



Project: Roosevelt Co., NM (NAD 83)
 Site: Sec 5-7S-34E
 Well: Brown Eyed Girl #2H
 Wellbore: HZ [233737]
 Design: FINAL

HOBBS OCD
SEP 11 2017
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CATHEDRAL



Azimuths to Grid North
 True North: -0.47°
 Magnetic North: 6.76°

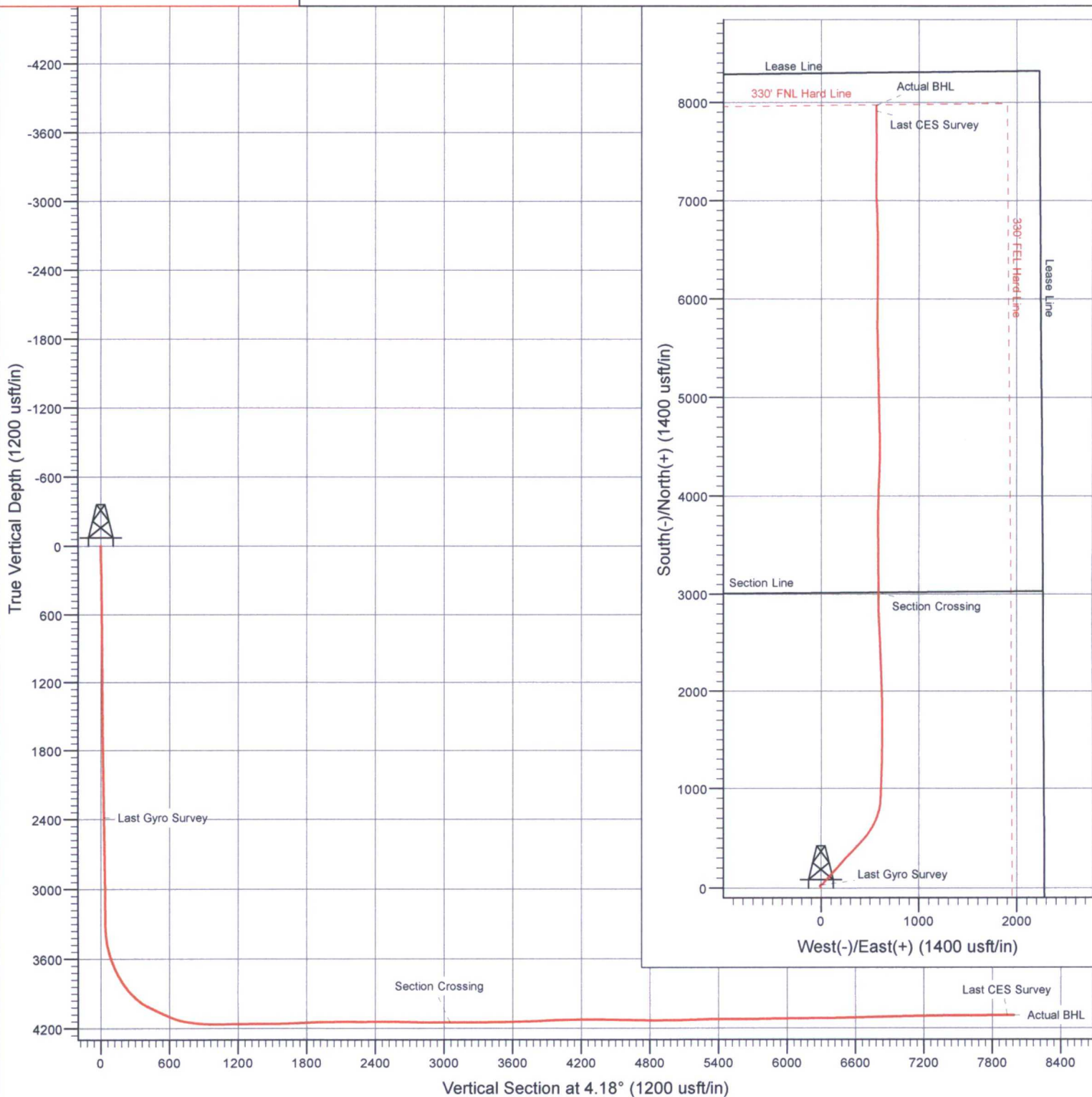
Magnetic Field
 Strength: 48890.4snT
 Dip Angle: 61.43°
 Date: 4/15/2017
 Model: HDGM

Ground Level: 4328.00
 Easting: 798862.90
 Latitude: 33° 44' 11.64 N
 Longitude: 103° 29' 10.44 W

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Annotation
2387.76	2388.00	1.10	33.00	28.29	-5.90	27.78	Last Gyro Survey
4150.82	6946.00	89.88	0.27	3016.90	586.34	3051.59	Section Crossing
4090.30	11843.00	90.20	359.50	7911.97	564.27	7932.05	Last CES Survey
4090.10	11900.00	90.20	359.50	7968.97	563.77	7988.86	Actual BHL

Actual Bottom Hole Location
 333' FNL / 1668' FEL
 X:799426.67 Y:1004560.27



Company:	Manzano LLC	Local Co-ordinate Reference:	Well Brown Eyed Girl #2H
Project:	Roosevelt Co., NM (NAD 83)	TVD Reference:	13' RKB @ 4341.00usft (Norton 4)
Site:	Sec 5-7S-34E	MD Reference:	13' RKB @ 4341.00usft (Norton 4)
Well:	Brown Eyed Girl #2H	North Reference:	Grid
Wellbore:	HZ [233737]	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Project	Roosevelt Co., NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Sec 5-7S-34E			
Site Position:		Northing:	996,893.13 usft	Latitude:	33° 44' 14.65 N
From:	Map	Easting:	798,473.13 usft	Longitude:	103° 29' 15.02 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.47 °

Well		Brown Eyed Girl #2H				
Well Position	+N/-S	0.00 usft	Northing:	996,591.30 usft	Latitude:	33° 44' 11.64 N
	+E/-W	0.00 usft	Easting:	798,862.90 usft	Longitude:	103° 29' 10.44 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	4,328.00 usft

Wellbore	HZ [233737]				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	4/15/2017	7.23	61.43	48,890

Design	FINAL				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	4.18	

Survey Program	Date	5/2/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
103.00	2,388.00	Surface Surveys (HZ [233737])	ISCWSA MWD	MWD - ISCWSA	
2,465.00	11,900.00	CES MWD (HZ [233737])	MWD+HDGM	OWSG MWD + HDGM	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
103.00	0.80	29.00	103.00	0.63	0.35	0.65	0.78	0.78	
194.00	1.10	326.00	193.99	1.91	0.17	1.92	1.13	0.33	
288.00	0.80	31.00	287.98	3.22	0.00	3.21	1.12	-0.32	
379.00	0.60	7.00	378.97	4.24	0.39	4.25	0.39	-0.22	
471.00	0.80	308.00	470.96	5.11	-0.06	5.09	0.77	0.22	
563.00	0.30	272.00	562.96	5.51	-0.81	5.44	0.64	-0.54	
654.00	0.50	1.00	653.96	5.92	-1.04	5.83	0.64	0.22	
749.00	0.60	339.00	748.95	6.80	-1.21	6.69	0.24	0.11	
844.00	0.70	256.00	843.95	7.12	-1.95	6.96	0.91	0.11	
940.00	1.10	347.00	939.94	7.88	-2.73	7.66	1.37	0.42	
1,036.00	0.60	35.00	1,035.93	9.19	-2.65	8.97	0.86	-0.52	

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Well:	Brown Eyed Girl #2H	North Reference:	Grid
Wellbore:	HZ [233737]	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
1,131.00	1.00	317.00	1,130.92	10.20	-2.93	9.96	1.11	0.42	
1,226.00	1.10	348.00	1,225.91	11.70	-3.68	11.40	0.60	0.11	
1,321.00	0.60	341.00	1,320.90	13.06	-4.03	12.73	0.54	-0.53	
1,417.00	1.20	319.00	1,416.89	14.30	-4.86	13.90	0.71	0.62	
1,512.00	0.60	329.00	1,511.87	15.47	-5.76	15.01	0.65	-0.63	
1,607.00	1.20	330.00	1,606.86	16.76	-6.52	16.24	0.63	0.63	
1,798.00	0.50	342.00	1,797.84	19.29	-7.78	18.67	0.38	-0.37	
1,893.00	0.50	354.00	1,892.84	20.09	-7.95	19.46	0.11	0.00	
1,989.00	1.10	342.00	1,988.83	21.39	-8.28	20.73	0.65	0.62	
2,084.00	1.20	21.00	2,083.81	23.18	-8.20	22.52	0.81	0.11	
2,167.00	1.20	12.00	2,166.79	24.84	-7.71	24.22	0.23	0.00	
2,262.00	0.90	33.00	2,261.77	26.44	-7.10	25.85	0.51	-0.32	
2,388.00	1.10	33.00	2,387.76	28.29	-5.90	27.78	0.16	0.16	Last Gyro Survey
2,465.00	1.20	56.30	2,464.74	29.35	-4.82	28.92	0.62	0.13	
2,560.00	1.80	65.70	2,559.71	30.52	-2.64	30.25	0.68	0.63	
2,654.00	1.90	77.50	2,653.66	31.46	0.23	31.40	0.42	0.11	
2,750.00	2.00	72.70	2,749.60	32.31	3.38	32.47	0.20	0.10	
2,845.00	2.50	63.70	2,844.53	33.72	6.82	34.12	0.64	0.53	
2,940.00	2.40	63.10	2,939.44	35.54	10.45	36.20	0.11	-0.11	
3,036.00	2.10	64.60	3,035.37	37.20	13.84	38.11	0.32	-0.31	
3,132.00	1.70	66.50	3,131.32	38.52	16.73	39.64	0.42	-0.42	
3,227.00	1.40	76.50	3,226.28	39.35	19.15	40.64	0.42	-0.32	
3,291.00	1.00	79.90	3,290.27	39.63	20.46	41.02	0.63	-0.62	
3,322.00	0.90	81.40	3,321.26	39.72	20.97	41.14	0.33	-0.32	
3,354.00	2.10	63.30	3,353.25	40.02	21.74	41.50	3.99	3.75	
3,386.00	5.10	42.20	3,385.19	41.34	23.22	42.92	10.09	9.37	
3,417.00	7.40	37.40	3,416.00	43.94	25.36	45.67	7.60	7.42	
3,449.00	10.30	35.70	3,447.62	47.91	28.28	49.84	9.10	9.06	
3,481.00	13.80	37.10	3,478.91	53.27	32.25	55.48	10.97	10.94	
3,513.00	16.90	40.40	3,509.76	59.86	37.57	62.44	10.06	9.69	
3,545.00	18.90	44.10	3,540.21	67.13	44.19	70.17	7.19	6.25	
3,576.00	21.10	44.20	3,569.34	74.73	51.58	78.29	7.10	7.10	
3,608.00	23.60	41.70	3,598.93	83.65	59.86	87.78	8.36	7.81	
3,640.00	25.80	38.90	3,628.01	93.85	68.49	98.59	7.79	6.87	
3,672.00	27.50	40.80	3,656.61	104.86	77.69	110.24	5.94	5.31	
3,703.00	29.70	43.70	3,683.82	115.84	87.68	121.91	8.39	7.10	
3,735.00	32.60	45.10	3,711.21	127.65	99.26	134.55	9.34	9.06	
3,766.00	35.00	45.10	3,736.96	139.83	111.48	147.57	7.74	7.74	
3,798.00	37.00	43.60	3,762.85	153.28	124.62	161.95	6.83	6.25	
3,830.00	39.00	42.70	3,788.07	167.65	138.09	177.27	6.49	6.25	
3,862.00	41.50	41.20	3,812.49	183.03	151.90	193.61	8.38	7.81	
3,893.00	43.30	41.00	3,835.38	198.79	165.65	210.32	5.82	5.81	
3,925.00	45.60	41.50	3,858.22	215.63	180.42	228.20	7.27	7.19	
3,957.00	48.10	42.10	3,880.11	233.03	195.98	246.69	7.93	7.81	
3,988.00	49.80	41.60	3,900.46	250.45	211.58	265.19	5.62	5.48	
4,020.00	50.90	40.40	3,920.88	269.04	227.74	284.91	4.49	3.44	
4,052.00	53.50	42.70	3,940.50	287.95	244.51	305.00	9.91	8.12	
4,084.00	56.00	44.20	3,958.96	306.92	262.49	325.22	8.70	7.81	
4,115.00	60.70	44.30	3,975.23	325.82	280.90	345.41	15.16	15.16	
4,147.00	63.70	44.30	3,990.15	346.07	300.66	367.05	9.37	9.37	
4,179.00	67.10	44.20	4,003.47	366.91	320.96	389.32	10.63	10.62	
4,211.00	70.20	43.80	4,015.12	388.35	341.66	412.20	9.76	9.69	
4,243.00	70.31	44.00	4,025.93	410.05	362.55	435.37	0.68	0.34	

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Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
4,275.00	70.40	43.70	4,036.69	431.78	383.43	458.57	0.93	0.28	
4,306.00	70.30	43.70	4,047.11	452.89	403.60	481.09	0.32	-0.32	
4,338.00	70.10	43.60	4,057.95	474.68	424.38	504.33	0.69	-0.62	
4,370.00	70.30	42.20	4,068.79	496.73	444.87	527.82	4.16	0.62	
4,402.00	70.20	39.40	4,079.61	519.53	464.55	551.98	8.24	-0.31	
4,433.00	70.40	36.20	4,090.06	542.59	482.44	576.28	9.74	0.65	
4,465.00	69.90	32.00	4,100.93	567.50	499.31	602.36	12.44	-1.56	
4,497.00	69.20	30.70	4,112.11	593.11	514.91	629.03	4.39	-2.19	
4,529.00	71.90	29.50	4,122.76	619.21	530.03	656.17	9.15	8.44	
4,561.00	75.50	27.70	4,131.74	646.17	544.73	684.13	12.48	11.25	
4,593.00	78.50	24.00	4,138.94	674.23	558.32	713.10	14.66	9.37	
4,625.00	80.00	20.60	4,144.91	703.31	570.24	742.97	11.44	4.69	
4,657.00	81.20	17.60	4,150.14	733.14	580.57	773.48	9.98	3.75	
4,688.00	83.20	14.50	4,154.35	762.65	589.06	803.53	11.82	6.45	
4,720.00	84.20	11.30	4,157.86	793.65	596.16	834.96	10.42	3.12	
4,752.00	85.00	8.90	4,160.87	825.01	601.74	866.65	7.87	2.50	
4,783.00	86.30	6.20	4,163.23	855.65	605.80	897.50	9.64	4.19	
4,815.00	87.50	2.60	4,164.96	887.50	608.25	929.45	11.84	3.75	
4,846.00	88.80	2.40	4,165.96	918.46	609.60	960.42	4.24	4.19	
4,941.00	91.30	3.10	4,165.87	1,013.34	614.16	1,055.38	2.73	2.63	
5,036.00	90.70	1.60	4,164.22	1,108.24	618.06	1,150.31	1.70	-0.63	
5,131.00	90.30	1.00	4,163.39	1,203.21	620.21	1,245.19	0.76	-0.42	
5,225.00	90.40	0.70	4,162.81	1,297.20	621.61	1,339.03	0.34	0.11	
5,320.00	89.80	1.20	4,162.65	1,392.19	623.18	1,433.88	0.82	-0.63	
5,415.00	91.00	0.90	4,161.98	1,487.17	624.92	1,528.73	1.30	1.26	
5,510.00	91.50	0.90	4,159.91	1,582.13	626.41	1,623.55	0.53	0.53	
5,603.00	92.40	359.80	4,156.75	1,675.07	626.98	1,716.29	1.53	0.97	
5,699.00	92.90	359.00	4,152.31	1,770.96	625.98	1,811.85	0.98	0.52	
5,793.00	91.60	358.80	4,148.62	1,864.87	624.17	1,905.38	1.40	-1.38	
5,888.00	91.50	358.40	4,146.05	1,959.81	621.85	1,999.90	0.43	-0.11	
5,983.00	89.70	357.30	4,145.05	2,054.73	618.29	2,094.31	2.22	-1.89	
6,079.00	90.20	358.10	4,145.14	2,150.65	614.44	2,189.69	0.98	0.52	
6,172.00	89.70	358.70	4,145.22	2,243.62	611.84	2,282.22	0.84	-0.54	
6,267.00	90.40	359.60	4,145.14	2,338.60	610.43	2,376.85	1.20	0.74	
6,361.00	90.20	358.90	4,144.64	2,432.59	609.20	2,470.50	0.77	-0.21	
6,456.00	89.40	356.90	4,144.98	2,527.52	605.72	2,564.93	2.27	-0.84	
6,551.00	89.00	356.20	4,146.30	2,622.34	600.00	2,659.08	0.85	-0.42	
6,647.00	88.10	356.10	4,148.73	2,718.09	593.56	2,754.11	0.94	-0.94	
6,742.00	89.30	357.80	4,150.89	2,812.93	588.51	2,848.32	2.19	1.26	
6,837.00	90.40	359.60	4,151.13	2,907.90	586.35	2,942.88	2.22	1.16	
6,932.00	90.00	0.30	4,150.80	3,002.90	586.27	3,037.62	0.85	-0.42	
6,946.00	89.88	0.27	4,150.82	3,016.90	586.34	3,051.59	0.87	-0.84	Section Crossing
7,027.00	89.20	0.10	4,151.47	3,097.89	586.60	3,132.39	0.87	-0.84	
7,123.00	91.40	0.40	4,150.96	3,193.89	587.02	3,228.16	2.31	2.29	
7,218.00	89.80	358.80	4,149.97	3,288.87	586.36	3,322.84	2.38	-1.68	
7,313.00	91.50	0.10	4,148.89	3,383.86	585.44	3,417.51	2.25	1.79	
7,408.00	90.40	359.50	4,147.32	3,478.84	585.11	3,512.22	1.32	-1.16	
7,503.00	91.60	359.90	4,145.66	3,573.82	584.62	3,606.91	1.33	1.26	
7,598.00	91.50	358.80	4,143.09	3,668.78	583.54	3,701.54	1.16	-0.11	
7,694.00	92.70	0.60	4,139.57	3,764.71	583.03	3,797.18	2.25	1.25	
7,789.00	92.90	1.00	4,134.93	3,859.59	584.36	3,891.90	0.47	0.21	
7,884.00	92.20	1.30	4,130.70	3,954.47	586.26	3,986.67	0.80	-0.74	
7,979.00	92.10	1.30	4,127.14	4,049.38	588.42	4,081.48	0.11	-0.11	

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Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
8,004.00	91.90	1.10	4,126.27	4,074.36	588.94	4,106.43	1.13	-0.80	
8,099.00	89.40	3.00	4,125.19	4,169.28	592.34	4,201.35	3.31	-2.63	
8,193.00	89.10	2.20	4,126.42	4,263.18	596.60	4,295.31	0.91	-0.32	
8,288.00	90.20	1.60	4,127.00	4,358.12	599.75	4,390.23	1.32	1.16	
8,383.00	89.00	0.30	4,127.66	4,453.10	601.33	4,485.07	1.86	-1.26	
8,478.00	89.30	359.10	4,129.07	4,548.09	600.83	4,579.77	1.30	0.32	
8,574.00	89.20	358.90	4,130.33	4,644.06	599.16	4,675.37	0.23	-0.10	
8,669.00	88.50	358.90	4,132.24	4,739.03	597.33	4,769.95	0.74	-0.74	
8,764.00	89.70	358.10	4,133.73	4,833.98	594.85	4,864.47	1.52	1.26	
8,859.00	91.10	357.90	4,133.06	4,928.92	591.53	4,958.91	1.49	1.47	
8,953.00	90.00	358.00	4,132.16	5,022.85	588.17	5,052.35	1.18	-1.17	
9,048.00	92.30	359.00	4,130.26	5,117.79	585.68	5,146.86	2.64	2.42	
9,143.00	92.50	359.10	4,126.28	5,212.70	584.11	5,241.39	0.24	0.21	
9,239.00	90.70	359.50	4,123.60	5,308.65	582.94	5,337.01	1.92	-1.87	
9,334.00	90.50	359.00	4,122.60	5,403.63	581.69	5,431.65	0.57	-0.21	
9,429.00	90.20	359.10	4,122.02	5,498.62	580.12	5,526.27	0.33	-0.32	
9,524.00	89.90	358.70	4,121.94	5,593.60	578.29	5,620.86	0.53	-0.32	
9,619.00	90.60	358.90	4,121.52	5,688.58	576.30	5,715.45	0.77	0.74	
9,714.00	91.00	0.80	4,120.20	5,783.56	576.05	5,810.16	2.04	0.42	
9,809.00	90.90	0.90	4,118.62	5,878.54	577.46	5,904.99	0.15	-0.11	
9,904.00	90.80	0.30	4,117.21	5,973.52	578.46	5,999.79	0.64	-0.11	
9,999.00	90.80	0.50	4,115.89	6,068.51	579.12	6,094.58	0.21	0.00	
10,094.00	90.60	0.20	4,114.73	6,163.50	579.70	6,189.36	0.38	-0.21	
10,190.00	90.40	359.90	4,113.89	6,259.50	579.79	6,285.10	0.38	-0.21	
10,285.00	90.20	0.30	4,113.39	6,354.50	579.95	6,379.86	0.47	-0.21	
10,380.00	91.70	0.20	4,111.82	6,449.48	580.37	6,474.62	1.58	1.58	
10,475.00	90.80	359.20	4,109.74	6,544.46	579.87	6,569.31	1.42	-0.95	
10,570.00	91.60	358.90	4,107.75	6,639.42	578.29	6,663.91	0.90	0.84	
10,665.00	91.50	358.70	4,105.18	6,734.37	576.31	6,758.45	0.24	-0.11	
10,760.00	91.30	358.20	4,102.86	6,829.30	573.74	6,852.95	0.57	-0.21	
10,855.00	90.90	357.10	4,101.04	6,924.20	569.84	6,947.32	1.23	-0.42	
10,950.00	91.60	358.10	4,098.97	7,019.10	565.86	7,041.67	1.28	0.74	
11,045.00	91.80	359.50	4,096.15	7,114.03	563.88	7,136.21	1.49	0.21	
11,141.00	90.60	0.60	4,094.14	7,210.01	563.96	7,231.93	1.70	-1.25	
11,236.00	90.20	0.90	4,093.48	7,305.00	565.20	7,326.76	0.53	-0.42	
11,331.00	90.20	0.50	4,093.14	7,399.99	566.36	7,421.58	0.42	0.00	
11,426.00	90.30	0.00	4,092.73	7,494.99	566.78	7,516.36	0.54	0.11	
11,521.00	90.20	359.90	4,092.31	7,589.98	566.70	7,611.10	0.15	-0.11	
11,616.00	90.40	359.60	4,091.82	7,684.98	566.28	7,705.82	0.38	0.21	
11,711.00	90.40	359.50	4,091.15	7,779.98	565.53	7,800.50	0.11	0.00	
11,806.00	90.40	359.40	4,090.49	7,874.97	564.62	7,895.18	0.11	0.00	
11,843.00	90.20	359.50	4,090.30	7,911.97	564.27	7,932.05	0.60	-0.54	Last CES Survey
11,900.00	90.20	359.50	4,090.10	7,968.97	563.77	7,988.86	0.00	0.00	Actual BHL

Company:	Manzano LLC	Local Co-ordinate Reference:	Well Brown Eyed Girl #2H
Project:	Roosevelt Co., NM (NAD 83)	TVD Reference:	13' RKB @ 4341.00usft (Norton 4)
Site:	Sec 5-7S-34E	MD Reference:	13' RKB @ 4341.00usft (Norton 4)
Well:	Brown Eyed Girl #2H	North Reference:	Grid
Wellbore:	HZ [233737]	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
BEG 5 #2H - BHL 1	0.00	0.00	4,070.00	7,972.10	582.20	1,004,563.40	799,445.10	33° 45' 30.45 N	103° 29' 2.77 W
- actual wellpath misses target center by 27.45usft at 11900.00usft MD (4090.10 TVD, 7968.97 N, 563.77 E)									
- Point									
BEG 5 #2H - BHL 3	0.00	0.00	4,090.00	7,972.10	582.20	1,004,563.40	799,445.10	33° 45' 30.45 N	103° 29' 2.77 W
- actual wellpath misses target center by 18.69usft at 11900.00usft MD (4090.10 TVD, 7968.97 N, 563.77 E)									
- Point									

Design Annotations					
Measured Depth	Vertical	Local Coordinates			
Depth	Depth	+N/-S	+E/-W		
(usft)	(usft)	(usft)	(usft)	Comment	
2,388.00	2,387.76	28.29	-5.90	Last Gyro Survey	
6,946.00	4,150.82	3,016.90	586.34	Section Crossing	
11,843.00	4,090.30	7,911.97	564.27	Last CES Survey	
11,900.00	4,090.10	7,968.97	563.77	Actual BHL	

Checked By: _____ Approved By: _____ Date: _____