

Project: WELD COUNTY, CO (NAD 83)  
 Site: 7N-67W-09 BLEHM PAD  
 Well: BLEHM 21E10NCM  
 Wellbore: Plan A  
 Design: Permit Rev-1

# PRAIRIE OPERATING CO

## CASING DETAILS

TVD	MD	Name	Size
1600.00	1662.73	9 5/8"	9-5/8
6998.00	19194.73	5 1/2" CSG	5-1/2

## WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	Northing	Easting	Latitude	Longitude
BLEHM 21E10NCM_SHL	0.00	1460076.89	3169075.43	40.594716	-104.891176
BLEHM 21E10NCM_LP/TPZ	6998.00	1458684.98	3164987.55	40.590972	-104.905929
BLEHM 21E10NCM_BPZ	6998.00	1458700.95	3174578.90	40.590834	-104.871394
BLEHM 21E10NCM_BHL	6998.00	1458701.47	3174888.91	40.590829	-104.870278

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
3	2496.00	45.92	256.40	2257.98	-205.01	-847.42	2.00	256.40	-846.33	
4	7802.09	45.92	256.40	5949.22	-1101.31	-4552.27	0.00	0.00	-4546.44	
5	9293.36	90.00	90.30	6998.00	-1363.81	-4097.34	9.00	-160.42	-4090.14	
6	19194.73	90.00	90.30	6998.00	-1415.30	5803.90	0.00	0.00	5811.23	BLEHM 21E10NCM_BHL

WELL DETAILS: BLEHM 21E10NCM

GL = 5088'

RKB = 20' @ 5108.00usft (RIG)

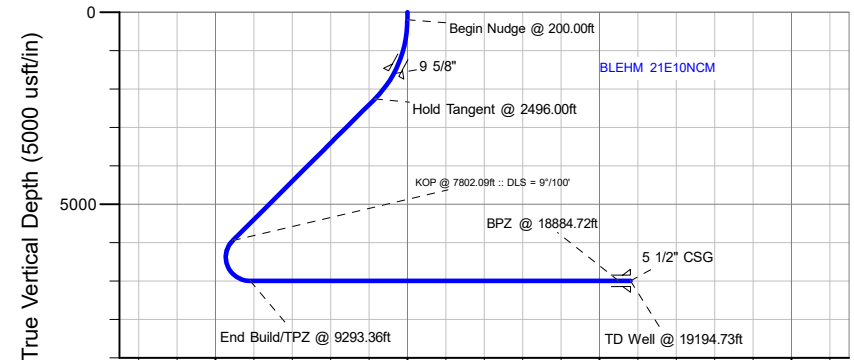
Plan: Permit Rev-1 (BLEHM 21E10NCM/Plan A)

Date: 2/15/2024



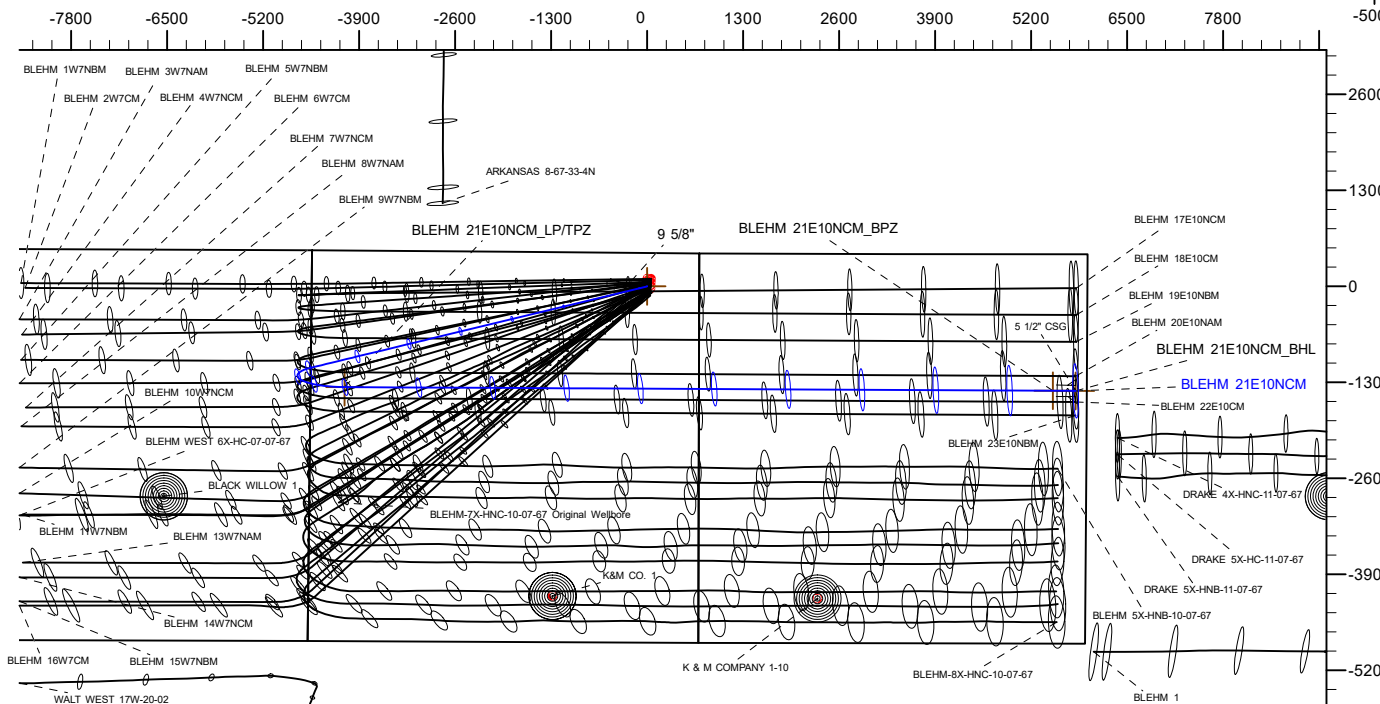
Azimuths to True North  
 Magnetic North: 7.66°

Magnetic Field  
 Strength: 51759.4nT  
 Dip Angle: 66.68°  
 Date: 2/12/2024  
 Model: IGRF2020



West(-)/East(+) (2600 usft/in)

Vertical Section at 90.30° (5000 usft/in)



**SHL**  
**452' FNL**  
**707' FEL**

**LP/TPZ**  
**1850' FNL**  
**460' FWL**

**BPZ**  
**1850' FNL**  
**460' FEL**

**BHL**  
**1850' FNL**  
**150' FEL**

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BLEHM 21E10NCM
<b>Company:</b>	PRAIRIE OPERATING CO	<b>TVD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Project:</b>	WELD COUNTY, CO (NAD 83)	<b>MD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Site:</b>	7N-67W-09 BLEHM PAD	<b>North Reference:</b>	True
<b>Well:</b>	BLEHM 21E10NCM	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-1		

<b>Project</b>	WELD COUNTY, CO (NAD 83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

<b>Site</b>	7N-67W-09 BLEHM PAD				
<b>Site Position:</b>		<b>Northing:</b>	1,460,179.29 usft	<b>Latitude:</b>	40.594996
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,169,130.55 usft	<b>Longitude:</b>	-104.890975
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "		

<b>Well</b>	BLEHM 21E10NCM					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,460,076.89 usft	<b>Latitude:</b>	40.594716
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	3,169,075.43 usft	<b>Longitude:</b>	-104.891176
<b>Position Uncertainty</b>		3.28 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	5,088.00 usft
<b>Grid Convergence:</b>		0.39 °				

<b>Wellbore</b>	Plan A				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF202013	2/12/2024	7.66	66.68	51,759.35219175

<b>Design</b>	Permit Rev-1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	90.30

<b>Plan Survey Tool Program</b>		<b>Date</b>	2/15/2024		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.00	1,600.00	Permit Rev-1 (Plan A)	ISCWSA MWD+IFR1 MWD+IFR	
2	1,600.00	19,194.73	Permit Rev-1 (Plan A)	ISCWSA MWD+IFR1 MWD+IFR	

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<b>Site:</b>	7N-67W-09 BLEHM PAD	<b>North Reference:</b>	True
<b>Well:</b>	BLEHM 21E10NCM	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-1		

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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,496.00	45.92	256.40	2,257.98	-205.01	-847.42	2.00	2.00	0.00	256.40	
7,802.09	45.92	256.40	5,949.22	-1,101.31	-4,552.27	0.00	0.00	0.00	0.00	
9,293.36	90.00	90.30	6,998.00	-1,363.81	-4,097.34	9.00	2.96	-11.14	-160.42	
19,194.73	90.00	90.30	6,998.00	-1,415.30	5,803.90	0.00	0.00	0.00	0.00	BLEHM 21E10NCM_I

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<b>Site:</b>	7N-67W-09 BLEHM PAD	<b>North Reference:</b>	True
<b>Well:</b>	BLEHM 21E10NCM	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-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 (°/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
100.00	0.00	0.00	100.00	0.00	0.00	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	0.00	0.00
<b>Begin Nudge @ 200.00ft</b>										
300.00	2.00	256.40	299.98	-0.41	-1.70	-1.69	2.00	2.00	2.00	0.00
400.00	4.00	256.40	399.84	-1.64	-6.78	-6.77	2.00	2.00	2.00	0.00
500.00	6.00	256.40	499.45	-3.69	-15.25	-15.23	2.00	2.00	2.00	0.00
600.00	8.00	256.40	598.70	-6.56	-27.10	-27.06	2.00	2.00	2.00	0.00
700.00	10.00	256.40	697.47	-10.23	-42.30	-42.25	2.00	2.00	2.00	0.00
800.00	12.00	256.40	795.62	-14.72	-60.85	-60.77	2.00	2.00	2.00	0.00
900.00	14.00	256.40	893.06	-20.01	-82.71	-82.60	2.00	2.00	2.00	0.00
1,000.00	16.00	256.40	989.64	-26.10	-107.87	-107.73	2.00	2.00	2.00	0.00
1,100.00	18.00	256.40	1,085.27	-32.97	-136.28	-136.11	2.00	2.00	2.00	0.00
1,200.00	20.00	256.40	1,179.82	-40.63	-167.92	-167.71	2.00	2.00	2.00	0.00
1,300.00	22.00	256.40	1,273.17	-49.05	-202.75	-202.49	2.00	2.00	2.00	0.00
1,400.00	24.00	256.40	1,365.21	-58.24	-240.73	-240.42	2.00	2.00	2.00	0.00
1,500.00	26.00	256.40	1,455.84	-68.18	-281.80	-281.44	2.00	2.00	2.00	0.00
1,600.00	28.00	256.40	1,544.94	-78.85	-325.93	-325.51	2.00	2.00	2.00	0.00
1,662.73	29.25	256.40	1,600.00	-85.92	-355.14	-354.69	2.00	2.00	2.00	0.00
<b>9 5/8"</b>										
1,700.00	30.00	256.40	1,632.39	-90.25	-373.05	-372.57	2.00	2.00	2.00	0.00
1,800.00	32.00	256.40	1,718.11	-102.36	-423.10	-422.56	2.00	2.00	2.00	0.00
1,900.00	34.00	256.40	1,801.97	-115.17	-476.04	-475.43	2.00	2.00	2.00	0.00
2,000.00	36.00	256.40	1,883.88	-128.65	-531.79	-531.10	2.00	2.00	2.00	0.00
2,100.00	38.00	256.40	1,963.74	-142.80	-590.28	-589.52	2.00	2.00	2.00	0.00
2,200.00	40.00	256.40	2,041.45	-157.60	-651.44	-650.61	2.00	2.00	2.00	0.00
2,300.00	42.00	256.40	2,116.92	-173.03	-715.20	-714.29	2.00	2.00	2.00	0.00
2,400.00	44.00	256.40	2,190.05	-189.06	-781.49	-780.49	2.00	2.00	2.00	0.00
2,496.00	45.92	256.40	2,257.98	-205.01	-847.42	-846.33	2.00	2.00	2.00	0.00
<b>Hold Tangent @ 2496.00ft</b>										
2,500.00	45.92	256.40	2,260.76	-205.69	-850.21	-849.12	0.00	0.00	0.00	0.00
2,600.00	45.92	256.40	2,330.33	-222.58	-920.03	-918.86	0.00	0.00	0.00	0.00
2,700.00	45.92	256.40	2,399.89	-239.47	-989.86	-988.59	0.00	0.00	0.00	0.00
2,800.00	45.92	256.40	2,469.46	-256.36	-1,059.68	-1,058.32	0.00	0.00	0.00	0.00
2,900.00	45.92	256.40	2,539.02	-273.26	-1,129.50	-1,128.06	0.00	0.00	0.00	0.00
3,000.00	45.92	256.40	2,608.59	-290.15	-1,199.32	-1,197.79	0.00	0.00	0.00	0.00
3,100.00	45.92	256.40	2,678.16	-307.04	-1,269.15	-1,267.52	0.00	0.00	0.00	0.00
3,200.00	45.92	256.40	2,747.72	-323.93	-1,338.97	-1,337.25	0.00	0.00	0.00	0.00
3,300.00	45.92	256.40	2,817.29	-340.82	-1,408.79	-1,406.99	0.00	0.00	0.00	0.00
3,400.00	45.92	256.40	2,886.85	-357.71	-1,478.61	-1,476.72	0.00	0.00	0.00	0.00
3,500.00	45.92	256.40	2,956.42	-374.61	-1,548.44	-1,546.45	0.00	0.00	0.00	0.00
3,600.00	45.92	256.40	3,025.99	-391.50	-1,618.26	-1,616.19	0.00	0.00	0.00	0.00
3,700.00	45.92	256.40	3,095.55	-408.39	-1,688.08	-1,685.92	0.00	0.00	0.00	0.00
3,800.00	45.92	256.40	3,165.12	-425.28	-1,757.91	-1,755.65	0.00	0.00	0.00	0.00
3,900.00	45.92	256.40	3,234.69	-442.17	-1,827.73	-1,825.39	0.00	0.00	0.00	0.00
4,000.00	45.92	256.40	3,304.25	-459.07	-1,897.55	-1,895.12	0.00	0.00	0.00	0.00
4,100.00	45.92	256.40	3,373.82	-475.96	-1,967.37	-1,964.85	0.00	0.00	0.00	0.00
4,200.00	45.92	256.40	3,443.38	-492.85	-2,037.20	-2,034.59	0.00	0.00	0.00	0.00
4,300.00	45.92	256.40	3,512.95	-509.74	-2,107.02	-2,104.32	0.00	0.00	0.00	0.00
4,400.00	45.92	256.40	3,582.52	-526.63	-2,176.84	-2,174.05	0.00	0.00	0.00	0.00
4,500.00	45.92	256.40	3,652.08	-543.53	-2,246.66	-2,243.79	0.00	0.00	0.00	0.00
4,600.00	45.92	256.40	3,721.65	-560.42	-2,316.49	-2,313.52	0.00	0.00	0.00	0.00
4,700.00	45.92	256.40	3,791.22	-577.31	-2,386.31	-2,383.25	0.00	0.00	0.00	0.00

## Planning Report

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<b>Well:</b>	BLEHM 21E10NCM	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-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 (°/100usft)	Turn Rate (°/100usft)
4,800.00	45.92	256.40	3,860.78	-594.20	-2,456.13	-2,452.99	0.00	0.00	0.00
4,900.00	45.92	256.40	3,930.35	-611.09	-2,525.96	-2,522.72	0.00	0.00	0.00
5,000.00	45.92	256.40	3,999.91	-627.98	-2,595.78	-2,592.45	0.00	0.00	0.00
5,100.00	45.92	256.40	4,069.48	-644.88	-2,665.60	-2,662.19	0.00	0.00	0.00
5,200.00	45.92	256.40	4,139.05	-661.77	-2,735.42	-2,731.92	0.00	0.00	0.00
5,300.00	45.92	256.40	4,208.61	-678.66	-2,805.25	-2,801.65	0.00	0.00	0.00
5,400.00	45.92	256.40	4,278.18	-695.55	-2,875.07	-2,871.39	0.00	0.00	0.00
5,500.00	45.92	256.40	4,347.75	-712.44	-2,944.89	-2,941.12	0.00	0.00	0.00
5,600.00	45.92	256.40	4,417.31	-729.34	-3,014.71	-3,010.85	0.00	0.00	0.00
5,700.00	45.92	256.40	4,486.88	-746.23	-3,084.54	-3,080.59	0.00	0.00	0.00
5,800.00	45.92	256.40	4,556.44	-763.12	-3,154.36	-3,150.32	0.00	0.00	0.00
5,900.00	45.92	256.40	4,626.01	-780.01	-3,224.18	-3,220.05	0.00	0.00	0.00
6,000.00	45.92	256.40	4,695.58	-796.90	-3,294.00	-3,289.79	0.00	0.00	0.00
6,100.00	45.92	256.40	4,765.14	-813.80	-3,363.83	-3,359.52	0.00	0.00	0.00
6,200.00	45.92	256.40	4,834.71	-830.69	-3,433.65	-3,429.25	0.00	0.00	0.00
6,300.00	45.92	256.40	4,904.27	-847.58	-3,503.47	-3,498.99	0.00	0.00	0.00
6,400.00	45.92	256.40	4,973.84	-864.47	-3,573.30	-3,568.72	0.00	0.00	0.00
6,500.00	45.92	256.40	5,043.41	-881.36	-3,643.12	-3,638.45	0.00	0.00	0.00
6,600.00	45.92	256.40	5,112.97	-898.25	-3,712.94	-3,708.19	0.00	0.00	0.00
6,700.00	45.92	256.40	5,182.54	-915.15	-3,782.76	-3,777.92	0.00	0.00	0.00
6,800.00	45.92	256.40	5,252.11	-932.04	-3,852.59	-3,847.65	0.00	0.00	0.00
6,900.00	45.92	256.40	5,321.67	-948.93	-3,922.41	-3,917.39	0.00	0.00	0.00
7,000.00	45.92	256.40	5,391.24	-965.82	-3,992.23	-3,987.12	0.00	0.00	0.00
7,100.00	45.92	256.40	5,460.80	-982.71	-4,062.05	-4,056.85	0.00	0.00	0.00
7,200.00	45.92	256.40	5,530.37	-999.61	-4,131.88	-4,126.59	0.00	0.00	0.00
7,300.00	45.92	256.40	5,599.94	-1,016.50	-4,201.70	-4,196.32	0.00	0.00	0.00
7,400.00	45.92	256.40	5,669.50	-1,033.39	-4,271.52	-4,266.05	0.00	0.00	0.00
7,500.00	45.92	256.40	5,739.07	-1,050.28	-4,341.34	-4,335.79	0.00	0.00	0.00
7,600.00	45.92	256.40	5,808.64	-1,067.17	-4,411.17	-4,405.52	0.00	0.00	0.00
7,700.00	45.92	256.40	5,878.20	-1,084.07	-4,480.99	-4,475.25	0.00	0.00	0.00
7,802.09	45.92	256.40	5,949.22	-1,101.31	-4,552.27	-4,546.44	0.00	0.00	0.00
<b>KOP @ 7802.09ft :: DLS = 9°/100'</b>									
7,850.00	41.88	254.24	5,983.74	-1,109.71	-4,584.40	-4,578.53	9.00	-8.44	-4.52
7,900.00	37.71	251.59	6,022.15	-1,119.07	-4,614.99	-4,609.06	9.00	-8.34	-5.30
7,950.00	33.61	248.39	6,062.77	-1,129.01	-4,642.38	-4,636.40	9.00	-8.19	-6.40
8,000.00	29.62	244.43	6,105.35	-1,139.44	-4,666.40	-4,660.37	9.00	-7.99	-7.92
8,050.00	25.77	239.38	6,149.62	-1,150.32	-4,686.91	-4,680.82	9.00	-7.69	-10.09
8,100.00	22.16	232.77	6,195.31	-1,161.56	-4,703.78	-4,697.63	9.00	-7.23	-13.23
8,150.00	18.90	223.87	6,242.14	-1,173.11	-4,716.90	-4,710.70	9.00	-6.51	-17.79
8,200.00	16.22	211.83	6,289.82	-1,184.89	-4,726.20	-4,719.94	9.00	-5.35	-24.09
8,250.00	14.46	196.12	6,338.06	-1,196.82	-4,731.62	-4,725.29	9.00	-3.54	-31.42
8,300.00	13.94	177.82	6,386.55	-1,208.84	-4,733.13	-4,726.73	9.00	-1.03	-36.60
8,350.00	14.82	159.96	6,435.01	-1,220.88	-4,730.71	-4,724.25	9.00	1.75	-35.70
8,400.00	16.86	145.21	6,483.13	-1,232.84	-4,724.37	-4,717.86	9.00	4.09	-29.50
8,450.00	19.72	134.09	6,530.61	-1,244.68	-4,714.17	-4,707.59	9.00	5.71	-22.25
8,500.00	23.09	125.88	6,577.17	-1,256.30	-4,700.16	-4,693.52	9.00	6.74	-16.41
8,550.00	26.77	119.74	6,622.51	-1,267.63	-4,682.43	-4,675.73	9.00	7.37	-12.28
8,600.00	30.67	115.03	6,666.36	-1,278.62	-4,661.09	-4,654.33	9.00	7.78	-9.43
8,650.00	34.69	111.29	6,708.44	-1,289.19	-4,636.26	-4,629.45	9.00	8.05	-7.46
8,700.00	38.81	108.26	6,748.49	-1,299.27	-4,608.11	-4,601.25	9.00	8.24	-6.07
8,750.00	42.99	105.73	6,786.28	-1,308.80	-4,576.81	-4,569.89	9.00	8.37	-5.07
8,800.00	47.23	103.56	6,821.56	-1,317.73	-4,542.54	-4,535.58	9.00	8.46	-4.33
8,850.00	51.49	101.68	6,854.12	-1,326.00	-4,505.52	-4,498.52	9.00	8.53	-3.77
8,900.00	55.79	100.01	6,883.76	-1,333.56	-4,465.99	-4,458.94	9.00	8.59	-3.35

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BLEHM 21E10NCM
<b>Company:</b>	PRAIRIE OPERATING CO	<b>TVD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Project:</b>	WELD COUNTY, CO (NAD 83)	<b>MD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Site:</b>	7N-67W-09 BLEHM PAD	<b>North Reference:</b>	True
<b>Well:</b>	BLEHM 21E10NCM	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-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 (°/100usft)	Turn Rate (°/100usft)
8,950.00	60.10	98.50	6,910.29	-1,340.36	-4,424.17	-4,417.09	9.00	8.63	-3.02
9,000.00	64.43	97.11	6,933.55	-1,346.35	-4,380.34	-4,373.23	9.00	8.66	-2.77
9,050.00	68.77	95.83	6,953.40	-1,351.52	-4,334.75	-4,327.61	9.00	8.68	-2.57
9,100.00	73.13	94.61	6,969.72	-1,355.81	-4,287.70	-4,280.54	9.00	8.70	-2.43
9,150.00	77.48	93.45	6,982.40	-1,359.20	-4,239.46	-4,232.29	9.00	8.72	-2.32
9,200.00	81.85	92.33	6,991.37	-1,361.68	-4,190.35	-4,183.16	9.00	8.73	-2.24
9,250.00	86.21	91.24	6,996.57	-1,363.23	-4,140.66	-4,133.46	9.00	8.73	-2.19
9,293.36	90.00	90.30	6,998.00	-1,363.81	-4,097.34	-4,090.14	9.00	8.73	-2.17
<b>End Build/TPZ @ 9293.36ft</b>									
9,300.00	90.00	90.30	6,998.00	-1,363.85	-4,090.69	-4,083.50	0.00	0.00	0.00
9,400.00	90.00	90.30	6,998.00	-1,364.37	-3,990.70	-3,983.50	0.00	0.00	0.00
9,500.00	90.00	90.30	6,998.00	-1,364.89	-3,890.70	-3,883.50	0.00	0.00	0.00
9,600.00	90.00	90.30	6,998.00	-1,365.41	-3,790.70	-3,783.50	0.00	0.00	0.00
9,700.00	90.00	90.30	6,998.00	-1,365.93	-3,690.70	-3,683.50	0.00	0.00	0.00
9,800.00	90.00	90.30	6,998.00	-1,366.45	-3,590.70	-3,583.50	0.00	0.00	0.00
9,900.00	90.00	90.30	6,998.00	-1,366.97	-3,490.70	-3,483.50	0.00	0.00	0.00
10,000.00	90.00	90.30	6,998.00	-1,367.49	-3,390.70	-3,383.50	0.00	0.00	0.00
10,100.00	90.00	90.30	6,998.00	-1,368.01	-3,290.71	-3,283.50	0.00	0.00	0.00
10,200.00	90.00	90.30	6,998.00	-1,368.53	-3,190.71	-3,183.50	0.00	0.00	0.00
10,300.00	90.00	90.30	6,998.00	-1,369.05	-3,090.71	-3,083.50	0.00	0.00	0.00
10,400.00	90.00	90.30	6,998.00	-1,369.57	-2,990.71	-2,983.50	0.00	0.00	0.00
10,500.00	90.00	90.30	6,998.00	-1,370.09	-2,890.71	-2,883.50	0.00	0.00	0.00
10,600.00	90.00	90.30	6,998.00	-1,370.61	-2,790.71	-2,783.50	0.00	0.00	0.00
10,700.00	90.00	90.30	6,998.00	-1,371.13	-2,690.71	-2,683.50	0.00	0.00	0.00
10,800.00	90.00	90.30	6,998.00	-1,371.65	-2,590.72	-2,583.50	0.00	0.00	0.00
10,900.00	90.00	90.30	6,998.00	-1,372.17	-2,490.72	-2,483.50	0.00	0.00	0.00
11,000.00	90.00	90.30	6,998.00	-1,372.69	-2,390.72	-2,383.50	0.00	0.00	0.00
11,100.00	90.00	90.30	6,998.00	-1,373.21	-2,290.72	-2,283.50	0.00	0.00	0.00
11,200.00	90.00	90.30	6,998.00	-1,373.73	-2,190.72	-2,183.50	0.00	0.00	0.00
11,300.00	90.00	90.30	6,998.00	-1,374.25	-2,090.72	-2,083.50	0.00	0.00	0.00
11,400.00	90.00	90.30	6,998.00	-1,374.77	-1,990.72	-1,983.50	0.00	0.00	0.00
11,500.00	90.00	90.30	6,998.00	-1,375.29	-1,890.72	-1,883.50	0.00	0.00	0.00
11,600.00	90.00	90.30	6,998.00	-1,375.81	-1,790.73	-1,783.50	0.00	0.00	0.00
11,700.00	90.00	90.30	6,998.00	-1,376.33	-1,690.73	-1,683.50	0.00	0.00	0.00
11,800.00	90.00	90.30	6,998.00	-1,376.85	-1,590.73	-1,583.50	0.00	0.00	0.00
11,900.00	90.00	90.30	6,998.00	-1,377.37	-1,490.73	-1,483.50	0.00	0.00	0.00
12,000.00	90.00	90.30	6,998.00	-1,377.89	-1,390.73	-1,383.50	0.00	0.00	0.00
12,100.00	90.00	90.30	6,998.00	-1,378.41	-1,290.73	-1,283.50	0.00	0.00	0.00
12,200.00	90.00	90.30	6,998.00	-1,378.93	-1,190.73	-1,183.50	0.00	0.00	0.00
12,300.00	90.00	90.30	6,998.00	-1,379.45	-1,090.74	-1,083.50	0.00	0.00	0.00
12,400.00	90.00	90.30	6,998.00	-1,379.97	-990.74	-983.50	0.00	0.00	0.00
12,500.00	90.00	90.30	6,998.00	-1,380.49	-890.74	-883.50	0.00	0.00	0.00
12,600.00	90.00	90.30	6,998.00	-1,381.01	-790.74	-783.50	0.00	0.00	0.00
12,700.00	90.00	90.30	6,998.00	-1,381.53	-690.74	-683.50	0.00	0.00	0.00
12,800.00	90.00	90.30	6,998.00	-1,382.05	-590.74	-583.50	0.00	0.00	0.00
12,900.00	90.00	90.30	6,998.00	-1,382.57	-490.74	-483.50	0.00	0.00	0.00
13,000.00	90.00	90.30	6,998.00	-1,383.09	-390.74	-383.50	0.00	0.00	0.00
13,100.00	90.00	90.30	6,998.00	-1,383.61	-290.75	-283.50	0.00	0.00	0.00
13,200.00	90.00	90.30	6,998.00	-1,384.13	-190.75	-183.50	0.00	0.00	0.00
13,300.00	90.00	90.30	6,998.00	-1,384.65	-90.75	-83.50	0.00	0.00	0.00
13,400.00	90.00	90.30	6,998.00	-1,385.17	9.25	16.50	0.00	0.00	0.00
13,500.00	90.00	90.30	6,998.00	-1,385.69	109.25	116.50	0.00	0.00	0.00
13,600.00	90.00	90.30	6,998.00	-1,386.21	209.25	216.50	0.00	0.00	0.00

Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BLEHM 21E10NCM
<b>Company:</b>	PRAIRIE OPERATING CO	<b>TVD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Project:</b>	WELD COUNTY, CO (NAD 83)	<b>MD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Site:</b>	7N-67W-09 BLEHM PAD	<b>North Reference:</b>	True
<b>Well:</b>	BLEHM 21E10NCM	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-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 (°/100usft)	Turn Rate (°/100usft)	
13,700.00	90.00	90.30	6,998.00	-1,386.73	309.25	316.50	0.00	0.00	0.00	
13,800.00	90.00	90.30	6,998.00	-1,387.25	409.24	416.50	0.00	0.00	0.00	
13,900.00	90.00	90.30	6,998.00	-1,387.77	509.24	516.50	0.00	0.00	0.00	
14,000.00	90.00	90.30	6,998.00	-1,388.29	609.24	616.50	0.00	0.00	0.00	
14,100.00	90.00	90.30	6,998.00	-1,388.81	709.24	716.50	0.00	0.00	0.00	
14,200.00	90.00	90.30	6,998.00	-1,389.33	809.24	816.50	0.00	0.00	0.00	
14,300.00	90.00	90.30	6,998.00	-1,389.85	909.24	916.50	0.00	0.00	0.00	
14,400.00	90.00	90.30	6,998.00	-1,390.37	1,009.24	1,016.50	0.00	0.00	0.00	
14,500.00	90.00	90.30	6,998.00	-1,390.89	1,109.23	1,116.50	0.00	0.00	0.00	
14,600.00	90.00	90.30	6,998.00	-1,391.41	1,209.23	1,216.50	0.00	0.00	0.00	
14,700.00	90.00	90.30	6,998.00	-1,391.93	1,309.23	1,316.50	0.00	0.00	0.00	
14,800.00	90.00	90.30	6,998.00	-1,392.45	1,409.23	1,416.50	0.00	0.00	0.00	
14,900.00	90.00	90.30	6,998.00	-1,392.97	1,509.23	1,516.50	0.00	0.00	0.00	
15,000.00	90.00	90.30	6,998.00	-1,393.49	1,609.23	1,616.50	0.00	0.00	0.00	
15,100.00	90.00	90.30	6,998.00	-1,394.01	1,709.23	1,716.50	0.00	0.00	0.00	
15,200.00	90.00	90.30	6,998.00	-1,394.53	1,809.23	1,816.50	0.00	0.00	0.00	
15,300.00	90.00	90.30	6,998.00	-1,395.05	1,909.22	1,916.50	0.00	0.00	0.00	
15,400.00	90.00	90.30	6,998.00	-1,395.57	2,009.22	2,016.50	0.00	0.00	0.00	
15,500.00	90.00	90.30	6,998.00	-1,396.09	2,109.22	2,116.50	0.00	0.00	0.00	
15,600.00	90.00	90.30	6,998.00	-1,396.61	2,209.22	2,216.50	0.00	0.00	0.00	
15,700.00	90.00	90.30	6,998.00	-1,397.13	2,309.22	2,316.50	0.00	0.00	0.00	
15,800.00	90.00	90.30	6,998.00	-1,397.65	2,409.22	2,416.50	0.00	0.00	0.00	
15,900.00	90.00	90.30	6,998.00	-1,398.17	2,509.22	2,516.50	0.00	0.00	0.00	
16,000.00	90.00	90.30	6,998.00	-1,398.69	2,609.21	2,616.50	0.00	0.00	0.00	
16,100.00	90.00	90.30	6,998.00	-1,399.21	2,709.21	2,716.50	0.00	0.00	0.00	
16,200.00	90.00	90.30	6,998.00	-1,399.73	2,809.21	2,816.50	0.00	0.00	0.00	
16,300.00	90.00	90.30	6,998.00	-1,400.25	2,909.21	2,916.50	0.00	0.00	0.00	
16,400.00	90.00	90.30	6,998.00	-1,400.77	3,009.21	3,016.50	0.00	0.00	0.00	
16,500.00	90.00	90.30	6,998.00	-1,401.29	3,109.21	3,116.50	0.00	0.00	0.00	
16,600.00	90.00	90.30	6,998.00	-1,401.81	3,209.21	3,216.50	0.00	0.00	0.00	
16,700.00	90.00	90.30	6,998.00	-1,402.33	3,309.21	3,316.50	0.00	0.00	0.00	
16,800.00	90.00	90.30	6,998.00	-1,402.85	3,409.20	3,416.50	0.00	0.00	0.00	
16,900.00	90.00	90.30	6,998.00	-1,403.37	3,509.20	3,516.50	0.00	0.00	0.00	
17,000.00	90.00	90.30	6,998.00	-1,403.89	3,609.20	3,616.50	0.00	0.00	0.00	
17,100.00	90.00	90.30	6,998.00	-1,404.41	3,709.20	3,716.50	0.00	0.00	0.00	
17,200.00	90.00	90.30	6,998.00	-1,404.93	3,809.20	3,816.50	0.00	0.00	0.00	
17,300.00	90.00	90.30	6,998.00	-1,405.45	3,909.20	3,916.50	0.00	0.00	0.00	
17,400.00	90.00	90.30	6,998.00	-1,405.97	4,009.20	4,016.50	0.00	0.00	0.00	
17,500.00	90.00	90.30	6,998.00	-1,406.49	4,109.19	4,116.50	0.00	0.00	0.00	
17,600.00	90.00	90.30	6,998.00	-1,407.01	4,209.19	4,216.50	0.00	0.00	0.00	
17,700.00	90.00	90.30	6,998.00	-1,407.53	4,309.19	4,316.50	0.00	0.00	0.00	
17,800.00	90.00	90.30	6,998.00	-1,408.05	4,409.19	4,416.50	0.00	0.00	0.00	
17,900.00	90.00	90.30	6,998.00	-1,408.57	4,509.19	4,516.50	0.00	0.00	0.00	
18,000.00	90.00	90.30	6,998.00	-1,409.09	4,609.19	4,616.50	0.00	0.00	0.00	
18,100.00	90.00	90.30	6,998.00	-1,409.61	4,709.19	4,716.50	0.00	0.00	0.00	
18,200.00	90.00	90.30	6,998.00	-1,410.13	4,809.18	4,816.50	0.00	0.00	0.00	
18,300.00	90.00	90.30	6,998.00	-1,410.65	4,909.18	4,916.50	0.00	0.00	0.00	
18,400.00	90.00	90.30	6,998.00	-1,411.17	5,009.18	5,016.50	0.00	0.00	0.00	
18,500.00	90.00	90.30	6,998.00	-1,411.69	5,109.18	5,116.50	0.00	0.00	0.00	
18,600.00	90.00	90.30	6,998.00	-1,412.21	5,209.18	5,216.50	0.00	0.00	0.00	
18,700.00	90.00	90.30	6,998.00	-1,412.73	5,309.18	5,316.50	0.00	0.00	0.00	
18,800.00	90.00	90.30	6,998.00	-1,413.25	5,409.18	5,416.50	0.00	0.00	0.00	
18,884.72	90.00	90.30	6,998.00	-1,413.69	5,493.90	5,501.22	0.00	0.00	0.00	

BPZ @ 18884.72ft

## Planning Report

<b>Database:</b>	EDM 5000.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BLEHM 21E10NCM
<b>Company:</b>	PRAIRIE OPERATING CO	<b>TVD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Project:</b>	WELD COUNTY, CO (NAD 83)	<b>MD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Site:</b>	7N-67W-09 BLEHM PAD	<b>North Reference:</b>	True
<b>Well:</b>	BLEHM 21E10NCM	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-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 (°/100usft)	Turn Rate (°/100usft)	
18,900.00	90.00	90.30	6,998.00	-1,413.77	5,509.18	5,516.50	0.00	0.00	0.00	
19,000.00	90.00	90.30	6,998.00	-1,414.29	5,609.17	5,616.50	0.00	0.00	0.00	
19,100.00	90.00	90.30	6,998.00	-1,414.81	5,709.17	5,716.50	0.00	0.00	0.00	
19,194.73	90.00	90.30	6,998.00	-1,415.30	5,803.90	5,811.23	0.00	0.00	0.00	
<b>TD Well @ 19194.73ft</b>										

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
1,662.73	1,600.00	9 5/8"	9-5/8	13-1/2		
19,194.73	6,998.00	5 1/2" CSG	5-1/2	8-1/2		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
200.00	200.00	0.00	0.00	Begin Nudge @ 200.00ft	
2,496.00	2,257.98	-205.01	-847.42	Hold Tangent @ 2496.00ft	
7,802.09	5,949.22	-1,101.31	-4,552.27	KOP @ 7802.09ft :: DLS = 9°/100'	
9,293.36	6,998.00	-1,363.81	-4,097.34	End Build/TPZ @ 9293.36ft	
18,884.72	6,998.00	-1,413.69	5,493.90	BPZ @ 18884.72ft	
19,194.73	6,998.00	-1,415.30	5,803.90	TD Well @ 19194.73ft	

# **PRAIRIE OPERATING CO**

**WELD COUNTY, CO (NAD 83)**

**7N-67W-09 BLEHM PAD**

**BLEHM 21E10NCM**

**Plan A**

**Permit Rev-1**

## **Anticollision Summary Report**

**15 February, 2024**

### Anticollision Summary Report

<b>Company:</b>	PRAIRIE OPERATING CO	<b>Local Co-ordinate Reference:</b>	Well BLEHM 21E10NCM
<b>Project:</b>	WELD COUNTY, CO (NAD 83)	<b>TVD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Reference Site:</b>	7N-67W-09 BLEHM PAD	<b>MD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	BLEHM 21E10NCM	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Plan A	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Permit Rev-1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Permit Rev-1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum centre distance of 2,000.00usft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.45 Sigma	<b>Casing Method:</b>	Added to Error Values

<b>Survey Tool Program</b>	<b>Date</b>	2/15/2024		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	1,600.00	Permit Rev-1 (Plan A)	ISCWSA MWD+IFR1	MWD+IFR
1,600.00	19,194.73	Permit Rev-1 (Plan A)	ISCWSA MWD+IFR1	MWD+IFR

Summary	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>7N-66W-18 OFFSETS Incomplete</b>						
BLEHM 1 - PDC PR Well - Actual Bayswater Surveys						Out of range
<b>7N-67W-08 OFFSETS</b>						
BLACK WILLOW 1 - AP CO P&A Well - No Surveys						Out of range
<b>7N-67W-09 BLEHM PAD</b>						
BLEHM 10W7NCM - Plan A - Permit Rev-1	200.00	200.00	58.17	50.60	7.686	CC, ES
BLEHM 10W7NCM - Plan A - Permit Rev-1	8,750.00	8,475.46	1,387.84	1,183.15	6.780	SF
BLEHM 11W7NBM - Plan A - Permit Rev-1	200.00	200.00	67.13	59.57	8.870	CC, ES
BLEHM 11W7NBM - Plan A - Permit Rev-1	8,650.00	8,305.23	1,586.00	1,384.88	7.886	SF
BLEHM 13W7NAM - Plan A - Permit Rev-1	1,135.38	1,156.90	100.94	91.05	10.206	CC, ES
BLEHM 13W7NAM - Plan A - Permit Rev-1	1,500.00	1,529.84	114.46	102.53	9.592	SF
BLEHM 14W7NCM - Plan A - Permit Rev-1	1,042.95	1,059.52	86.53	77.05	9.133	CC, ES
BLEHM 14W7NCM - Plan A - Permit Rev-1	1,300.00	1,321.60	93.20	82.57	8.765	SF
BLEHM 15W7NBM - Plan A - Permit Rev-1	200.00	200.00	74.80	67.23	9.883	CC
BLEHM 15W7NBM - Plan A - Permit Rev-1	900.00	911.17	75.64	66.71	8.465	ES
BLEHM 15W7NBM - Plan A - Permit Rev-1	1,100.00	1,114.77	79.37	69.72	8.225	SF
BLEHM 16W7CM - Plan A - Permit Rev-1	200.00	200.00	77.96	70.39	10.300	CC, ES, SF
BLEHM 17E10NCM - Plan A - Permit Rev-1	200.00	200.00	59.84	52.27	7.906	CC, ES
BLEHM 17E10NCM - Plan A - Permit Rev-1	19,194.73	19,048.05	1,390.21	651.50	1.882	Collision Risk Procedures R
BLEHM 18E10CM - Plan A - Permit Rev-1	200.00	200.00	44.88	37.31	5.930	CC, ES
BLEHM 18E10CM - Plan A - Permit Rev-1	19,194.73	19,178.58	1,032.60	296.76	1.403	Collision Avoidance Req., SF
BLEHM 19E10NBM - Plan A - Permit Rev-1	200.00	200.00	29.92	22.35	3.953	CC
BLEHM 19E10NBM - Plan A - Permit Rev-1	19,194.73	19,070.43	668.51	-66.80	0.909	No-Go Zone - Stop Drilling, E
BLEHM 1W7NBM - Plan A - Permit Rev-1	200.00	200.00	116.29	108.72	15.364	CC, ES
BLEHM 1W7NBM - Plan A - Permit Rev-1	8,650.00	8,384.31	1,323.75	1,117.50	6.418	SF
BLEHM 20E10NAM - Plan A - Permit Rev-1	200.00	200.00	14.96	7.40	1.977	Collision Risk Procedures R
BLEHM 20E10NAM - Plan A - Permit Rev-1	19,194.73	19,082.54	243.92	-376.48	0.393	No-Go Zone - Stop Drilling, E
BLEHM 22E10CM - Plan A - Permit Rev-1	707.13	705.20	57.96	49.48	6.836	CC
BLEHM 22E10CM - Plan A - Permit Rev-1	19,194.73	19,310.14	186.25	-424.15	0.305	No-Go Zone - Stop Drilling, E
BLEHM 23E10NBM - Plan A - Permit Rev-1	1,136.69	1,130.06	67.26	56.32	6.146	CC
BLEHM 23E10NBM - Plan A - Permit Rev-1	19,194.73	19,192.20	340.15	-379.18	0.473	No-Go Zone - Stop Drilling, E
BLEHM 2W7CM - Plan A - Permit Rev-1	200.00	200.00	102.98	95.41	13.606	CC, ES
BLEHM 2W7CM - Plan A - Permit Rev-1	8,850.00	8,421.20	1,296.09	1,089.82	6.283	SF
BLEHM 3W7NAM - Plan A - Permit Rev-1	200.00	200.00	90.20	82.63	11.917	CC, ES
BLEHM 3W7NAM - Plan A - Permit Rev-1	8,650.00	8,467.42	841.20	630.14	3.986	SF

## Anticollision Summary Report

<b>Company:</b>	PRAIRIE OPERATING CO	<b>Local Co-ordinate Reference:</b>	Well BLEHM 21E10NCM
<b>Project:</b>	WELD COUNTY, CO (NAD 83)	<b>TVD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Reference Site:</b>	7N-67W-09 BLEHM PAD	<b>MD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	BLEHM 21E10NCM	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Plan A	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Permit Rev-1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>7N-67W-09 BLEHM PAD</b>						
BLEHM 4W7NCM - Plan A - Permit Rev-1	200.00	200.00	77.93	70.36	10.296	CC, ES
BLEHM 4W7NCM - Plan A - Permit Rev-1	8,750.00	8,600.00	717.25	504.14	3.366	SF
BLEHM 5W7NBM - Plan A - Permit Rev-1	200.00	200.00	67.16	59.59	8.873	CC, ES
BLEHM 5W7NBM - Plan A - Permit Rev-1	8,700.00	8,618.17	320.23	106.93	1.501	Collision Risk Procedures R
BLEHM 6W7CM - Plan A - Permit Rev-1	200.00	200.00	58.27	50.70	7.698	CC
BLEHM 6W7CM - Plan A - Permit Rev-1	8,850.00	8,638.89	82.69	-127.65	0.393	No-Go Zone - Stop Drilling, E
BLEHM 7W7NCM - Plan A - Permit Rev-1	200.00	200.00	52.22	44.66	6.900	CC
BLEHM 7W7NCM - Plan A - Permit Rev-1	8,800.00	8,630.81	248.31	39.33	1.188	Collision Avoidance Req., ES
BLEHM 8W7NAM - Plan A - Permit Rev-1	200.00	200.00	50.07	42.50	6.616	CC, ES
BLEHM 8W7NAM - Plan A - Permit Rev-1	8,750.00	8,607.86	517.75	305.65	2.441	SF
BLEHM 9W7NBM - Plan A - Permit Rev-1	200.00	200.00	52.30	44.73	6.910	CC, ES
BLEHM 9W7NBM - Plan A - Permit Rev-1	8,700.00	8,532.37	1,065.50	856.80	5.105	SF
<b>7N-67W-09 OFFSETS</b>						
BLEHM 5X-HC-10-07-67 - PRAIRIE PR Well - Actual Nic	340.41	347.49	11.75	4.06	1.528	Collision Risk Procedures R
BLEHM 5X-HNB-10-07-67 - PRAIRIE PR Well - Actual N	464.15	470.89	38.32	30.47	4.883	CC, ES
BLEHM 5X-HNB-10-07-67 - PRAIRIE PR Well - Actual N	18,954.81	19,107.00	1,054.63	324.69	1.445	Collision Avoidance Req., SF
BLEHM 5X-HNC-10-07-67 - PRAIRIE PR Well - Actual N	468.84	475.09	27.07	19.19	3.437	CC, ES
BLEHM 5X-HNC-10-07-67 - PRAIRIE PR Well - Actual N	18,961.71	19,202.00	1,454.15	729.68	2.007	SF
BLEHM 6X-HNB-10-07-67 - PRAIRIE PR Well - Actual N	619.68	624.84	82.65	74.47	10.098	CC, ES
BLEHM 6X-HNB-10-07-67 - PRAIRIE PR Well - Actual N	19,000.00	19,293.00	1,872.85	1,146.28	2.578	SF
BLEHM 8X-HC-10-07-67 - PRAIRIE PR Well - Actual Nic	0.00	6.93	89.85			
BLEHM 8X-HC-10-07-67 - PRAIRIE PR Well - Actual Nic	6,900.00	6,507.31	1,984.20	1,801.71	10.873	SF
BLEHM 8X-HNB-10-07-67 - PRAIRIE PR Well - Actual N	0.00	6.96	130.54			
BLEHM 8X-HNB-10-07-67 - PRAIRIE PR Well - Actual N	7,200.00	6,877.68	1,976.47	1,779.46	10.032	SF
BLEHM WEST 6X-HC-07-07-67 - PRAIRIE PR Well - Ac	227.93	235.16	103.24	95.66	13.617	CC, ES
BLEHM WEST 6X-HC-07-07-67 - PRAIRIE PR Well - Ac	8,750.00	8,473.30	1,523.45	1,293.67	6.630	SF
BLEHM-7X-HC-10-07-67 - PRAIRIE PR Well - Actual Nic	0.00	6.97	105.10			
BLEHM-7X-HC-10-07-67 - PRAIRIE PR Well - Actual Nic	7,200.00	7,017.36	1,525.14	1,324.25	7.592	SF
BLEHM-7X-HNC-10-07-67 - PRAIRIE Original Wellbore -	333.20	338.71	118.06	110.39	15.383	CC, ES
BLEHM-7X-HNC-10-07-67 - PRAIRIE Original Wellbore -	8,100.00	7,942.00	1,880.85	1,650.91	8.180	SF
BLEHM-7X-HNC-10-07-67 - PRAIRIE PR Sidetrack - Act	333.20	338.71	118.06	110.39	15.383	CC, ES
BLEHM-7X-HNC-10-07-67 - PRAIRIE PR Sidetrack - Act	7,100.00	6,830.90	1,649.25	1,454.36	8.462	SF
BLEHM-8X-HNC-10-07-67 - PRAIRIE PR Well - Actual N	241.38	248.63	115.72	108.13	15.252	CC, ES
BLEHM-8X-HNC-10-07-67 - PRAIRIE PR Well - Actual N	6,300.00	5,913.08	1,926.88	1,764.09	11.836	SF
K&M CO. 1 - VESSELS P&A Well - No Surveys						Out of range
<b>7N-67W-10 OFFSETS</b>						
K & M COMPANY 1-10 - BOSWELL P&A Well - No Surv						Out of range
<b>7N-67W-11 OFFSETS</b>						
AMOCO 1-11 - AMOCO P&A Well - No Surveys						Out of range
<b>7N-67W-12 OFFSETS Incomplete</b>						
DRAKE 4X-HNC-11-07-67 - BAYSWATER PR Well - Act	19,194.73	17,437.00	854.62	321.71	1.604	Collision Risk Procedures R
DRAKE 5X-HC-11-07-67 - BAYSWATER PR Well - Actua	19,194.73	17,670.00	1,046.04	456.97	1.776	Collision Risk Procedures R
DRAKE 5X-HNB-11-07-67 - BAYSWATER PR Well - Act	19,194.73	17,435.00	1,291.65	654.03	2.026	CC, ES, SF
<b>7N-67W-17 OFFSETS</b>						
WALT WEST 17W-20-02 - XOG PR Well - Actual XOG S						Out of range

## Anticollision Summary Report

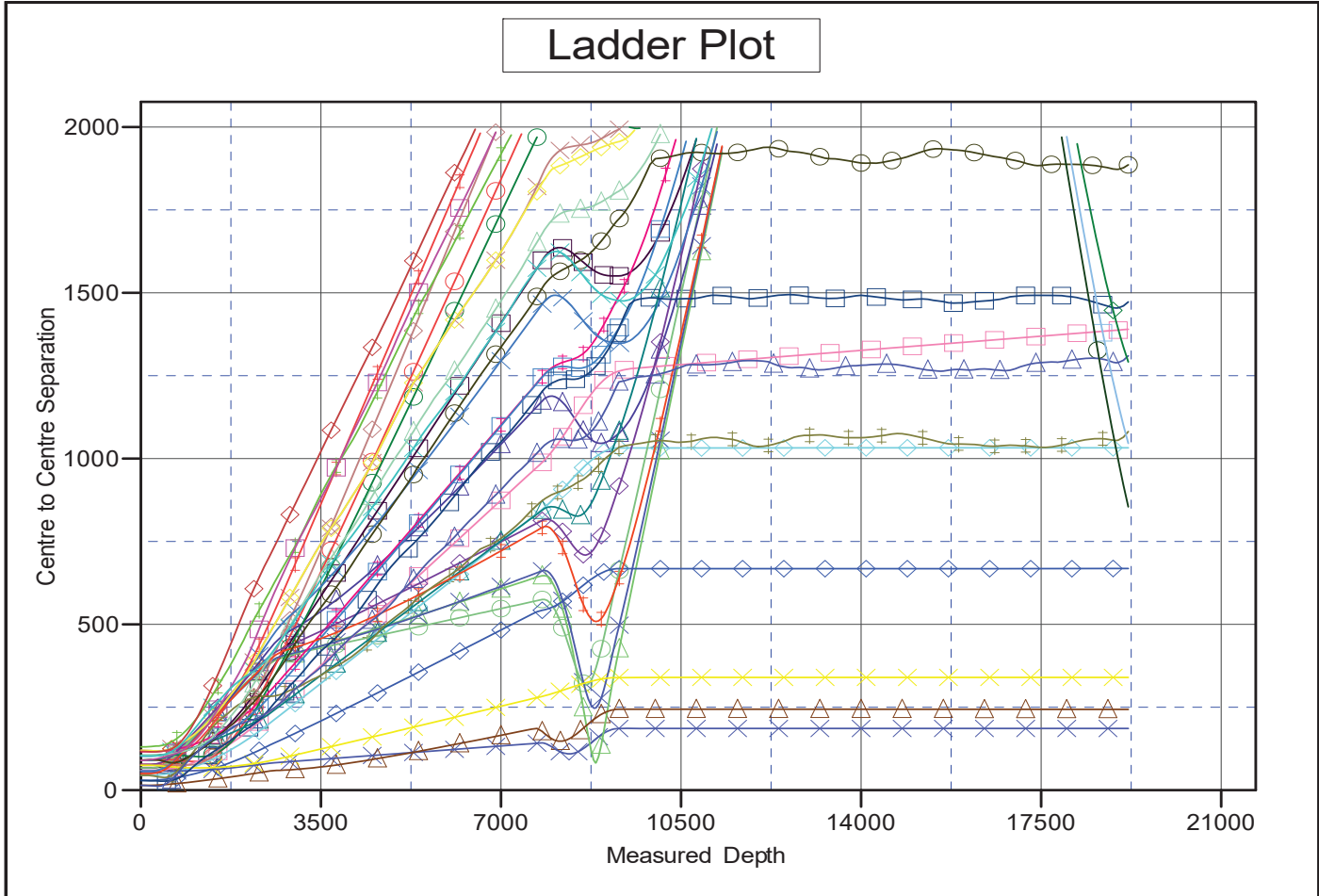
<b>Company:</b>	PRAIRIE OPERATING CO	<b>Local Co-ordinate Reference:</b>	Well BLEHM 21E10NCM
<b>Project:</b>	WELD COUNTY, CO (NAD 83)	<b>TVD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Reference Site:</b>	7N-67W-09 BLEHM PAD	<b>MD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	BLEHM 21E10NCM	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Plan A	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Permit Rev-1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
7N-68W-12 OFFSETS						
GREENWALT 1 - RAYMOND P&A Sussex Well - No Sur						Out of range
MOODY WARREN 1-12 - ENSERCH P&A Well - No Sur						Out of range
RODENBERGER 1 - UNIOIL P&A Well - No Surveys						Out of range
8N-67W-33 OFFSETS Incomplete						
ARKANSAS 8-67-33-4N - ENERPLUS PR Well - Actual						Out of range

# Anticollision Summary Report

<b>Company:</b>	PRAIRIE OPERATING CO	<b>Local Co-ordinate Reference:</b>	Well BLEHM 21E10NCM
<b>Project:</b>	WELD COUNTY, CO (NAD 83)	<b>TVD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Reference Site:</b>	7N-67W-09 BLEHM PAD	<b>MD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	BLEHM 21E10NCM	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Plan A	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Permit Rev-1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB = 20' @ 5108.00usft (RIG)      Coordinates are relative to: BLEHM 21E10NCM  
 Offset Depths are relative to Offset Datum      Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Central Meridian is -105.500000      Grid Convergence at Surface is: 0.39°



**LEGEND**

<ul style="list-style-type: none"> <li><span style="color: cyan;">◆</span> BLEHM 18E10CM, Plan A, Permit Rev-1 V0</li> <li><span style="color: blue;">◆</span> BLEHM 22E10CM, Plan A, Permit Rev-1 V0</li> <li><span style="color: green;">◆</span> BLEHM 6W10CM, Plan A, Permit Rev-1 V0</li> <li><span style="color: red;">◆</span> BLEHM 16W10CM, Plan A, Permit Rev-1 V0</li> <li><span style="color: black;">◆</span> BLEHM 11W10NCM, Plan A, Permit Rev-1 V0</li> <li><span style="color: purple;">◆</span> BLEHM 5W10NCM, Plan A, Permit Rev-1 V0</li> <li><span style="color: orange;">◆</span> BLEHM 14W10NCM, Plan A, Permit Rev-1 V0</li> <li><span style="color: brown;">◆</span> BLEHM 9W10NCM, Plan A, Permit Rev-1 V0</li> <li><span style="color: pink;">◆</span> BLEHM 7W10NCM, Plan A, Permit Rev-1 V0</li> <li><span style="color: grey;">◆</span> BLEHM 20E10NCM, Plan A, Permit Rev-1 V0</li> <li><span style="color: yellow;">◆</span> BLEHM 1W10NCM, Plan A, Permit Rev-1 V0</li> <li><span style="color: magenta;">◆</span> BLEHM 17E10NCM, Plan A, Permit Rev-1 V0</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: blue;">◆</span> BLEHM 13W10NCM, Plan A, Permit Rev-1 V0</li> <li><span style="color: green;">◆</span> BLEHM 2W10CM, Plan A, Permit Rev-1 V0</li> <li><span style="color: red;">◆</span> BLEHM 15W10NCM, Plan A, Permit Rev-1 V0</li> <li><span style="color: purple;">◆</span> BLEHM 4W10NCM, Plan A, Permit Rev-1 V0</li> <li><span style="color: orange;">◆</span> BLEHM 18E10NCM, Plan A, Permit Rev-1 V0</li> <li><span style="color: brown;">◆</span> BLEHM 23E10NCM, Plan A, Permit Rev-1 V0</li> <li><span style="color: pink;">◆</span> BLEHM 10W10NCM, Plan A, Permit Rev-1 V0</li> <li><span style="color: grey;">◆</span> BLEHM 3W10NCM, Plan A, Permit Rev-1 V0</li> <li><span style="color: yellow;">◆</span> BLEHM 8W10NCM, Plan A, Permit Rev-1 V0</li> <li><span style="color: magenta;">◆</span> BLEHM 5X-HNB-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li><span style="color: cyan;">◆</span> BLEHM 5X-HNB-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li><span style="color: blue;">◆</span> BLEHM 5X-HNB-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li><span style="color: green;">◆</span> BLEHM 6X-HNB-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: red;">◆</span> BLEHM-7XHNC-10-07-67, PRAIRIE PR Sidetrack, Actual Nickel Road Sidetrack Svys V0</li> <li><span style="color: yellow;">◆</span> BLEHM-7XHNC-10-07-67, PRAIRIE Original Wellbore, Actual Nickel Road Surveys V0</li> <li><span style="color: green;">◆</span> BLEHM-7XHNC-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li><span style="color: purple;">◆</span> BLEHM 8X-HNB-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li><span style="color: orange;">◆</span> BLEHM 3X-HC-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li><span style="color: pink;">◆</span> BLEHM-8XHNC-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li><span style="color: grey;">◆</span> BLEHM WEST 6X-HC-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li><span style="color: blue;">◆</span> BLEHM 5XHC-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li><span style="color: brown;">◆</span> DRAKE 5XHC-11-07-67, BAYSWATER PR Well, Actual BKR Surveys V0</li> <li><span style="color: pink;">◆</span> DRAKE 4XHC-11-07-67, BAYSWATER PR Well, Actual BKR Surveys V0</li> <li><span style="color: yellow;">◆</span> DRAKE 5X-HNB-11-07-67, BAYSWATER PR Well, Actual BKR Surveys V0</li> </ul>
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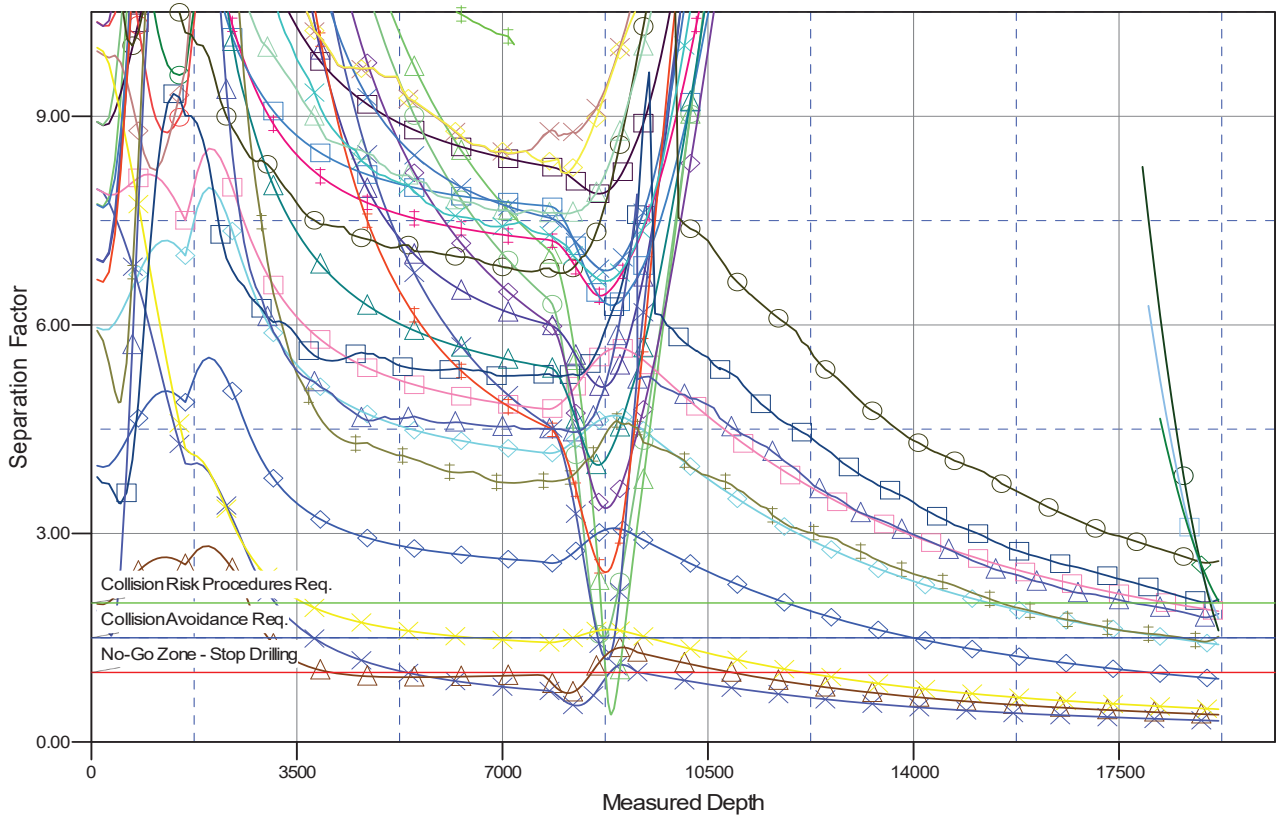
# Anticollision Summary Report

<b>Company:</b>	PRAIRIE OPERATING CO	<b>Local Co-ordinate Reference:</b>	Well BLEHM 21E10NCM
<b>Project:</b>	WELD COUNTY, CO (NAD 83)	<b>TVD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Reference Site:</b>	7N-67W-09 BLEHM PAD	<b>MD Reference:</b>	RKB = 20' @ 5108.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	BLEHM 21E10NCM	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Plan A	<b>Database:</b>	EDM 5000.16 Single User Db
<b>Reference Design:</b>	Permit Rev-1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB = 20' @ 5108.00usft (RIG)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000

Coordinates are relative to: BLEHM 21E10NCM  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.39°

## Separation Factor Plot



### LEGEND

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| <ul style="list-style-type: none"> <li>BLEHM 18E10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 22E10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 6W10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 10W10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 11W10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 5W10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 14W10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 9W10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 7W10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 20E10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 19W10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 17E10CM, Plan A, Permit Rev-1 V0</li> </ul> | <ul style="list-style-type: none"> <li>BLEHM 13W10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 2W10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 15W10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 4W10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 12E10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 23E10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 10W10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 3W10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 8W10CM, Plan A, Permit Rev-1 V0</li> <li>BLEHM 5X-HNC-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li>BLEHM 6X-HNB-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> </ul> | <ul style="list-style-type: none"> <li>BLEHM-7XHNC-10-07-67, PRAIRIE PR Sidetrack, Actual Nickel Road Sidetrack Svys V0</li> <li>BLEHM-7XHNC-10-07-67, PRAIRIE Original Wellbore, Actual Nickel Road Surveys V0</li> <li>BLEHM-7XHC-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li>BLEHM 8X-HNB-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li>BLEHM 8XHC-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li>BLEHM-8XHC-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li>BLEHM WEST 6X-HC-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li>BLEHM 5XHC-10-07-67, PRAIRIE PR Well, Actual Nickel Road Surveys V0</li> <li>DRAKE 5XHC-11-07-67, BAYSWATER PR Well, Actual BKR Surveys V0</li> <li>DRAKE 4X-HNC-11-07-67, BAYSWATER PR Well, Actual BKR Surveys V0</li> <li>DRAKE 5X-HNB-11-07-67, BAYSWATER PR Well, Actual BKR Surveys V0</li> </ul> |
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