



Fundare Resources Company, LLC

Weld County, CO (NAD 83)

S29-T10N-R58W

RAZOR #29H-2013

OH

Plan: #1

Standard Planning Report

29 January, 2022



Project: Weld County, CO (NAD 83)
Site: S29-T10N-R58W
Well: RAZOR #29H-2013
Wellbore: OH
Plan: PLAN #1

WELL DETAILS: RAZOR #29H-2013

21' KB @ 4791.40usft
Ground Level: 4770.40

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1542137.65	3447479.64	40.810353	-103.883436

US State Plane 1983
Colorado Northern Zone



Azimuths to True North
Magnetic North: 7.09°

Magnetic Field
Strength: 52262.8nT
Dip Angle: 66.98°
Date: 1/25/2022
Model: HRGM

SECTION DETAILS

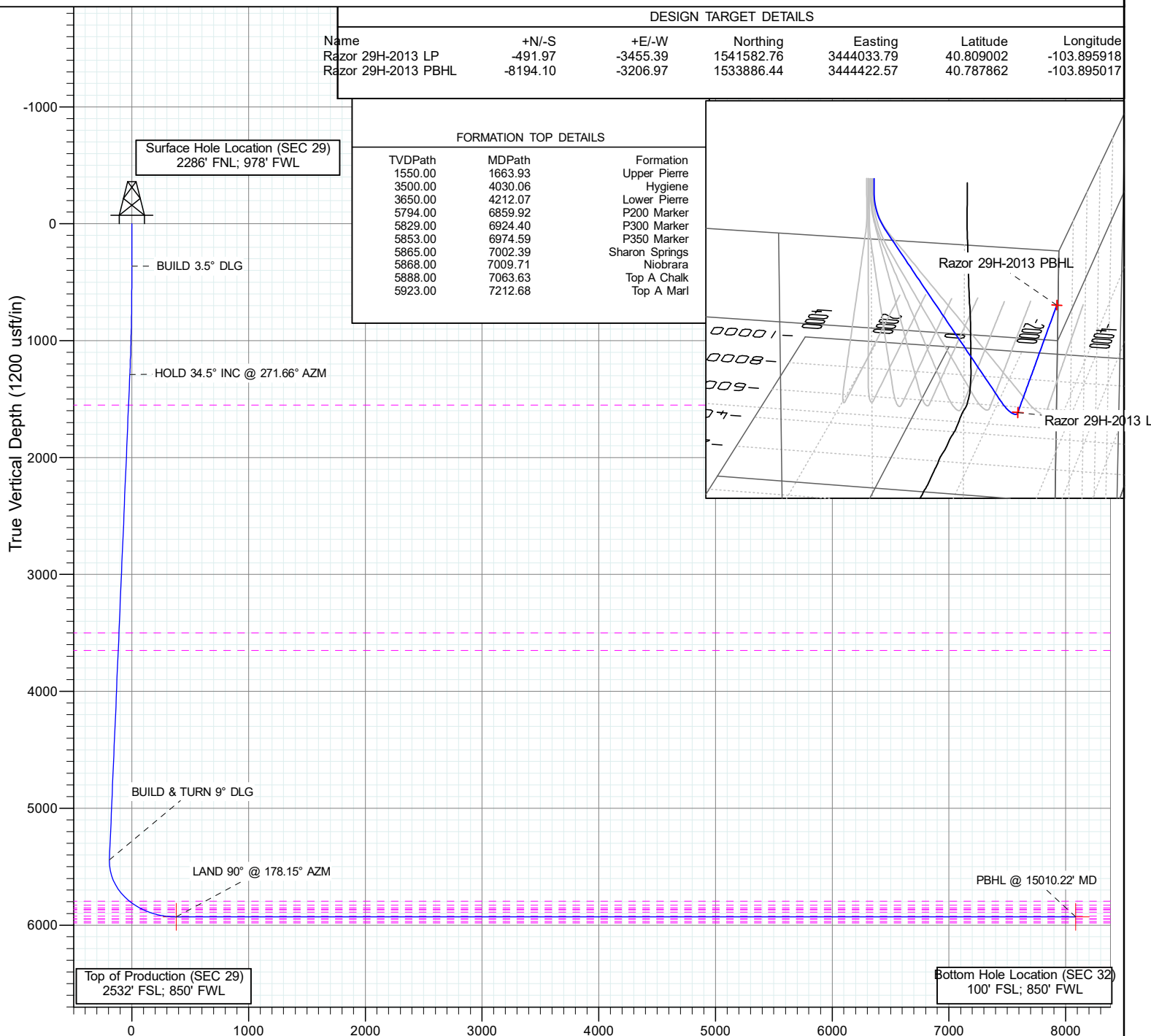
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
363.00	0.00	0.00	363.00	0.00	0.00	0.00	0.00	0.00	BUILD 3.5° DLG
1348.70	34.50	271.66	1290.20	8.36	-287.78	3.50	271.66	-17.64	HOLD 34.5° INC @ 271.66° AZM
6384.21	34.50	271.66	5440.13	91.15	-3138.68	0.00	0.00	-192.43	BUILD & TURN 9° DLG
7304.09	90.00	178.15	5929.00	-491.97	-3455.39	10.00	-92.89	380.17	LAND 90° @ 178.15° AZM
15010.22	90.00	178.15	5929.00	-8194.10	-3206.97	0.00	0.00	8086.30	PBHL @ 15010.22' MD

DESIGN TARGET DETAILS

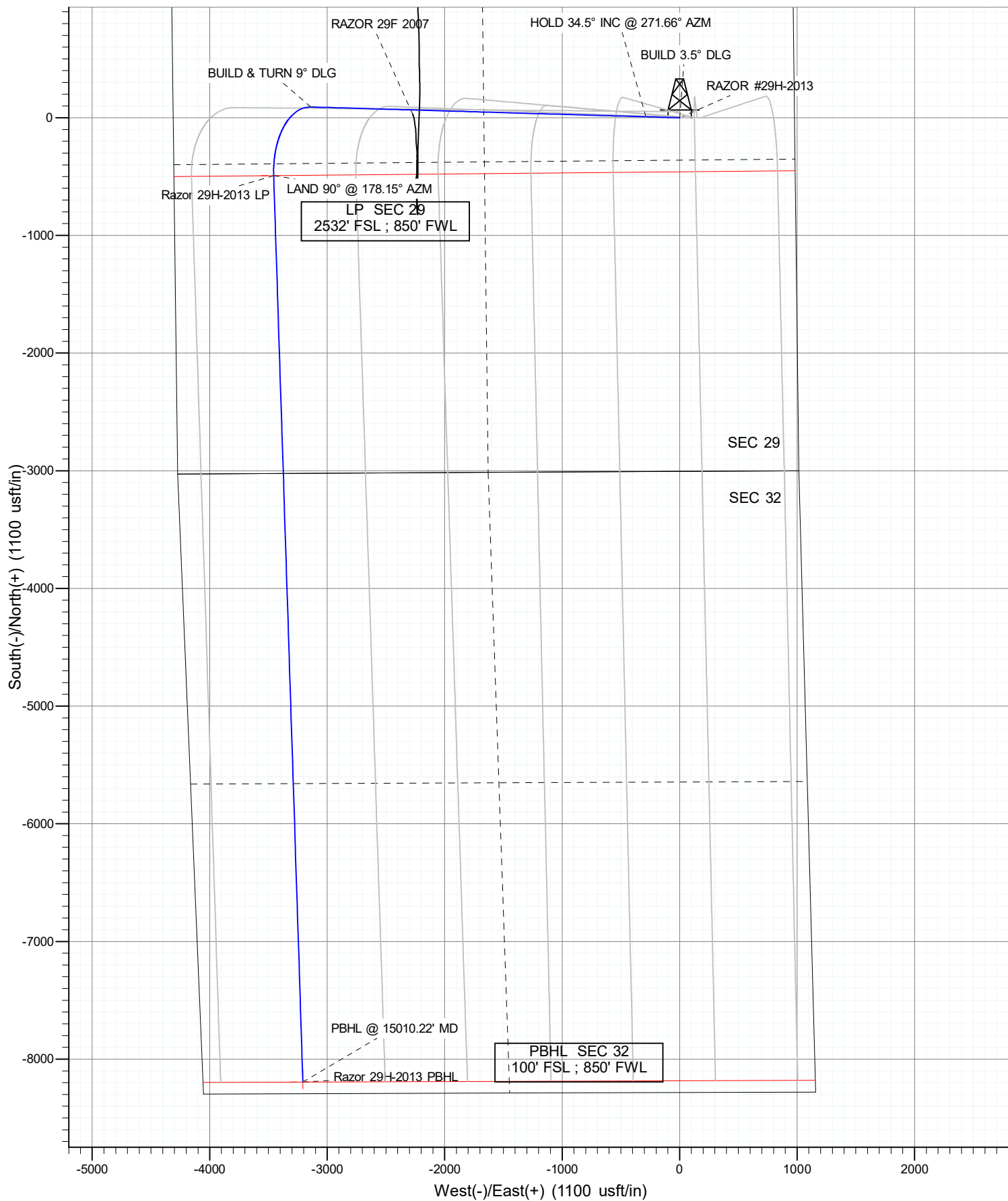
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Razor 29H-2013 LP	-491.97	-3455.39	1541582.76	3444033.79	40.809002	-103.895918
Razor 29H-2013 PBHL	-8194.10	-3206.97	1533886.44	3444422.57	40.787862	-103.895017

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1550.00	1663.93	Upper Pierre
3500.00	4030.06	Hygiene
3650.00	4212.07	Lower Pierre
5794.00	6859.92	P200 Marker
5829.00	6924.40	P300 Marker
5853.00	6974.59	P350 Marker
5865.00	7002.39	Sharon Springs
5868.00	7009.71	Niobrara
5888.00	7063.63	Top A Chalk
5923.00	7212.68	Top A Marl



Vertical Section at 178.15° (1200 usft/in)



Database:	US EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well RAZOR #29H-2013
Company:	Fundare Resources Company, LLC	TVD Reference:	21' KB @ 4791.40usft
Project:	Weld County, CO (NAD 83)	MD Reference:	21' KB @ 4791.40usft
Site:	S29-T10N-R58W	North Reference:	True
Well:	RAZOR #29H-2013	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

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-2013					
Well Position	+N/-S	0.00 usft	Northing:	1,542,137.65 usft	Latitude:	40.810353
	+E/-W	0.00 usft	Easting:	3,447,479.64 usft	Longitude:	-103.883436
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,770.40 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	1/25/2022	7.09	66.98	52,262.75855325

Design	PLAN #1			
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	178.15

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	
363.00	0.00	0.00	363.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,348.70	34.50	271.66	1,290.20	8.36	-287.78	3.50	3.50	0.00	271.66	
6,384.21	34.50	271.66	5,440.13	91.15	-3,138.68	0.00	0.00	0.00	0.00	
7,304.09	90.00	178.15	5,929.00	-491.97	-3,455.39	10.00	6.03	-10.17	-92.89	
15,010.22	90.00	178.15	5,929.00	-8,194.10	-3,206.97	0.00	0.00	0.00	0.00	

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Company: Fundare Resources Company, LLC
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Well: RAZOR #29H-2013
Wellbore: OH
Design: PLAN #1

Local Co-ordinate Reference: Well RAZOR #29H-2013
TVD Reference: 21' KB @ 4791.40usft
MD Reference: 21' KB @ 4791.40usft
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	
363.00	0.00	0.00	363.00	0.00	0.00	0.00	0.00	0.00	BUILD 3.5° DLG
400.00	1.30	271.66	400.00	0.01	-0.42	-0.03	3.50	3.50	
500.00	4.80	271.66	499.84	0.17	-5.73	-0.35	3.50	3.50	
600.00	8.30	271.66	599.17	0.50	-17.12	-1.05	3.50	3.50	
700.00	11.80	271.66	697.62	1.00	-34.55	-2.12	3.50	3.50	
800.00	15.30	271.66	794.83	1.68	-57.96	-3.55	3.50	3.50	
900.00	18.80	271.66	890.42	2.53	-87.25	-5.35	3.50	3.50	
1,000.00	22.30	271.66	984.05	3.55	-122.33	-7.50	3.50	3.50	
1,100.00	25.80	271.66	1,075.35	4.74	-163.05	-10.00	3.50	3.50	
1,200.00	29.30	271.66	1,164.01	6.08	-209.27	-12.83	3.50	3.50	
1,300.00	32.80	271.66	1,249.67	7.57	-260.81	-15.99	3.50	3.50	
1,348.70	34.50	271.66	1,290.21	8.36	-287.78	-17.64	3.50	3.50	HOLD 34.5° INC @ 271.66° AZM
1,400.00	34.50	271.66	1,332.49	9.20	-316.82	-19.42	0.00	0.00	
1,500.00	34.50	271.66	1,414.90	10.85	-373.44	-22.90	0.00	0.00	
1,600.00	34.50	271.66	1,497.31	12.49	-430.06	-26.37	0.00	0.00	
1,700.00	34.50	271.66	1,579.73	14.13	-486.67	-29.84	0.00	0.00	
1,800.00	34.50	271.66	1,662.14	15.78	-543.29	-33.31	0.00	0.00	
1,900.00	34.50	271.66	1,744.55	17.42	-599.90	-36.78	0.00	0.00	
2,000.00	34.50	271.66	1,826.97	19.07	-656.52	-40.25	0.00	0.00	
2,100.00	34.50	271.66	1,909.38	20.71	-713.13	-43.72	0.00	0.00	
2,200.00	34.50	271.66	1,991.79	22.35	-769.75	-47.19	0.00	0.00	
2,300.00	34.50	271.66	2,074.21	24.00	-826.37	-50.66	0.00	0.00	
2,400.00	34.50	271.66	2,156.62	25.64	-882.98	-54.13	0.00	0.00	
2,500.00	34.50	271.66	2,239.03	27.29	-939.60	-57.61	0.00	0.00	
2,600.00	34.50	271.66	2,321.44	28.93	-996.21	-61.08	0.00	0.00	
2,700.00	34.50	271.66	2,403.86	30.58	-1,052.83	-64.55	0.00	0.00	
2,800.00	34.50	271.66	2,486.27	32.22	-1,109.45	-68.02	0.00	0.00	
2,900.00	34.50	271.66	2,568.68	33.86	-1,166.06	-71.49	0.00	0.00	
3,000.00	34.50	271.66	2,651.10	35.51	-1,222.68	-74.96	0.00	0.00	
3,100.00	34.50	271.66	2,733.51	37.15	-1,279.29	-78.43	0.00	0.00	
3,200.00	34.50	271.66	2,815.92	38.80	-1,335.91	-81.90	0.00	0.00	
3,300.00	34.50	271.66	2,898.34	40.44	-1,392.52	-85.37	0.00	0.00	
3,400.00	34.50	271.66	2,980.75	42.08	-1,449.14	-88.85	0.00	0.00	
3,500.00	34.50	271.66	3,063.16	43.73	-1,505.76	-92.32	0.00	0.00	
3,600.00	34.50	271.66	3,145.58	45.37	-1,562.37	-95.79	0.00	0.00	
3,700.00	34.50	271.66	3,227.99	47.02	-1,618.99	-99.26	0.00	0.00	
3,800.00	34.50	271.66	3,310.40	48.66	-1,675.60	-102.73	0.00	0.00	
3,900.00	34.50	271.66	3,392.82	50.31	-1,732.22	-106.20	0.00	0.00	
4,000.00	34.50	271.66	3,475.23	51.95	-1,788.84	-109.67	0.00	0.00	
4,100.00	34.50	271.66	3,557.64	53.59	-1,845.45	-113.14	0.00	0.00	
4,200.00	34.50	271.66	3,640.06	55.24	-1,902.07	-116.61	0.00	0.00	
4,300.00	34.50	271.66	3,722.47	56.88	-1,958.68	-120.09	0.00	0.00	
4,400.00	34.50	271.66	3,804.88	58.53	-2,015.30	-123.56	0.00	0.00	
4,500.00	34.50	271.66	3,887.30	60.17	-2,071.91	-127.03	0.00	0.00	
4,600.00	34.50	271.66	3,969.71	61.82	-2,128.53	-130.50	0.00	0.00	
4,700.00	34.50	271.66	4,052.12	63.46	-2,185.15	-133.97	0.00	0.00	
4,800.00	34.50	271.66	4,134.54	65.10	-2,241.76	-137.44	0.00	0.00	
4,900.00	34.50	271.66	4,216.95	66.75	-2,298.38	-140.91	0.00	0.00	

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TVD Reference: 21' KB @ 4791.40usft
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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
5,000.00	34.50	271.66	4,299.36	68.39	-2,354.99	-144.38	0.00	0.00	
5,100.00	34.50	271.66	4,381.78	70.04	-2,411.61	-147.85	0.00	0.00	
5,200.00	34.50	271.66	4,464.19	71.68	-2,468.23	-151.32	0.00	0.00	
5,300.00	34.50	271.66	4,546.60	73.32	-2,524.84	-154.80	0.00	0.00	
5,400.00	34.50	271.66	4,629.02	74.97	-2,581.46	-158.27	0.00	0.00	
5,500.00	34.50	271.66	4,711.43	76.61	-2,638.07	-161.74	0.00	0.00	
5,600.00	34.50	271.66	4,793.84	78.26	-2,694.69	-165.21	0.00	0.00	
5,700.00	34.50	271.66	4,876.26	79.90	-2,751.31	-168.68	0.00	0.00	
5,800.00	34.50	271.66	4,958.67	81.55	-2,807.92	-172.15	0.00	0.00	
5,900.00	34.50	271.66	5,041.08	83.19	-2,864.54	-175.62	0.00	0.00	
6,000.00	34.50	271.66	5,123.50	84.83	-2,921.15	-179.09	0.00	0.00	
6,100.00	34.50	271.66	5,205.91	86.48	-2,977.77	-182.56	0.00	0.00	
6,200.00	34.50	271.66	5,288.32	88.12	-3,034.38	-186.04	0.00	0.00	
6,300.00	34.50	271.66	5,370.73	89.77	-3,091.00	-189.51	0.00	0.00	
6,384.21	34.50	271.66	5,440.14	91.15	-3,138.68	-192.43	0.00	0.00	BUILD & TURN 9° DLG
6,400.00	34.45	268.88	5,453.15	91.19	-3,147.61	-192.76	10.00	-0.30	
6,500.00	35.60	251.52	5,535.25	81.39	-3,203.64	-184.77	10.00	1.15	
6,600.00	39.02	235.98	5,614.95	54.48	-3,257.47	-159.61	10.00	3.42	
6,700.00	44.19	223.04	5,689.84	11.28	-3,307.48	-118.05	10.00	5.16	
6,800.00	50.55	212.52	5,757.64	-46.89	-3,352.14	-61.35	10.00	6.36	
6,900.00	57.69	203.87	5,816.29	-118.26	-3,390.09	8.76	10.00	7.14	
7,000.00	65.33	196.52	5,864.00	-200.68	-3,420.18	90.16	10.00	7.64	
7,100.00	73.29	190.04	5,899.34	-291.62	-3,441.50	180.37	10.00	7.96	
7,200.00	81.43	184.08	5,921.22	-388.34	-3,453.40	276.65	10.00	8.14	
7,300.00	89.66	178.38	5,928.99	-487.89	-3,455.52	376.08	10.00	8.23	
7,304.09	90.00	178.15	5,929.00	-491.98	-3,455.39	380.17	9.99	8.24	LAND 90° @ 178.15° AZM
7,400.00	90.00	178.15	5,929.00	-587.84	-3,452.30	476.08	0.00	0.00	
7,500.00	90.00	178.15	5,929.00	-687.79	-3,449.08	576.08	0.00	0.00	
7,600.00	90.00	178.15	5,929.00	-787.73	-3,445.85	676.08	0.00	0.00	
7,700.00	90.00	178.15	5,929.00	-887.68	-3,442.63	776.08	0.00	0.00	
7,800.00	90.00	178.15	5,929.00	-987.63	-3,439.41	876.08	0.00	0.00	
7,900.00	90.00	178.15	5,929.00	-1,087.58	-3,436.18	976.08	0.00	0.00	
8,000.00	90.00	178.15	5,929.00	-1,187.53	-3,432.96	1,076.08	0.00	0.00	
8,100.00	90.00	178.15	5,929.00	-1,287.47	-3,429.73	1,176.08	0.00	0.00	
8,200.00	90.00	178.15	5,929.00	-1,387.42	-3,426.51	1,276.08	0.00	0.00	
8,300.00	90.00	178.15	5,929.00	-1,487.37	-3,423.29	1,376.08	0.00	0.00	
8,400.00	90.00	178.15	5,929.00	-1,587.32	-3,420.06	1,476.08	0.00	0.00	
8,500.00	90.00	178.15	5,929.00	-1,687.27	-3,416.84	1,576.08	0.00	0.00	
8,600.00	90.00	178.15	5,929.00	-1,787.21	-3,413.62	1,676.08	0.00	0.00	
8,700.00	90.00	178.15	5,929.00	-1,887.16	-3,410.39	1,776.08	0.00	0.00	
8,800.00	90.00	178.15	5,929.00	-1,987.11	-3,407.17	1,876.08	0.00	0.00	
8,900.00	90.00	178.15	5,929.00	-2,087.06	-3,403.94	1,976.08	0.00	0.00	
9,000.00	90.00	178.15	5,929.00	-2,187.01	-3,400.72	2,076.08	0.00	0.00	
9,100.00	90.00	178.15	5,929.00	-2,286.95	-3,397.50	2,176.08	0.00	0.00	
9,200.00	90.00	178.15	5,929.00	-2,386.90	-3,394.27	2,276.08	0.00	0.00	
9,300.00	90.00	178.15	5,929.00	-2,486.85	-3,391.05	2,376.08	0.00	0.00	
9,400.00	90.00	178.15	5,929.00	-2,586.80	-3,387.83	2,476.08	0.00	0.00	
9,500.00	90.00	178.15	5,929.00	-2,686.75	-3,384.60	2,576.08	0.00	0.00	
9,600.00	90.00	178.15	5,929.00	-2,786.69	-3,381.38	2,676.08	0.00	0.00	
9,700.00	90.00	178.15	5,929.00	-2,886.64	-3,378.16	2,776.08	0.00	0.00	
9,800.00	90.00	178.15	5,929.00	-2,986.59	-3,374.93	2,876.08	0.00	0.00	
9,900.00	90.00	178.15	5,929.00	-3,086.54	-3,371.71	2,976.08	0.00	0.00	

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Survey Calculation Method: Minimum Curvature

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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	178.15	5,929.00	-3,186.49	-3,368.48	3,076.08	0.00	0.00	
10,100.00	90.00	178.15	5,929.00	-3,286.43	-3,365.26	3,176.08	0.00	0.00	
10,200.00	90.00	178.15	5,929.00	-3,386.38	-3,362.04	3,276.08	0.00	0.00	
10,300.00	90.00	178.15	5,929.00	-3,486.33	-3,358.81	3,376.08	0.00	0.00	
10,400.00	90.00	178.15	5,929.00	-3,586.28	-3,355.59	3,476.08	0.00	0.00	
10,500.00	90.00	178.15	5,929.00	-3,686.23	-3,352.37	3,576.08	0.00	0.00	
10,600.00	90.00	178.15	5,929.00	-3,786.18	-3,349.14	3,676.08	0.00	0.00	
10,700.00	90.00	178.15	5,929.00	-3,886.12	-3,345.92	3,776.08	0.00	0.00	
10,800.00	90.00	178.15	5,929.00	-3,986.07	-3,342.70	3,876.08	0.00	0.00	
10,900.00	90.00	178.15	5,929.00	-4,086.02	-3,339.47	3,976.08	0.00	0.00	
11,000.00	90.00	178.15	5,929.00	-4,185.97	-3,336.25	4,076.08	0.00	0.00	
11,100.00	90.00	178.15	5,929.00	-4,285.92	-3,333.02	4,176.08	0.00	0.00	
11,200.00	90.00	178.15	5,929.00	-4,385.86	-3,329.80	4,276.08	0.00	0.00	
11,300.00	90.00	178.15	5,929.00	-4,485.81	-3,326.58	4,376.08	0.00	0.00	
11,400.00	90.00	178.15	5,929.00	-4,585.76	-3,323.35	4,476.08	0.00	0.00	
11,500.00	90.00	178.15	5,929.00	-4,685.71	-3,320.13	4,576.08	0.00	0.00	
11,600.00	90.00	178.15	5,929.00	-4,785.66	-3,316.91	4,676.08	0.00	0.00	
11,700.00	90.00	178.15	5,929.00	-4,885.60	-3,313.68	4,776.08	0.00	0.00	
11,800.00	90.00	178.15	5,929.00	-4,985.55	-3,310.46	4,876.08	0.00	0.00	
11,900.00	90.00	178.15	5,929.00	-5,085.50	-3,307.23	4,976.08	0.00	0.00	
12,000.00	90.00	178.15	5,929.00	-5,185.45	-3,304.01	5,076.08	0.00	0.00	
12,100.00	90.00	178.15	5,929.00	-5,285.40	-3,300.79	5,176.08	0.00	0.00	
12,200.00	90.00	178.15	5,929.00	-5,385.34	-3,297.56	5,276.08	0.00	0.00	
12,300.00	90.00	178.15	5,929.00	-5,485.29	-3,294.34	5,376.08	0.00	0.00	
12,400.00	90.00	178.15	5,929.00	-5,585.24	-3,291.12	5,476.08	0.00	0.00	
12,500.00	90.00	178.15	5,929.00	-5,685.19	-3,287.89	5,576.08	0.00	0.00	
12,600.00	90.00	178.15	5,929.00	-5,785.14	-3,284.67	5,676.08	0.00	0.00	
12,700.00	90.00	178.15	5,929.00	-5,885.08	-3,281.45	5,776.08	0.00	0.00	
12,800.00	90.00	178.15	5,929.00	-5,985.03	-3,278.22	5,876.08	0.00	0.00	
12,900.00	90.00	178.15	5,929.00	-6,084.98	-3,275.00	5,976.08	0.00	0.00	
13,000.00	90.00	178.15	5,929.00	-6,184.93	-3,271.77	6,076.08	0.00	0.00	
13,100.00	90.00	178.15	5,929.00	-6,284.88	-3,268.55	6,176.08	0.00	0.00	
13,200.00	90.00	178.15	5,929.00	-6,384.82	-3,265.33	6,276.08	0.00	0.00	
13,300.00	90.00	178.15	5,929.00	-6,484.77	-3,262.10	6,376.08	0.00	0.00	
13,400.00	90.00	178.15	5,929.00	-6,584.72	-3,258.88	6,476.08	0.00	0.00	
13,500.00	90.00	178.15	5,929.00	-6,684.67	-3,255.66	6,576.08	0.00	0.00	
13,600.00	90.00	178.15	5,929.00	-6,784.62	-3,252.43	6,676.08	0.00	0.00	
13,700.00	90.00	178.15	5,929.00	-6,884.56	-3,249.21	6,776.08	0.00	0.00	
13,800.00	90.00	178.15	5,929.00	-6,984.51	-3,245.98	6,876.08	0.00	0.00	
13,900.00	90.00	178.15	5,929.00	-7,084.46	-3,242.76	6,976.08	0.00	0.00	
14,000.00	90.00	178.15	5,929.00	-7,184.41	-3,239.54	7,076.08	0.00	0.00	
14,100.00	90.00	178.15	5,929.00	-7,284.36	-3,236.31	7,176.08	0.00	0.00	
14,200.00	90.00	178.15	5,929.00	-7,384.30	-3,233.09	7,276.08	0.00	0.00	
14,300.00	90.00	178.15	5,929.00	-7,484.25	-3,229.87	7,376.08	0.00	0.00	
14,400.00	90.00	178.15	5,929.00	-7,584.20	-3,226.64	7,476.08	0.00	0.00	
14,500.00	90.00	178.15	5,929.00	-7,684.15	-3,223.42	7,576.08	0.00	0.00	
14,600.00	90.00	178.15	5,929.00	-7,784.10	-3,220.20	7,676.08	0.00	0.00	
14,700.00	90.00	178.15	5,929.00	-7,884.04	-3,216.97	7,776.08	0.00	0.00	
14,800.00	90.00	178.15	5,929.00	-7,983.99	-3,213.75	7,876.08	0.00	0.00	
14,900.00	90.00	178.15	5,929.00	-8,083.94	-3,210.52	7,976.08	0.00	0.00	
15,000.00	90.00	178.15	5,929.00	-8,183.89	-3,207.30	8,076.08	0.00	0.00	
15,010.22	90.00	178.15	5,929.00	-8,194.10	-3,206.97	8,086.30	0.00	0.00	PBHL @ 15010.22' MD

Database:	US EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well RAZOR #29H-2013
Company:	Fundare Resources Company, LLC	TVD Reference:	21' KB @ 4791.40usft
Project:	Weld County, CO (NAD 83)	MD Reference:	21' KB @ 4791.40usft
Site:	S29-T10N-R58W	North Reference:	True
Well:	RAZOR #29H-2013	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

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

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Razor 29H-2013 LP - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	5,929.00	-491.97	-3,455.39	1,541,582.76	3,444,033.79	40.809002	-103.895918
Razor 29H-2013 PBHL - plan hits target center - Point	0.00	0.00	5,929.00	-8,194.10	-3,206.97	1,533,886.44	3,444,422.57	40.787862	-103.895017

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,663.93	1,550.00	Upper Pierre		0.00		
4,030.06	3,500.00	Hygiene		0.00		
4,212.07	3,650.00	Lower Pierre		0.00		
6,859.92	5,794.00	P200 Marker		0.00		
6,924.40	5,829.00	P300 Marker		0.00		
6,974.59	5,853.00	P350 Marker		0.00		
7,002.39	5,865.00	Sharon Springs		0.00		
7,009.71	5,868.00	Niobrara		0.00		
7,063.63	5,888.00	Top A Chalk		0.00		
7,212.68	5,923.00	Top A Marl		0.00		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
363.00	363.00	0.00	0.00	BUILD 3.5° DLG
1,348.70	1,290.21	8.36	-287.78	HOLD 34.5° INC @ 271.66° AZM
6,384.21	5,440.14	91.15	-3,138.68	BUILD & TURN 9° DLG
7,304.09	5,929.00	-491.98	-3,455.39	LAND 90° @ 178.15° AZM
15,010.22	5,929.00	-8,194.10	-3,206.97	PBHL @ 15010.22' MD