



Fundare Resources Company, LLC

Weld County, CO (NAD 83)

S29-T10N-R58W

RAZOR #29H-2048

OH

Plan: #1 (01.29.22)

Standard Planning Report

29 January, 2022



Project: Weld County, CO (NAD 83)
Site: S29-T10N-R58W
Well: RAZOR #29H-2048
Wellbore: OH
Plan: #1 (01.29.22)

WELL DETAILS: RAZOR #29H-2048

21' KB @ 4786.20usft
Ground Level: 4765.20

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1542141.44	3447629.63	40.810356	-103.882894

US State Plane 1983
Colorado Northern Zone



Azimuths to True North
Magnetic North: 7.09°

Magnetic Field
Strength: 52262.3nT
Dip Angle: 66.99°
Date: 1/25/2022
Model: HRGM

SECTION DETAILS

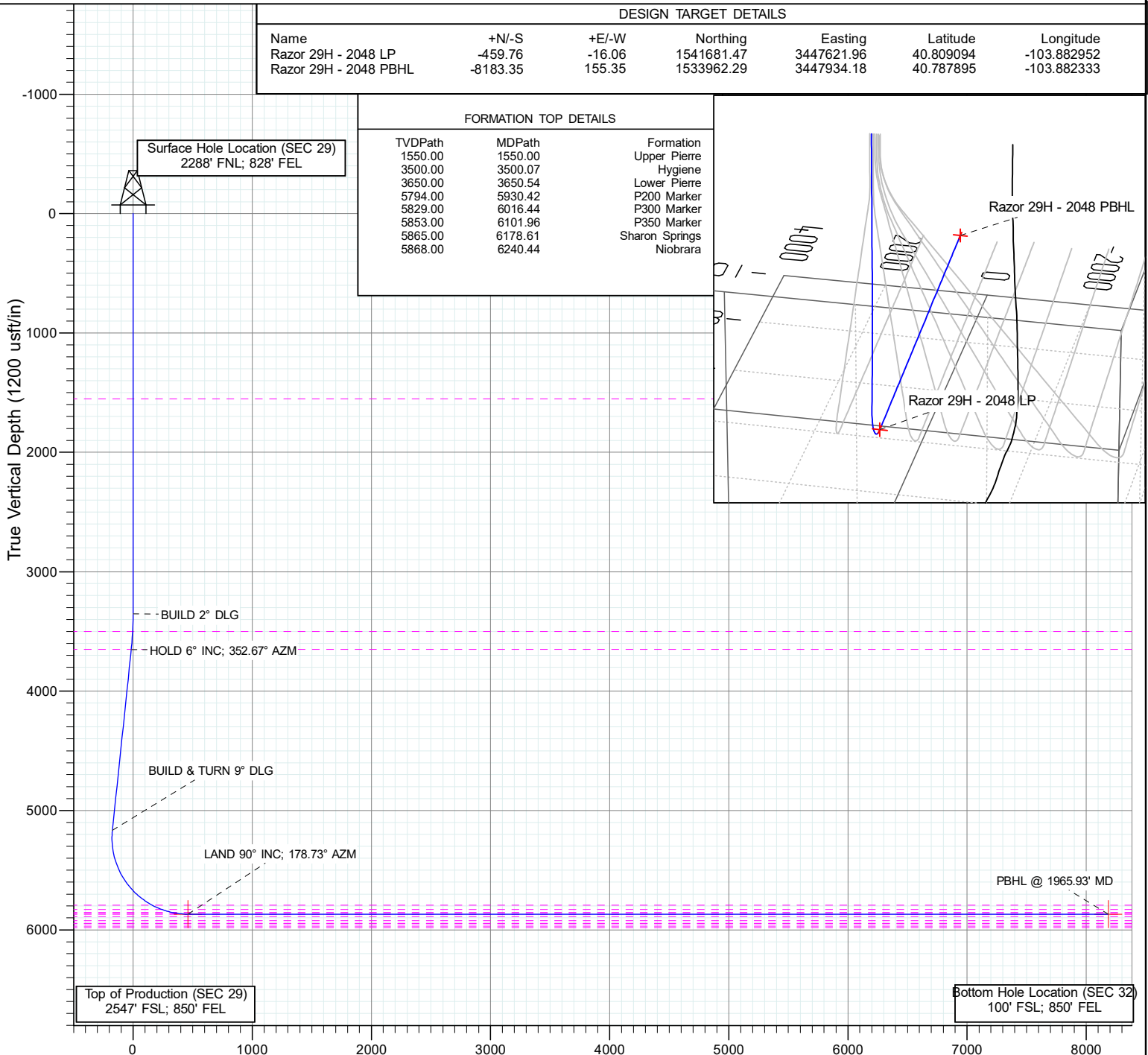
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3352.00	0.00	0.00	3352.00	0.00	0.00	0.00	0.00	0.00	BUILD 2° DLG
3652.11	6.00	352.67	3651.56	15.58	-2.00	2.00	352.67	-15.62	HOLD 6° INC; 352.67° AZM
5174.12	6.00	352.67	5165.23	173.43	-22.31	0.00	0.00	-173.88	BUILD & TURN 9° DLG
6240.44	90.00	178.73	5868.00	-459.76	-16.06	9.00	-173.91	459.29	LAND 90° INC; 178.73° AZM
13965.93	90.00	178.73	5868.00	-8183.35	155.35	0.00	0.00	8184.78	PBHL @ 1965.93' MD

DESIGN TARGET DETAILS

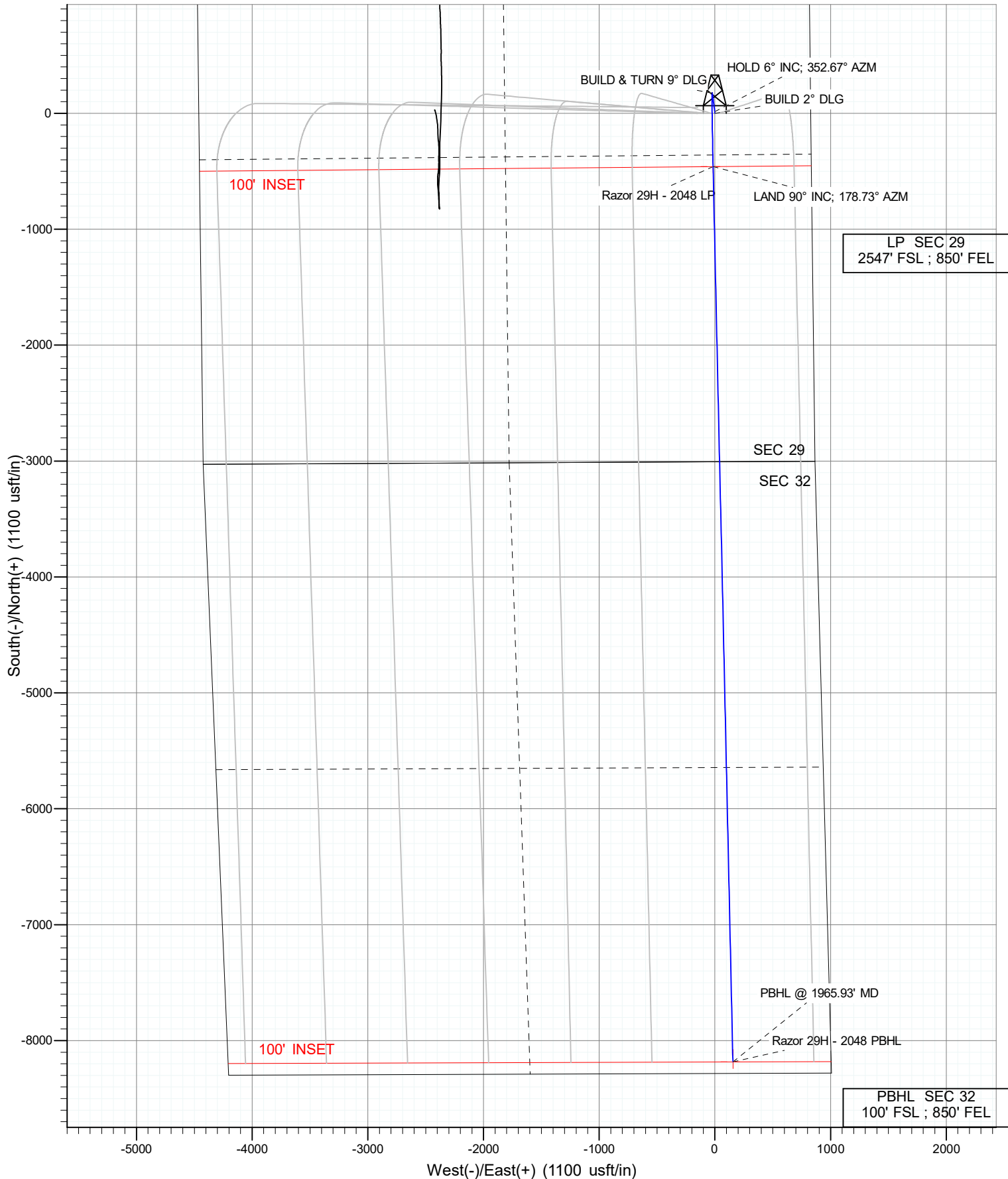
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Razor 29H - 2048 LP	-459.76	-16.06	1541681.47	3447621.96	40.809094	-103.882952
Razor 29H - 2048 PBHL	-8183.35	155.35	1533962.29	3447934.18	40.787895	-103.882333

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1550.00	1550.00	Upper Pierre
3500.00	3500.07	Hygiene
3650.00	3650.54	Lower Pierre
5794.00	5930.42	P200 Marker
5829.00	6016.44	P300 Marker
5853.00	6101.96	P350 Marker
5865.00	6178.61	Sharon Springs
5868.00	6240.44	Niobrara



Vertical Section at 178.73° (1200 usft/in)



Database:	US EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well RAZOR #29H-2048
Company:	Fundare Resources Company, LLC	TVD Reference:	21' KB @ 4786.20usft
Project:	Weld County, CO (NAD 83)	MD Reference:	21' KB @ 4786.20usft
Site:	S29-T10N-R58W	North Reference:	True
Well:	RAZOR #29H-2048	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	#1 (01.29.22)		

Project	Weld County, CO (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		S29-T10N-R58W			
Site Position:		Northing:	1,542,123.68 usft	Latitude:	40.810431
From:	Lat/Long	Easting:	3,445,148.09 usft	Longitude:	-103.891858
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.04 °

Well		RAZOR #29H-2048				
Well Position	+N/-S	0.00 usft	Northing:	1,542,141.44 usft	Latitude:	40.810356
	+E/-W	0.00 usft	Easting:	3,447,629.63 usft	Longitude:	-103.882894
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,765.20 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	1/25/2022	7.09	66.99	52,262.33814152

Design	#1 (01.29.22)			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	178.73

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,352.00	0.00	0.00	3,352.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,652.11	6.00	352.67	3,651.56	15.58	-2.00	2.00	2.00	0.00	352.67	
5,174.12	6.00	352.67	5,165.23	173.43	-22.31	0.00	0.00	0.00	0.00	
6,240.44	90.00	178.73	5,868.00	-459.76	-16.06	9.00	7.88	-16.31	-173.91	
13,965.93	90.00	178.73	5,868.00	-8,183.35	155.35	0.00	0.00	0.00	0.00	

Database: US EDM 5000 Multi Users DB
Company: Fundare Resources Company, LLC
Project: Weld County, CO (NAD 83)
Site: S29-T10N-R58W
Well: RAZOR #29H-2048
Wellbore: OH
Design: #1 (01.29.22)

Local Co-ordinate Reference: Well RAZOR #29H-2048
TVD Reference: 21' KB @ 4786.20usft
MD Reference: 21' KB @ 4786.20usft
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
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	
200.00	0.00	0.00	200.00	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	
400.00	0.00	0.00	400.00	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	
600.00	0.00	0.00	600.00	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	
800.00	0.00	0.00	800.00	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	
1,000.00	0.00	0.00	1,000.00	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	
1,200.00	0.00	0.00	1,200.00	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	
1,400.00	0.00	0.00	1,400.00	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	
1,600.00	0.00	0.00	1,600.00	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	
1,800.00	0.00	0.00	1,800.00	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	
2,000.00	0.00	0.00	2,000.00	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	
2,200.00	0.00	0.00	2,200.00	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	
2,400.00	0.00	0.00	2,400.00	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	
2,600.00	0.00	0.00	2,600.00	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	
2,800.00	0.00	0.00	2,800.00	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	
3,000.00	0.00	0.00	3,000.00	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	
3,200.00	0.00	0.00	3,200.00	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	
3,352.00	0.00	0.00	3,352.00	0.00	0.00	0.00	0.00	0.00	BUILD 2° DLG
3,400.00	0.96	352.67	3,400.00	0.40	-0.05	-0.40	2.00	2.00	
3,500.00	2.96	352.67	3,499.93	3.79	-0.49	-3.80	2.00	2.00	
3,600.00	4.96	352.67	3,599.69	10.64	-1.37	-10.67	2.00	2.00	
3,652.11	6.00	352.67	3,651.56	15.58	-2.00	-15.62	2.00	2.00	HOLD 6° INC; 352.67° AZM
3,700.00	6.00	352.67	3,699.19	20.54	-2.64	-20.60	0.00	0.00	
3,800.00	6.00	352.67	3,798.64	30.91	-3.98	-31.00	0.00	0.00	
3,900.00	6.00	352.67	3,898.09	41.29	-5.31	-41.39	0.00	0.00	
4,000.00	6.00	352.67	3,997.54	51.66	-6.64	-51.79	0.00	0.00	
4,100.00	6.00	352.67	4,097.00	62.03	-7.98	-62.19	0.00	0.00	
4,200.00	6.00	352.67	4,196.45	72.40	-9.31	-72.59	0.00	0.00	
4,300.00	6.00	352.67	4,295.90	82.77	-10.65	-82.99	0.00	0.00	
4,400.00	6.00	352.67	4,395.35	93.14	-11.98	-93.38	0.00	0.00	
4,500.00	6.00	352.67	4,494.80	103.51	-13.31	-103.78	0.00	0.00	
4,600.00	6.00	352.67	4,594.26	113.88	-14.65	-114.18	0.00	0.00	
4,700.00	6.00	352.67	4,693.71	124.25	-15.98	-124.58	0.00	0.00	
4,800.00	6.00	352.67	4,793.16	134.63	-17.32	-134.98	0.00	0.00	
4,900.00	6.00	352.67	4,892.61	145.00	-18.65	-145.37	0.00	0.00	

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
5,000.00	6.00	352.67	4,992.06	155.37	-19.98	-155.77	0.00	0.00	
5,100.00	6.00	352.67	5,091.51	165.74	-21.32	-166.17	0.00	0.00	
5,174.12	6.00	352.67	5,165.23	173.43	-22.31	-173.88	0.00	0.00	BUILD & TURN 9° DLG
5,200.00	3.69	348.83	5,191.01	175.59	-22.64	-176.04	9.00	-8.92	
5,300.00	5.40	185.47	5,290.89	174.06	-23.72	-174.54	9.00	1.70	
5,400.00	14.37	181.21	5,389.31	156.93	-24.43	-157.44	9.00	8.98	
5,500.00	23.37	180.20	5,483.84	124.62	-24.76	-125.14	9.00	8.99	
5,600.00	32.37	179.73	5,572.15	77.93	-24.70	-78.46	9.00	9.00	
5,700.00	41.36	179.45	5,652.07	18.00	-24.26	-18.53	9.00	9.00	
5,800.00	50.36	179.26	5,721.64	-53.69	-23.44	53.16	9.00	9.00	
5,900.00	59.36	179.11	5,779.13	-135.38	-22.27	134.85	9.00	9.00	
6,000.00	68.36	178.98	5,823.14	-225.05	-20.77	224.53	9.00	9.00	
6,100.00	77.36	178.87	5,852.57	-320.49	-18.98	319.99	9.00	9.00	
6,200.00	86.36	178.77	5,866.72	-419.36	-16.94	418.88	9.00	9.00	
6,240.44	90.00	178.73	5,868.00	-459.76	-16.06	459.30	9.00	9.00	LAND 90° INC; 178.73° AZM
6,300.00	90.00	178.73	5,868.00	-519.31	-14.73	518.86	0.00	0.00	
6,400.00	90.00	178.73	5,868.00	-619.29	-12.52	618.86	0.00	0.00	
6,500.00	90.00	178.73	5,868.00	-719.26	-10.30	718.86	0.00	0.00	
6,600.00	90.00	178.73	5,868.00	-819.24	-8.08	818.86	0.00	0.00	
6,700.00	90.00	178.73	5,868.00	-919.21	-5.86	918.86	0.00	0.00	
6,800.00	90.00	178.73	5,868.00	-1,019.19	-3.64	1,018.86	0.00	0.00	
6,900.00	90.00	178.73	5,868.00	-1,119.16	-1.42	1,118.86	0.00	0.00	
7,000.00	90.00	178.73	5,868.00	-1,219.14	0.80	1,218.86	0.00	0.00	
7,100.00	90.00	178.73	5,868.00	-1,319.11	3.01	1,318.86	0.00	0.00	
7,200.00	90.00	178.73	5,868.00	-1,419.09	5.23	1,418.86	0.00	0.00	
7,300.00	90.00	178.73	5,868.00	-1,519.06	7.45	1,518.86	0.00	0.00	
7,400.00	90.00	178.73	5,868.00	-1,619.04	9.67	1,618.86	0.00	0.00	
7,500.00	90.00	178.73	5,868.00	-1,719.01	11.89	1,718.86	0.00	0.00	
7,600.00	90.00	178.73	5,868.00	-1,818.99	14.11	1,818.86	0.00	0.00	
7,700.00	90.00	178.73	5,868.00	-1,918.97	16.33	1,918.86	0.00	0.00	
7,800.00	90.00	178.73	5,868.00	-2,018.94	18.55	2,018.86	0.00	0.00	
7,900.00	90.00	178.73	5,868.00	-2,118.92	20.76	2,118.86	0.00	0.00	
8,000.00	90.00	178.73	5,868.00	-2,218.89	22.98	2,218.86	0.00	0.00	
8,100.00	90.00	178.73	5,868.00	-2,318.87	25.20	2,318.86	0.00	0.00	
8,200.00	90.00	178.73	5,868.00	-2,418.84	27.42	2,418.86	0.00	0.00	
8,300.00	90.00	178.73	5,868.00	-2,518.82	29.64	2,518.86	0.00	0.00	
8,400.00	90.00	178.73	5,868.00	-2,618.79	31.86	2,618.86	0.00	0.00	
8,500.00	90.00	178.73	5,868.00	-2,718.77	34.08	2,718.86	0.00	0.00	
8,600.00	90.00	178.73	5,868.00	-2,818.74	36.29	2,818.86	0.00	0.00	
8,700.00	90.00	178.73	5,868.00	-2,918.72	38.51	2,918.86	0.00	0.00	
8,800.00	90.00	178.73	5,868.00	-3,018.69	40.73	3,018.86	0.00	0.00	
8,900.00	90.00	178.73	5,868.00	-3,118.67	42.95	3,118.86	0.00	0.00	
9,000.00	90.00	178.73	5,868.00	-3,218.65	45.17	3,218.86	0.00	0.00	
9,100.00	90.00	178.73	5,868.00	-3,318.62	47.39	3,318.86	0.00	0.00	
9,200.00	90.00	178.73	5,868.00	-3,418.60	49.61	3,418.86	0.00	0.00	
9,300.00	90.00	178.73	5,868.00	-3,518.57	51.83	3,518.86	0.00	0.00	
9,400.00	90.00	178.73	5,868.00	-3,618.55	54.04	3,618.86	0.00	0.00	
9,500.00	90.00	178.73	5,868.00	-3,718.52	56.26	3,718.86	0.00	0.00	
9,600.00	90.00	178.73	5,868.00	-3,818.50	58.48	3,818.86	0.00	0.00	
9,700.00	90.00	178.73	5,868.00	-3,918.47	60.70	3,918.86	0.00	0.00	
9,800.00	90.00	178.73	5,868.00	-4,018.45	62.92	4,018.86	0.00	0.00	
9,900.00	90.00	178.73	5,868.00	-4,118.42	65.14	4,118.86	0.00	0.00	

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Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
10,000.00	90.00	178.73	5,868.00	-4,218.40	67.36	4,218.86	0.00	0.00	
10,100.00	90.00	178.73	5,868.00	-4,318.37	69.57	4,318.86	0.00	0.00	
10,200.00	90.00	178.73	5,868.00	-4,418.35	71.79	4,418.86	0.00	0.00	
10,300.00	90.00	178.73	5,868.00	-4,518.33	74.01	4,518.86	0.00	0.00	
10,400.00	90.00	178.73	5,868.00	-4,618.30	76.23	4,618.86	0.00	0.00	
10,500.00	90.00	178.73	5,868.00	-4,718.28	78.45	4,718.86	0.00	0.00	
10,600.00	90.00	178.73	5,868.00	-4,818.25	80.67	4,818.86	0.00	0.00	
10,700.00	90.00	178.73	5,868.00	-4,918.23	82.89	4,918.86	0.00	0.00	
10,800.00	90.00	178.73	5,868.00	-5,018.20	85.10	5,018.86	0.00	0.00	
10,900.00	90.00	178.73	5,868.00	-5,118.18	87.32	5,118.86	0.00	0.00	
11,000.00	90.00	178.73	5,868.00	-5,218.15	89.54	5,218.86	0.00	0.00	
11,100.00	90.00	178.73	5,868.00	-5,318.13	91.76	5,318.86	0.00	0.00	
11,200.00	90.00	178.73	5,868.00	-5,418.10	93.98	5,418.86	0.00	0.00	
11,300.00	90.00	178.73	5,868.00	-5,518.08	96.20	5,518.86	0.00	0.00	
11,400.00	90.00	178.73	5,868.00	-5,618.05	98.42	5,618.86	0.00	0.00	
11,500.00	90.00	178.73	5,868.00	-5,718.03	100.64	5,718.86	0.00	0.00	
11,600.00	90.00	178.73	5,868.00	-5,818.01	102.85	5,818.86	0.00	0.00	
11,700.00	90.00	178.73	5,868.00	-5,917.98	105.07	5,918.86	0.00	0.00	
11,800.00	90.00	178.73	5,868.00	-6,017.96	107.29	6,018.86	0.00	0.00	
11,900.00	90.00	178.73	5,868.00	-6,117.93	109.51	6,118.86	0.00	0.00	
12,000.00	90.00	178.73	5,868.00	-6,217.91	111.73	6,218.86	0.00	0.00	
12,100.00	90.00	178.73	5,868.00	-6,317.88	113.95	6,318.86	0.00	0.00	
12,200.00	90.00	178.73	5,868.00	-6,417.86	116.17	6,418.86	0.00	0.00	
12,300.00	90.00	178.73	5,868.00	-6,517.83	118.38	6,518.86	0.00	0.00	
12,400.00	90.00	178.73	5,868.00	-6,617.81	120.60	6,618.86	0.00	0.00	
12,500.00	90.00	178.73	5,868.00	-6,717.78	122.82	6,718.86	0.00	0.00	
12,600.00	90.00	178.73	5,868.00	-6,817.76	125.04	6,818.86	0.00	0.00	
12,700.00	90.00	178.73	5,868.00	-6,917.73	127.26	6,918.86	0.00	0.00	
12,800.00	90.00	178.73	5,868.00	-7,017.71	129.48	7,018.86	0.00	0.00	
12,900.00	90.00	178.73	5,868.00	-7,117.69	131.70	7,118.86	0.00	0.00	
13,000.00	90.00	178.73	5,868.00	-7,217.66	133.92	7,218.86	0.00	0.00	
13,100.00	90.00	178.73	5,868.00	-7,317.64	136.13	7,318.86	0.00	0.00	
13,200.00	90.00	178.73	5,868.00	-7,417.61	138.35	7,418.86	0.00	0.00	
13,300.00	90.00	178.73	5,868.00	-7,517.59	140.57	7,518.86	0.00	0.00	
13,400.00	90.00	178.73	5,868.00	-7,617.56	142.79	7,618.86	0.00	0.00	
13,500.00	90.00	178.73	5,868.00	-7,717.54	145.01	7,718.86	0.00	0.00	
13,600.00	90.00	178.73	5,868.00	-7,817.51	147.23	7,818.86	0.00	0.00	
13,700.00	90.00	178.73	5,868.00	-7,917.49	149.45	7,918.86	0.00	0.00	
13,800.00	90.00	178.73	5,868.00	-8,017.46	151.66	8,018.86	0.00	0.00	
13,900.00	90.00	178.73	5,868.00	-8,117.44	153.88	8,118.86	0.00	0.00	
13,965.93	90.00	178.73	5,868.00	-8,183.35	155.35	8,184.78	0.00	0.00	PBHL @ 1965.93' MD

Database:	US EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well RAZOR #29H-2048
Company:	Fundare Resources Company, LLC	TVD Reference:	21' KB @ 4786.20usft
Project:	Weld County, CO (NAD 83)	MD Reference:	21' KB @ 4786.20usft
Site:	S29-T10N-R58W	North Reference:	True
Well:	RAZOR #29H-2048	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	#1 (01.29.22)		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Razor 29H - 2048 LP	0.00	0.00	5,868.00	-459.76	-16.06	1,541,681.47	3,447,621.96	40.809094	-103.882952
- plan hits target center									
- Point									
Razor 29H - 2048 PBHL	0.00	0.00	5,868.00	-8,183.35	155.35	1,533,962.29	3,447,934.18	40.787895	-103.882333
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
1,550.00	1,550.00	Upper Pierre		0.00		
3,500.07	3,500.00	Hygiene		0.00		
3,650.54	3,650.00	Lower Pierre		0.00		
5,930.42	5,794.00	P200 Marker		0.00		
6,016.44	5,829.00	P300 Marker		0.00		
6,101.96	5,853.00	P350 Marker		0.00		
6,178.61	5,865.00	Sharon Springs		0.00		
6,240.44	5,868.00	Niobrara		0.00		

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	Comment	
3,352.00	3,352.00	0.00	0.00	BUILD 2° DLG	
3,652.11	3,651.56	15.58	-2.00	HOLD 6° INC; 352.67° AZM	
5,174.12	5,165.23	173.43	-22.31	BUILD & TURN 9° DLG	
6,240.44	5,868.00	-459.76	-16.06	LAND 90° INC; 178.73° AZM	
13,965.93	5,868.00	-8,183.35	155.35	PBHL @ 1965.93' MD	