

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

GUACAMOLE CC 24-23 FED

Guacamole CC 24_23 Federal 12H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

14 May, 2019

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Guacamole CC 24_23 Federal 12H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3121.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3121.10ft
Site:	GUACAMOLE CC 24-23 FED	North Reference:	Grid
Well:	Guacamole CC 24_23 Federal 12H	Survey Calculation/Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site:	GUACAMOLE CC 24-23 FED		
Site Position:		Northing:	439,149.97 usft
From:	Map	Easting:	663,428.63 usft
Position Uncertainty:	2.00 ft	Slot Radius:	13.200 in
		Latitude:	32° 12' 24.062514 N
		Longitude:	103° 56' 18.920769 W
		Grid Convergence:	0.21 °

Well:	Guacamole CC 24_23 Federal 12H		
Well Position	+N/-S	-105.01 ft	Northing:
	+E/-W	0.55 ft	Easting:
Position Uncertainty	2.00 ft	Wellhead Elevation:	0.00 ft
		Ground Level:	3,094.60 ft
		Latitude:	32° 12' 23.023429 N
		Longitude:	103° 56' 18.918856 W

Wellbore:	Wellbore #1		
Magnetics:	Model Name	Sample Date	Declination
	HDGM	5/6/2019	6.90
			Dip Angle
			59.92
			Field Strength
			47,908

Design:	Permitting Plan		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			267.51

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,730.00	0.00	0.00	3,730.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,329.80	12.00	120.70	4,325.43	-31.94	53.79	2.00	2.00	0.00	120.70	
6,308.72	12.00	120.70	6,261.14	-241.96	407.44	0.00	0.00	0.00	0.00	
7,464.58	12.00	269.81	7,407.33	-304.54	390.33	2.00	0.00	12.90	164.22	
8,253.07	90.85	269.81	7,861.10	-306.42	-178.59	10.00	10.00	0.00	0.00	FTP (Guacamole)
15,678.02	90.85	269.81	7,751.10	-330.99	-7,602.70	0.00	0.00	0.00	0.00	PBHL (Guacamole)

Oxy Planning Report

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Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3121.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3121.10ft
Site:	GUACAMOLE CC 24-23 FED	North Reference:	Grid
Well:	Guacamole CC 24_23 Federal 12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,730.00	0.00	0.00	3,730.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	1.40	120.70	3,799.99	-0.44	0.74	-0.72	2.00	2.00	0.00
3,900.00	3.40	120.70	3,899.90	-2.57	4.34	-4.22	2.00	2.00	0.00
4,000.00	5.40	120.70	3,999.60	-6.49	10.93	-10.64	2.00	2.00	0.00
4,100.00	7.40	120.70	4,098.97	-12.18	20.52	-19.97	2.00	2.00	0.00
4,200.00	9.40	120.70	4,197.89	-19.64	33.08	-32.19	2.00	2.00	0.00
4,300.00	11.40	120.70	4,296.25	-28.86	48.60	-47.29	2.00	2.00	0.00
4,329.80	12.00	120.70	4,325.43	-31.94	53.79	-52.35	2.00	2.00	0.00
4,400.00	12.00	120.70	4,394.09	-39.39	66.34	-64.56	0.00	0.00	0.00
4,500.00	12.00	120.70	4,491.91	-50.01	84.21	-81.95	0.00	0.00	0.00
4,600.00	12.00	120.70	4,589.73	-60.62	102.08	-99.34	0.00	0.00	0.00
4,700.00	12.00	120.70	4,687.54	-71.23	119.95	-116.74	0.00	0.00	0.00
4,800.00	12.00	120.70	4,785.36	-81.84	137.82	-134.13	0.00	0.00	0.00
4,900.00	12.00	120.70	4,883.18	-92.46	155.69	-151.52	0.00	0.00	0.00
5,000.00	12.00	120.70	4,980.99	-103.07	173.56	-168.91	0.00	0.00	0.00
5,100.00	12.00	120.70	5,078.81	-113.68	191.43	-186.31	0.00	0.00	0.00

Oxy Planning Report

Database: HOPSP
Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: GUACAMOLE CC 24-23 FED
Well: Guacamole CC 24_23 Federal 12H
Wellbore: Wellbore #1
Design: Permitting Plan

Local Co-ordinate Reference: Well Guacamole CC 24_23 Federal 12H
TVD Reference: RKB=26.5' @ 3121.10ft
MD Reference: RKB=26.5' @ 3121.10ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	N-S (ft)	E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,200.00	12.00	120.70	5,176.62	-124.29	209.30	-203.70	0.00	0.00	0.00	
5,300.00	12.00	120.70	5,274.44	-134.91	227.17	-221.09	0.00	0.00	0.00	
5,400.00	12.00	120.70	5,372.26	-145.52	245.04	-238.48	0.00	0.00	0.00	
5,500.00	12.00	120.70	5,470.07	-156.13	262.91	-255.87	0.00	0.00	0.00	
5,600.00	12.00	120.70	5,567.89	-166.75	280.78	-273.27	0.00	0.00	0.00	
5,700.00	12.00	120.70	5,665.71	-177.36	298.66	-290.66	0.00	0.00	0.00	
5,800.00	12.00	120.70	5,763.52	-187.97	316.53	-308.05	0.00	0.00	0.00	
5,900.00	12.00	120.70	5,861.34	-198.58	334.40	-325.44	0.00	0.00	0.00	
6,000.00	12.00	120.70	5,959.15	-209.20	352.27	-342.84	0.00	0.00	0.00	
6,100.00	12.00	120.70	6,056.97	-219.81	370.14	-360.23	0.00	0.00	0.00	
6,200.00	12.00	120.70	6,154.79	-230.42	388.01	-377.62	0.00	0.00	0.00	
6,300.00	12.00	120.70	6,252.60	-241.03	405.88	-395.01	0.00	0.00	0.00	
6,308.72	12.00	120.70	6,261.14	-241.96	407.44	-396.53	0.00	0.00	0.00	
6,400.00	10.25	123.49	6,350.69	-251.29	422.37	-411.04	2.00	-1.91	3.06	
6,500.00	8.38	127.86	6,449.37	-260.67	435.54	-423.79	2.00	-1.87	4.36	
6,600.00	6.58	134.64	6,548.52	-269.17	445.37	-433.25	2.00	-1.80	6.78	
6,700.00	4.94	146.17	6,648.01	-276.77	451.85	-439.38	2.00	-1.64	11.53	
6,800.00	3.67	167.12	6,747.74	-283.47	454.96	-442.20	2.00	-1.27	20.95	
6,900.00	3.25	200.00	6,847.56	-289.26	454.70	-441.69	2.00	-0.42	32.89	
7,000.00	3.95	230.29	6,947.37	-294.12	451.08	-437.86	2.00	0.70	30.29	
7,100.00	5.36	248.13	7,047.05	-298.07	444.10	-430.71	2.00	1.40	17.84	
7,200.00	7.05	258.03	7,146.46	-301.08	433.76	-420.25	2.00	1.70	9.91	
7,300.00	8.88	264.01	7,245.49	-303.16	420.07	-406.49	2.00	1.82	5.97	
7,400.00	10.76	267.93	7,344.02	-304.30	403.07	-389.45	2.00	1.89	3.92	
7,464.58	12.00	269.81	7,407.33	-304.54	390.33	-376.71	2.00	1.92	2.91	
7,500.00	15.54	269.81	7,441.73	-304.57	381.90	-368.29	10.00	10.00	0.00	
7,600.00	25.54	269.81	7,535.25	-304.68	346.85	-333.27	10.00	10.00	0.00	
7,700.00	35.54	269.81	7,621.27	-304.85	296.10	-282.56	10.00	10.00	0.00	
7,800.00	45.54	269.81	7,697.16	-305.07	231.18	-217.70	10.00	10.00	0.00	
7,900.00	55.54	269.81	7,760.63	-305.32	154.07	-140.65	10.00	10.00	0.00	
8,000.00	65.54	269.81	7,809.75	-305.61	67.11	-53.75	10.00	10.00	0.00	
8,100.00	75.54	269.81	7,843.02	-305.92	-27.06	40.34	10.00	10.00	0.00	
8,200.00	85.54	269.81	7,859.43	-306.25	-125.57	138.77	10.00	10.00	0.00	
8,253.07	90.85	269.81	7,861.10	-306.42	-178.59	191.75	10.00	10.00	0.00	
8,300.00	90.85	269.81	7,860.40	-306.58	-225.52	238.64	0.00	0.00	0.00	
8,400.00	90.85	269.81	7,858.92	-306.91	-325.51	338.55	0.00	0.00	0.00	
8,500.00	90.85	269.81	7,857.44	-307.24	-425.50	438.46	0.00	0.00	0.00	
8,600.00	90.85	269.81	7,855.96	-307.57	-525.49	538.37	0.00	0.00	0.00	
8,700.00	90.85	269.81	7,854.48	-307.90	-625.48	638.28	0.00	0.00	0.00	
8,800.00	90.85	269.81	7,853.00	-308.23	-725.47	738.18	0.00	0.00	0.00	
8,900.00	90.85	269.81	7,851.52	-308.56	-825.45	838.09	0.00	0.00	0.00	
9,000.00	90.85	269.81	7,850.03	-308.89	-925.44	938.00	0.00	0.00	0.00	
9,100.00	90.85	269.81	7,848.55	-309.22	-1,025.43	1,037.91	0.00	0.00	0.00	
9,200.00	90.85	269.81	7,847.07	-309.56	-1,125.42	1,137.82	0.00	0.00	0.00	
9,300.00	90.85	269.81	7,845.59	-309.89	-1,225.41	1,237.73	0.00	0.00	0.00	
9,400.00	90.85	269.81	7,844.11	-310.22	-1,325.40	1,337.63	0.00	0.00	0.00	
9,500.00	90.85	269.81	7,842.63	-310.55	-1,425.38	1,437.54	0.00	0.00	0.00	
9,600.00	90.85	269.81	7,841.15	-310.88	-1,525.37	1,537.45	0.00	0.00	0.00	
9,700.00	90.85	269.81	7,839.66	-311.21	-1,625.36	1,637.36	0.00	0.00	0.00	
9,800.00	90.85	269.81	7,838.18	-311.54	-1,725.35	1,737.27	0.00	0.00	0.00	
9,900.00	90.85	269.81	7,836.70	-311.87	-1,825.34	1,837.18	0.00	0.00	0.00	
10,000.00	90.85	269.81	7,835.22	-312.20	-1,925.33	1,937.08	0.00	0.00	0.00	
10,100.00	90.85	269.81	7,833.74	-312.53	-2,025.32	2,036.99	0.00	0.00	0.00	
10,200.00	90.85	269.81	7,832.26	-312.86	-2,125.30	2,136.90	0.00	0.00	0.00	

Oxy Planning Report

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Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3121.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3121.10ft
Site:	GUACAMOLE CC 24-23 FED	North Reference:	Grid
Well:	Guacamole CC 24_23 Federal 12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,300.00	90.85	269.81	7,830.78	-313.19	-2,225.29	2,236.81	0.00	0.00	0.00
10,400.00	90.85	269.81	7,829.29	-313.53	-2,325.28	2,336.72	0.00	0.00	0.00
10,500.00	90.85	269.81	7,827.81	-313.86	-2,425.27	2,436.62	0.00	0.00	0.00
10,600.00	90.85	269.81	7,826.33	-314.19	-2,525.26	2,536.53	0.00	0.00	0.00
10,700.00	90.85	269.81	7,824.85	-314.52	-2,625.25	2,636.44	0.00	0.00	0.00
10,800.00	90.85	269.81	7,823.37	-314.85	-2,725.23	2,736.35	0.00	0.00	0.00
10,900.00	90.85	269.81	7,821.89	-315.18	-2,825.22	2,836.26	0.00	0.00	0.00
11,000.00	90.85	269.81	7,820.40	-315.51	-2,925.21	2,936.17	0.00	0.00	0.00
11,100.00	90.85	269.81	7,818.92	-315.84	-3,025.20	3,036.07	0.00	0.00	0.00
11,200.00	90.85	269.81	7,817.44	-316.17	-3,125.19	3,135.98	0.00	0.00	0.00
11,300.00	90.85	269.81	7,815.96	-316.50	-3,225.18	3,235.89	0.00	0.00	0.00
11,400.00	90.85	269.81	7,814.48	-316.83	-3,325.17	3,335.80	0.00	0.00	0.00
11,500.00	90.85	269.81	7,813.00	-317.16	-3,425.15	3,435.71	0.00	0.00	0.00
11,600.00	90.85	269.81	7,811.52	-317.49	-3,525.14	3,535.62	0.00	0.00	0.00
11,700.00	90.85	269.81	7,810.03	-317.83	-3,625.13	3,635.52	0.00	0.00	0.00
11,800.00	90.85	269.81	7,808.55	-318.16	-3,725.12	3,735.43	0.00	0.00	0.00
11,900.00	90.85	269.81	7,807.07	-318.49	-3,825.11	3,835.34	0.00	0.00	0.00
12,000.00	90.85	269.81	7,805.59	-318.82	-3,925.10	3,935.25	0.00	0.00	0.00
12,100.00	90.85	269.81	7,804.11	-319.15	-4,025.09	4,035.16	0.00	0.00	0.00
12,200.00	90.85	269.81	7,802.63	-319.48	-4,125.07	4,135.07	0.00	0.00	0.00
12,300.00	90.85	269.81	7,801.15	-319.81	-4,225.06	4,234.97	0.00	0.00	0.00
12,400.00	90.85	269.81	7,799.66	-320.14	-4,325.05	4,334.88	0.00	0.00	0.00
12,500.00	90.85	269.81	7,798.18	-320.47	-4,425.04	4,434.79	0.00	0.00	0.00
12,600.00	90.85	269.81	7,796.70	-320.80	-4,525.03	4,534.70	0.00	0.00	0.00
12,700.00	90.85	269.81	7,795.22	-321.13	-4,625.02	4,634.61	0.00	0.00	0.00
12,800.00	90.85	269.81	7,793.74	-321.46	-4,725.00	4,734.51	0.00	0.00	0.00
12,900.00	90.85	269.81	7,792.26	-321.80	-4,824.99	4,834.42	0.00	0.00	0.00
13,000.00	90.85	269.81	7,790.77	-322.13	-4,924.98	4,934.33	0.00	0.00	0.00
13,100.00	90.85	269.81	7,789.29	-322.46	-5,024.97	5,034.24	0.00	0.00	0.00
13,200.00	90.85	269.81	7,787.81	-322.79	-5,124.96	5,134.15	0.00	0.00	0.00
13,300.00	90.85	269.81	7,786.33	-323.12	-5,224.95	5,234.06	0.00	0.00	0.00
13,400.00	90.85	269.81	7,784.85	-323.45	-5,324.94	5,333.96	0.00	0.00	0.00
13,500.00	90.85	269.81	7,783.37	-323.78	-5,424.92	5,433.87	0.00	0.00	0.00
13,600.00	90.85	269.81	7,781.89	-324.11	-5,524.91	5,533.78	0.00	0.00	0.00
13,700.00	90.85	269.81	7,780.40	-324.44	-5,624.90	5,633.69	0.00	0.00	0.00
13,800.00	90.85	269.81	7,778.92	-324.77	-5,724.89	5,733.60	0.00	0.00	0.00
13,900.00	90.85	269.81	7,777.44	-325.10	-5,824.88	5,833.51	0.00	0.00	0.00
14,000.00	90.85	269.81	7,775.96	-325.43	-5,924.87	5,933.41	0.00	0.00	0.00
14,100.00	90.85	269.81	7,774.48	-325.76	-6,024.85	6,033.32	0.00	0.00	0.00
14,200.00	90.85	269.81	7,773.00	-326.10	-6,124.84	6,133.23	0.00	0.00	0.00
14,300.00	90.85	269.81	7,771.52	-326.43	-6,224.83	6,233.14	0.00	0.00	0.00
14,400.00	90.85	269.81	7,770.03	-326.76	-6,324.82	6,333.05	0.00	0.00	0.00
14,500.00	90.85	269.81	7,768.55	-327.09	-6,424.81	6,432.96	0.00	0.00	0.00
14,600.00	90.85	269.81	7,767.07	-327.42	-6,524.80	6,532.86	0.00	0.00	0.00
14,700.00	90.85	269.81	7,765.59	-327.75	-6,624.79	6,632.77	0.00	0.00	0.00
14,800.00	90.85	269.81	7,764.11	-328.08	-6,724.77	6,732.68	0.00	0.00	0.00
14,900.00	90.85	269.81	7,762.63	-328.41	-6,824.76	6,832.59	0.00	0.00	0.00
15,000.00	90.85	269.81	7,761.15	-328.74	-6,924.75	6,932.50	0.00	0.00	0.00
15,100.00	90.85	269.81	7,759.66	-329.07	-7,024.74	7,032.40	0.00	0.00	0.00
15,200.00	90.85	269.81	7,758.18	-329.40	-7,124.73	7,132.31	0.00	0.00	0.00
15,300.00	90.85	269.81	7,756.70	-329.73	-7,224.72	7,232.22	0.00	0.00	0.00
15,400.00	90.85	269.81	7,755.22	-330.07	-7,324.70	7,332.13	0.00	0.00	0.00
15,500.00	90.85	269.81	7,753.74	-330.40	-7,424.69	7,432.04	0.00	0.00	0.00
15,600.00	90.85	269.81	7,752.26	-330.73	-7,524.68	7,531.95	0.00	0.00	0.00

Oxy Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Guacamole CC 24_23 Federal 12H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3121.10ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3121.10ft
Site:	GUACAMOLE CC 24-23 FED	North Reference:	Grid
Well:	Guacamole CC 24_23 Federal 12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
15,678.02	90.85	269.81	7,751.10	-330.99	-7,602.70	7,609.90	0.00	0.00	0.00	

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Guacamole CC		0.00	0.01	7,751.10	-330.99	-7,602.70	438,714.01	655,827.06	32° 12' 20.015930 N	103° 57' 47.415049
- plan hits target center										
- Point										
FTP (Guacamole CC		0.00	0.00	7,861.10	-306.42	-178.59	438,738.57	663,250.60	32° 12' 19.997822 N	103° 56' 21.010464
- plan hits target center										
- Point										

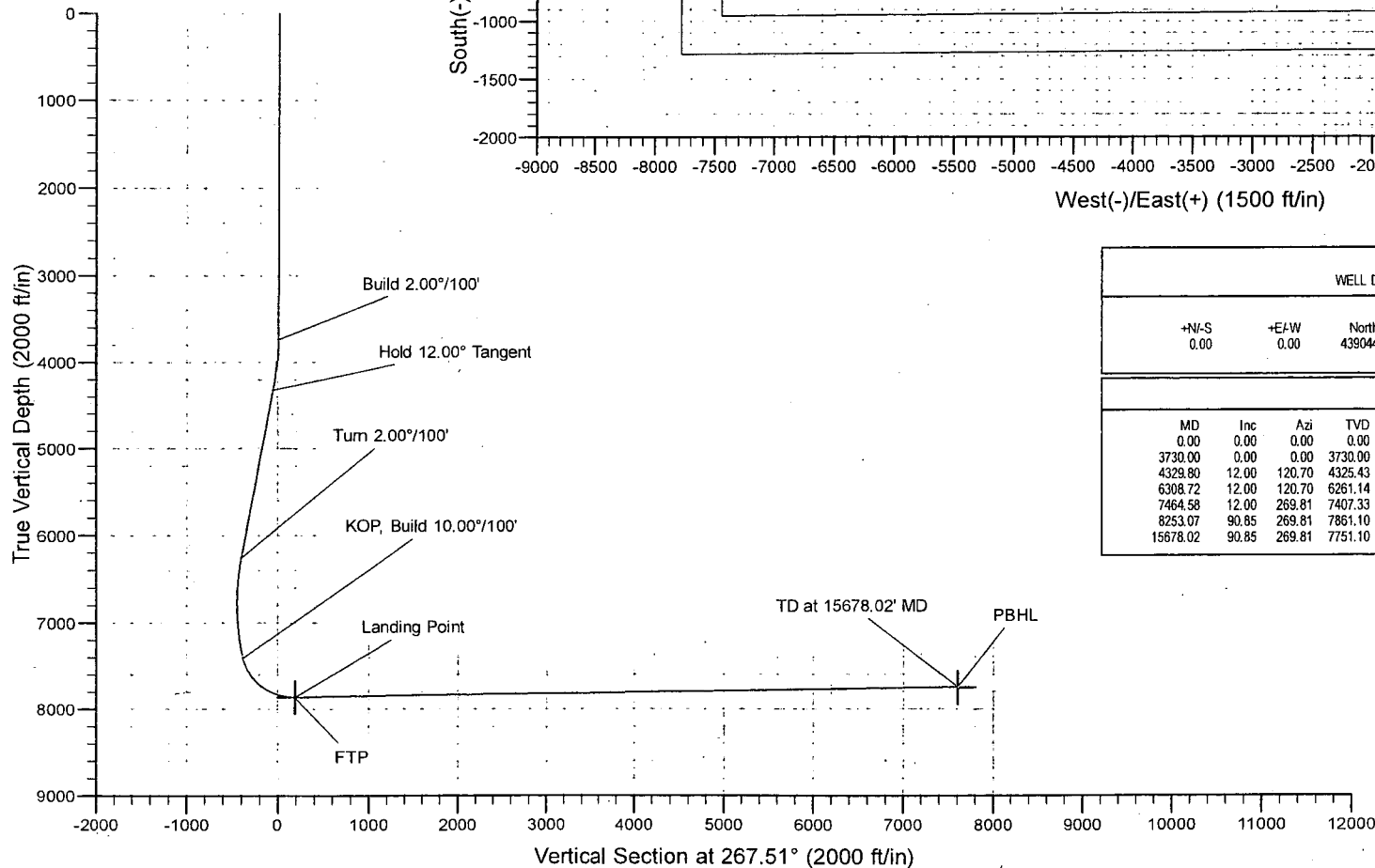
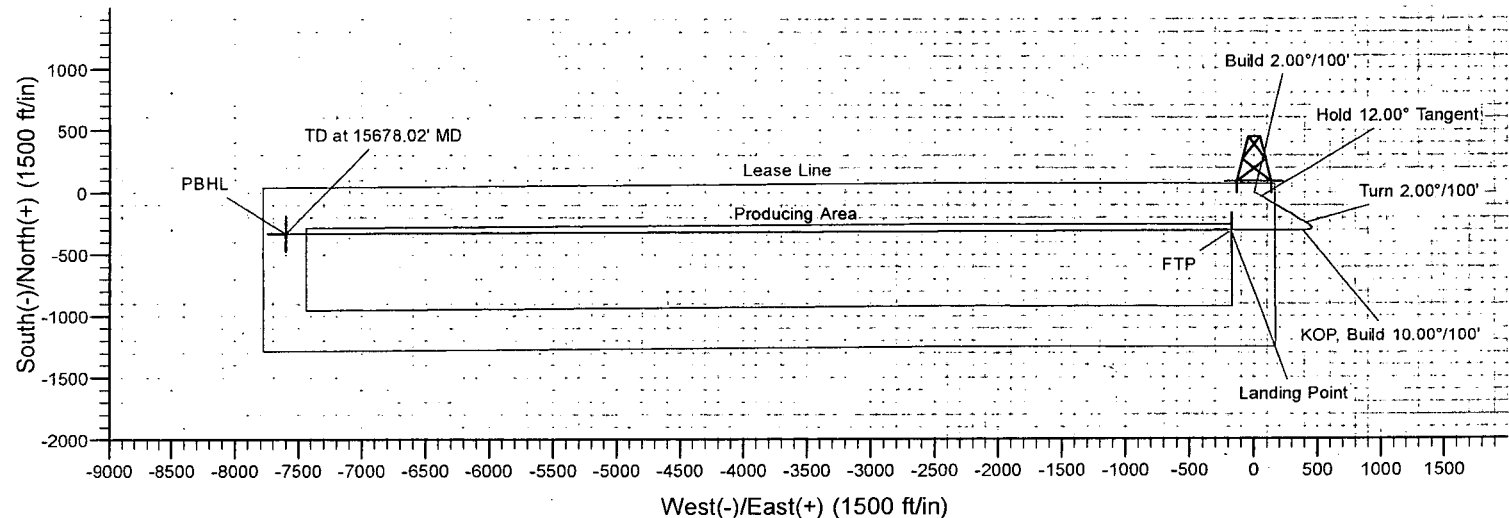
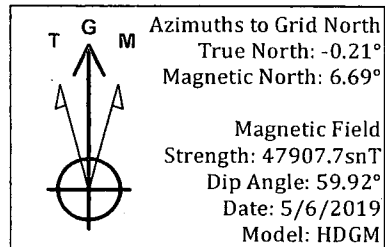
Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Local Coordinates	
3,730.00	3,730.00	0.00	0.00	Build 2.00°/100'	
4,329.80	4,325.43	-31.94	53.79	Hold 12.00° Tangent	
6,308.72	6,261.13	-241.96	407.44	Turn 2.00°/100'	
7,464.58	7,407.33	-304.54	390.33	KOP, Build 10.00°/100'	
8,253.07	7,861.10	-306.42	-178.60	Landing Point	
15,678.02	7,751.10	-330.99	-7,602.69	TD at 15678.02' MD	



Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
 Site: GUACAMOLE CC 24-23 FED
 Well: Guacamole CC 24_23 Federal 12H
 Wellbore: Wellbore #1
 Design: Permitting Plan

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

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: Guacamole CC 24_23 Federal 12H									
		Ground Level:		3094.60					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
0.00	0.00	439044.97	663429.18	32° 12' 23.023429 N	103° 56' 18.918855 W				
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3730.00	0.00	0.00	3730.00	0.00	0.00	0.00	0.00	0.00	Build 2.00°/100'
4329.80	12.00	120.70	4325.43	-31.94	53.79	2.00	120.70	-52.35	Hold 12.00° Tangent
6308.72	12.00	120.70	6261.14	-241.96	407.44	0.00	0.00	-396.53	Turn 2.00°/100'
7464.58	12.00	269.81	7407.33	-304.54	390.33	2.00	164.22	-376.71	KOP, Build 10.00°/100'
8253.07	90.85	269.81	7861.10	-306.42	-178.59	10.00	0.00	191.75	Landing Point
15678.02	90.85	269.81	7751.10	-330.99	-7602.70	0.00	0.00	7609.90	TD at 15678.02' MD