.19	1.2	2.6	
6,682.0	12.30	19.20	6,655.2	227.5	159.1	0.27	0.22	0.75	0.5	4.6	
6,869.0	13.00	20.30	6,837.7	266.1	173.0	0.40	0.37	0.59	-2.2	8.2	
7,057.0	12.20	22.80	7,021.1	304.2	188.0	0.51	-0.43	1.33	-4.4	10.8	
7,245.0	12.30	30.80	7,204.9	339.7	206.0	0.90	0.05	4.26	-4.3	10.3	
7,433.0	9.00	35.20	7,389.6	368.9	224.7	1.81	-1.76	2.34	-2.0	5.7	
7,620.0	6.60	33.50	7,574.9	389.9	239.1	1.29	-1.28	-0.91	-1.9	1.4	
7,809.0	3.60	44.50	7,763.1	403.2	249.2	1.66	-1.59	5.82	-5.3	-0.7	
7,996.0	1.20	187.50	7,950.0	405.4	253.1	2.47	-1.28	76.47	4.3	6.6	
8,184.0	0.90	192.60	8,138.0	402.0	252.5	0.17	-0.16	2.71	1.4	6.3	
8,371.0	1.00	205.70	8,324.9	399.1	251.5	0.13	0.05	7.01	-0.2	6.2	
8,557.0	1.00	174.50	8,510.9	396.0	250.9	0.29	0.00	-16.77	-6.4	4.3	
8,744.0	0.80	185.40	8,697.9	393.1	251.0	0.14	-0.11	5.83	-8.4	5.8	
8,932.0	0.90	181.60	8,885.9	390.3	250.8	0.06	0.05	-2.02	-11.5	5.1	



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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)	
9,119.0	0.70	201.40	9,072.9	387.8	250.3	0.18	-0.11	10.59	-11.6	9.2	
9,308.0	0.60	209.40	9,261.8	385.8	249.4	0.07	-0.05	4.23	-12.4	10.9	
9,496.0	0.50	191.40	9,449.8	384.2	248.8	0.11	-0.05	-9.57	-16.9	6.3	
9,684.0	1.00	299.20	9,637.8	384.2	247.2	0.66	0.27	57.34	9.7	15.0	
9,872.0	2.40	295.10	9,825.7	386.7	242.2	0.75	0.74	-2.18	3.1	15.5	
10,059.0	2.50	6.50	10,012.6	392.4	239.1	1.53	0.05	38.18	10.3	5.8	
10,245.0	1.20	353.50	10,198.5	398.3	239.4	0.73	-0.70	-6.99	2.9	7.0	
10,433.0	3.20	304.40	10,386.4	403.3	234.8	1.37	1.06	-26.12	-9.9	5.3	
10,526.0	2.10	328.00	10,479.3	406.2	231.8	1.64	-1.18	25.38	-11.1	9.9	
10,713.0	6.70	340.10	10,665.7	419.3	226.2	2.50	2.46	6.47	-23.0	12.8	
10,900.0	1.70	270.60	10,852.2	429.6	219.7	3.37	-2.67	-37.17	-26.6	-27.4	
11,088.0	1.00	111.30	11,040.2	429.1	218.5	1.41	-0.37	-84.73	35.5	15.2	
11,275.0	1.80	73.40	11,227.1	429.3	222.8	0.63	0.43	-20.27	14.4	32.8	
11,464.0	1.10	70.90	11,416.0	430.8	227.4	0.37	-0.37	-1.32	8.2	33.3	
11,651.0	1.80	4.30	11,603.0	434.3	229.3	0.91	0.37	-35.62	-30.9	19.1	
11,839.0	1.70	314.80	11,790.9	439.2	227.5	0.78	-0.05	-26.33	-39.3	-13.4	
11,896.0	1.20	297.20	11,847.9	440.0	226.4	1.16	-0.88	-30.88	-34.8	-24.9	
12,002.0	1.30	284.20	11,953.9	440.9	224.2	0.28	0.09	-12.26	-30.6	-32.3	
12,043.0	1.10	286.40	11,994.9	441.1	223.4	0.50	-0.49	5.37	-32.7	-31.1	
12,137.0	2.60	145.20	12,088.8	439.6	223.8	3.75	1.60	-150.21	43.6	3.2	
12,231.0	4.10	150.80	12,182.7	434.9	226.6	1.63	1.60	5.96	40.8	0.5	
12,323.0	5.20	181.10	12,274.4	427.9	228.1	2.88	1.20	32.93	46.4	-19.2	
12,370.0	7.60	184.40	12,321.1	422.6	227.9	5.16	5.11	7.02	55.2	-23.0	
12,418.0	10.20	183.50	12,368.5	415.2	227.4	5.42	5.42	-1.88	67.8	-23.7	
12,451.0	13.30	179.30	12,400.8	408.5	227.2	9.74	9.39	-12.73	78.4	-19.1	
12,482.0	19.10	178.70	12,430.6	399.9	227.4	18.72	18.71	-1.94	86.6	-18.0	
12,513.0	27.80	178.30	12,459.0	387.5	227.7	28.07	28.06	-1.29	92.4	-16.9	



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12,544.0	38.00	179.60	12,485.0	370.7	228.0	32.98	32.90	4.19	94.4	-18.3	
12,576.0	48.10	183.00	12,508.3	348.9	227.4	32.38	31.56	10.63	92.0	-23.2	
12,607.0	54.60	184.50	12,527.7	324.8	225.8	21.30	20.97	4.84	87.2	-26.4	
12,638.0	61.20	184.50	12,544.1	298.6	223.8	21.29	21.29	0.00	81.0	-28.3	
12,669.0	65.00	182.00	12,558.2	271.0	222.2	14.21	12.26	-8.06	74.6	-27.4	
12,700.0	67.00	179.60	12,570.8	242.7	221.8	9.57	6.45	-7.74	68.2	-26.0	
12,747.0	69.70	178.20	12,588.1	199.0	222.7	6.38	5.74	-2.98	59.1	-24.6	
12,794.0	76.20	177.70	12,601.9	154.2	224.3	13.87	13.83	-1.06	49.9	-23.4	
12,826.3	79.84	178.32	12,608.6	122.6	225.4	11.43	11.28	1.93	42.9	-22.9	
FTP Crossing 12826.3' MD; 12608.6' TVD; 122.6°; 225.4°; 79.84											
12,841.0	81.50	178.80	12,611.0	108.1	225.8	11.43	11.28	1.89	39.7	-22.7	
12,888.0	83.20	178.20	12,617.2	61.5	227.1	3.71	3.62	-0.85	31.2	-21.6	
12,935.0	88.10	179.10	12,620.8	14.7	228.2	10.60	10.43	1.91	24.0	-21.0	
12,982.0	87.90	179.50	12,622.4	-32.3	228.8	0.95	-0.43	0.85	19.5	-20.7	
13,076.0	88.50	180.60	12,625.4	-126.2	228.7	1.33	0.64	1.17	20.0	-21.5	
13,170.0	90.50	179.70	12,626.2	-220.2	228.4	2.33	2.13	-0.96	19.8	-22.5	
13,264.0	90.70	178.70	12,625.2	-314.2	229.7	1.08	0.21	-1.06	17.8	-21.9	
13,357.0	90.50	177.80	12,624.2	-407.2	232.6	0.99	-0.22	-0.97	15.9	-19.8	
13,451.0	92.40	178.90	12,621.9	-501.1	235.3	2.34	2.02	1.17	12.5	-17.8	
13,544.0	91.60	176.30	12,618.6	-593.9	239.2	2.92	-0.86	-2.80	8.3	-14.6	
13,638.0	89.00	177.90	12,618.1	-687.8	243.9	3.25	-2.77	1.70	6.8	-10.6	
13,732.0	88.30	178.90	12,620.3	-781.7	246.6	1.30	-0.74	1.06	8.0	-8.7	
13,825.0	90.00	179.70	12,621.7	-874.7	247.7	2.02	1.83	0.86	8.4	-8.3	
13,919.0	90.30	179.50	12,621.5	-968.7	248.3	0.38	0.32	-0.21	7.2	-8.4	
14,013.0	88.10	178.80	12,622.8	-1,062.7	249.7	2.46	-2.34	-0.74	7.5	-7.8	
14,107.0	90.20	179.10	12,624.2	-1,156.7	251.5	2.26	2.23	0.32	7.9	-6.8	
14,202.0	87.00	180.00	12,626.5	-1,251.6	252.2	3.50	-3.37	0.95	9.3	-6.8	



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14,296.0	86.90	181.60	12,631.5	-1,345.5	250.9	1.70	-0.11	1.70	13.3	-8.8	
14,390.0	88.90	181.90	12,635.0	-1,439.4	248.0	2.15	2.13	0.32	15.7	-12.4	
14,484.0	88.20	182.40	12,637.3	-1,533.3	244.5	0.92	-0.74	0.53	17.1	-16.7	
14,578.0	88.80	180.20	12,639.8	-1,627.2	242.4	2.43	0.64	-2.34	18.6	-19.6	
14,671.0	92.40	178.50	12,638.8	-1,720.2	243.4	4.28	3.87	-1.83	16.6	-19.3	
14,765.0	88.70	174.40	12,637.9	-1,813.9	249.2	5.87	-3.94	-4.36	14.8	-14.1	
14,859.0	90.20	178.30	12,638.8	-1,907.7	255.2	4.44	1.60	4.15	14.7	-8.9	
14,953.0	87.30	173.60	12,640.9	-2,001.4	261.9	5.87	-3.09	-5.00	15.8	-3.0	
15,047.0	88.00	176.60	12,644.7	-2,095.0	269.9	3.27	0.74	3.19	18.8	4.3	
15,141.0	92.80	179.00	12,644.1	-2,188.9	273.5	5.71	5.11	2.55	17.3	7.2	
15,235.0	92.00	179.20	12,640.1	-2,282.8	275.0	0.88	-0.85	0.21	12.5	7.9	
15,329.0	94.20	181.00	12,635.1	-2,376.6	274.8	3.02	2.34	1.91	6.6	7.0	
15,422.0	91.20	180.40	12,630.7	-2,469.5	273.7	3.29	-3.23	-0.65	1.4	5.1	
15,515.0	91.10	180.40	12,628.8	-2,562.5	273.0	0.11	-0.11	0.00	-1.3	3.7	
15,609.0	92.80	181.20	12,625.6	-2,656.4	271.7	2.00	1.81	0.85	-5.4	1.7	
15,702.0	89.60	180.70	12,623.7	-2,749.4	270.2	3.48	-3.44	-0.54	-8.2	-0.6	
15,795.0	86.50	180.50	12,626.8	-2,842.3	269.2	3.34	-3.33	-0.22	-5.8	-2.3	
15,889.0	87.50	181.80	12,631.7	-2,936.2	267.3	1.74	1.06	1.38	-1.8	-4.9	
15,982.0	88.60	182.00	12,634.9	-3,029.1	264.2	1.20	1.18	0.22	0.6	-8.7	
16,077.0	88.00	181.60	12,637.7	-3,124.0	261.2	0.76	-0.63	-0.42	2.5	-12.5	
16,170.0	87.10	180.60	12,641.7	-3,216.9	259.5	1.45	-0.97	-1.08	5.7	-15.0	
16,263.0	88.90	179.20	12,644.9	-3,309.8	259.6	2.45	1.94	-1.51	8.1	-15.5	
16,357.0	90.80	179.90	12,645.1	-3,403.8	260.4	2.25	2.13	0.74	7.4	-15.5	
16,460.0	91.50	180.70	12,643.0	-3,506.8	259.8	0.97	0.58	0.78	4.3	-16.9	
16,554.0	92.80	181.10	12,639.3	-3,600.7	258.3	1.55	1.49	0.43	-0.1	-19.1	
16,648.0	92.20	180.20	12,635.2	-3,694.6	257.3	1.21	-0.74	-0.96	-5.2	-20.9	
16,742.0	90.40	181.10	12,633.0	-3,788.6	256.2	2.14	-1.91	0.96	-8.1	-22.7	



Midland PVA



Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Fox 30 Fed Com
Well: #705H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25' @ 3349.0usft (H&P 647)
MD Reference: KB = 25' @ 3349.0usft (H&P 647)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: 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)
16,836.0	90.40	183.70	12,632.4	-3,882.5	252.3	2.77	0.00	2.77	-9.7	-27.4
16,867.0	87.80	182.00	12,632.9	-3,913.4	250.7	10.02	-8.39	-5.48	-9.5	-29.1
16,898.0	89.80	183.30	12,633.5	-3,944.4	249.3	7.69	6.45	4.19	-9.1	-30.8
16,930.0	90.90	183.40	12,633.3	-3,976.3	247.4	3.45	3.44	0.31	-9.5	-33.0
16,992.0	87.50	180.10	12,634.2	-4,038.3	245.5	7.64	-5.48	-5.32	-9.3	-35.3
17,024.0	86.90	179.60	12,635.7	-4,070.2	245.6	2.44	-1.88	-1.56	-8.1	-35.5
17,055.0	86.70	179.50	12,637.5	-4,101.2	245.9	0.72	-0.65	-0.32	-6.7	-35.5
17,086.0	86.80	179.70	12,639.2	-4,132.1	246.1	0.72	0.32	0.65	-5.3	-35.5
17,118.0	86.90	179.00	12,641.0	-4,164.1	246.5	2.21	0.31	-2.19	-3.9	-35.4
17,212.0	87.60	178.20	12,645.5	-4,257.9	248.7	1.13	0.74	-0.85	-0.4	-33.9
17,306.0	89.40	179.00	12,648.0	-4,351.9	251.0	2.10	1.91	0.85	1.0	-32.3
17,400.0	88.80	177.10	12,649.4	-4,445.8	254.2	2.12	-0.64	-2.02	1.5	-29.8
17,492.0	89.10	177.20	12,651.1	-4,537.7	258.8	0.34	0.33	0.11	2.1	-26.0
17,586.0	90.00	177.50	12,651.9	-4,631.6	263.2	1.01	0.96	0.32	1.8	-22.4
17,680.0	90.40	178.20	12,651.5	-4,725.5	266.7	0.86	0.43	0.74	0.5	-19.6
17,774.0	91.20	178.40	12,650.2	-4,819.4	269.5	0.88	0.85	0.21	-1.9	-17.5
17,868.0	90.50	178.60	12,648.8	-4,913.4	271.9	0.77	-0.74	0.21	-4.3	-15.8
17,961.0	88.60	178.90	12,649.6	-5,006.4	274.0	2.07	-2.04	0.32	-4.6	-14.5
18,055.0	90.20	180.30	12,650.5	-5,100.4	274.6	2.26	1.70	1.49	-4.6	-14.6
18,149.0	90.90	180.70	12,649.6	-5,194.4	273.8	0.86	0.74	0.43	-6.6	-16.2
18,243.0	91.20	179.80	12,647.9	-5,288.3	273.4	1.01	0.32	-0.96	-9.3	-17.3
18,337.0	91.00	180.10	12,646.1	-5,382.3	273.5	0.38	-0.21	0.32	-12.2	-18.0
18,431.0	90.00	179.50	12,645.3	-5,476.3	273.8	1.24	-1.06	-0.64	-14.0	-18.4
18,524.0	88.90	177.50	12,646.2	-5,569.3	276.2	2.45	-1.18	-2.15	-14.2	-16.7
18,618.0	88.60	177.30	12,648.2	-5,663.1	280.5	0.38	-0.32	-0.21	-13.1	-13.1
18,711.0	89.00	178.10	12,650.2	-5,756.1	284.2	0.96	0.43	0.86	-12.2	-10.1
18,805.0	87.70	177.30	12,652.9	-5,849.9	288.0	1.62	-1.38	-0.85	-10.5	-7.1



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3349.0usft (H&P 647)
Site:	Fox 30 Fed Com	MD Reference:	KB = 25' @ 3349.0usft (H&P 647)
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
18,899.0	87.00	177.40	12,657.2	-5,943.7	292.3	0.75	-0.74	0.11	-7.2	-3.5
18,992.0	87.40	177.50	12,661.8	-6,036.5	296.5	0.44	0.43	0.11	-3.9	-0.1
19,086.0	88.30	177.50	12,665.3	-6,130.4	300.6	0.96	0.96	0.00	-1.9	3.3
19,180.0	90.10	177.60	12,666.6	-6,224.3	304.6	1.92	1.91	0.11	-2.1	6.5
19,273.0	89.40	178.20	12,667.0	-6,317.2	308.0	0.99	-0.75	0.65	-3.2	9.2
19,367.0	91.00	179.10	12,666.7	-6,411.2	310.2	1.95	1.70	0.96	-5.0	10.7
19,461.0	90.20	180.70	12,665.7	-6,505.2	310.4	1.90	-0.85	1.70	-7.5	10.1
19,555.0	89.60	180.40	12,665.9	-6,599.2	309.5	0.71	-0.64	-0.32	-8.9	8.5
19,649.0	89.40	180.30	12,666.7	-6,693.2	308.9	0.24	-0.21	-0.11	-9.5	7.2
19,743.0	91.20	180.40	12,666.2	-6,787.1	308.3	1.92	1.91	0.11	-11.6	5.9
19,836.0	90.80	178.90	12,664.6	-6,880.1	308.9	1.67	-0.43	-1.61	-14.7	5.7
19,930.0	90.90	179.30	12,663.2	-6,974.1	310.4	0.44	0.11	0.43	-17.6	6.4
20,023.0	91.60	179.10	12,661.2	-7,067.1	311.7	0.78	0.75	-0.22	-21.1	7.0
20,092.4	92.01	178.83	12,659.0	-7,136.5	312.9	0.71	0.59	-0.40	-24.4	7.7
LTP Crossing 20092.4' MD; 12659.0' TVD; -7136.5; 312.9; 92.01										
20,124.0	92.20	178.70	12,657.8	-7,168.0	313.6	0.71	0.59	-0.40	-26.1	8.1
Last MWD Survey (MD = 20124.0)										
20,178.0	92.20	178.70	12,655.7	-7,221.9	314.8	0.00	0.00	0.00	-29.0	8.9
Projection to Bit (MD = 20178.0)										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
12,826.3	12,608.6	122.6	225.4	FTP Crossing 12826.3' MD; 12608.6' TVD; 122.6; 225.4; 79.84
20,092.4	12,659.0	-7,136.5	312.9	LTP Crossing 20092.4' MD; 12659.0' TVD; -7136.5; 312.9; 92.01
20,124.0	12,657.8	-7,168.0	313.6	Last MWD Survey (MD = 20124.0)
20,178.0	12,655.7	-7,221.9	314.8	Projection to Bit (MD = 20178.0)



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3349.0usft (H&P 647)
Site:	Fox 30 Fed Com	MD Reference:	KB = 25' @ 3349.0usft (H&P 647)
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Checked By: _____	Approved By: _____	Date: _____
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Lea County, NM (NAD 83 NME)

Fox 30 Fed Com #705H

H&P 647

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: #705H

KB = 25' @ 3349.0ush (H&P 647) 3324.0
Northing 401193.00 Easting 797308.00 Longitude 103°30' 24.151 W

Adjustments to Grid North
True North 0.00°
Magnetic North 8.33°
Magnetic Field
Surveyed 4774.3941
Grid North 4774.3941
Date: 4/15/2014
Sheet: 15140015

To convert a Magnetic Direction to a Grid Direction, Add 8.33°
To convert a Magnetic Direction to a True Direction, Add 8.33° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

SECTION DETAILS

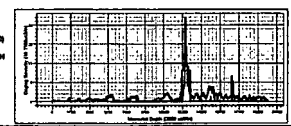
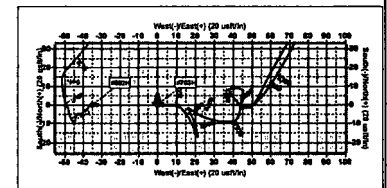
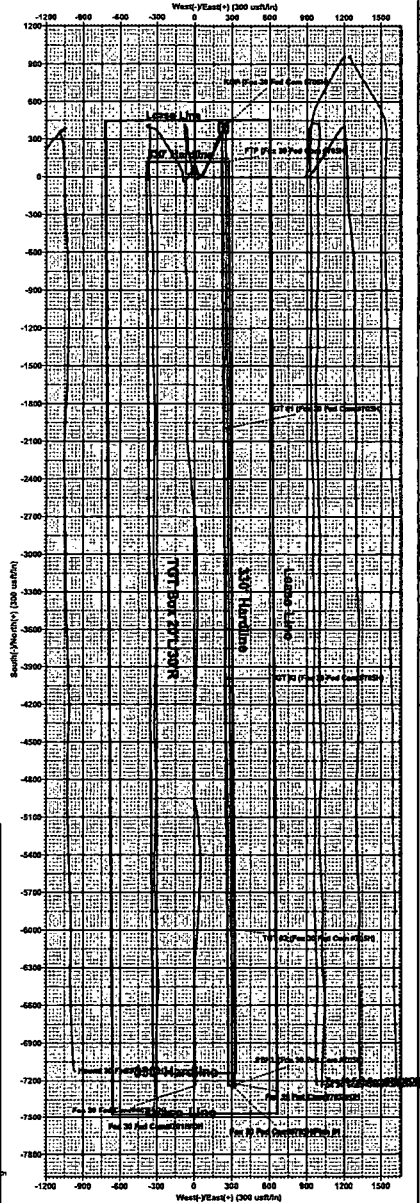
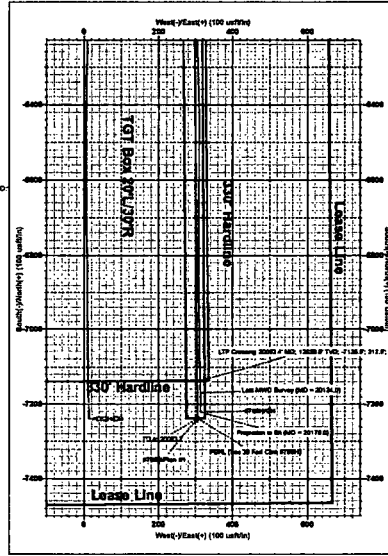
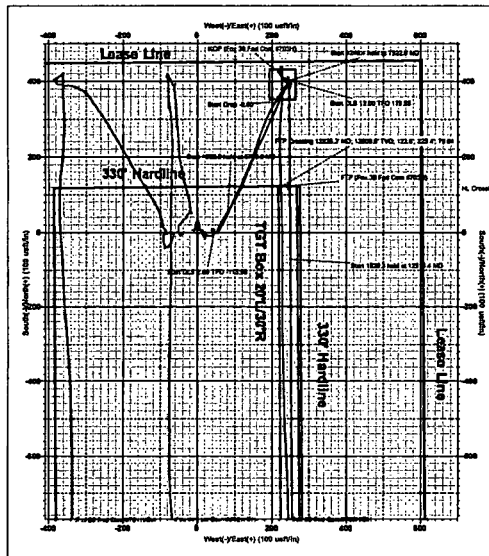
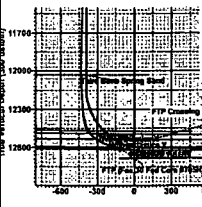
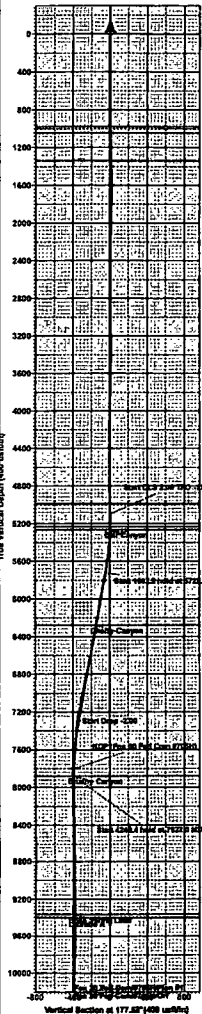
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSet	Target
1	5098.0	2.20	131.60	5096.5	-0.8	44.2	0.00	0.00	2.6	
2	5728.9	11.82	25.13	5723.0	49.9	80.9	2.00	-115.96	-46.4	
3	7331.1	11.82	25.13	7291.2	347.0	220.2	0.00	0.00	-337.4	
4	7922.0	0.00	0.00	7878.0	402.0	246.0	2.00	180.00	-391.2	
5	12171.4	0.00	0.00	12127.4	402.0	246.0	0.00	0.00	-391.2	
6	12916.4	89.40	179.55	12604.8	-70.4	249.7	12.00	179.55	80.9	
7	14836.8	89.40	179.55	12625.0	-1990.6	264.8	0.00	0.00	2000.0	TGT #1 (Fox 30 Fed Com #705H)
8	14841.1	89.48	179.55	12625.0	-1994.9	264.8	2.00	0.00	2004.3	TGT #2 (Fox 30 Fed Com #705H)
9	16838.0	89.48	179.55	12643.0	-3991.7	280.5	0.00	0.00	4000.0	TGT #3 (Fox 30 Fed Com #705H)
10	16843.7	89.37	179.55	12643.1	-3997.4	280.6	2.00	180.00	4005.7	
11	18839.3	89.37	179.55	12665.0	-5992.8	296.2	0.00	0.00	6000.0	
12	18853.9	89.08	179.55	12665.2	-6007.4	296.3	2.00	-180.00	6014.6	
13	20083.7	89.08	179.55	12685.0	-7237.0	306.0	0.00	0.00	7243.5	PBHL (Fox 30 Fed Com #705H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Fox 30 Fed Com #705H)	7806.0	403.0	243.7	401595.99	797549.72
FTP (Fox 30 Fed Com #705H)	12603.0	123.0	246.0	401318.09	797552.00
TGT #1 (Fox 30 Fed Com #705H)	12625.0	-1990.6	264.8	399202.40	797579.79
TGT #2 (Fox 30 Fed Com #705H)	12643.0	-3991.7	280.5	397201.30	797586.51
TGT #3 (Fox 30 Fed Com #705H)	12665.0	-5992.8	296.2	385200.20	797602.23
PBHL (Fox 30 Fed Com #705H)	12685.0	-7237.0	306.0	383954.00	797612.00



Lea County, NM (NAD 83 NME)
Fox 30 Fed Com #705H
H&P 647
Plan #1