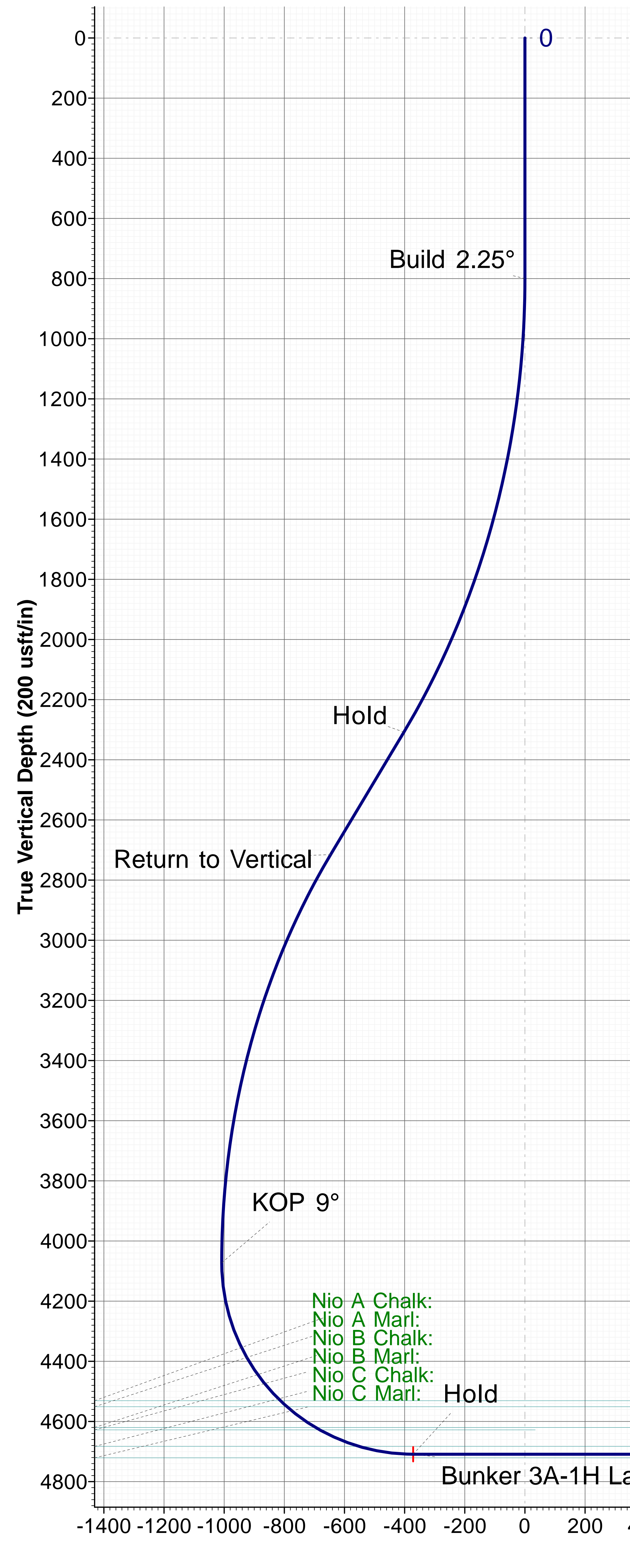


DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
Bunker 3A-1H Landing Rev 3	709.00	719.29	372.67	1920612.66	3130171.66	40.359935	-105.032991	
Bunker 3A-1H TD Rev 3	4709.00	725.02	-3679.87	1920597.62	3126119.14	40.359950	-105.047530	

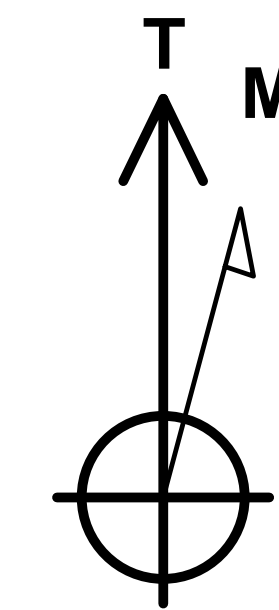
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	Build 2.25°
2413.92	36.31	54.56	2308.02	286.78	402.90	2.25	-402.50	Hold
2919.19	36.31	54.56	2715.16	460.30	646.68	0.00	-646.03	Return to Vertical
4371.71	0.00	0.00	4072.38	718.40	1009.29	2.50	-1008.29	KOP 9°
5371.71	90.00	270.08	4709.00	719.29	372.67	9.00	-371.67	TPZ 1430 FNL & 2017 FWL
9424.26	90.00	270.08	4709.00	725.02	-3679.87	0.00	3680.88	BHL 1430 FNL & 2036 FEL



WELL DETAILS						
Ground Level: 5053.00						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	1919891.47	3129802.69	40.357961	-105.034328	

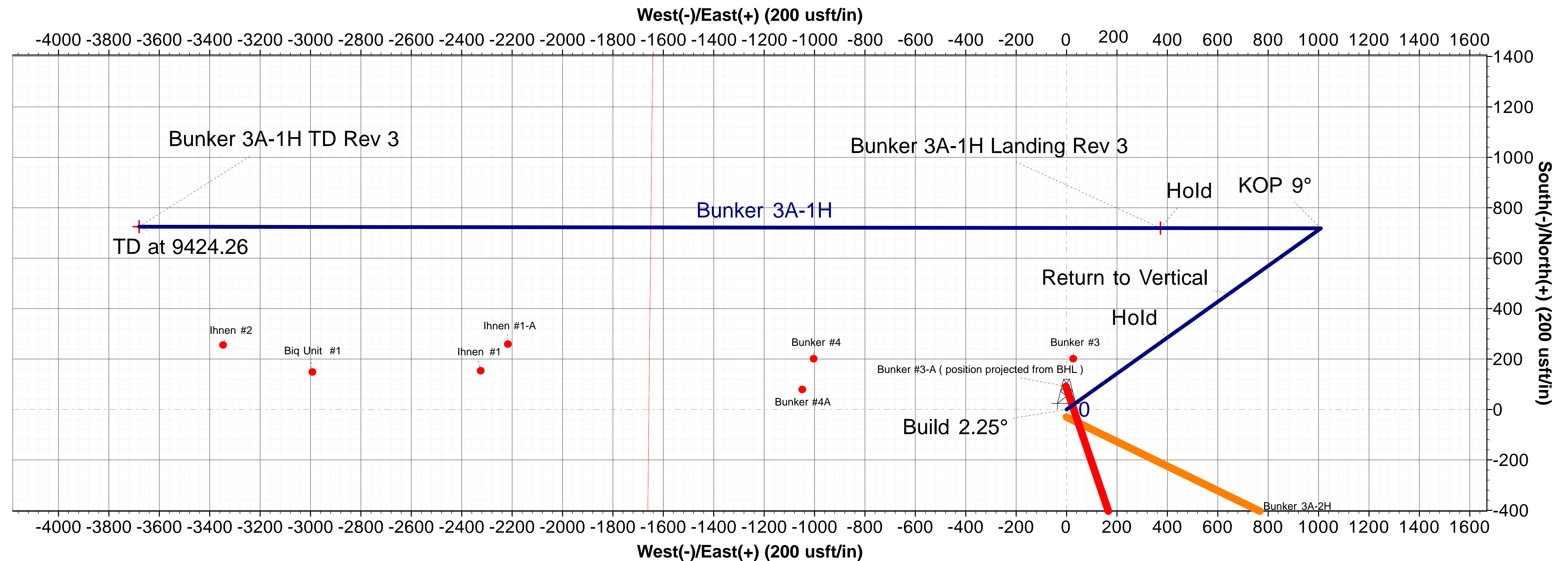
## Summit Energy Research

Project: Larimer County Colorado ( NAD 83 )  
 Site: Bunker 3H Pad  
 Well: Bunker 3A-1H  
 Wellbore: Bunker 3A-1H  
 Design: Bunker 3A-1H Plan 4  
 Rig:

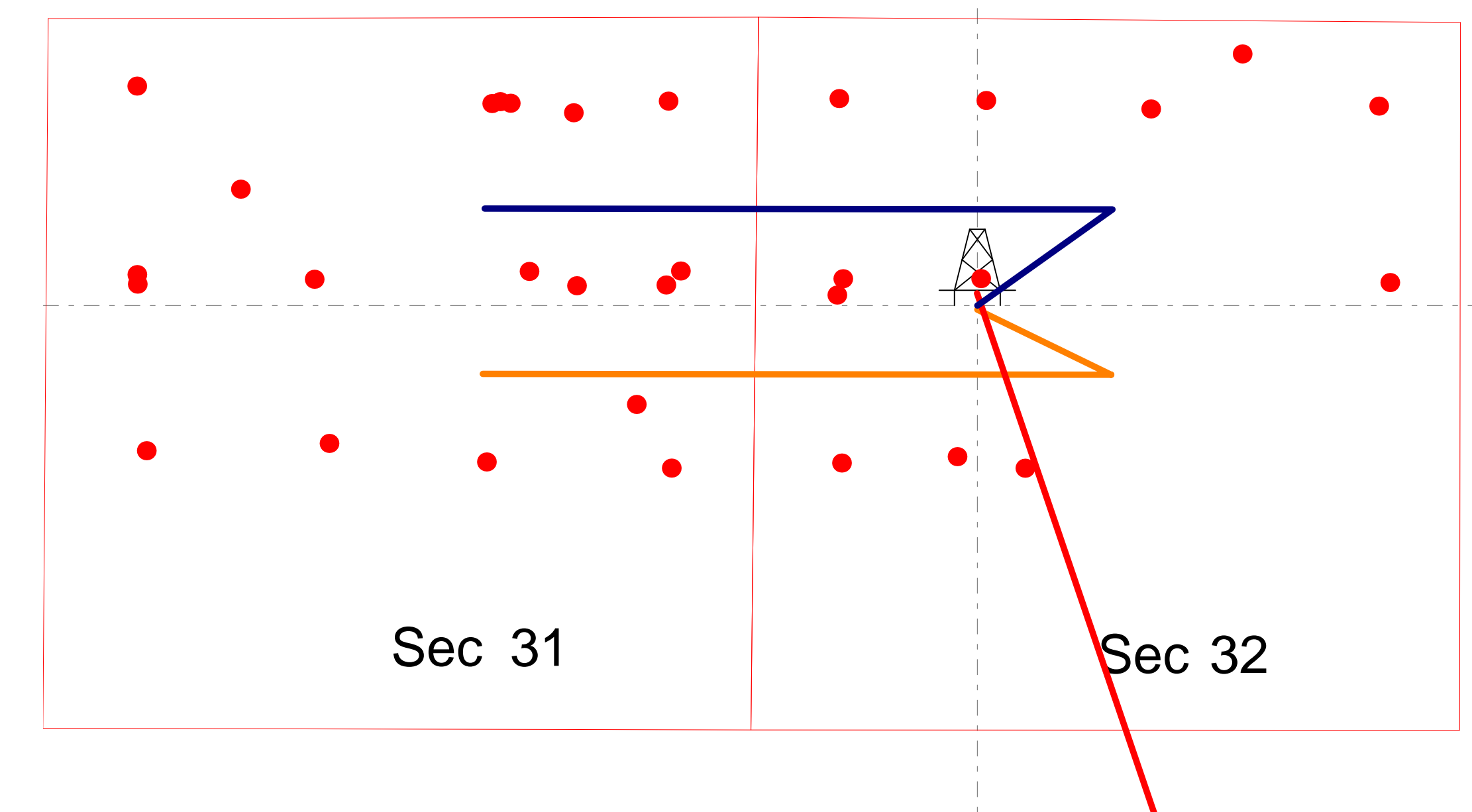


Azimuths to True North  
 Magnetic North: 8.46°  
 Magnetic Field  
 Strength: 52239.7snT  
 Dip Angle: 66.75°  
 Date: 1/30/2018  
 Model: BGGM2017

Map System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone Name: Colorado Central Zone  
 5053'GL+18'KB @ 5071.00usft  
 Ground Level: 5053.00



**HALLIBURTON** | Sperry Drilling



# Summit Energy Research

Larimer County Colorado ( NAD 83 ) Bunker 3H Pad

API#

**Bunker 3A-1H**

**Bunker 3A-1H**

**Plan: Bunker 3A-1H Plan 4**

Please review plan for SCC Application or Non-Mag Spacing.

Highlighted plan sections are within the Short Collar Correction (SCC) Instability Zone

## Sperry Drilling Services

### Combo Report

16 January, 2018

Well Coordinates: 40° 21' 28.66" N  
105° 02' 03.58" W

North American Datum 1983  
Colorado Central Zone  
1,919,891.47 N  
3,129,802.69 E

Ground Level: 5,053.00 usft

Local Coordinate Origin:

Centered on Well Bunker 3A-1H

Viewing Datum:

5053'GL+18'KB @ 5071.00usft

TVDs to System:

N

**North Reference:**

**True**

Unit System:

Two Dec

Version: 5000.1 Build: 81D

Report Version: Midcon Combo v1.11

**HALLIBURTON**

## Plan Report for Bunker 3A-1H - Bunker 3A-1H Plan 4

Measured Depth (usft)	Inclination (°)	True Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
0.00	0.00	0.00	-5,071.00	0.00	0.00 N	0.00 E	1,919,891.47	3,129,802.69	0.00	0.00	
100.00	0.00	0.00	-4,971.00	100.00	0.00 N	0.00 E	1,919,891.47	3,129,802.69	0.00	0.00	
200.00	0.00	0.00	-4,871.00	200.00	0.00 N	0.00 E	1,919,891.47	3,129,802.69	0.00	0.00	
300.00	0.00	0.00	-4,771.00	300.00	0.00 N	0.00 E	1,919,891.47	3,129,802.69	0.00	0.00	
400.00	0.00	0.00	-4,671.00	400.00	0.00 N	0.00 E	1,919,891.47	3,129,802.69	0.00	0.00	
500.00	0.00	0.00	-4,571.00	500.00	0.00 N	0.00 E	1,919,891.47	3,129,802.69	0.00	0.00	
600.00	0.00	0.00	-4,471.00	600.00	0.00 N	0.00 E	1,919,891.47	3,129,802.69	0.00	0.00	
700.00	0.00	0.00	-4,371.00	700.00	0.00 N	0.00 E	1,919,891.47	3,129,802.69	0.00	0.00	
800.00	0.00	0.00	-4,271.00	800.00	0.00 N	0.00 E	1,919,891.47	3,129,802.69	0.00	0.00	Build 2.25°
900.00	2.25	54.56	-4,171.03	899.97	1.14 N	1.60 E	1,919,892.61	3,129,804.28	2.25	-1.60	
1,000.00	4.50	54.56	-4,071.21	999.79	4.55 N	6.40 E	1,919,896.05	3,129,809.06	2.25	-6.39	
1,100.00	6.75	54.56	-3,971.69	1,099.31	10.24 N	14.38 E	1,919,901.77	3,129,817.01	2.25	-14.37	
1,200.00	9.00	54.56	-3,872.64	1,198.36	18.18 N	25.54 E	1,919,909.78	3,129,828.13	2.25	-25.52	
1,300.00	11.25	54.56	-3,774.21	1,296.79	28.37 N	39.86 E	1,919,920.04	3,129,842.40	2.25	-39.82	
1,400.00	13.50	54.56	-3,676.54	1,394.46	40.80 N	57.32 E	1,919,932.56	3,129,859.80	2.25	-57.26	
1,500.00	15.75	54.56	-3,579.78	1,491.22	55.44 N	77.89 E	1,919,947.31	3,129,880.29	2.25	-77.81	
1,600.00	18.00	54.56	-3,484.09	1,586.91	72.27 N	101.54 E	1,919,964.26	3,129,903.85	2.25	-101.44	
1,700.00	20.25	54.56	-3,389.62	1,681.38	91.27 N	128.23 E	1,919,983.39	3,129,930.44	2.25	-128.10	
1,800.00	22.50	54.56	-3,296.50	1,774.50	112.41 N	157.92 E	1,920,004.68	3,129,960.03	2.25	-157.76	
1,900.00	24.75	54.56	-3,204.89	1,866.11	135.64 N	190.57 E	1,920,028.08	3,129,992.55	2.25	-190.38	
2,000.00	27.00	54.56	-3,114.92	1,956.08	160.95 N	226.12 E	1,920,053.57	3,130,027.98	2.25	-225.89	
2,100.00	29.25	54.56	-3,026.74	2,044.26	188.28 N	264.52 E	1,920,081.10	3,130,066.24	2.25	-264.26	
2,200.00	31.50	54.56	-2,940.47	2,130.53	217.60 N	305.71 E	1,920,110.63	3,130,107.28	2.25	-305.41	
2,300.00	33.75	54.56	-2,856.25	2,214.75	248.86 N	349.63 E	1,920,142.12	3,130,151.04	2.25	-349.29	
2,400.00	36.00	54.56	-2,774.22	2,296.78	282.02 N	396.21 E	1,920,175.51	3,130,197.45	2.25	-395.82	
2,413.92	36.31	54.56	-2,762.98	2,308.02	286.78 N	402.90 E	1,920,180.31	3,130,204.11	2.25	-402.50	Hold
2,500.00	36.31	54.56	-2,693.62	2,377.38	316.34 N	444.44 E	1,920,210.08	3,130,245.49	0.00	-443.99	
2,600.00	36.31	54.56	-2,613.04	2,457.96	350.68 N	492.68 E	1,920,244.67	3,130,293.56	0.00	-492.19	
2,700.00	36.31	54.56	-2,532.46	2,538.54	385.03 N	540.93 E	1,920,279.26	3,130,341.63	0.00	-540.39	
2,800.00	36.31	54.56	-2,451.88	2,619.12	419.37 N	589.17 E	1,920,313.85	3,130,389.70	0.00	-588.59	
2,900.00	36.31	54.56	-2,371.30	2,699.70	453.71 N	637.42 E	1,920,348.43	3,130,437.77	0.00	-636.79	
2,919.19	36.31	54.56	-2,355.84	2,715.16	460.30 N	646.68 E	1,920,355.07	3,130,446.99	0.00	-646.03	Return to Vertical
3,000.00	34.29	54.56	-2,289.89	2,781.11	487.38 N	684.72 E	1,920,382.35	3,130,484.90	2.50	-684.04	
3,100.00	31.79	54.56	-2,206.07	2,864.93	518.99 N	729.14 E	1,920,414.19	3,130,529.16	2.50	-728.42	
3,200.00	29.29	54.56	-2,119.95	2,951.05	548.46 N	770.54 E	1,920,443.87	3,130,570.40	2.50	-769.77	
3,300.00	26.79	54.56	-2,031.70	3,039.30	575.72 N	808.84 E	1,920,471.32	3,130,608.56	2.50	-808.03	
3,400.00	24.29	54.56	-1,941.48	3,129.52	600.72 N	843.96 E	1,920,496.51	3,130,643.56	2.50	-843.12	
3,500.00	21.79	54.56	-1,849.47	3,221.53	623.42 N	875.85 E	1,920,519.37	3,130,675.33	2.50	-874.98	
3,600.00	19.29	54.56	-1,755.83	3,315.17	643.77 N	904.44 E	1,920,539.86	3,130,703.81	2.50	-903.54	
3,700.00	16.79	54.56	-1,660.76	3,410.24	661.73 N	929.67 E	1,920,557.95	3,130,728.95	2.50	-928.74	
3,800.00	14.29	54.56	-1,564.42	3,506.58	677.26 N	951.50 E	1,920,573.60	3,130,750.70	2.50	-950.55	



## Plan Report for Bunker 3A-1H - Bunker 3A-1H Plan 4

Measured Depth (usft)	Inclination (°)	True Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
3,900.00	11.79	54.56	-1,467.01	3,603.99	690.35 N	969.88 E	1,920,586.78	3,130,769.01	2.50	-968.92	
4,000.00	9.29	54.56	-1,368.71	3,702.29	700.96 N	984.79 E	1,920,597.46	3,130,783.86	2.50	-983.81	
4,100.00	6.79	54.56	-1,269.70	3,801.30	709.07 N	996.18 E	1,920,605.63	3,130,795.22	2.50	-995.19	
4,200.00	4.29	54.56	-1,170.17	3,900.83	714.67 N	1,004.05 E	1,920,611.27	3,130,803.06	2.50	-1,003.05	
4,300.00	1.79	54.56	-1,070.32	4,000.68	717.75 N	1,008.38 E	1,920,614.37	3,130,807.37	2.50	-1,007.37	
4,371.71	0.00	0.00	-998.62	4,072.38	718.40 N	1,009.29 E	1,920,615.03	3,130,808.28	2.50	-1,008.29	KOP 9°
4,400.00	2.55	270.08	-970.34	4,100.66	718.40 N	1,008.66 E	1,920,615.03	3,130,807.65	9.00	-1,007.66	
4,500.00	11.55	270.08	-871.20	4,199.80	718.42 N	996.41 E	1,920,614.98	3,130,795.40	9.00	-995.40	
4,600.00	20.55	270.08	-775.19	4,295.81	718.46 N	968.80 E	1,920,614.88	3,130,767.79	9.00	-967.79	
4,700.00	29.55	270.08	-684.69	4,386.31	718.52 N	926.50 E	1,920,614.72	3,130,725.49	9.00	-925.50	
4,800.00	38.55	270.08	-601.92	4,469.08	718.59 N	870.58 E	1,920,614.51	3,130,669.57	9.00	-869.57	
4,883.80	46.09	270.08	-540.00	4,531.00	718.67 N	814.20 E	1,920,614.30	3,130,613.20	9.00	-813.20	Nio A Chalk:
4,900.00	47.55	270.08	-528.91	4,542.09	718.69 N	802.39 E	1,920,614.26	3,130,601.38	9.00	-801.38	
4,913.36	48.75	270.08	-520.00	4,551.00	718.70 N	792.44 E	1,920,614.22	3,130,591.43	9.00	-791.44	Nio A Marl:
5,000.00	56.55	270.08	-467.47	4,603.53	718.80 N	723.62 E	1,920,613.96	3,130,522.61	9.00	-722.62	
5,031.03	59.34	270.08	-451.00	4,620.00	718.84 N	697.32 E	1,920,613.87	3,130,496.31	9.00	-696.32	Nio B Chalk:
5,047.06	60.78	270.08	-443.00	4,628.00	718.85 N	683.43 E	1,920,613.81	3,130,482.42	9.00	-682.43	Nio B Marl:
5,100.00	65.55	270.08	-419.11	4,651.89	718.92 N	636.21 E	1,920,613.64	3,130,435.20	9.00	-635.20	
5,189.14	73.57	270.08	-388.00	4,683.00	719.04 N	552.75 E	1,920,613.33	3,130,351.74	9.00	-551.74	Nio C Chalk:
5,200.00	74.55	270.08	-385.02	4,685.98	719.05 N	542.31 E	1,920,613.29	3,130,341.30	9.00	-541.30	
5,300.00	83.55	270.08	-366.04	4,704.96	719.19 N	444.23 E	1,920,612.92	3,130,243.22	9.00	-443.23	
5,371.71	90.00	270.08	-362.00	4,709.00	719.29 N	372.67 E	1,920,612.65	3,130,171.66	9.00	-371.67	Hold
5,400.00	90.00	270.08	-362.00	4,709.00	719.33 N	344.38 E	1,920,612.55	3,130,143.38	0.00	-343.38	
5,500.00	90.00	270.08	-362.00	4,709.00	719.47 N	244.38 E	1,920,612.18	3,130,043.38	0.00	-243.38	
5,600.00	90.00	270.08	-362.00	4,709.00	719.61 N	144.38 E	1,920,611.80	3,129,943.38	0.00	-143.38	
5,700.00	90.00	270.08	-362.00	4,709.00	719.75 N	44.38 E	1,920,611.43	3,129,843.38	0.00	-43.38	
5,800.00	90.00	270.08	-362.00	4,709.00	719.89 N	55.62 W	1,920,611.06	3,129,743.38	0.00	56.62	
5,900.00	90.00	270.08	-362.00	4,709.00	720.03 N	155.62 W	1,920,610.68	3,129,643.38	0.00	156.62	
6,000.00	90.00	270.08	-362.00	4,709.00	720.17 N	255.62 W	1,920,610.31	3,129,543.38	0.00	256.62	
6,100.00	90.00	270.08	-362.00	4,709.00	720.31 N	355.62 W	1,920,609.94	3,129,443.38	0.00	356.62	
6,200.00	90.00	270.08	-362.00	4,709.00	720.45 N	455.62 W	1,920,609.57	3,129,343.38	0.00	456.62	
6,300.00	90.00	270.08	-362.00	4,709.00	720.59 N	555.62 W	1,920,609.19	3,129,243.38	0.00	556.62	
6,400.00	90.00	270.08	-362.00	4,709.00	720.72 N	655.62 W	1,920,608.82	3,129,143.38	0.00	656.62	
6,500.00	90.00	270.08	-362.00	4,709.00	720.86 N	755.62 W	1,920,608.45	3,129,043.38	0.00	756.62	
6,600.00	90.00	270.08	-362.00	4,709.00	721.00 N	855.62 W	1,920,608.07	3,128,943.39	0.00	856.62	
6,700.00	90.00	270.08	-362.00	4,709.00	721.14 N	955.62 W	1,920,607.70	3,128,843.39	0.00	956.62	
6,800.00	90.00	270.08	-362.00	4,709.00	721.28 N	1,055.61 W	1,920,607.33	3,128,743.39	0.00	1,056.62	
6,900.00	90.00	270.08	-362.00	4,709.00	721.42 N	1,155.61 W	1,920,606.95	3,128,643.39	0.00	1,156.62	
7,000.00	90.00	270.08	-362.00	4,709.00	721.56 N	1,255.61 W	1,920,606.58	3,128,543.39	0.00	1,256.62	
7,100.00	90.00	270.08	-362.00	4,709.00	721.70 N	1,355.61 W	1,920,606.21	3,128,443.39	0.00	1,356.62	
7,200.00	90.00	270.08	-362.00	4,709.00	721.84 N	1,455.61 W	1,920,605.84	3,128,343.39	0.00	1,456.62	

## Plan Report for Bunker 3A-1H - Bunker 3A-1H Plan 4

Measured Depth (usft)	Inclination (°)	True Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
					Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)			
7,300.00	90.00	270.08	-362.00	4,709.00	721.98 N	1,555.61 W	1,920,605.46	3,128,243.39	0.00	1,556.62	
7,400.00	90.00	270.08	-362.00	4,709.00	722.12 N	1,655.61 W	1,920,605.09	3,128,143.39	0.00	1,656.62	
7,500.00	90.00	270.08	-362.00	4,709.00	722.26 N	1,755.61 W	1,920,604.72	3,128,043.39	0.00	1,756.62	
7,600.00	90.00	270.08	-362.00	4,709.00	722.40 N	1,855.61 W	1,920,604.34	3,127,943.39	0.00	1,856.62	
7,700.00	90.00	270.08	-362.00	4,709.00	722.54 N	1,955.61 W	1,920,603.97	3,127,843.39	0.00	1,956.62	
7,800.00	90.00	270.08	-362.00	4,709.00	722.68 N	2,055.61 W	1,920,603.60	3,127,743.39	0.00	2,056.62	
7,900.00	90.00	270.08	-362.00	4,709.00	722.82 N	2,155.61 W	1,920,603.23	3,127,643.39	0.00	2,156.62	
8,000.00	90.00	270.08	-362.00	4,709.00	722.96 N	2,255.61 W	1,920,602.85	3,127,543.40	0.00	2,256.62	
8,100.00	90.00	270.08	-362.00	4,709.00	723.10 N	2,355.61 W	1,920,602.48	3,127,443.40	0.00	2,356.62	
8,200.00	90.00	270.08	-362.00	4,709.00	723.24 N	2,455.61 W	1,920,602.11	3,127,343.40	0.00	2,456.62	
8,300.00	90.00	270.08	-362.00	4,709.00	723.38 N	2,555.61 W	1,920,601.73	3,127,243.40	0.00	2,556.62	
8,400.00	90.00	270.08	-362.00	4,709.00	723.52 N	2,655.61 W	1,920,601.36	3,127,143.40	0.00	2,656.62	
8,500.00	90.00	270.08	-362.00	4,709.00	723.66 N	2,755.61 W	1,920,600.99	3,127,043.40	0.00	2,756.62	
8,600.00	90.00	270.08	-362.00	4,709.00	723.80 N	2,855.61 W	1,920,600.61	3,126,943.40	0.00	2,856.62	
8,700.00	90.00	270.08	-362.00	4,709.00	723.94 N	2,955.61 W	1,920,600.24	3,126,843.40	0.00	2,956.62	
8,800.00	90.00	270.08	-362.00	4,709.00	724.08 N	3,055.61 W	1,920,599.87	3,126,743.40	0.00	3,056.62	
8,900.00	90.00	270.08	-362.00	4,709.00	724.22 N	3,155.61 W	1,920,599.50	3,126,643.40	0.00	3,156.62	
9,000.00	90.00	270.08	-362.00	4,709.00	724.35 N	3,255.61 W	1,920,599.12	3,126,543.40	0.00	3,256.62	
9,100.00	90.00	270.08	-362.00	4,709.00	724.49 N	3,355.61 W	1,920,598.75	3,126,443.40	0.00	3,356.62	
9,200.00	90.00	270.08	-362.00	4,709.00	724.63 N	3,455.61 W	1,920,598.38	3,126,343.40	0.00	3,456.62	
9,300.00	90.00	270.08	-362.00	4,709.00	724.77 N	3,555.61 W	1,920,598.00	3,126,243.40	0.00	3,556.62	
9,400.00	90.00	270.08	-362.00	4,709.00	724.91 N	3,655.61 W	1,920,597.63	3,126,143.40	0.00	3,656.62	
9,424.26	90.00	270.08	-362.00	4,709.00	724.95 N	3,679.87 W	1,920,597.54	3,126,119.15	0.00	3,680.88	TD at 9424.26

### Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
800.00	800.00	0.00	0.00	Build 2.25°
2,413.92	2,308.02	286.78	402.90	Hold
2,919.19	2,715.16	460.30	646.68	Return to Vertical
4,371.71	4,072.38	718.40	1,009.29	KOP 9°
5,371.71	4,709.00	719.29	372.67	Hold
9,424.26	4,709.00	724.95	-3,679.87	TD at 9424.26

## Plan Report for Bunker 3A-1H - Bunker 3A-1H Plan 4

### Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (usft)	Origin +E/-W (usft)	Start TVD (usft)
User	No Target (Freehand)	270.08	Slot	0.00	0.00	0.00

### Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	9,424.26	Bunker 3A-1H Plan 4	2_MWD

### Formation Details

Measured Depth (usft)	Vertical Depth (usft)	TVDSS (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,883.80	4,531.00	-540.00	Nio A Chalk:			
4,913.36	4,551.00	-520.00	Nio A Marl:			
5,031.03	4,620.00	-451.00	Nio B Chalk:			
5,047.06	4,628.00	-443.00	Nio B Marl:			
5,189.14	4,683.00	-388.00	Nio C Chalk:			

### 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									
Bunker 3A-1H TD Rev 3 ( )									
	0.00	0.29	4,709.00	725.02	-3,679.87	1,920,597.62	3,126,119.14	40.359950	-105.047530
- plan misses target center by 0.08usft at 9424.26usft MD (4709.00 TVD, 724.95 N, -3679.87 E)									
- Point									
Bunker 3A-1H Landing Rev 3 ( )									
	0.00	0.29	4,709.00	719.29	372.67	1,920,612.66	3,130,171.66	40.359935	-105.032991
- plan hits target center									
- Point									

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Plan Report for Bunker 3A-1H - Bunker 3A-1H Plan 4

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Directional Difficulty Index

Average Dogleg over Survey: 1.73 °/100usft

Net Tortosity applicable to Plans: 1.73 °/100usft

Maximum Dogleg over Survey: 9.00 °/100usft at 5,371.71  
usft

Directional Difficulty Index: 6.352

Audit Info

**North Reference Sheet for Bunker 3H Pad - Bunker 3A-1H - Bunker 3A-1H**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to 5053'GL+18'KB @ 5071.00usft. Northing and Easting are relative to Bunker 3A-1H

Coordinate System is US State Plane 1983, Colorado Central Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -105.500000°, Longitude Origin:0.000000°, Latitude Origin:39.750000°

False Easting: 3,000,000.00usft, False Northing: 1,000,000.00usft, Scale Reduction: 1.00017707

Grid Coordinates of Well: 1,919,891.47 usft N, 3,129,802.69 usft E

Geographical Coordinates of Well: 40° 21' 28.66" N, 105° 02' 03.58" W

Grid Convergence at Surface is: 0.29°

Based upon Minimum Curvature type calculations, at a Measured Depth of 9,424.26usft  
the Bottom Hole Displacement is 3,750.60usft in the Direction of 281.14° ( True).

Magnetic Convergence at surface is: -8.17° (30 January 2018, , BGGM2017)

