

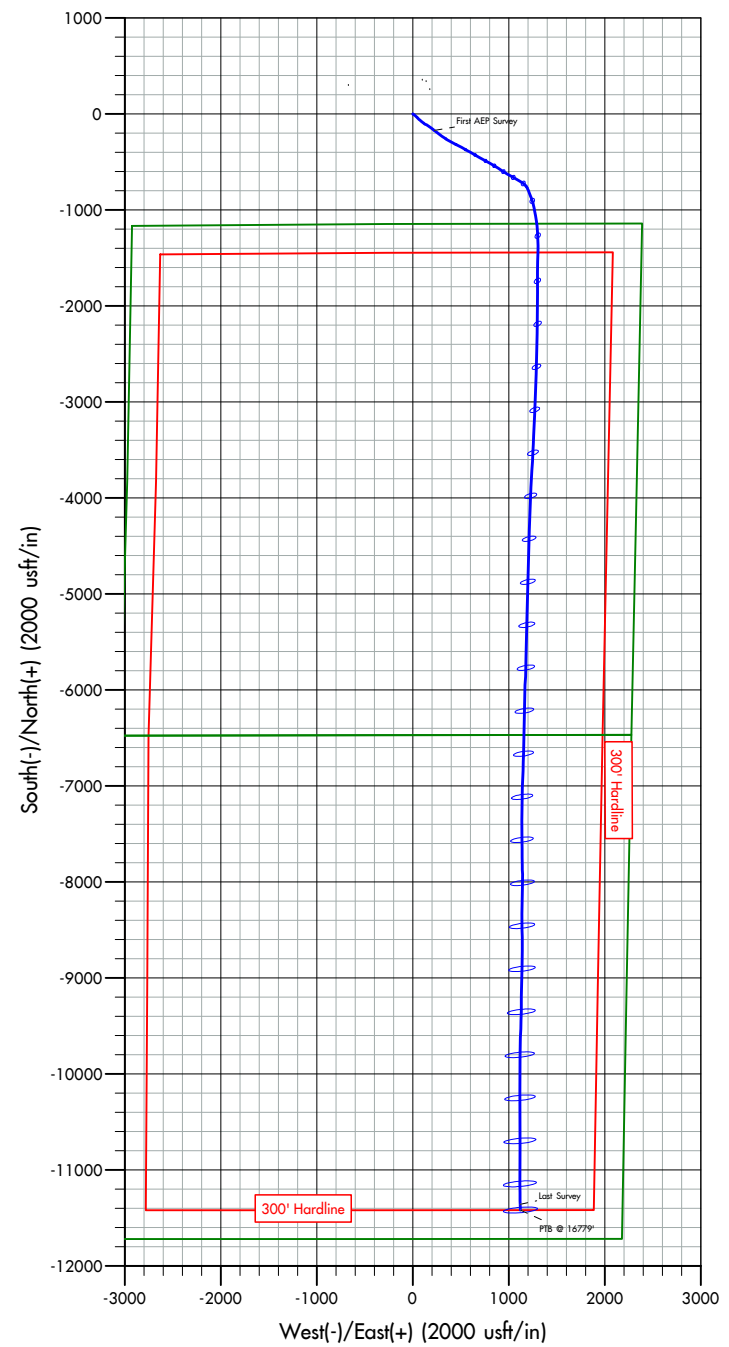
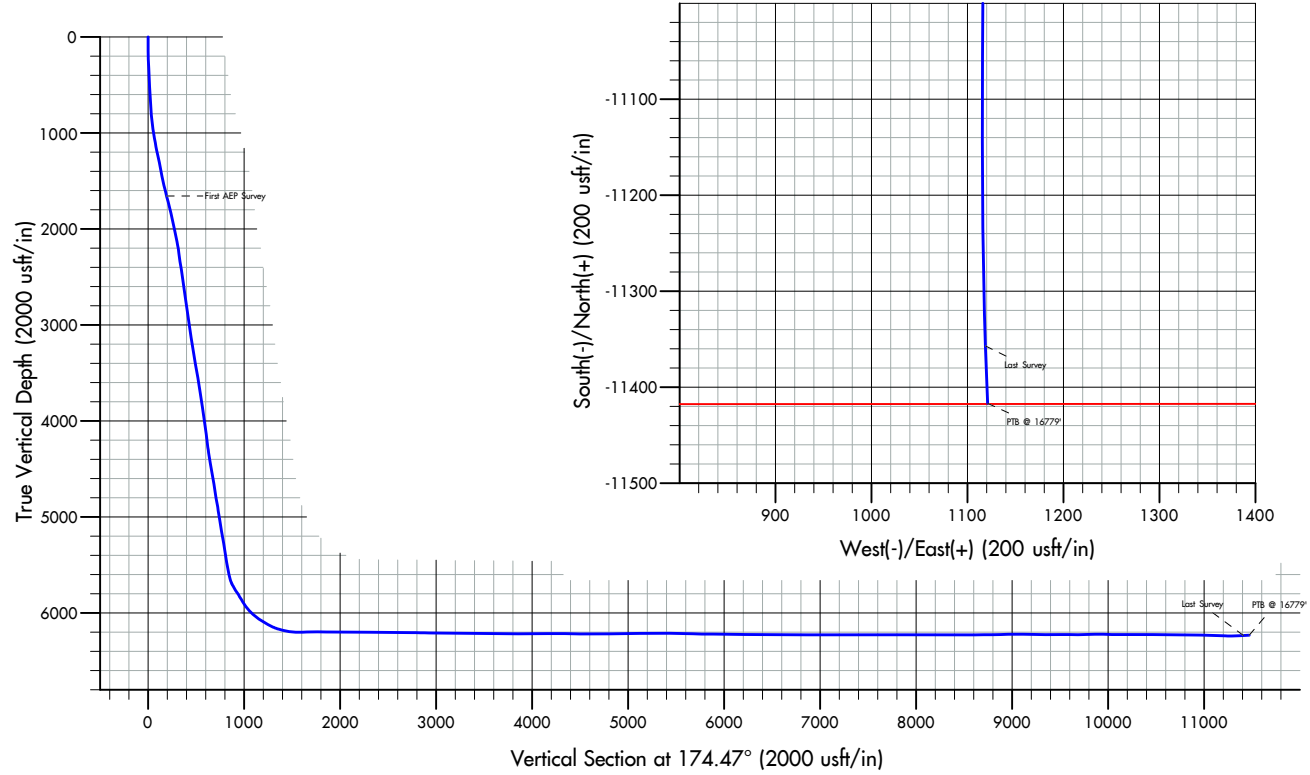


Project: Weld Co., CO (NAD-83)
 Site: Eider Pad
 Well: Eider 36-1-6HN
 Wellbore: OH
 Design: OH
 Lat: 40.629351
 Long: -104.038914
 GL: 4927.00
 KB: KB=20' @ 4947.00usft (PD 460)

WELL DETAILS: Eider 36-1-6HN						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	1475455.55	3405532.52	40.629351	-104.038914	

ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Annotation	
1693.00	20.56	129.76	1657.44	-171.64	224.35	192.46	First AEP Survey	
16719.00	93.40	178.03	6235.71	-11356.91	1118.97	11411.89	Last Survey	
16779.00	93.40	178.03	6232.15	-11416.77	1121.03	11471.67	PTB @ 16779'	

BHL
 MD: 16779'
 TVD: 6232.15'
 N/S: -11416.77'
 E/W: 1121.03'



Azimuths to True North
 Magnetic North: 7.51°
 Magnetic Field
 Strength: 51880.3nT
 Dip Angle: 66.76°
 Date: 8/1/2023
 Model: HRGM

FORMATION TOPS
 No formation data is available

BISON IV OPERATING LLC

Weld Co., CO (NAD-83)

Eider Pad

Eider 36-1-6HN

OH

Design: OH

Standard Survey Report

02 November, 2023

Survey Report

Company: Bison Oil & Gas IV, LLC	Local Co-ordinate Reference: Well Eider 36-1-6HN
Project: Weld Co., CO (NAD-83)	TVD Reference: KB=20' @ 4947.00usft (PD 460)
Site: Eider Pad	MD Reference: KB=20' @ 4947.00usft (PD 460)
Well: Eider 36-1-6HN	North Reference: True
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: OH	Database: EDM Prod

Project Weld Co., 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 Eider Pad		
Site Position:	Northing: 1,475,453.96 usft	Latitude: 40.629351
From: Lat/Long	Easting: 3,405,432.60 usft	Longitude: -104.039274
Position Uncertainty: 0.00 usft	Slot Radius: 13-3/16 "	

Well Eider 36-1-6HN		
Well Position +N/-S 0.00 usft	Northing: 1,475,455.55 usft	Latitude: 40.629351
+E/-W 0.00 usft	Easting: 3,405,532.52 usft	Longitude: -104.038914
Position Uncertainty 0.00 usft	Wellhead Elevation: usft	Ground Level: 4,927.00 usft
Grid Convergence: 0.94 °		

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	8/1/2023	7.51	66.76	51,880.28493347

Design OH					
Audit Notes:					
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.00			
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	174.47	

Survey Program		Date 11/2/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
5.00	1,625.00	Surface (OH)	MWD	OWSG MWD - Standard
1,693.00	16,779.00	MWD Survey (OH)	MWD+HDGM	OWSG MWD + HRGM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143.00	1.90	126.60	142.97	-1.36	1.84	1.53	1.38	1.38	0.00	
234.00	2.60	122.90	233.90	-3.38	4.78	3.83	0.79	0.77	-4.07	
325.00	3.00	122.70	324.80	-5.79	8.52	6.59	0.44	0.44	-0.22	
412.00	3.90	128.00	411.64	-8.84	12.77	10.03	1.10	1.03	6.09	
501.00	4.90	121.20	500.37	-12.68	18.40	14.39	1.27	1.12	-7.64	
588.00	4.30	130.30	587.09	-16.71	24.07	18.95	1.08	-0.69	10.46	
675.00	5.30	130.30	673.79	-21.42	29.62	24.17	1.15	1.15	0.00	

Survey Report

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Site:	Eider Pad	MD Reference:	KB=20' @ 4947.00usft (PD 460)
Well:	Eider 36-1-6HN	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM Prod

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
763.00	5.60	133.50	761.39	-27.00	35.83	30.33	0.49	0.34	3.64	
850.00	7.40	135.40	847.83	-33.92	42.85	37.89	2.08	2.07	2.18	
937.00	9.20	135.30	933.91	-42.85	51.67	47.63	2.07	2.07	-0.11	
1,024.00	12.20	134.20	1,019.39	-54.20	63.16	60.04	3.46	3.45	-1.26	
1,111.00	14.90	130.90	1,103.96	-67.94	78.21	75.16	3.23	3.10	-3.79	
1,198.00	16.65	128.71	1,187.68	-83.06	96.39	91.96	2.12	2.01	-2.52	
1,285.00	18.70	123.50	1,270.58	-98.55	117.75	109.44	2.97	2.36	-5.99	
1,374.00	18.80	118.90	1,354.86	-113.36	142.20	126.54	1.66	0.11	-5.17	
1,460.00	17.90	122.50	1,436.49	-127.16	165.48	142.51	1.68	-1.05	4.19	
1,548.00	17.30	126.90	1,520.37	-142.28	187.35	159.67	1.66	-0.68	5.00	
1,625.00	19.20	128.50	1,593.50	-157.04	206.42	176.20	2.55	2.47	2.08	
1,693.00	20.56	129.76	1,657.44	-171.64	224.35	192.46	2.10	2.00	1.85	
First AEP Survey										
1,783.00	20.10	128.31	1,741.84	-191.33	248.63	214.40	0.76	-0.51	-1.61	
1,873.00	19.16	125.99	1,826.61	-209.60	272.72	234.90	1.36	-1.04	-2.58	
1,962.00	19.24	125.30	1,910.66	-226.65	296.50	254.17	0.27	0.09	-0.78	
2,052.00	19.01	123.85	1,995.69	-243.39	320.78	273.17	0.59	-0.26	-1.61	
2,142.00	18.11	123.09	2,081.01	-259.19	344.67	291.20	1.04	-1.00	-0.84	
2,231.00	16.23	120.39	2,166.04	-273.04	366.99	307.13	2.29	-2.11	-3.03	
2,321.00	14.91	118.43	2,252.73	-284.91	388.02	320.98	1.58	-1.47	-2.18	
2,410.00	14.75	117.63	2,338.77	-295.62	408.13	333.57	0.29	-0.18	-0.90	
2,500.00	14.72	117.20	2,425.81	-306.16	428.45	346.02	0.13	-0.03	-0.48	
2,590.00	14.56	117.43	2,512.89	-316.59	448.66	358.36	0.19	-0.18	0.26	
2,679.00	14.28	116.98	2,599.08	-326.73	468.37	370.34	0.34	-0.31	-0.51	
2,769.00	14.51	114.92	2,686.26	-336.51	488.49	382.02	0.62	0.26	-2.29	
2,858.00	15.15	121.94	2,772.30	-347.37	508.47	394.75	2.14	0.72	7.89	
2,948.00	15.12	121.12	2,859.18	-359.65	528.50	408.91	0.24	-0.03	-0.91	
3,038.00	15.05	119.49	2,946.08	-371.47	548.72	422.62	0.48	-0.08	-1.81	
3,127.00	14.58	118.39	3,032.12	-382.49	568.63	435.50	0.62	-0.53	-1.24	
3,217.00	13.91	118.45	3,119.35	-393.03	588.11	447.87	0.74	-0.74	0.07	
3,307.00	15.11	118.83	3,206.48	-403.84	607.90	460.54	1.34	1.33	0.42	
3,396.00	14.96	118.00	3,292.43	-414.82	628.20	473.43	0.29	-0.17	-0.93	
3,486.00	16.87	121.44	3,378.98	-427.09	649.61	487.70	2.37	2.12	3.82	
3,575.00	17.40	121.20	3,464.03	-440.72	672.01	503.43	0.60	0.60	-0.27	
3,665.00	15.74	119.00	3,550.29	-453.61	694.20	518.40	1.97	-1.84	-2.44	
3,755.00	16.13	118.52	3,636.83	-465.50	715.86	532.32	0.46	0.43	-0.53	
3,844.00	14.73	119.04	3,722.62	-476.89	736.61	545.66	1.58	-1.57	0.58	
3,934.00	14.78	119.73	3,809.65	-488.14	756.58	558.78	0.20	0.06	0.77	
4,023.00	14.40	119.54	3,895.78	-499.23	776.07	571.69	0.43	-0.43	-0.21	
4,113.00	14.18	118.53	3,983.00	-510.01	795.49	584.30	0.37	-0.24	-1.12	
4,203.00	13.42	118.67	4,070.40	-520.29	814.34	596.34	0.85	-0.84	0.16	
4,293.00	12.56	119.12	4,158.10	-530.06	832.05	607.77	0.96	-0.96	0.50	
4,382.00	11.76	120.21	4,245.10	-539.33	848.35	618.57	0.94	-0.90	1.22	

Survey Report

Company:	Bison Oil & Gas IV, LLC	Local Co-ordinate Reference:	Well Eider 36-1-6HN
Project:	Weld Co., CO (NAD-83)	TVD Reference:	KB=20' @ 4947.00usft (PD 460)
Site:	Eider Pad	MD Reference:	KB=20' @ 4947.00usft (PD 460)
Well:	Eider 36-1-6HN	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM Prod

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,472.00	14.66	117.52	4,332.71	-549.21	866.38	630.14	3.29	3.22	-2.99	
4,562.00	15.81	124.94	4,419.55	-561.50	886.53	644.31	2.51	1.28	8.24	
4,651.00	15.13	126.17	4,505.33	-575.29	905.84	659.91	0.85	-0.76	1.38	
4,741.00	14.93	122.34	4,592.25	-588.43	925.12	674.84	1.13	-0.22	-4.26	
4,830.00	14.11	122.95	4,678.41	-600.46	943.91	688.63	0.94	-0.92	0.69	
4,920.00	14.62	121.19	4,765.59	-612.31	962.83	702.25	0.75	0.57	-1.96	
5,010.00	16.39	121.52	4,852.32	-624.83	983.38	716.69	1.97	1.97	0.37	
5,099.00	15.08	120.23	4,937.98	-637.23	1,004.09	731.02	1.52	-1.47	-1.45	
5,189.00	15.96	119.31	5,024.70	-649.18	1,024.99	744.93	1.02	0.98	-1.02	
5,278.00	16.10	116.63	5,110.24	-660.70	1,046.69	758.49	0.85	0.16	-3.01	
5,368.00	17.11	119.45	5,196.48	-672.80	1,069.38	772.73	1.44	1.12	3.13	
5,458.00	15.66	122.29	5,282.83	-685.80	1,091.18	787.77	1.84	-1.61	3.16	
5,547.00	16.38	121.06	5,368.37	-698.70	1,112.08	802.61	0.89	0.81	-1.38	
5,637.00	14.16	122.62	5,455.19	-711.18	1,132.23	816.98	2.51	-2.47	1.73	
5,726.00	15.10	124.08	5,541.30	-723.54	1,151.00	831.09	1.13	1.06	1.64	
5,816.00	16.85	135.94	5,627.85	-739.49	1,169.78	848.78	4.11	1.94	13.18	
5,906.00	29.91	150.58	5,710.34	-768.56	1,189.98	879.66	15.78	14.51	16.27	
5,995.00	35.07	160.27	5,785.44	-812.01	1,209.54	924.79	8.22	5.80	10.89	
6,085.00	31.26	157.57	5,860.77	-857.96	1,227.18	972.22	4.54	-4.23	-3.00	
6,174.00	36.53	161.76	5,934.63	-904.50	1,244.30	1,020.20	6.47	5.92	4.71	
6,264.00	46.36	168.00	6,002.04	-961.96	1,259.50	1,078.85	11.84	10.92	6.93	
6,354.00	55.53	169.66	6,058.69	-1,030.46	1,272.96	1,148.33	10.29	10.19	1.84	
6,443.00	58.84	170.88	6,106.91	-1,104.17	1,285.58	1,222.92	3.89	3.72	1.37	
6,533.00	66.59	174.58	6,148.15	-1,183.44	1,295.60	1,302.79	9.35	8.61	4.11	
6,622.00	75.65	177.83	6,176.93	-1,267.37	1,301.11	1,386.86	10.75	10.18	3.65	
6,712.00	80.73	180.08	6,195.34	-1,355.42	1,302.70	1,474.65	6.15	5.64	2.50	
6,802.00	92.46	180.09	6,200.68	-1,445.10	1,302.56	1,563.90	13.03	13.03	0.01	
6,891.00	90.81	180.66	6,198.14	-1,534.06	1,301.98	1,652.39	1.96	-1.85	0.64	
7,005.00	89.36	181.67	6,197.97	-1,648.03	1,299.66	1,765.61	1.55	-1.27	0.89	
7,095.00	90.36	180.33	6,198.19	-1,738.02	1,298.09	1,855.02	1.86	1.11	-1.49	
7,184.00	88.44	179.99	6,199.12	-1,827.01	1,297.84	1,943.57	2.19	-2.16	-0.38	
7,274.00	89.65	180.42	6,200.62	-1,916.99	1,297.52	2,033.11	1.43	1.34	0.48	
7,364.00	90.86	178.80	6,200.22	-2,006.98	1,298.13	2,122.74	2.25	1.34	-1.80	
7,453.00	88.73	179.51	6,200.54	-2,095.97	1,299.45	2,211.44	2.52	-2.39	0.80	
7,543.00	89.82	179.92	6,201.68	-2,185.96	1,299.89	2,301.05	1.29	1.21	0.46	
7,633.00	88.67	183.07	6,202.87	-2,275.91	1,297.55	2,390.36	3.73	-1.28	3.50	
7,722.00	89.53	182.42	6,204.26	-2,364.79	1,293.29	2,478.42	1.21	0.97	-0.73	
7,812.00	89.33	181.53	6,205.16	-2,454.73	1,290.18	2,567.64	1.01	-0.22	-0.99	
7,902.00	90.65	180.57	6,205.17	-2,544.72	1,288.54	2,657.05	1.81	1.47	-1.07	
7,991.00	89.59	180.86	6,204.99	-2,633.71	1,287.42	2,745.52	1.23	-1.19	0.33	
8,081.00	88.39	182.03	6,206.57	-2,723.66	1,285.16	2,834.83	1.86	-1.33	1.30	
8,171.00	89.72	181.78	6,208.06	-2,813.60	1,282.16	2,924.06	1.50	1.48	-0.28	
8,260.00	90.27	182.70	6,208.07	-2,902.53	1,278.69	3,012.24	1.20	0.62	1.03	
8,350.00	89.43	182.89	6,208.30	-2,992.42	1,274.30	3,101.29	0.96	-0.93	0.21	

Survey Report

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Site:	Eider Pad	MD Reference:	KB=20' @ 4947.00usft (PD 460)
Well:	Eider 36-1-6HN	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM Prod

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,439.00	87.79	183.02	6,210.46	-3,081.27	1,269.71	3,189.29	1.85	-1.84	0.15
8,529.00	88.13	182.89	6,213.66	-3,171.10	1,265.07	3,278.25	0.40	0.38	-0.14
8,619.00	89.30	182.01	6,215.68	-3,260.99	1,261.23	3,367.35	1.63	1.30	-0.98
8,708.00	91.31	181.89	6,215.21	-3,349.93	1,258.20	3,455.59	2.26	2.26	-0.13
8,798.00	90.02	182.10	6,214.16	-3,439.87	1,255.07	3,544.81	1.45	-1.43	0.23
8,887.00	89.82	182.38	6,214.29	-3,528.80	1,251.59	3,632.99	0.39	-0.22	0.31
8,977.00	88.59	183.91	6,215.54	-3,618.65	1,246.65	3,721.95	2.18	-1.37	1.70
9,067.00	89.18	183.32	6,217.29	-3,708.46	1,240.98	3,810.78	0.93	0.66	-0.66
9,156.00	91.29	183.10	6,216.92	-3,797.31	1,235.99	3,898.75	2.38	2.37	-0.25
9,246.00	89.53	182.73	6,216.28	-3,887.19	1,231.42	3,987.76	2.00	-1.96	-0.41
9,336.00	89.78	182.20	6,216.82	-3,977.10	1,227.55	4,076.89	0.65	0.28	-0.59
9,426.00	91.81	182.78	6,215.57	-4,067.00	1,223.64	4,165.99	2.35	2.26	0.64
9,515.00	89.70	182.63	6,214.40	-4,155.89	1,219.44	4,254.06	2.38	-2.37	-0.17
9,605.00	90.28	182.19	6,214.42	-4,245.81	1,215.65	4,343.20	0.81	0.64	-0.49
9,694.00	88.46	181.02	6,215.39	-4,334.77	1,213.16	4,431.50	2.43	-2.04	-1.31
9,784.00	88.97	180.80	6,217.41	-4,424.73	1,211.73	4,520.91	0.62	0.57	-0.24
9,873.00	89.08	181.65	6,218.93	-4,513.70	1,209.83	4,609.28	0.96	0.12	0.96
9,963.00	89.75	181.81	6,219.85	-4,603.65	1,207.11	4,698.55	0.77	0.74	0.18
10,053.00	90.77	181.46	6,219.44	-4,693.61	1,204.55	4,787.85	1.20	1.13	-0.39
10,143.00	90.88	182.24	6,218.14	-4,783.56	1,201.64	4,877.09	0.88	0.12	0.87
10,232.00	91.84	181.65	6,216.03	-4,872.48	1,198.62	4,965.31	1.27	1.08	-0.66
10,321.00	90.19	181.63	6,214.45	-4,961.42	1,196.07	5,053.59	1.85	-1.85	-0.02
10,411.00	91.79	181.11	6,212.90	-5,051.38	1,193.92	5,142.93	1.87	1.78	-0.58
10,501.00	88.91	181.48	6,212.35	-5,141.35	1,191.89	5,232.28	3.23	-3.20	0.41
10,591.00	89.12	181.22	6,213.90	-5,231.31	1,189.77	5,321.62	0.37	0.23	-0.29
10,681.00	91.05	181.80	6,213.76	-5,321.27	1,187.40	5,410.93	2.24	2.14	0.64
10,770.00	90.08	181.14	6,212.88	-5,410.24	1,185.11	5,499.26	1.32	-1.09	-0.74
10,859.00	87.94	181.56	6,214.42	-5,499.19	1,183.02	5,587.60	2.45	-2.40	0.47
10,949.00	87.87	181.01	6,217.71	-5,589.11	1,181.00	5,676.91	0.62	-0.08	-0.61
11,039.00	89.19	180.98	6,220.02	-5,679.07	1,179.44	5,766.29	1.47	1.47	-0.03
11,128.00	90.45	181.47	6,220.30	-5,768.04	1,177.54	5,854.67	1.52	1.42	0.55
11,218.00	88.33	182.86	6,221.26	-5,857.97	1,174.14	5,943.85	2.82	-2.36	1.54
11,307.00	88.54	182.70	6,223.69	-5,946.83	1,169.82	6,031.88	0.30	0.24	-0.18
11,397.00	89.35	181.60	6,225.35	-6,036.75	1,166.45	6,121.06	1.52	0.90	-1.22
11,487.00	90.71	181.23	6,225.30	-6,126.72	1,164.22	6,210.40	1.57	1.51	-0.41
11,576.00	88.88	181.15	6,225.62	-6,215.69	1,162.38	6,298.78	2.06	-2.06	-0.09
11,666.00	89.80	181.02	6,226.65	-6,305.67	1,160.67	6,388.17	1.03	1.02	-0.14
11,755.00	91.57	180.32	6,225.59	-6,394.65	1,159.63	6,476.64	2.14	1.99	-0.79
11,845.00	89.76	181.70	6,224.55	-6,484.63	1,158.04	6,566.05	2.53	-2.01	1.53
11,935.00	90.26	181.59	6,224.53	-6,574.59	1,155.46	6,655.34	0.57	0.56	-0.12
12,024.00	88.22	181.82	6,225.71	-6,663.54	1,152.81	6,743.62	2.31	-2.29	0.26
12,114.00	88.86	180.59	6,228.00	-6,753.49	1,150.92	6,832.97	1.54	0.71	-1.37
12,204.00	88.58	182.29	6,230.01	-6,843.43	1,148.66	6,922.28	1.91	-0.31	1.89

Survey Report

Company:	Bison Oil & Gas IV, LLC	Local Co-ordinate Reference:	Well Eider 36-1-6HN
Project:	Weld Co., CO (NAD-83)	TVD Reference:	KB=20' @ 4947.00usft (PD 460)
Site:	Eider Pad	MD Reference:	KB=20' @ 4947.00usft (PD 460)
Well:	Eider 36-1-6HN	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM Prod

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,293.00	89.86	182.11	6,231.23	-6,932.36	1,145.24	7,010.46	1.45	1.44	-0.20	
12,383.00	91.85	182.53	6,229.88	-7,022.27	1,141.60	7,099.60	2.26	2.21	0.47	
12,473.00	89.51	181.15	6,228.82	-7,112.21	1,138.71	7,188.84	3.02	-2.60	-1.53	
12,562.00	89.61	180.58	6,229.50	-7,201.20	1,137.37	7,277.28	0.65	0.11	-0.64	
12,652.00	90.59	180.34	6,229.34	-7,291.19	1,136.65	7,366.79	1.12	1.09	-0.27	
12,742.00	88.95	180.23	6,229.70	-7,381.19	1,136.20	7,456.33	1.83	-1.82	-0.12	
12,831.00	89.64	180.24	6,230.80	-7,470.18	1,135.83	7,544.87	0.78	0.78	0.01	
12,921.00	91.17	178.29	6,230.16	-7,560.16	1,136.99	7,634.54	2.75	1.70	-2.17	
13,010.00	89.53	179.15	6,229.62	-7,649.13	1,138.98	7,723.29	2.08	-1.84	0.97	
13,100.00	90.32	179.62	6,229.74	-7,739.13	1,139.94	7,812.96	1.02	0.88	0.52	
13,190.00	91.64	178.79	6,228.20	-7,829.10	1,141.19	7,902.64	1.73	1.47	-0.92	
13,279.00	90.25	180.04	6,226.73	-7,918.08	1,142.10	7,991.29	2.10	-1.56	1.40	
13,369.00	91.33	179.82	6,225.49	-8,008.07	1,142.21	8,080.87	1.22	1.20	-0.24	
13,458.00	89.13	181.91	6,225.13	-8,097.05	1,140.86	8,169.31	3.41	-2.47	2.35	
13,548.00	89.63	181.24	6,226.10	-8,187.01	1,138.39	8,258.61	0.93	0.56	-0.74	
13,638.00	90.49	180.73	6,226.01	-8,277.00	1,136.84	8,348.03	1.11	0.96	-0.57	
13,727.00	88.38	179.42	6,226.89	-8,365.99	1,136.73	8,436.59	2.79	-2.37	-1.47	
13,817.00	89.45	179.23	6,228.59	-8,455.96	1,137.79	8,526.25	1.21	1.19	-0.21	
13,906.00	91.12	178.24	6,228.15	-8,544.93	1,139.75	8,615.00	2.18	1.88	-1.11	
13,996.00	89.88	180.39	6,227.36	-8,634.92	1,140.83	8,704.67	2.76	-1.38	2.39	
14,085.00	91.09	180.56	6,226.61	-8,723.91	1,140.09	8,793.17	1.37	1.36	0.19	
14,175.00	91.09	180.78	6,224.90	-8,813.89	1,139.04	8,882.63	0.24	0.00	0.24	
14,265.00	90.23	181.80	6,223.86	-8,903.86	1,137.01	8,971.99	1.48	-0.96	1.13	
14,354.00	91.11	181.19	6,222.82	-8,992.82	1,134.69	9,060.31	1.20	0.99	-0.69	
14,444.00	88.59	181.29	6,223.06	-9,082.79	1,132.74	9,149.68	2.80	-2.80	0.11	
14,533.00	89.23	180.48	6,224.75	-9,171.76	1,131.37	9,238.10	1.16	0.72	-0.91	
14,623.00	90.15	179.19	6,225.24	-9,261.76	1,131.63	9,327.70	1.76	1.02	-1.43	
14,713.00	89.69	182.64	6,225.36	-9,351.73	1,130.19	9,417.12	3.87	-0.51	3.83	
14,802.00	90.93	181.56	6,224.88	-9,440.67	1,126.93	9,505.33	1.85	1.39	-1.21	
14,892.00	88.72	182.16	6,225.16	-9,530.61	1,124.01	9,594.57	2.54	-2.46	0.67	
14,982.00	89.98	182.57	6,226.18	-9,620.53	1,120.29	9,683.71	1.47	1.40	0.46	
15,071.00	91.98	182.42	6,224.65	-9,709.43	1,116.42	9,771.82	2.25	2.25	-0.17	
15,161.00	90.78	180.57	6,222.49	-9,799.37	1,114.07	9,861.12	2.45	-1.33	-2.06	
15,251.00	88.61	179.82	6,222.97	-9,889.36	1,113.77	9,950.66	2.55	-2.41	-0.83	
15,340.00	89.30	179.68	6,224.59	-9,978.34	1,114.16	10,039.27	0.79	0.78	-0.16	
15,430.00	90.78	178.22	6,224.53	-10,068.32	1,115.81	10,128.99	2.31	1.64	-1.62	
15,520.00	89.18	180.33	6,224.56	-10,158.31	1,116.94	10,218.66	2.94	-1.78	2.34	
15,610.00	89.64	180.25	6,225.48	-10,248.30	1,116.49	10,308.20	0.52	0.51	-0.09	
15,699.00	90.80	179.26	6,225.14	-10,337.30	1,116.87	10,396.81	1.71	1.30	-1.11	
15,789.00	88.82	180.91	6,225.44	-10,427.29	1,116.74	10,486.37	2.86	-2.20	1.83	
15,879.00	89.39	180.37	6,226.85	-10,517.27	1,115.73	10,575.84	0.87	0.63	-0.60	
15,969.00	89.96	179.43	6,227.36	-10,607.27	1,115.89	10,665.43	1.22	0.63	-1.04	
16,058.00	88.28	180.52	6,228.72	-10,696.25	1,115.93	10,754.01	2.25	-1.89	1.22	

Survey Report

Company: Bison Oil & Gas IV, LLC	Local Co-ordinate Reference: Well Eider 36-1-6HN
Project: Weld Co., CO (NAD-83)	TVD Reference: KB=20' @ 4947.00usft (PD 460)
Site: Eider Pad	MD Reference: KB=20' @ 4947.00usft (PD 460)
Well: Eider 36-1-6HN	North Reference: True
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: OH	Database: EDM Prod

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
16,148.00	88.68	179.69	6,231.11	-10,786.22	1,115.76	10,843.54	1.02	0.44	-0.92	
16,237.00	89.44	179.74	6,232.57	-10,875.21	1,116.20	10,932.16	0.86	0.85	0.06	
16,327.00	90.19	180.29	6,232.86	-10,965.20	1,116.18	11,021.73	1.03	0.83	0.61	
16,417.00	87.36	180.15	6,234.79	-11,055.17	1,115.84	11,111.25	3.15	-3.14	-0.16	
16,506.00	87.31	180.14	6,238.92	-11,144.08	1,115.61	11,199.72	0.06	-0.06	-0.01	
16,596.00	90.83	179.17	6,240.39	-11,234.05	1,116.15	11,289.32	4.06	3.91	-1.08	
16,686.00	92.84	178.51	6,237.50	-11,323.98	1,117.97	11,379.01	2.35	2.23	-0.73	
16,719.00	93.40	178.03	6,235.71	-11,356.91	1,118.97	11,411.89	2.23	1.70	-1.45	
Last Survey										
16,779.00	93.40	178.03	6,232.15	-11,416.77	1,121.03	11,471.67	0.00	0.00	0.00	
PTB @ 16779'										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Eider 36-1-6HN PBHL	0.00	0.00	6,189.00	-11,417.60	1,105.51	1,464,057.72	3,406,826.00	40.598011	-104.034933	
- actual wellpath misses target center by 45.86usft at 16779.00usft MD (6232.15 TVD, -11416.77 N, 1121.03 E)										
- Point										
Eider 36-1-6HN PBHL	0.00	0.00	6,200.00	-11,417.60	1,105.51	1,464,057.72	3,406,826.00	40.598011	-104.034933	
- actual wellpath misses target center by 35.71usft at 16779.00usft MD (6232.15 TVD, -11416.77 N, 1121.03 E)										
- Point										
Eider 36-1-6HN LP P2	0.00	0.00	6,212.00	-1,442.61	1,303.54	1,474,034.61	3,406,859.64	40.625391	-104.034218	
- actual wellpath misses target center by 11.31usft at 6800.18usft MD (6200.75 TVD, -1443.29 N, 1302.57 E)										
- Point										
Eider 36-1-6HN T1	0.00	0.00	6,217.00	-4,585.16	1,241.15	1,470,891.47	3,406,849.04	40.616765	-104.034444	
- actual wellpath misses target center by 33.55usft at 9943.46usft MD (6219.74 TVD, -4584.12 N, 1207.72 E)										
- Point										
Eider 36-1-6HN LP	0.00	0.00	6,232.00	-1,442.61	1,303.54	1,474,034.61	3,406,859.64	40.625391	-104.034218	
- actual wellpath misses target center by 31.37usft at 6801.37usft MD (6200.71 TVD, -1444.47 N, 1302.56 E)										
- Point										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,693.00	1,657.44	-171.64	224.35	First AEP Survey	
16,719.00	6,235.71	-11,356.91	1,118.97	Last Survey	
16,779.00	6,232.15	-11,416.77	1,121.03	PTB @ 16779'	

Checked By: _____	Approved By: _____	Date: _____
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