

Magpie Operating, Inc.

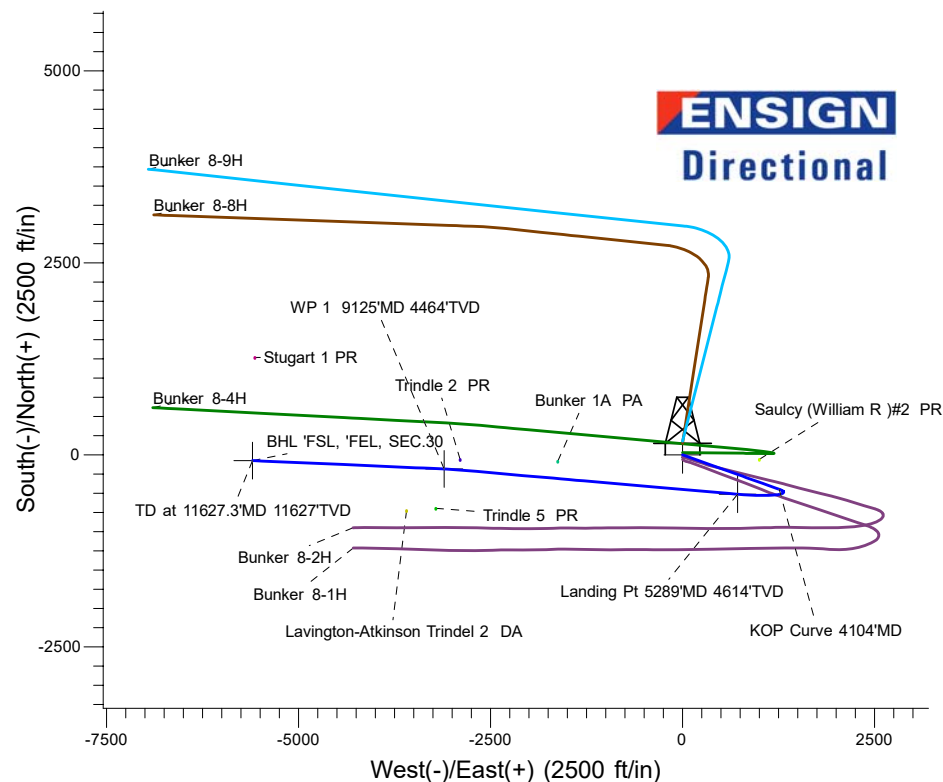
Well Name: Bunker 8-3H
 Surface Location: Bunker 8 Well Pad Sec.29-T5N-R68W
 North American Datum 1983, US State Plane 1983, Colorado Northern Zone
 Ground Elevation: 4997.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1377757.01 3130398.61 40.369400 -105.032009
 KB 17' Akita RKB @ 5014.0ft (KB 17' Akita)

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Longitude	Latitude
SHL 2020'FSL, 2275'FWL, SEC.29	0.0	0.0	0.0	-105.032009	40.369400
BHL 1941'FSL, 1972'FWL, SEC.30	4464.0	-75.4	-5600.5	-105.052108	40.369191
WP 1 8-3H	4464.0	-183.6	-3101.0	-105.043138	40.368895
LPL 1512'FSL, 2247'FEL, SEC.29	4614.0	-513.8	717.3	-105.029435	40.367990

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.0	KOP 800'MD Build 3.50
1578.8	27.26	109.62	1549.7	-61.0	171.2	-170.4	181.8	Start 2525.8 hold at 1578.8 MD
4104.6	27.26	109.62	3795.1	-449.5	1260.8	-1254.6	1338.5	KOP Curve 4104'MD
5289.9	92.24	275.00	4614.0	-513.8	717.3	-710.3	2308.4	Landing Pt 5289'MD 4614'TVD
5292.4	92.29	275.00	4613.9	-513.5	714.8	-707.8	2310.9	Start 3662.8 hold at 5292.4 MD
8955.2	92.29	275.00	4467.4	-194.7	-2931.2	2933.5	5970.8	Start DLS 2.00 TFO -132.27
9125.5	90.00	272.48	4464.0	-183.6	-3101.0	3103.2	6141.0	WP 1 9125'MD 4464'TVD
11627.3	90.00	272.48	4464.0	-75.4	-5600.5	5601.0	8642.8	TD at 11627.3'MD 11627'TVD



Bunker 8 Well Pad Sec.29-T5N-R68W
 Bunker 8-3H
 Plan #3 (5-23-22)
 13:37, May 26 2022

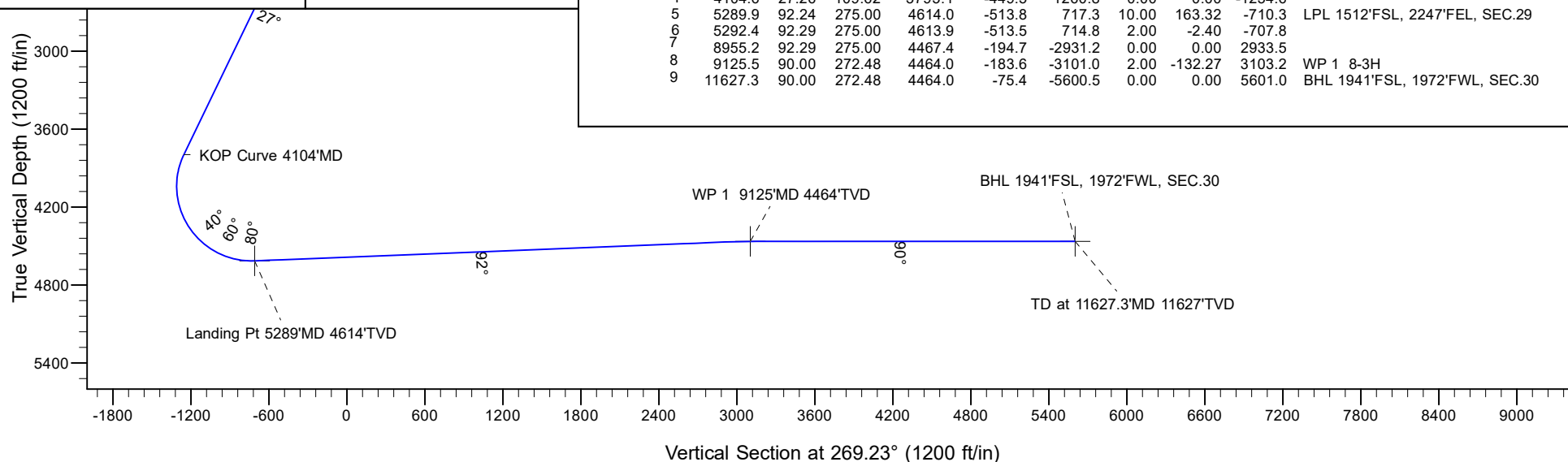


Azimuths to True North
 Magnetic North: 8.03°

Magnetic Field
 Strength: 51836.4nT
 Dip Angle: 66.51°
 Date: 05/19/2022
 Model: HRGM

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.0	
3	1578.8	27.26	109.62	1549.7	-61.0	171.2	3.50	109.62	-170.4	
4	4104.6	27.26	109.62	3795.1	-449.5	1260.8	0.00	0.00	-1254.6	
5	5289.9	92.24	275.00	4614.0	-513.8	717.3	10.00	163.32	-710.3	LPL 1512'FSL, 2247'FEL, SEC.29
6	5292.4	92.29	275.00	4613.9	-513.5	714.8	2.00	-2.40	-707.8	
7	8955.2	92.29	275.00	4467.4	-194.7	-2931.2	0.00	0.00	2933.5	
8	9125.5	90.00	272.48	4464.0	-183.6	-3101.0	2.00	-132.27	3103.2	WP 1 8-3H
9	11627.3	90.00	272.48	4464.0	-75.4	-5600.5	0.00	0.00	5601.0	BHL 1941'FSL, 1972'FWL, SEC.30





Magpie Operating, Inc.

SEC.29-T5N-R68W

Bunker 8 Well Pad Sec.29-T5N-R68W

Bunker 8-3H

Wellbore #1

Plan: Plan #3 (5-23-22)

Standard Planning Report

01 June, 2022

Database:	US_EDM	Local Co-ordinate Reference:	Well Bunker 8-3H
Company:	Magpie Operating, Inc.	TVD Reference:	RKB @ 5014.0ft (KB 17' Akita)
Project:	SEC.29-T5N-R68W	MD Reference:	RKB @ 5014.0ft (KB 17' Akita)
Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	North Reference:	True
Well:	Bunker 8-3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 (5-23-22)		

Project	SEC.29-T5N-R68W, Laramier County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	Bunker 8 Well Pad Sec.29-T5N-R68W			
Site Position:		Northing:	1,377,695.11 usft	Latitude: 40.369230
From:	Lat/Long	Easting:	3,130,398.62 usft	Longitude: -105.032010
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence: 0.30 °

Well	Bunker 8-3H			
Well Position	+N/-S	61.9 ft	Northing:	1,377,757.01 usft
	+E/-W	0.3 ft	Easting:	3,130,398.61 usft
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft
			Ground Level:	4,997.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/07/2018	8.45	66.63	52,136.90000000
	HDGM_FILE	12/31/2020	8.23	66.55	51,918.90000000
	HRGM	05/19/2022	8.03	66.51	51,836.43288095

Design	Plan #3 (5-23-22)			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	269.23

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	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	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,578.8	27.26	109.62	1,549.7	-61.0	171.2	3.50	3.50	0.00	109.62	
4,104.6	27.26	109.62	3,795.1	-449.5	1,260.8	0.00	0.00	0.00	0.00	
5,289.9	92.24	275.00	4,614.0	-513.8	717.3	10.00	5.48	13.95	163.32	LPL 'FSL, 'FEL, SEC.:
5,292.4	92.29	275.00	4,613.9	-513.5	714.8	2.00	2.00	-0.08	-2.40	
8,955.2	92.29	275.00	4,467.4	-194.7	-2,931.2	0.00	0.00	0.00	0.00	
9,125.5	90.00	272.48	4,464.0	-183.6	-3,101.0	2.00	-1.35	-1.48	-132.27	WP 1 8-3H
11,627.3	90.00	272.48	4,464.0	-75.4	-5,600.5	0.00	0.00	0.00	0.00	BHL 'FSL, 'FEL, SEC.

Database:	US_EDM	Local Co-ordinate Reference:	Well Bunker 8-3H
Company:	Magpie Operating, Inc.	TVD Reference:	RKB @ 5014.0ft (KB 17' Akita)
Project:	SEC.29-T5N-R68W	MD Reference:	RKB @ 5014.0ft (KB 17' Akita)
Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	North Reference:	True
Well:	Bunker 8-3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 (5-23-22)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	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	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP 800'MD Build 3.50									
900.0	3.50	109.62	899.9	-1.0	2.9	-2.9	3.50	3.50	0.00
1,000.0	7.00	109.62	999.5	-4.1	11.5	-11.4	3.50	3.50	0.00
1,100.0	10.50	109.62	1,098.3	-9.2	25.8	-25.7	3.50	3.50	0.00
1,200.0	14.00	109.62	1,196.0	-16.3	45.8	-45.6	3.50	3.50	0.00
1,300.0	17.50	109.62	1,292.3	-25.4	71.4	-71.0	3.50	3.50	0.00
1,400.0	21.00	109.62	1,386.7	-36.5	102.4	-101.9	3.50	3.50	0.00
1,500.0	24.50	109.62	1,478.9	-49.5	138.8	-138.2	3.50	3.50	0.00
1,578.8	27.26	109.62	1,549.7	-61.0	171.2	-170.4	3.50	3.50	0.00
Start 2525.8 hold at 1578.8 MD									
1,600.0	27.26	109.62	1,568.6	-64.3	180.4	-179.5	0.00	0.00	0.00
5 1/2"									
1,700.0	27.26	109.62	1,657.5	-79.7	223.5	-222.4	0.00	0.00	0.00
1,800.0	27.26	109.62	1,746.4	-95.1	266.7	-265.3	0.00	0.00	0.00
1,900.0	27.26	109.62	1,835.3	-110.4	309.8	-308.3	0.00	0.00	0.00
2,000.0	27.26	109.62	1,924.2	-125.8	352.9	-351.2	0.00	0.00	0.00
2,100.0	27.26	109.62	2,013.1	-141.2	396.1	-394.1	0.00	0.00	0.00
2,200.0	27.26	109.62	2,102.0	-156.6	439.2	-437.1	0.00	0.00	0.00
2,300.0	27.26	109.62	2,190.9	-172.0	482.3	-480.0	0.00	0.00	0.00
2,400.0	27.26	109.62	2,279.8	-187.3	525.5	-522.9	0.00	0.00	0.00
2,500.0	27.26	109.62	2,368.7	-202.7	568.6	-565.8	0.00	0.00	0.00
2,600.0	27.26	109.62	2,457.6	-218.1	611.8	-608.8	0.00	0.00	0.00
2,700.0	27.26	109.62	2,546.5	-233.5	654.9	-651.7	0.00	0.00	0.00
2,800.0	27.26	109.62	2,635.4	-248.9	698.0	-694.6	0.00	0.00	0.00
2,900.0	27.26	109.62	2,724.3	-264.2	741.2	-737.5	0.00	0.00	0.00
3,000.0	27.26	109.62	2,813.2	-279.6	784.3	-780.5	0.00	0.00	0.00
3,100.0	27.26	109.62	2,902.0	-295.0	827.4	-823.4	0.00	0.00	0.00
3,200.0	27.26	109.62	2,990.9	-310.4	870.6	-866.3	0.00	0.00	0.00
3,300.0	27.26	109.62	3,079.8	-325.7	913.7	-909.2	0.00	0.00	0.00
3,400.0	27.26	109.62	3,168.7	-341.1	956.9	-952.2	0.00	0.00	0.00
3,500.0	27.26	109.62	3,257.6	-356.5	1,000.0	-995.1	0.00	0.00	0.00
3,600.0	27.26	109.62	3,346.5	-371.9	1,043.1	-1,038.0	0.00	0.00	0.00
3,700.0	27.26	109.62	3,435.4	-387.3	1,086.3	-1,081.0	0.00	0.00	0.00
3,800.0	27.26	109.62	3,524.3	-402.6	1,129.4	-1,123.9	0.00	0.00	0.00
3,900.0	27.26	109.62	3,613.2	-418.0	1,172.5	-1,166.8	0.00	0.00	0.00
4,000.0	27.26	109.62	3,702.1	-433.4	1,215.7	-1,209.7	0.00	0.00	0.00
4,100.0	27.26	109.62	3,791.0	-448.8	1,258.8	-1,252.7	0.00	0.00	0.00
4,104.6	27.26	109.62	3,795.1	-449.5	1,260.8	-1,254.6	0.00	0.00	0.00
KOP Curve 4104'MD									
4,200.0	18.31	118.33	3,883.0	-464.0	1,294.6	-1,288.3	10.00	-9.38	9.13
4,300.0	10.10	142.81	3,979.9	-478.4	1,313.8	-1,307.3	10.00	-8.21	24.48
4,400.0	8.23	208.22	4,078.9	-491.8	1,315.7	-1,309.0	10.00	-1.87	65.40
4,500.0	15.24	245.57	4,176.9	-503.5	1,300.4	-1,293.5	10.00	7.01	37.35
4,600.0	24.40	257.71	4,270.9	-513.4	1,268.1	-1,261.1	10.00	9.16	12.14
4,700.0	34.02	263.37	4,358.1	-521.1	1,220.0	-1,212.9	10.00	9.62	5.67

Database:	US_EDM	Local Co-ordinate Reference:	Well Bunker 8-3H
Company:	Magpie Operating, Inc.	TVD Reference:	RKB @ 5014.0ft (KB 17' Akita)
Project:	SEC.29-T5N-R68W	MD Reference:	RKB @ 5014.0ft (KB 17' Akita)
Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	North Reference:	True
Well:	Bunker 8-3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 (5-23-22)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.0	43.80	266.75	4,435.8	-526.3	1,157.5	-1,150.3	10.00	9.78	3.38
4,900.0	53.64	269.10	4,501.7	-528.9	1,082.5	-1,075.3	10.00	9.84	2.35
5,000.0	63.52	270.91	4,553.8	-528.8	997.3	-990.1	10.00	9.88	1.81
5,100.0	73.42	272.44	4,590.4	-526.0	904.4	-897.3	10.00	9.90	1.52
5,200.0	83.33	273.81	4,610.5	-520.7	806.7	-799.7	10.00	9.91	1.37
5,289.9	92.24	275.00	4,614.0	-513.8	717.3	-710.3	10.00	9.91	1.32
Landing Pt 5289'MD 4614'TVD									
5,292.4	92.29	275.00	4,613.9	-513.5	714.8	-707.8	2.00	2.00	-0.08
Start 3662.8 hold at 5292.4 MD									
5,300.0	92.29	275.00	4,613.6	-512.9	707.2	-700.2	0.00	0.00	0.00
5,400.0	92.29	275.00	4,609.6	-504.2	607.7	-600.8	0.00	0.00	0.00
5,500.0	92.29	275.00	4,605.6	-495.5	508.1	-501.4	0.00	0.00	0.00
5,600.0	92.29	275.00	4,601.6	-486.8	408.6	-402.0	0.00	0.00	0.00
5,700.0	92.29	275.00	4,597.6	-478.1	309.1	-302.6	0.00	0.00	0.00
5,800.0	92.29	275.00	4,593.6	-469.4	209.5	-203.2	0.00	0.00	0.00
5,900.0	92.29	275.00	4,589.6	-460.7	110.0	-103.8	0.00	0.00	0.00
6,000.0	92.29	275.00	4,585.6	-451.9	10.4	-4.3	0.00	0.00	0.00
6,100.0	92.29	275.00	4,581.6	-443.2	-89.1	95.1	0.00	0.00	0.00
6,200.0	92.29	275.00	4,577.6	-434.5	-188.6	194.5	0.00	0.00	0.00
6,300.0	92.29	275.00	4,573.6	-425.8	-288.2	293.9	0.00	0.00	0.00
6,400.0	92.29	275.00	4,569.6	-417.1	-387.7	393.3	0.00	0.00	0.00
6,500.0	92.29	275.00	4,565.6	-408.4	-487.3	492.7	0.00	0.00	0.00
6,600.0	92.29	275.00	4,561.6	-399.7	-586.8	592.1	0.00	0.00	0.00
6,700.0	92.29	275.00	4,557.6	-391.0	-686.3	691.5	0.00	0.00	0.00
6,800.0	92.29	275.00	4,553.6	-382.3	-785.9	791.0	0.00	0.00	0.00
6,900.0	92.29	275.00	4,549.6	-373.6	-885.4	890.4	0.00	0.00	0.00
7,000.0	92.29	275.00	4,545.6	-364.9	-985.0	989.8	0.00	0.00	0.00
7,100.0	92.29	275.00	4,541.6	-356.2	-1,084.5	1,089.2	0.00	0.00	0.00
7,200.0	92.29	275.00	4,537.6	-347.5	-1,184.0	1,188.6	0.00	0.00	0.00
7,300.0	92.29	275.00	4,533.6	-338.8	-1,283.6	1,288.0	0.00	0.00	0.00
7,400.0	92.29	275.00	4,529.6	-330.1	-1,383.1	1,387.4	0.00	0.00	0.00
7,500.0	92.29	275.00	4,525.6	-321.4	-1,482.7	1,486.9	0.00	0.00	0.00
7,600.0	92.29	275.00	4,521.6	-312.7	-1,582.2	1,586.3	0.00	0.00	0.00
7,700.0	92.29	275.00	4,517.6	-304.0	-1,681.7	1,685.7	0.00	0.00	0.00
7,800.0	92.29	275.00	4,513.6	-295.3	-1,781.3	1,785.1	0.00	0.00	0.00
7,900.0	92.29	275.00	4,509.6	-286.6	-1,880.8	1,884.5	0.00	0.00	0.00
8,000.0	92.29	275.00	4,505.6	-277.8	-1,980.4	1,983.9	0.00	0.00	0.00
8,100.0	92.29	275.00	4,501.6	-269.1	-2,079.9	2,083.3	0.00	0.00	0.00
8,200.0	92.29	275.00	4,497.6	-260.4	-2,179.4	2,182.8	0.00	0.00	0.00
8,300.0	92.29	275.00	4,493.6	-251.7	-2,279.0	2,282.2	0.00	0.00	0.00
8,400.0	92.29	275.00	4,489.6	-243.0	-2,378.5	2,381.6	0.00	0.00	0.00
8,500.0	92.29	275.00	4,485.6	-234.3	-2,478.1	2,481.0	0.00	0.00	0.00
8,600.0	92.29	275.00	4,481.6	-225.6	-2,577.6	2,580.4	0.00	0.00	0.00
8,700.0	92.29	275.00	4,477.6	-216.9	-2,677.1	2,679.8	0.00	0.00	0.00
8,800.0	92.29	275.00	4,473.6	-208.2	-2,776.7	2,779.2	0.00	0.00	0.00
8,900.0	92.29	275.00	4,469.6	-199.5	-2,876.2	2,878.7	0.00	0.00	0.00
8,955.2	92.29	275.00	4,467.4	-194.7	-2,931.2	2,933.5	0.00	0.00	0.00
Start DLS 2.00 TFO -132.27									
9,000.0	91.69	274.33	4,465.8	-191.1	-2,975.8	2,978.1	2.00	-1.35	-1.48
9,100.0	90.34	272.86	4,464.1	-184.8	-3,075.6	3,077.8	2.00	-1.35	-1.48
9,125.5	90.00	272.48	4,464.0	-183.6	-3,101.0	3,103.2	2.00	-1.35	-1.48
WP 1 9125'MD 4464'TVD									
9,200.0	90.00	272.48	4,464.0	-180.4	-3,175.5	3,177.6	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Bunker 8-3H
Company:	Magpie Operating, Inc.	TVD Reference:	RKB @ 5014.0ft (KB 17' Akita)
Project:	SEC.29-T5N-R68W	MD Reference:	RKB @ 5014.0ft (KB 17' Akita)
Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	North Reference:	True
Well:	Bunker 8-3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 (5-23-22)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,300.0	90.00	272.48	4,464.0	-176.1	-3,275.4	3,277.5	0.00	0.00	0.00	
9,400.0	90.00	272.48	4,464.0	-171.7	-3,375.3	3,377.3	0.00	0.00	0.00	
9,500.0	90.00	272.48	4,464.0	-167.4	-3,475.2	3,477.1	0.00	0.00	0.00	
9,600.0	90.00	272.48	4,464.0	-163.1	-3,575.1	3,577.0	0.00	0.00	0.00	
9,700.0	90.00	272.48	4,464.0	-158.8	-3,675.0	3,676.8	0.00	0.00	0.00	
9,800.0	90.00	272.48	4,464.0	-154.4	-3,774.9	3,776.7	0.00	0.00	0.00	
9,900.0	90.00	272.48	4,464.0	-150.1	-3,874.8	3,876.5	0.00	0.00	0.00	
10,000.0	90.00	272.48	4,464.0	-145.8	-3,974.7	3,976.3	0.00	0.00	0.00	
10,100.0	90.00	272.48	4,464.0	-141.5	-4,074.6	4,076.2	0.00	0.00	0.00	
10,200.0	90.00	272.48	4,464.0	-137.1	-4,174.5	4,176.0	0.00	0.00	0.00	
10,300.0	90.00	272.48	4,464.0	-132.8	-4,274.5	4,275.9	0.00	0.00	0.00	
10,400.0	90.00	272.48	4,464.0	-128.5	-4,374.4	4,375.7	0.00	0.00	0.00	
10,500.0	90.00	272.48	4,464.0	-124.2	-4,474.3	4,475.5	0.00	0.00	0.00	
10,600.0	90.00	272.48	4,464.0	-119.8	-4,574.2	4,575.4	0.00	0.00	0.00	
10,700.0	90.00	272.48	4,464.0	-115.5	-4,674.1	4,675.2	0.00	0.00	0.00	
10,800.0	90.00	272.48	4,464.0	-111.2	-4,774.0	4,775.1	0.00	0.00	0.00	
10,900.0	90.00	272.48	4,464.0	-106.9	-4,873.9	4,874.9	0.00	0.00	0.00	
11,000.0	90.00	272.48	4,464.0	-102.5	-4,973.8	4,974.7	0.00	0.00	0.00	
11,100.0	90.00	272.48	4,464.0	-98.2	-5,073.7	5,074.6	0.00	0.00	0.00	
11,200.0	90.00	272.48	4,464.0	-93.9	-5,173.6	5,174.4	0.00	0.00	0.00	
11,300.0	90.00	272.48	4,464.0	-89.6	-5,273.5	5,274.2	0.00	0.00	0.00	
11,400.0	90.00	272.48	4,464.0	-85.2	-5,373.4	5,374.1	0.00	0.00	0.00	
11,500.0	90.00	272.48	4,464.0	-80.9	-5,473.3	5,473.9	0.00	0.00	0.00	
11,600.0	90.00	272.48	4,464.0	-76.6	-5,573.2	5,573.8	0.00	0.00	0.00	
11,627.3	90.00	272.48	4,464.0	-75.4	-5,600.5	5,601.0	0.00	0.00	0.00	
TD at 11627.3'MD 11627'TVD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude		
- hit/miss target										
- Shape								Longitude		
SHL 2020'FSL, 2275'FW	0.00	0.00	0.0	0.0	0.0	1,377,757.04	3,130,398.61	40.369400		
- plan hits target center										
- Point										
WP 1 8-3H	0.00	0.00	4,464.0	-183.6	-3,101.0	1,377,557.05	3,127,298.75	40.368895		
- plan hits target center										
- Point										
BHL 'FSL, 'FEL, SEC.30	0.00	0.00	4,464.0	-75.4	-5,600.5	1,377,652.05	3,124,798.86	40.369191		
- plan hits target center										
- Point										
LPL 'FSL, 'FEL, SEC.29	0.00	0.00	4,614.0	-513.8	717.3	1,377,247.06	3,131,118.58	40.367990		
- plan hits target center										
- Point										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (")	Hole Diameter (")
1,600.0	1,568.6	5 1/2"		5-1/2	6

Database:	US_EDM	Local Co-ordinate Reference:	Well Bunker 8-3H
Company:	Magpie Operating, Inc.	TVD Reference:	RKB @ 5014.0ft (KB 17' Akita)
Project:	SEC.29-T5N-R68W	MD Reference:	RKB @ 5014.0ft (KB 17' Akita)
Site:	Bunker 8 Well Pad Sec.29-T5N-R68W	North Reference:	True
Well:	Bunker 8-3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 (5-23-22)		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
800.0	800.0	0.0	0.0	KOP 800'MD Build 3.50
1,578.8	1,549.7	-61.0	171.2	Start 2525.8 hold at 1578.8 MD
4,104.6	3,795.1	-449.5	1,260.8	KOP Curve 4104'MD
5,289.9	4,614.0	-513.8	717.3	Landing Pt 5289'MD 4614'TVD
5,292.4	4,613.9	-513.5	714.8	Start 3662.8 hold at 5292.4 MD
8,955.2	4,467.4	-194.7	-2,931.2	Start DLS 2.00 TFO -132.27
9,125.5	4,464.0	-183.6	-3,101.0	WP 1 9125'MD 4464'TVD
11,627.3	4,464.0	-75.4	-5,600.5	TD at 11627.3'MD 11627'TVD