

Magpie Operating, Inc.

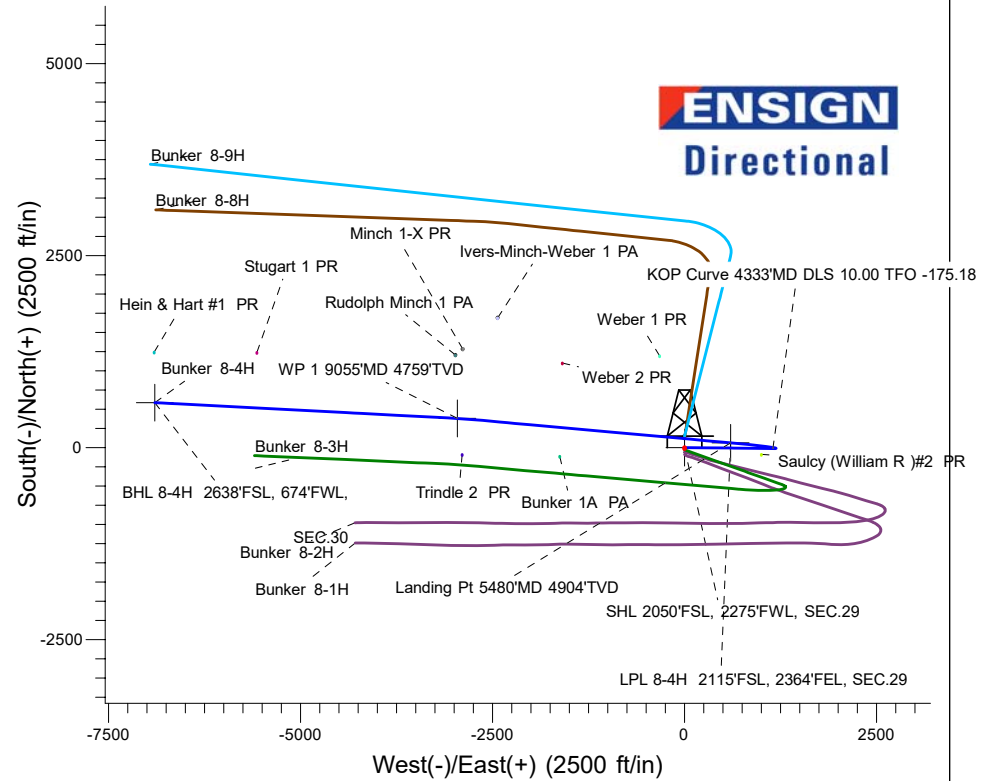
Well Name: Bunker 8-4H
 Surface Location: Bunker 8 Well Pad Sec.29-T5N-R68W
 North American Datum 1983, US State Plane 1983, Colorado Northern Zone
 Ground Elevation: 4997.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1377786.15 3130398.62 40.369480 -105.032008
 KB 17' Akita RKB @ 5014.0ft (KB 17' Akita)

WELLBORE TARGET DETAILS

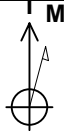
Name	TVD	+N/-S	+E/-W	Longitude	Latitude
SHL 2050'FSL, 2275'FWL, SEC.29	0.0	0.0	0.0	-105.032008	40.369480
BHL 8-4H 2638'FNL, 674'FWL, SEC.30 WP 1 8-4H	4759.0	585.4	-6897.0	-105.056761	40.371084
LPL 8-4H 2115'FSL, 2364'FEL, SEC.29	4904.0	379.7	-2958.0	-105.042624	40.370522
		61.9	599.5	-105.029857	40.369650

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.0	KOP 100'MD Build 3.50
1639.4	22.38	90.61	1623.3	-1.3	123.3	-123.0	123.3	Start 2694.1 hold at 1639.4 MD
4333.5	22.38	90.61	4114.4	-12.3	1149.0	-1145.9	1149.1	KOP Curve 4333'MD DLS 10.00 TFO -175.18
5480.4	92.38	275.00	4904.0	61.9	599.5	-592.2	2056.1	Landing Pt 5480'MD 4904'TVD
5488.1	92.38	275.15	4903.7	62.5	591.9	-584.5	2063.7	Start 3406.4 hold at 5488.1 MD
8894.5	92.38	275.15	4762.3	368.2	-2797.8	2818.9	5467.2	Start DLS 2.00 TFO -137.70
9055.2	90.00	272.99	4759.0	379.7	-2958.0	2979.6	5627.9	WP 1 9055'MD 4759'TVD
12999.5	90.00	272.99	4759.0	585.4	-6897.0	6921.8	9572.2	TD at 12999.5'MD 4759'TVD



Bunker 8 Well Pad Sec.29-T5N-R68W
 Bunker 8-4H
 Plan #4 (5-23-22)
 14:14, May 26 2022

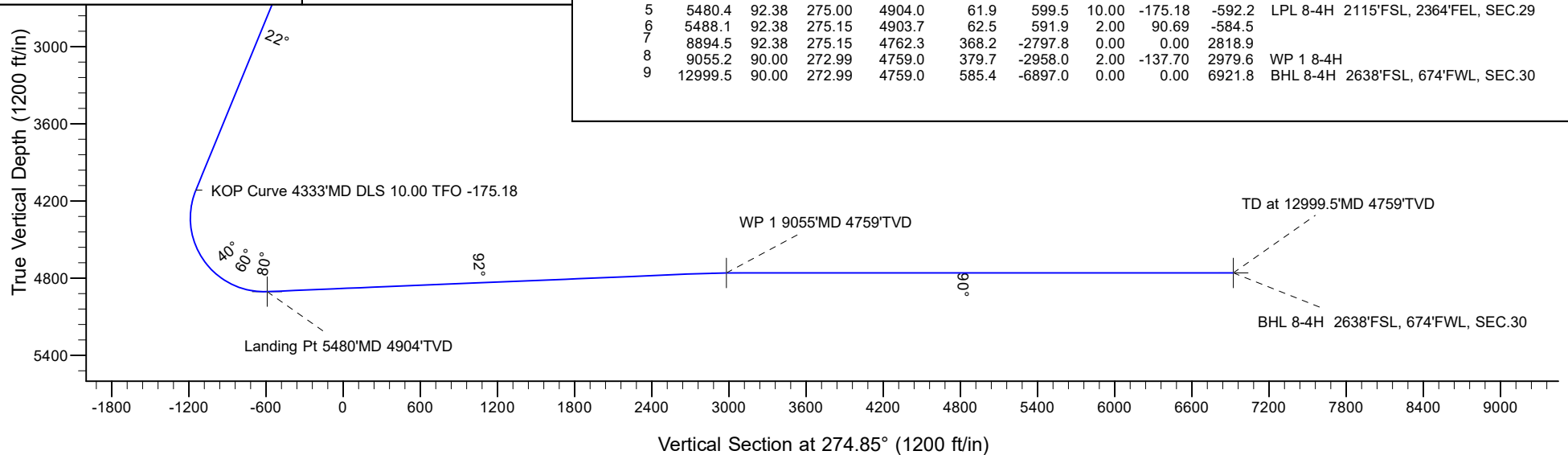


Azimuths to True North
 Magnetic North: 8.03°

Magnetic Field
 Strength: 51836.5nT
 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	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1639.4	22.38	90.61	1623.3	-1.3	123.3	3.50	90.61	-123.0	
4	4333.5	22.38	90.61	4114.4	-12.3	1149.0	0.00	0.00	-1145.9	
5	5480.4	92.38	275.00	4904.0	61.9	599.5	10.00	-175.18	-592.2	LPL 8-4H 2115'FSL, 2364'FEL, SEC.29
6	5488.1	92.38	275.15	4903.7	62.5	591.9	2.00	90.69	-584.5	
7	8894.5	92.38	275.15	4762.3	368.2	-2797.8	0.00	0.00	2818.9	
8	9055.2	90.00	272.99	4759.0	379.7	-2958.0	2.00	-137.70	2979.6	WP 1 8-4H
9	12999.5	90.00	272.99	4759.0	585.4	-6897.0	0.00	0.00	6921.8	BHL 8-4H 2638'FSL, 674'FWL, SEC.30





Magpie Operating, Inc.

SEC.29-T5N-R68W

Bunker 8 Well Pad Sec.29-T5N-R68W

Bunker 8-4H

Wellbore #1

Plan: Plan #4 (5-23-22)

Standard Planning Report

26 May, 2022

Database:	US_EDM	Local Co-ordinate Reference:	Well Bunker 8-4H
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 8-4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #4 (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 8-4H					
Well Position	+N/-S	91.0 ft	Northing:	1,377,786.15 usft	Latitude:	40.369480
	+E/-W	0.5 ft	Easting:	3,130,398.62 usft	Longitude:	-105.032009
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	51,836.50088030

Design	Plan #4 (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	274.85

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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,639.4	22.38	90.61	1,623.3	-1.3	123.3	3.50	3.50	0.00	90.61	
4,333.5	22.38	90.61	4,114.4	-12.3	1,149.0	0.00	0.00	0.00	0.00	
5,480.4	92.38	275.00	4,904.0	61.9	599.5	10.00	6.10	-15.31	-175.18	LPL 8-4H 'FSL', 'FEL',
5,488.1	92.38	275.15	4,903.7	62.5	591.9	2.00	-0.02	2.00	90.69	
8,894.5	92.38	275.15	4,762.3	368.2	-2,797.8	0.00	0.00	0.00	0.00	
9,055.2	90.00	272.99	4,759.0	379.7	-2,958.0	2.00	-1.48	-1.35	-137.70	WP 1 8-4H
12,999.5	90.00	272.99	4,759.0	585.4	-6,897.0	0.00	0.00	0.00	0.00	BHL 8-4H 'FSL', 'FEL'

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
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP 100'MD Build 3.50									
1,100.0	3.50	90.61	1,099.9	0.0	3.1	-3.0	3.50	3.50	0.00
1,200.0	7.00	90.61	1,199.5	-0.1	12.2	-12.2	3.50	3.50	0.00
1,300.0	10.50	90.61	1,298.3	-0.3	27.4	-27.3	3.50	3.50	0.00
1,400.0	14.00	90.61	1,396.0	-0.5	48.6	-48.5	3.50	3.50	0.00
1,500.0	17.50	90.61	1,492.3	-0.8	75.8	-75.6	3.50	3.50	0.00
1,600.0	21.00	90.61	1,586.7	-1.2	108.7	-108.4	3.50	3.50	0.00
9 5/8"									
1,639.4	22.38	90.61	1,623.3	-1.3	123.3	-123.0	3.50	3.50	0.00
Start 2694.1 hold at 1639.4 MD									
1,700.0	22.38	90.61	1,679.3	-1.6	146.4	-146.0	0.00	0.00	0.00
1,800.0	22.38	90.61	1,771.8	-2.0	184.4	-183.9	0.00	0.00	0.00
1,900.0	22.38	90.61	1,864.2	-2.4	222.5	-221.9	0.00	0.00	0.00
2,000.0	22.38	90.61	1,956.7	-2.8	260.6	-259.9	0.00	0.00	0.00
2,100.0	22.38	90.61	2,049.2	-3.2	298.6	-297.8	0.00	0.00	0.00
2,200.0	22.38	90.61	2,141.6	-3.6	336.7	-335.8	0.00	0.00	0.00
2,300.0	22.38	90.61	2,234.1	-4.0	374.8	-373.8	0.00	0.00	0.00
2,400.0	22.38	90.61	2,326.6	-4.4	412.9	-411.8	0.00	0.00	0.00
2,500.0	22.38	90.61	2,419.0	-4.8	450.9	-449.7	0.00	0.00	0.00
2,600.0	22.38	90.61	2,511.5	-5.2	489.0	-487.7	0.00	0.00	0.00
2,700.0	22.38	90.61	2,604.0	-5.7	527.1	-525.7	0.00	0.00	0.00
2,800.0	22.38	90.61	2,696.4	-6.1	565.2	-563.6	0.00	0.00	0.00
2,900.0	22.38	90.61	2,788.9	-6.5	603.2	-601.6	0.00	0.00	0.00
3,000.0	22.38	90.61	2,881.4	-6.9	641.3	-639.6	0.00	0.00	0.00
3,100.0	22.38	90.61	2,973.9	-7.3	679.4	-677.6	0.00	0.00	0.00
3,200.0	22.38	90.61	3,066.3	-7.7	717.4	-715.5	0.00	0.00	0.00
3,300.0	22.38	90.61	3,158.8	-8.1	755.5	-753.5	0.00	0.00	0.00
3,400.0	22.38	90.61	3,251.3	-8.5	793.6	-791.5	0.00	0.00	0.00
3,500.0	22.38	90.61	3,343.7	-8.9	831.7	-829.4	0.00	0.00	0.00
3,600.0	22.38	90.61	3,436.2	-9.3	869.7	-867.4	0.00	0.00	0.00
3,700.0	22.38	90.61	3,528.7	-9.7	907.8	-905.4	0.00	0.00	0.00
3,800.0	22.38	90.61	3,621.1	-10.1	945.9	-943.4	0.00	0.00	0.00
3,900.0	22.38	90.61	3,713.6	-10.6	984.0	-981.3	0.00	0.00	0.00
4,000.0	22.38	90.61	3,806.1	-11.0	1,022.0	-1,019.3	0.00	0.00	0.00
4,100.0	22.38	90.61	3,898.5	-11.4	1,060.1	-1,057.3	0.00	0.00	0.00
4,200.0	22.38	90.61	3,991.0	-11.8	1,098.2	-1,095.2	0.00	0.00	0.00
4,300.0	22.38	90.61	4,083.5	-12.2	1,136.2	-1,133.2	0.00	0.00	0.00
4,333.5	22.38	90.61	4,114.4	-12.3	1,149.0	-1,145.9	0.00	0.00	0.00
KOP Curve 4333'MD DLS 10.00 TFO -175.18									
4,400.0	15.76	88.56	4,177.3	-12.2	1,170.7	-1,167.6	10.00	-9.95	-3.09
4,500.0	5.95	77.17	4,275.4	-10.7	1,189.4	-1,186.0	10.00	-9.82	-11.39
4,600.0	4.71	297.95	4,375.2	-7.7	1,190.8	-1,187.2	10.00	-1.24	-139.23
4,700.0	14.46	282.21	4,473.7	-3.1	1,175.0	-1,171.0	10.00	9.74	-15.73

Database:	US_EDM	Local Co-ordinate Reference:	Well Bunker 8-4H
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 8-4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #4 (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	24.41	279.12	4,567.9	2.8	1,142.3	-1,137.9	10.00	9.95	-3.09
4,900.0	34.38	277.76	4,654.9	10.0	1,093.8	-1,089.0	10.00	9.98	-1.37
5,000.0	44.37	276.95	4,732.1	18.0	1,030.9	-1,025.7	10.00	9.99	-0.81
5,100.0	54.36	276.39	4,797.1	26.8	955.6	-950.0	10.00	9.99	-0.56
5,200.0	64.35	275.96	4,848.0	36.0	870.2	-864.1	10.00	9.99	-0.43
5,300.0	74.35	275.59	4,883.2	45.4	777.2	-770.6	10.00	9.99	-0.37
5,400.0	84.34	275.26	4,901.7	54.7	679.5	-672.5	10.00	9.99	-0.33
5,480.4	92.38	275.00	4,904.0	61.9	599.5	-592.2	10.00	9.99	-0.32
Landing Pt 5480'MD 4904'TVD									
5,488.1	92.38	275.15	4,903.7	62.5	591.9	-584.5	2.00	-0.02	2.00
Start 3406.4 hold at 5488.1 MD									
5,500.0	92.38	275.15	4,903.2	63.6	580.0	-572.6	0.00	0.00	0.00
5,600.0	92.38	275.15	4,899.0	72.6	480.5	-472.7	0.00	0.00	0.00
5,700.0	92.38	275.15	4,894.9	81.6	381.0	-372.8	0.00	0.00	0.00
5,800.0	92.38	275.15	4,890.7	90.5	281.5	-272.8	0.00	0.00	0.00
5,900.0	92.38	275.15	4,886.6	99.5	182.0	-172.9	0.00	0.00	0.00
6,000.0	92.38	275.15	4,882.4	108.5	82.5	-73.0	0.00	0.00	0.00
6,100.0	92.38	275.15	4,878.3	117.5	-17.0	26.9	0.00	0.00	0.00
6,200.0	92.38	275.15	4,874.1	126.4	-116.5	126.8	0.00	0.00	0.00
6,300.0	92.38	275.15	4,870.0	135.4	-216.0	226.7	0.00	0.00	0.00
6,400.0	92.38	275.15	4,865.8	144.4	-315.6	326.6	0.00	0.00	0.00
6,500.0	92.38	275.15	4,861.7	153.4	-415.1	426.5	0.00	0.00	0.00
6,600.0	92.38	275.15	4,857.5	162.3	-514.6	526.5	0.00	0.00	0.00
6,700.0	92.38	275.15	4,853.4	171.3	-614.1	626.4	0.00	0.00	0.00
6,800.0	92.38	275.15	4,849.2	180.3	-713.6	726.3	0.00	0.00	0.00
6,900.0	92.38	275.15	4,845.1	189.3	-813.1	826.2	0.00	0.00	0.00
7,000.0	92.38	275.15	4,840.9	198.2	-912.6	926.1	0.00	0.00	0.00
7,100.0	92.38	275.15	4,836.8	207.2	-1,012.1	1,026.0	0.00	0.00	0.00
7,200.0	92.38	275.15	4,832.6	216.2	-1,111.6	1,125.9	0.00	0.00	0.00
7,300.0	92.38	275.15	4,828.5	225.2	-1,211.1	1,225.8	0.00	0.00	0.00
7,400.0	92.38	275.15	4,824.3	234.1	-1,310.7	1,325.8	0.00	0.00	0.00
7,500.0	92.38	275.15	4,820.2	243.1	-1,410.2	1,425.7	0.00	0.00	0.00
7,600.0	92.38	275.15	4,816.0	252.1	-1,509.7	1,525.6	0.00	0.00	0.00
7,700.0	92.38	275.15	4,811.9	261.1	-1,609.2	1,625.5	0.00	0.00	0.00
7,800.0	92.38	275.15	4,807.7	270.0	-1,708.7	1,725.4	0.00	0.00	0.00
7,900.0	92.38	275.15	4,803.6	279.0	-1,808.2	1,825.3	0.00	0.00	0.00
8,000.0	92.38	275.15	4,799.5	288.0	-1,907.7	1,925.2	0.00	0.00	0.00
8,100.0	92.38	275.15	4,795.3	297.0	-2,007.2	2,025.1	0.00	0.00	0.00
8,200.0	92.38	275.15	4,791.2	305.9	-2,106.7	2,125.1	0.00	0.00	0.00
8,300.0	92.38	275.15	4,787.0	314.9	-2,206.2	2,225.0	0.00	0.00	0.00
8,400.0	92.38	275.15	4,782.9	323.9	-2,305.8	2,324.9	0.00	0.00	0.00
8,500.0	92.38	275.15	4,778.7	332.8	-2,405.3	2,424.8	0.00	0.00	0.00
8,600.0	92.38	275.15	4,774.6	341.8	-2,504.8	2,524.7	0.00	0.00	0.00
8,700.0	92.38	275.15	4,770.4	350.8	-2,604.3	2,624.6	0.00	0.00	0.00
8,800.0	92.38	275.15	4,766.3	359.8	-2,703.8	2,724.5	0.00	0.00	0.00
8,894.5	92.38	275.15	4,762.3	368.2	-2,797.8	2,818.9	0.00	0.00	0.00
Start DLS 2.00 TFO -137.70									
8,900.0	92.30	275.08	4,762.1	368.7	-2,803.3	2,824.4	2.00	-1.48	-1.35
9,000.0	90.82	273.73	4,759.4	376.4	-2,903.0	2,924.4	2.00	-1.48	-1.35
9,055.2	90.00	272.99	4,759.0	379.7	-2,958.0	2,979.6	2.00	-1.48	-1.35
WP 1 9055'MD 4759'TVD									
9,100.0	90.00	272.99	4,759.0	382.0	-3,002.8	3,024.4	0.00	0.00	0.00
9,200.0	90.00	272.99	4,759.0	387.2	-3,102.7	3,124.3	0.00	0.00	0.00

Database:	US_EDM	Local Co-ordinate Reference:	Well Bunker 8-4H
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 8-4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #4 (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	272.99	4,759.0	392.4	-3,202.5	3,224.3	0.00	0.00	0.00	
9,400.0	90.00	272.99	4,759.0	397.6	-3,302.4	3,324.2	0.00	0.00	0.00	
9,500.0	90.00	272.99	4,759.0	402.9	-3,402.3	3,424.1	0.00	0.00	0.00	
9,600.0	90.00	272.99	4,759.0	408.1	-3,502.1	3,524.1	0.00	0.00	0.00	
9,700.0	90.00	272.99	4,759.0	413.3	-3,602.0	3,624.0	0.00	0.00	0.00	
9,800.0	90.00	272.99	4,759.0	418.5	-3,701.9	3,724.0	0.00	0.00	0.00	
9,900.0	90.00	272.99	4,759.0	423.7	-3,801.7	3,823.9	0.00	0.00	0.00	
10,000.0	90.00	272.99	4,759.0	428.9	-3,901.6	3,923.9	0.00	0.00	0.00	
10,100.0	90.00	272.99	4,759.0	434.2	-4,001.4	4,023.8	0.00	0.00	0.00	
10,200.0	90.00	272.99	4,759.0	439.4	-4,101.3	4,123.8	0.00	0.00	0.00	
10,300.0	90.00	272.99	4,759.0	444.6	-4,201.2	4,223.7	0.00	0.00	0.00	
10,400.0	90.00	272.99	4,759.0	449.8	-4,301.0	4,323.7	0.00	0.00	0.00	
10,500.0	90.00	272.99	4,759.0	455.0	-4,400.9	4,423.6	0.00	0.00	0.00	
10,600.0	90.00	272.99	4,759.0	460.3	-4,500.8	4,523.6	0.00	0.00	0.00	
10,700.0	90.00	272.99	4,759.0	465.5	-4,600.6	4,623.5	0.00	0.00	0.00	
10,800.0	90.00	272.99	4,759.0	470.7	-4,700.5	4,723.5	0.00	0.00	0.00	
10,900.0	90.00	272.99	4,759.0	475.9	-4,800.4	4,823.4	0.00	0.00	0.00	
11,000.0	90.00	272.99	4,759.0	481.1	-4,900.2	4,923.4	0.00	0.00	0.00	
11,100.0	90.00	272.99	4,759.0	486.3	-5,000.1	5,023.3	0.00	0.00	0.00	
11,200.0	90.00	272.99	4,759.0	491.6	-5,099.9	5,123.2	0.00	0.00	0.00	
11,300.0	90.00	272.99	4,759.0	496.8	-5,199.8	5,223.2	0.00	0.00	0.00	
11,400.0	90.00	272.99	4,759.0	502.0	-5,299.7	5,323.1	0.00	0.00	0.00	
11,500.0	90.00	272.99	4,759.0	507.2	-5,399.5	5,423.1	0.00	0.00	0.00	
11,600.0	90.00	272.99	4,759.0	512.4	-5,499.4	5,523.0	0.00	0.00	0.00	
11,700.0	90.00	272.99	4,759.0	517.6	-5,599.3	5,623.0	0.00	0.00	0.00	
11,800.0	90.00	272.99	4,759.0	522.9	-5,699.1	5,722.9	0.00	0.00	0.00	
11,900.0	90.00	272.99	4,759.0	528.1	-5,799.0	5,822.9	0.00	0.00	0.00	
12,000.0	90.00	272.99	4,759.0	533.3	-5,898.9	5,922.8	0.00	0.00	0.00	
12,100.0	90.00	272.99	4,759.0	538.5	-5,998.7	6,022.8	0.00	0.00	0.00	
12,200.0	90.00	272.99	4,759.0	543.7	-6,098.6	6,122.7	0.00	0.00	0.00	
12,300.0	90.00	272.99	4,759.0	548.9	-6,198.5	6,222.7	0.00	0.00	0.00	
12,400.0	90.00	272.99	4,759.0	554.2	-6,298.3	6,322.6	0.00	0.00	0.00	
12,500.0	90.00	272.99	4,759.0	559.4	-6,398.2	6,422.6	0.00	0.00	0.00	
12,600.0	90.00	272.99	4,759.0	564.6	-6,498.0	6,522.5	0.00	0.00	0.00	
12,700.0	90.00	272.99	4,759.0	569.8	-6,597.9	6,622.5	0.00	0.00	0.00	
12,800.0	90.00	272.99	4,759.0	575.0	-6,697.8	6,722.4	0.00	0.00	0.00	
12,900.0	90.00	272.99	4,759.0	580.3	-6,797.6	6,822.4	0.00	0.00	0.00	
12,999.5	90.00	272.99	4,759.0	585.4	-6,897.0	6,921.8	0.00	0.00	0.00	
TD at 12999.5'MD 4759'TVD										

Database:	US_EDM	Local Co-ordinate Reference:	Well Bunker 8-4H
Company:	Maggie 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 8-4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #4 (5-23-22)		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL 2050'FSL, 2275'FW - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	1,377,786.19	3,130,398.62	40.369480	-105.032009
WP 1 8-4H - plan hits target center - Point	0.00	0.00	4,759.0	379.7	-2,958.0	1,378,150.17	3,127,438.74	40.370522	-105.042624
BHL 8-4H 'FSL, 'FEL, S - plan hits target center - Point	0.00	0.00	4,759.0	585.4	-6,897.0	1,378,335.16	3,123,498.91	40.371084	-105.056761
LPL 8-4H 'FSL, 'FEL, SI - plan hits target center - Point	0.00	0.00	4,904.0	61.9	599.5	1,377,851.18	3,130,997.79	40.369650	-105.029857

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (")	Hole Diameter (")
1,600.0	1,586.7	9 5/8"		9-5/8	12-1/4

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,000.0	1,000.0	0.0	0.0	KOP 100'MD Build 3.50	
1,639.4	1,623.3	-1.3	123.3	Start 2694.1 hold at 1639.4 MD	
4,333.5	4,114.4	-12.3	1,149.0	KOP Curve 4333'MD DLS 10.00 TFO -175.18	
5,480.4	4,904.0	61.9	599.5	Landing Pt 5480'MD 4904'TVD	
5,488.1	4,903.7	62.5	591.9	Start 3406.4 hold at 5488.1 MD	
8,894.5	4,762.3	368.2	-2,797.8	Start DLS 2.00 TFO -137.70	
9,055.2	4,759.0	379.7	-2,958.0	WP 1 9055'MD 4759'TVD	
12,999.5	4,759.0	585.4	-6,897.0	TD at 12999.5'MD 4759'TVD	