



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Calm Breeze 2Fed Com

#702H

OH

Plan: Plan #0.1

Standard Planning Report

03 August, 2016

HOBBS OCD
FEB 27 2017
RECEIVED

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Calm Breeze 2Fed Com
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3349.0usft
MD Reference: KB = 25 @ 3349.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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 Calm Breeze 2Fed Com

Site Position: **Map** **Northing:** 390,631.00 usft **Latitude:** 32° 4' 17.455 N
From: **Easting:** 743,823.00 usft **Longitude:** 103° 32' 46.296 W
Position Uncertainty: 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.42 °

Well #702H

Well Position **+N/-S** 0.0 usft **Northing:** 390,631.00 usft **Latitude:** 32° 4' 17.457 N
+E/-W -30.0 usft **Easting:** 743,793.00 usft **Longitude:** 103° 32' 46.645 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 0.0 usft **Ground Level:** 3,324.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/2/2016	7.03	59.94	47,940

Design Plan #0.1

Audit Notes:

Version: **Phase:** PLAN **Tie On Depth:** 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	178.53

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
231.1	1.39	26.27	231.0	2.5	1.2	0.60	0.60	0.00	26.27	
12,011.4	1.39	26.27	12,007.9	258.1	127.4	0.00	0.00	0.00	0.00	
12,663.1	90.00	179.57	12,426.0	-151.0	135.0	14.00	13.60	23.52	153.30	
19,892.3	90.00	179.57	12,426.0	-7,380.0	189.0	0.00	0.00	0.00	0.00	PBHL(CB 2FC #702H)



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Survey Calculation Method:

Well #702H
 KB = 25 @ 3349.0usft
 KB = 25 @ 3349.0usft
 Grid
 Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.60	26.27	100.0	0.5	0.2	-0.5	0.60	0.60	0.00
200.0	1.20	26.27	200.0	1.9	0.9	-1.9	0.60	0.60	0.00
231.1	1.39	26.27	231.0	2.5	1.2	-2.5	0.60	0.60	0.00
300.0	1.39	26.27	300.0	4.0	2.0	-4.0	0.00	0.00	0.00
400.0	1.39	26.27	399.9	6.2	3.0	-6.1	0.00	0.00	0.00
500.0	1.39	26.27	499.9	8.3	4.1	-8.2	0.00	0.00	0.00
600.0	1.39	26.27	599.9	10.5	5.2	-10.4	0.00	0.00	0.00
700.0	1.39	26.27	699.8	12.7	6.3	-12.5	0.00	0.00	0.00
800.0	1.39	26.27	799.8	14.9	7.3	-14.7	0.00	0.00	0.00
900.0	1.39	26.27	899.8	17.0	8.4	-16.8	0.00	0.00	0.00
1,000.0	1.39	26.27	999.8	19.2	9.5	-18.9	0.00	0.00	0.00
1,100.0	1.39	26.27	1,099.7	21.4	10.5	-21.1	0.00	0.00	0.00
1,200.0	1.39	26.27	1,199.7	23.5	11.6	-23.2	0.00	0.00	0.00
1,300.0	1.39	26.27	1,299.7	25.7	12.7	-25.4	0.00	0.00	0.00
1,400.0	1.39	26.27	1,399.6	27.9	13.8	-27.5	0.00	0.00	0.00
1,500.0	1.39	26.27	1,499.6	30.0	14.8	-29.6	0.00	0.00	0.00
1,600.0	1.39	26.27	1,599.6	32.2	15.9	-31.8	0.00	0.00	0.00
1,700.0	1.39	26.27	1,699.5	34.4	17.0	-33.9	0.00	0.00	0.00
1,800.0	1.39	26.27	1,799.5	36.5	18.0	-36.1	0.00	0.00	0.00
1,900.0	1.39	26.27	1,899.5	38.7	19.1	-38.2	0.00	0.00	0.00
2,000.0	1.39	26.27	1,999.5	40.9	20.2	-40.4	0.00	0.00	0.00
2,100.0	1.39	26.27	2,099.4	43.1	21.2	-42.5	0.00	0.00	0.00
2,200.0	1.39	26.27	2,199.4	45.2	22.3	-44.6	0.00	0.00	0.00
2,300.0	1.39	26.27	2,299.4	47.4	23.4	-46.8	0.00	0.00	0.00
2,400.0	1.39	26.27	2,399.3	49.6	24.5	-48.9	0.00	0.00	0.00
2,500.0	1.39	26.27	2,499.3	51.7	25.5	-51.1	0.00	0.00	0.00
2,600.0	1.39	26.27	2,599.3	53.9	26.6	-53.2	0.00	0.00	0.00
2,700.0	1.39	26.27	2,699.3	56.1	27.7	-55.3	0.00	0.00	0.00
2,800.0	1.39	26.27	2,799.2	58.2	28.7	-57.5	0.00	0.00	0.00
2,900.0	1.39	26.27	2,899.2	60.4	29.8	-59.6	0.00	0.00	0.00
3,000.0	1.39	26.27	2,999.2	62.6	30.9	-61.8	0.00	0.00	0.00
3,100.0	1.39	26.27	3,099.1	64.8	32.0	-63.9	0.00	0.00	0.00
3,200.0	1.39	26.27	3,199.1	66.9	33.0	-66.1	0.00	0.00	0.00
3,300.0	1.39	26.27	3,299.1	69.1	34.1	-68.2	0.00	0.00	0.00
3,400.0	1.39	26.27	3,399.0	71.3	35.2	-70.3	0.00	0.00	0.00
3,500.0	1.39	26.27	3,499.0	73.4	36.2	-72.5	0.00	0.00	0.00
3,600.0	1.39	26.27	3,599.0	75.6	37.3	-74.6	0.00	0.00	0.00
3,700.0	1.39	26.27	3,699.0	77.8	38.4	-76.8	0.00	0.00	0.00
3,800.0	1.39	26.27	3,798.9	79.9	39.4	-78.9	0.00	0.00	0.00
3,900.0	1.39	26.27	3,898.9	82.1	40.5	-81.0	0.00	0.00	0.00
4,000.0	1.39	26.27	3,998.9	84.3	41.6	-83.2	0.00	0.00	0.00
4,100.0	1.39	26.27	4,098.8	86.4	42.7	-85.3	0.00	0.00	0.00
4,200.0	1.39	26.27	4,198.8	88.6	43.7	-87.5	0.00	0.00	0.00
4,300.0	1.39	26.27	4,298.8	90.8	44.8	-89.6	0.00	0.00	0.00
4,400.0	1.39	26.27	4,398.8	93.0	45.9	-91.8	0.00	0.00	0.00
4,500.0	1.39	26.27	4,498.7	95.1	46.9	-93.9	0.00	0.00	0.00
4,600.0	1.39	26.27	4,598.7	97.3	48.0	-96.0	0.00	0.00	0.00
4,700.0	1.39	26.27	4,698.7	99.5	49.1	-98.2	0.00	0.00	0.00
4,800.0	1.39	26.27	4,798.6	101.6	50.2	-100.3	0.00	0.00	0.00
4,900.0	1.39	26.27	4,898.6	103.8	51.2	-102.5	0.00	0.00	0.00
5,000.0	1.39	26.27	4,998.6	106.0	52.3	-104.6	0.00	0.00	0.00
5,100.0	1.39	26.27	5,098.6	108.1	53.4	-106.7	0.00	0.00	0.00
5,200.0	1.39	26.27	5,198.5	110.3	54.4	-108.9	0.00	0.00	0.00



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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	1.39	26.27	5,298.5	112.5	55.5	-111.0	0.00	0.00	0.00
5,400.0	1.39	26.27	5,398.5	114.7	56.6	-113.2	0.00	0.00	0.00
5,500.0	1.39	26.27	5,498.4	116.8	57.7	-115.3	0.00	0.00	0.00
5,600.0	1.39	26.27	5,598.4	119.0	58.7	-117.4	0.00	0.00	0.00
5,700.0	1.39	26.27	5,698.4	121.2	59.8	-119.6	0.00	0.00	0.00
5,800.0	1.39	26.27	5,798.3	123.3	60.9	-121.7	0.00	0.00	0.00
5,900.0	1.39	26.27	5,898.3	125.5	61.9	-123.9	0.00	0.00	0.00
6,000.0	1.39	26.27	5,998.3	127.7	63.0	-126.0	0.00	0.00	0.00
6,100.0	1.39	26.27	6,098.3	129.8	64.1	-128.2	0.00	0.00	0.00
6,200.0	1.39	26.27	6,198.2	132.0	65.1	-130.3	0.00	0.00	0.00
6,300.0	1.39	26.27	6,298.2	134.2	66.2	-132.4	0.00	0.00	0.00
6,400.0	1.39	26.27	6,398.2	136.3	67.3	-134.6	0.00	0.00	0.00
6,500.0	1.39	26.27	6,498.1	138.5	68.4	-136.7	0.00	0.00	0.00
6,600.0	1.39	26.27	6,598.1	140.7	69.4	-138.9	0.00	0.00	0.00
6,700.0	1.39	26.27	6,698.1	142.9	70.5	-141.0	0.00	0.00	0.00
6,800.0	1.39	26.27	6,798.1	145.0	71.6	-143.1	0.00	0.00	0.00
6,900.0	1.39	26.27	6,898.0	147.2	72.6	-145.3	0.00	0.00	0.00
7,000.0	1.39	26.27	6,998.0	149.4	73.7	-147.4	0.00	0.00	0.00
7,100.0	1.39	26.27	7,098.0	151.5	74.8	-149.6	0.00	0.00	0.00
7,200.0	1.39	26.27	7,197.9	153.7	75.9	-151.7	0.00	0.00	0.00
7,300.0	1.39	26.27	7,297.9	155.9	76.9	-153.9	0.00	0.00	0.00
7,400.0	1.39	26.27	7,397.9	158.0	78.0	-156.0	0.00	0.00	0.00
7,500.0	1.39	26.27	7,497.8	160.2	79.1	-158.1	0.00	0.00	0.00
7,600.0	1.39	26.27	7,597.8	162.4	80.1	-160.3	0.00	0.00	0.00
7,700.0	1.39	26.27	7,697.8	164.6	81.2	-162.4	0.00	0.00	0.00
7,800.0	1.39	26.27	7,797.8	166.7	82.3	-164.6	0.00	0.00	0.00
7,900.0	1.39	26.27	7,897.7	168.9	83.3	-166.7	0.00	0.00	0.00
8,000.0	1.39	26.27	7,997.7	171.1	84.4	-168.8	0.00	0.00	0.00
8,100.0	1.39	26.27	8,097.7	173.2	85.5	-171.0	0.00	0.00	0.00
8,200.0	1.39	26.27	8,197.6	175.4	86.6	-173.1	0.00	0.00	0.00
8,300.0	1.39	26.27	8,297.6	177.6	87.6	-175.3	0.00	0.00	0.00
8,400.0	1.39	26.27	8,397.6	179.7	88.7	-177.4	0.00	0.00	0.00
8,500.0	1.39	26.27	8,497.6	181.9	89.8	-179.6	0.00	0.00	0.00
8,600.0	1.39	26.27	8,597.5	184.1	90.8	-181.7	0.00	0.00	0.00
8,700.0	1.39	26.27	8,697.5	186.3	91.9	-183.8	0.00	0.00	0.00
8,800.0	1.39	26.27	8,797.5	188.4	93.0	-186.0	0.00	0.00	0.00
8,900.0	1.39	26.27	8,897.4	190.6	94.1	-188.1	0.00	0.00	0.00
9,000.0	1.39	26.27	8,997.4	192.8	95.1	-190.3	0.00	0.00	0.00
9,100.0	1.39	26.27	9,097.4	194.9	96.2	-192.4	0.00	0.00	0.00
9,200.0	1.39	26.27	9,197.4	197.1	97.3	-194.5	0.00	0.00	0.00
9,300.0	1.39	26.27	9,297.3	199.3	98.3	-196.7	0.00	0.00	0.00
9,400.0	1.39	26.27	9,397.3	201.4	99.4	-198.8	0.00	0.00	0.00
9,500.0	1.39	26.27	9,497.3	203.6	100.5	-201.0	0.00	0.00	0.00
9,600.0	1.39	26.27	9,597.2	205.8	101.5	-203.1	0.00	0.00	0.00
9,700.0	1.39	26.27	9,697.2	207.9	102.6	-205.3	0.00	0.00	0.00
9,800.0	1.39	26.27	9,797.2	210.1	103.7	-207.4	0.00	0.00	0.00
9,900.0	1.39	26.27	9,897.1	212.3	104.8	-209.5	0.00	0.00	0.00
10,000.0	1.39	26.27	9,997.1	214.5	105.8	-211.7	0.00	0.00	0.00
10,100.0	1.39	26.27	10,097.1	216.6	106.9	-213.8	0.00	0.00	0.00
10,200.0	1.39	26.27	10,197.1	218.8	108.0	-216.0	0.00	0.00	0.00
10,300.0	1.39	26.27	10,297.0	221.0	109.0	-218.1	0.00	0.00	0.00
10,400.0	1.39	26.27	10,397.0	223.1	110.1	-220.2	0.00	0.00	0.00
10,500.0	1.39	26.27	10,497.0	225.3	111.2	-222.4	0.00	0.00	0.00
10,600.0	1.39	26.27	10,596.9	227.5	112.3	-224.5	0.00	0.00	0.00



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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.0	1.39	26.27	10,696.9	229.6	113.3	-226.7	0.00	0.00	0.00
10,800.0	1.39	26.27	10,796.9	231.8	114.4	-228.8	0.00	0.00	0.00
10,900.0	1.39	26.27	10,896.9	234.0	115.5	-230.9	0.00	0.00	0.00
11,000.0	1.39	26.27	10,996.8	236.2	116.5	-233.1	0.00	0.00	0.00
11,100.0	1.39	26.27	11,096.8	238.3	117.6	-235.2	0.00	0.00	0.00
11,200.0	1.39	26.27	11,196.8	240.5	118.7	-237.4	0.00	0.00	0.00
11,300.0	1.39	26.27	11,296.7	242.7	119.8	-239.5	0.00	0.00	0.00
11,400.0	1.39	26.27	11,396.7	244.8	120.8	-241.7	0.00	0.00	0.00
11,500.0	1.39	26.27	11,496.7	247.0	121.9	-243.8	0.00	0.00	0.00
11,600.0	1.39	26.27	11,596.6	249.2	123.0	-245.9	0.00	0.00	0.00
11,700.0	1.39	26.27	11,696.6	251.3	124.0	-248.1	0.00	0.00	0.00
11,800.0	1.39	26.27	11,796.6	253.5	125.1	-250.2	0.00	0.00	0.00
11,900.0	1.39	26.27	11,896.6	255.7	126.2	-252.4	0.00	0.00	0.00
12,000.0	1.39	26.27	11,996.5	257.8	127.2	-254.5	0.00	0.00	0.00
12,011.4	1.39	26.27	12,007.9	258.1	127.4	-254.7	0.00	0.00	0.00
12,025.0	0.91	136.50	12,021.5	258.2	127.5	-254.8	14.00	-3.49	810.19
12,050.0	4.21	171.08	12,046.5	257.1	127.8	-253.8	14.00	13.20	138.33
12,075.0	7.69	174.95	12,071.4	254.5	128.1	-251.2	14.00	13.92	15.48
12,100.0	11.18	176.42	12,096.0	250.5	128.4	-247.1	14.00	13.97	5.86
12,125.0	14.68	177.19	12,120.4	244.9	128.7	-241.5	14.00	13.98	3.09
12,150.0	18.18	177.67	12,144.4	237.8	129.0	-234.4	14.00	13.99	1.92
12,175.0	21.67	178.00	12,167.9	229.3	129.3	-225.9	14.00	13.99	1.32
12,200.0	25.17	178.25	12,190.8	219.4	129.6	-216.0	14.00	13.99	0.97
12,225.0	28.67	178.43	12,213.1	208.0	130.0	-204.6	14.00	14.00	0.75
12,250.0	32.17	178.58	12,234.6	195.4	130.3	-192.0	14.00	14.00	0.60
12,275.0	35.67	178.70	12,255.4	181.4	130.6	-178.0	14.00	14.00	0.49
12,300.0	39.17	178.81	12,275.2	166.3	131.0	-162.9	14.00	14.00	0.41
12,325.0	42.67	178.90	12,294.1	149.9	131.3	-146.5	14.00	14.00	0.36
12,350.0	46.17	178.97	12,312.0	132.4	131.6	-129.0	14.00	14.00	0.31
12,375.0	49.67	179.04	12,328.7	113.9	131.9	-110.4	14.00	14.00	0.28
12,400.0	53.17	179.11	12,344.3	94.3	132.2	-90.9	14.00	14.00	0.25
12,425.0	56.67	179.16	12,358.7	73.9	132.6	-70.4	14.00	14.00	0.23
12,450.0	60.17	179.21	12,371.8	52.6	132.9	-49.1	14.00	14.00	0.21
12,475.0	63.67	179.26	12,383.5	30.5	133.2	-27.1	14.00	14.00	0.20
12,500.0	67.17	179.31	12,393.9	7.8	133.4	-4.4	14.00	14.00	0.18
12,525.0	70.67	179.35	12,402.9	-15.5	133.7	19.0	14.00	14.00	0.17
12,537.2	72.37	179.37	12,406.8	-27.1	133.8	30.5	14.00	14.00	0.17
FTP(CB 2FC #702H)									
12,550.0	74.17	179.40	12,410.5	-39.4	134.0	42.8	14.00	14.00	0.17
12,575.0	77.67	179.44	12,416.6	-63.6	134.2	67.0	14.00	14.00	0.16
12,600.0	81.17	179.47	12,421.1	-88.2	134.4	91.6	14.00	14.00	0.16
12,625.0	84.67	179.51	12,424.2	-113.0	134.7	116.4	14.00	14.00	0.15
12,650.0	88.17	179.55	12,425.8	-137.9	134.9	141.3	14.00	14.00	0.15
12,663.1	90.00	179.57	12,426.0	-151.0	135.0	154.4	14.00	14.00	0.15
12,700.0	90.00	179.57	12,426.0	-187.9	135.2	191.3	0.00	0.00	0.00
12,800.0	90.00	179.57	12,426.0	-287.9	136.0	291.3	0.00	0.00	0.00
12,900.0	90.00	179.57	12,426.0	-387.9	136.7	391.3	0.00	0.00	0.00
13,000.0	90.00	179.57	12,426.0	-487.9	137.5	491.3	0.00	0.00	0.00
13,100.0	90.00	179.57	12,426.0	-587.9	138.2	591.3	0.00	0.00	0.00
13,200.0	90.00	179.57	12,426.0	-687.9	139.0	691.2	0.00	0.00	0.00
13,300.0	90.00	179.57	12,426.0	-787.9	139.7	791.2	0.00	0.00	0.00
13,400.0	90.00	179.57	12,426.0	-887.9	140.5	891.2	0.00	0.00	0.00
13,500.0	90.00	179.57	12,426.0	-987.9	141.2	991.2	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Calm Breeze 2Fed Com
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3349.0usft
MD Reference: KB = 25 @ 3349.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,600.0	90.00	179.57	12,426.0	-1,087.9	142.0	1,091.2	0.00	0.00	0.00
13,700.0	90.00	179.57	12,426.0	-1,187.9	142.7	1,191.2	0.00	0.00	0.00
13,800.0	90.00	179.57	12,426.0	-1,287.9	143.5	1,291.1	0.00	0.00	0.00
13,900.0	90.00	179.57	12,426.0	-1,387.9	144.2	1,391.1	0.00	0.00	0.00
14,000.0	90.00	179.57	12,426.0	-1,487.9	145.0	1,491.1	0.00	0.00	0.00
14,100.0	90.00	179.57	12,426.0	-1,587.9	145.7	1,591.1	0.00	0.00	0.00
14,200.0	90.00	179.57	12,426.0	-1,687.9	146.5	1,691.1	0.00	0.00	0.00
14,300.0	90.00	179.57	12,426.0	-1,787.9	147.2	1,791.1	0.00	0.00	0.00
14,400.0	90.00	179.57	12,426.0	-1,887.9	148.0	1,891.0	0.00	0.00	0.00
14,500.0	90.00	179.57	12,426.0	-1,987.9	148.7	1,991.0	0.00	0.00	0.00
14,600.0	90.00	179.57	12,426.0	-2,087.9	149.4	2,091.0	0.00	0.00	0.00
14,700.0	90.00	179.57	12,426.0	-2,187.9	150.2	2,191.0	0.00	0.00	0.00
14,800.0	90.00	179.57	12,426.0	-2,287.9	150.9	2,291.0	0.00	0.00	0.00
14,900.0	90.00	179.57	12,426.0	-2,387.9	151.7	2,391.0	0.00	0.00	0.00
15,000.0	90.00	179.57	12,426.0	-2,487.9	152.4	2,490.9	0.00	0.00	0.00
15,100.0	90.00	179.57	12,426.0	-2,587.9	153.2	2,590.9	0.00	0.00	0.00
15,200.0	90.00	179.57	12,426.0	-2,687.9	153.9	2,690.9	0.00	0.00	0.00
15,300.0	90.00	179.57	12,426.0	-2,787.8	154.7	2,790.9	0.00	0.00	0.00
15,400.0	90.00	179.57	12,426.0	-2,887.8	155.4	2,890.9	0.00	0.00	0.00
15,500.0	90.00	179.57	12,426.0	-2,987.8	156.2	2,990.9	0.00	0.00	0.00
15,600.0	90.00	179.57	12,426.0	-3,087.8	156.9	3,090.8	0.00	0.00	0.00
15,700.0	90.00	179.57	12,426.0	-3,187.8	157.7	3,190.8	0.00	0.00	0.00
15,800.0	90.00	179.57	12,426.0	-3,287.8	158.4	3,290.8	0.00	0.00	0.00
15,900.0	90.00	179.57	12,426.0	-3,387.8	159.2	3,390.8	0.00	0.00	0.00
16,000.0	90.00	179.57	12,426.0	-3,487.8	159.9	3,490.8	0.00	0.00	0.00
16,100.0	90.00	179.57	12,426.0	-3,587.8	160.7	3,590.8	0.00	0.00	0.00
16,200.0	90.00	179.57	12,426.0	-3,687.8	161.4	3,690.7	0.00	0.00	0.00
16,300.0	90.00	179.57	12,426.0	-3,787.8	162.2	3,790.7	0.00	0.00	0.00
16,400.0	90.00	179.57	12,426.0	-3,887.8	162.9	3,890.7	0.00	0.00	0.00
16,500.0	90.00	179.57	12,426.0	-3,987.8	163.6	3,990.7	0.00	0.00	0.00
16,600.0	90.00	179.57	12,426.0	-4,087.8	164.4	4,090.7	0.00	0.00	0.00
16,700.0	90.00	179.57	12,426.0	-4,187.8	165.1	4,190.7	0.00	0.00	0.00
16,800.0	90.00	179.57	12,426.0	-4,287.8	165.9	4,290.6	0.00	0.00	0.00
16,900.0	90.00	179.57	12,426.0	-4,387.8	166.6	4,390.6	0.00	0.00	0.00
17,000.0	90.00	179.57	12,426.0	-4,487.8	167.4	4,490.6	0.00	0.00	0.00
17,100.0	90.00	179.57	12,426.0	-4,587.8	168.1	4,590.6	0.00	0.00	0.00
17,200.0	90.00	179.57	12,426.0	-4,687.8	168.9	4,690.6	0.00	0.00	0.00
17,300.0	90.00	179.57	12,426.0	-4,787.8	169.6	4,790.6	0.00	0.00	0.00
17,400.0	90.00	179.57	12,426.0	-4,887.8	170.4	4,890.5	0.00	0.00	0.00
17,500.0	90.00	179.57	12,426.0	-4,987.8	171.1	4,990.5	0.00	0.00	0.00
17,600.0	90.00	179.57	12,426.0	-5,087.8	171.9	5,090.5	0.00	0.00	0.00
17,700.0	90.00	179.57	12,426.0	-5,187.8	172.6	5,190.5	0.00	0.00	0.00
17,800.0	90.00	179.57	12,426.0	-5,287.8	173.4	5,290.5	0.00	0.00	0.00
17,900.0	90.00	179.57	12,426.0	-5,387.8	174.1	5,390.5	0.00	0.00	0.00
18,000.0	90.00	179.57	12,426.0	-5,487.8	174.9	5,490.5	0.00	0.00	0.00
18,100.0	90.00	179.57	12,426.0	-5,587.8	175.6	5,590.4	0.00	0.00	0.00
18,200.0	90.00	179.57	12,426.0	-5,687.8	176.4	5,690.4	0.00	0.00	0.00
18,300.0	90.00	179.57	12,426.0	-5,787.8	177.1	5,790.4	0.00	0.00	0.00
18,400.0	90.00	179.57	12,426.0	-5,887.8	177.8	5,890.4	0.00	0.00	0.00
18,500.0	90.00	179.57	12,426.0	-5,987.8	178.6	5,990.4	0.00	0.00	0.00
18,600.0	90.00	179.57	12,426.0	-6,087.8	179.3	6,090.4	0.00	0.00	0.00
18,700.0	90.00	179.57	12,426.0	-6,187.8	180.1	6,190.3	0.00	0.00	0.00
18,800.0	90.00	179.57	12,426.0	-6,287.8	180.8	6,290.3	0.00	0.00	0.00
18,900.0	90.00	179.57	12,426.0	-6,387.7	181.6	6,390.3	0.00	0.00	0.00

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Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3349.0usft
MD Reference: KB = 25 @ 3349.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,000.0	90.00	179.57	12,426.0	-6,487.7	182.3	6,490.3	0.00	0.00	0.00
19,100.0	90.00	179.57	12,426.0	-6,587.7	183.1	6,590.3	0.00	0.00	0.00
19,200.0	90.00	179.57	12,426.0	-6,687.7	183.8	6,690.3	0.00	0.00	0.00
19,300.0	90.00	179.57	12,426.0	-6,787.7	184.6	6,790.2	0.00	0.00	0.00
19,400.0	90.00	179.57	12,426.0	-6,887.7	185.3	6,890.2	0.00	0.00	0.00
19,500.0	90.00	179.57	12,426.0	-6,987.7	186.1	6,990.2	0.00	0.00	0.00
19,600.0	90.00	179.57	12,426.0	-7,087.7	186.8	7,090.2	0.00	0.00	0.00
19,700.0	90.00	179.57	12,426.0	-7,187.7	187.6	7,190.2	0.00	0.00	0.00
19,800.0	90.00	179.57	12,426.0	-7,287.7	188.3	7,290.2	0.00	0.00	0.00
19,892.3	90.00	179.57	12,426.0	-7,380.0	189.0	7,382.4	0.00	0.00	0.00
PBHL(CB 2FC #702H)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP(CB 2FC #702H)	0.00	0.00	12,426.0	-21.0	134.0	390,610.00	743,927.00	32° 4' 17.240 N	103° 32' 45.089 W
- plan misses target center by 20.2usft at 12537.2usft MD (12406.8 TVD, -27.1 N, 133.8 E)									
- Point									
PBHL(CB 2FC #702H)	0.00	0.00	12,426.0	-7,380.0	189.0	383,251.00	743,982.00	32° 3' 4.413 N	103° 32' 45.074 W
- plan hits target center									
- Point									



Lea County, NM (NAD 27 NME)

Calm Breeze 2Fed Com

#702H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

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



Azimuths to Grid North
True North: 4.42°
Magnetic North: 6.61°
Magnetic Field
Strength: 47940.5nT
Dip Angle: 59.94°
Date: 8/2/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.61°
To convert a Magnetic Direction to a True Direction, Add 7.03° East
To convert a True Direction to a Grid Direction, Subtract 0.42°

WELL DETAILS: #702H

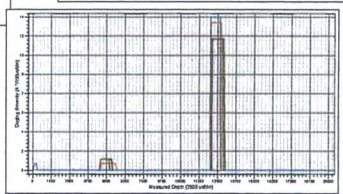
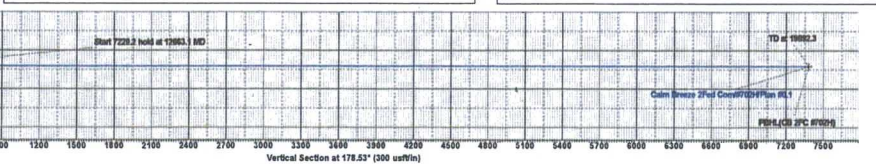
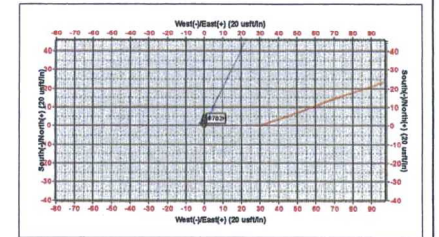
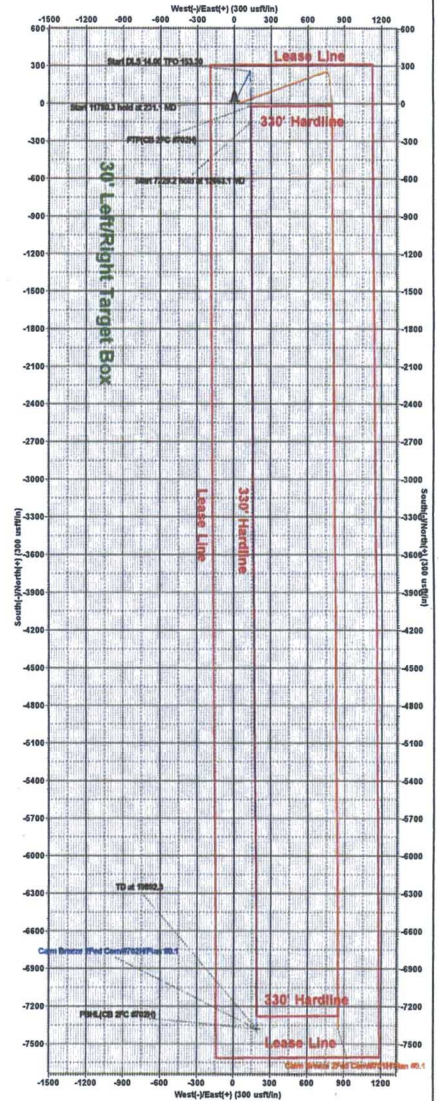
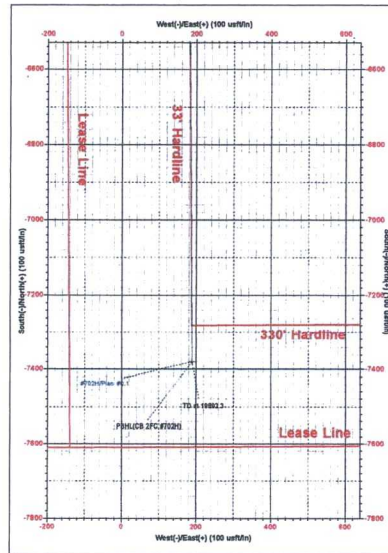
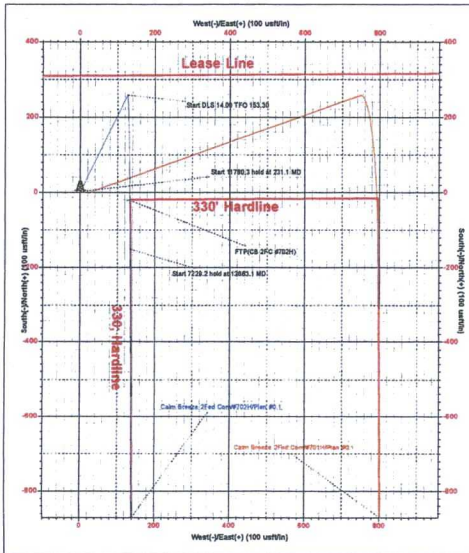
+N-S	+E-W	North	East	Longitude	Slot
0.0	0.0	390631.00	743793.00 32° 4' 17.457 N	103° 32' 46.845 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	231.1	1.39	26.27	231.0	2.5	1.2	0.60	26.27	-2.5	
3	12011.4	1.39	26.27	12007.9	258.1	127.4	0.00	0.00	-254.7	
4	12663.1	90.00	179.57	12426.0	-151.0	135.0	14.00	153.30	154.4	
5	19892.3	90.00	179.57	12426.0	-7380.0	189.0	0.00	0.00	7382.4	PBHL(CB 2FC #702H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	North	East	Shape
FTFCB 2FC #702H	12426.0	-21.0	134.0	390610.00	743927.00	Point
PBHL(CB 2FC #702H)	12426.0	-7380.0	189.0	383251.00	743882.00	Point



Lea County, NM (NAD 27 NME)
Calm Breeze 2Fed Com
Plan #0.1
8/2/2016
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