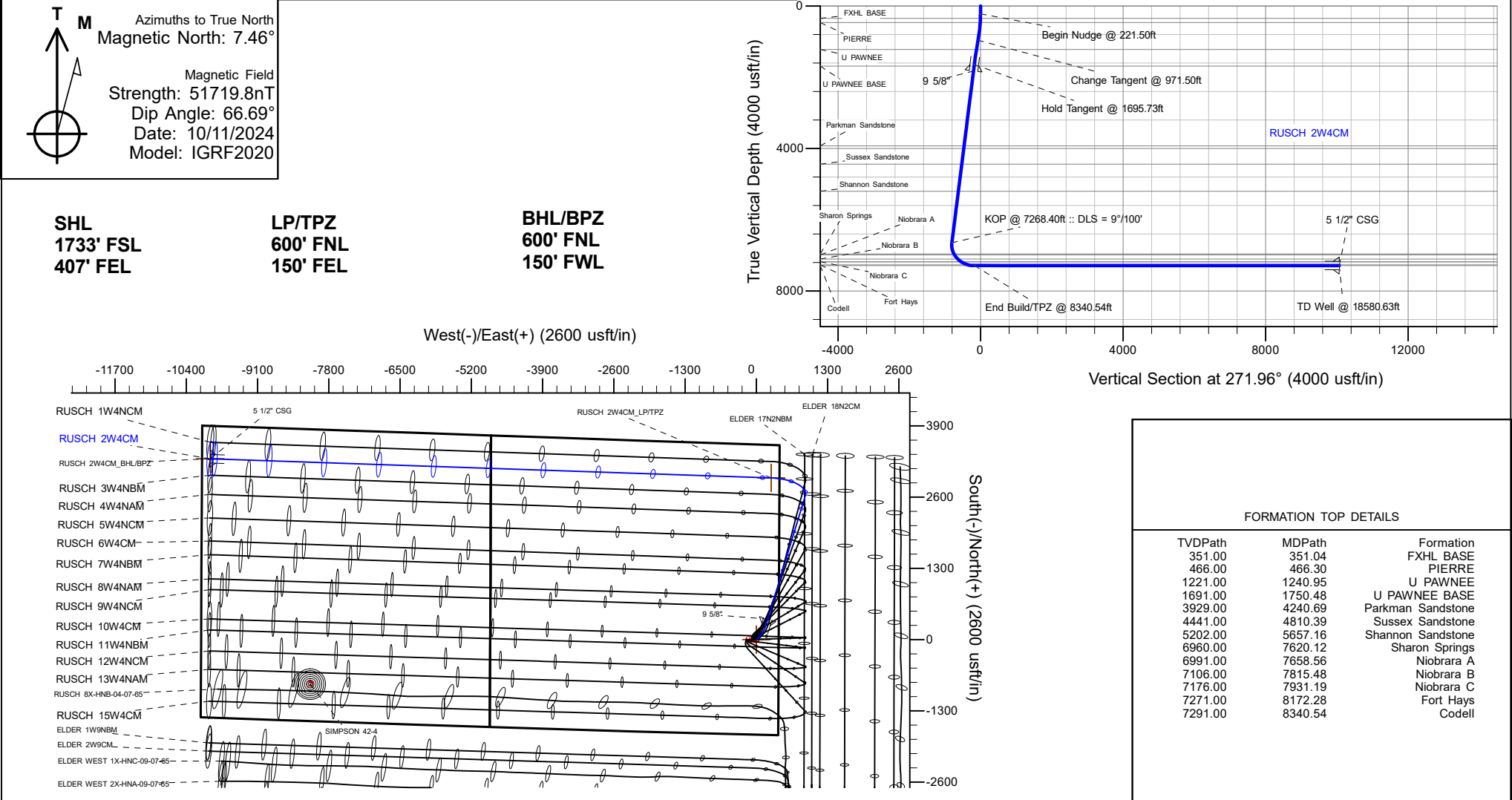


SECTION DETAILS											WELLBORE TARGET DETAILS (LAT/LONG)					
											Name	TVD	Northing	Easting	Latitude	Longitude
											RUSCH 2W4CM_SHL	0.00	1462680.52	3238589.00	40.600283	-104.640787
											RUSCH 2W4CM_LP/TPZ	7291.00	1465633.24	3238831.11	40.608381	-104.639812
											RUSCH 2W4CM_BHL/BPZ	7291.00	1465883.99	3228594.01	40.609336	-104.676672
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	WELL DETAILS: RUSCH 2W4CM			Plan: Permit Rev-1 (RUSCH 2W4CM/Plan B)		
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		GL = 4886'					
2	221.50	0.00	0.00	221.50	0.00	0.00	0.00	0.00	0.00		RKB = 20' @ 4906.00usft (RIG)			Date: 10/13/2024		
3	971.50	15.00	45.00	962.96	69.02	69.02	2.00	45.00	-66.62							
4	1695.73	26.01	16.90	1641.79	288.40	182.06	2.00	-55.67	-172.09							
5	7268.40	26.01	16.90	6650.05	2626.64	892.47	0.00	0.00	-802.11							
6	8340.54	90.00	271.96	7291.00	2950.25	270.63	9.00	-103.49	-169.57							
7	18580.63	90.00	271.96	7291.00	3300.17	-9963.48	0.00	0.00	10070.52	RUSCH 2W4CM_BHL/BPZ						



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 2W4CM
Company:	PRAIRIE OPERATING CO	TVD Reference:	RKB = 20' @ 4906.00usft (RIG)
Project:	WELD COUNTY, CO (NAD 83)	MD Reference:	RKB = 20' @ 4906.00usft (RIG)
Site:	7N-65W-03 RUSCH PAD	North Reference:	True
Well:	RUSCH 2W4CM	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Permit Rev-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	7N-65W-03 RUSCH PAD				
Site Position:		Northing:	1,462,715.14 usft	Latitude:	40.600383
From:	Lat/Long	Easting:	3,238,401.50 usft	Longitude:	-104.641461
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	RUSCH 2W4CM					
Well Position	+N/-S	0.00 usft	Northing:	1,462,680.52 usft	Latitude:	40.600283
	+E/-W	0.00 usft	Easting:	3,238,589.00 usft	Longitude:	-104.640787
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	4,886.00 usft
Grid Convergence:		0.56 °				

Wellbore	Plan B				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	10/11/2024	7.46	66.69	51,719.76326433

Design	Permit Rev-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	271.96

Plan Survey Tool Program		Date	10/11/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	1,825.00	Permit Rev-1 (Plan B)	ISCWSA MWD+IFR1	
				MWD+IFR	
2	1,825.00	18,580.63	Permit Rev-1 (Plan B)	ISCWSA MWD+IFR1	
				MWD+IFR	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 2W4CM
Company:	PRAIRIE OPERATING CO	TVD Reference:	RKB = 20' @ 4906.00usft (RIG)
Project:	WELD COUNTY, CO (NAD 83)	MD Reference:	RKB = 20' @ 4906.00usft (RIG)
Site:	7N-65W-03 RUSCH PAD	North Reference:	True
Well:	RUSCH 2W4CM	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	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	
221.50	0.00	0.00	221.50	0.00	0.00	0.00	0.00	0.00	0.00	
971.50	15.00	45.00	962.96	69.02	69.02	2.00	2.00	0.00	45.00	
1,695.73	26.01	16.90	1,641.79	288.40	182.06	2.00	1.52	-3.88	-55.67	
7,268.40	26.01	16.90	6,650.05	2,626.64	892.47	0.00	0.00	0.00	0.00	
8,340.54	90.00	271.96	7,291.00	2,950.25	270.63	9.00	5.97	-9.79	-103.49	
18,580.63	90.00	271.96	7,291.00	3,300.17	-9,963.48	0.00	0.00	0.00	0.00	RUSCH 2W4CM_BHI

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 2W4CM
Company:	PRAIRIE OPERATING CO	TVD Reference:	RKB = 20' @ 4906.00usft (RIG)
Project:	WELD COUNTY, CO (NAD 83)	MD Reference:	RKB = 20' @ 4906.00usft (RIG)
Site:	7N-65W-03 RUSCH PAD	North Reference:	True
Well:	RUSCH 2W4CM	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	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
100.00	0.00	0.00	100.00	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
221.50	0.00	0.00	221.50	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 221.50ft									
300.00	1.57	45.00	299.99	0.76	0.76	-0.73	2.00	2.00	0.00
351.04	2.59	45.00	351.00	2.07	2.07	-2.00	2.00	2.00	0.00
FXHL BASE									
400.00	3.57	45.00	399.88	3.93	3.93	-3.79	2.00	2.00	0.00
466.30	4.90	45.00	466.00	7.39	7.39	-7.13	2.00	2.00	0.00
PIERRE									
500.00	5.57	45.00	499.56	9.56	9.56	-9.23	2.00	2.00	0.00
600.00	7.57	45.00	598.90	17.65	17.65	-17.04	2.00	2.00	0.00
700.00	9.57	45.00	697.78	28.19	28.19	-27.21	2.00	2.00	0.00
800.00	11.57	45.00	796.08	41.16	41.16	-39.73	2.00	2.00	0.00
900.00	13.57	45.00	893.67	56.55	56.55	-54.58	2.00	2.00	0.00
971.50	15.00	45.00	962.96	69.02	69.02	-66.62	2.00	2.00	0.00
Change Tangent @ 971.50ft									
1,000.00	15.33	43.22	990.47	74.38	74.21	-71.62	2.00	1.15	-6.25
1,100.00	16.58	37.54	1,086.62	95.33	91.96	-88.65	2.00	1.25	-5.67
1,200.00	17.97	32.68	1,182.11	119.63	108.99	-104.83	2.00	1.39	-4.86
1,240.95	18.57	30.90	1,221.00	130.54	115.75	-111.22	2.00	1.46	-4.35
U PAWNEE									
1,300.00	19.46	28.52	1,276.83	147.25	125.27	-120.16	2.00	1.51	-4.03
1,400.00	21.03	24.95	1,370.65	178.15	140.80	-134.62	2.00	1.57	-3.58
1,500.00	22.67	21.85	1,463.47	212.31	155.54	-148.18	2.00	1.64	-3.09
1,600.00	24.35	19.16	1,555.17	249.67	169.48	-160.84	2.00	1.69	-2.69
1,695.73	26.01	16.90	1,641.79	288.40	182.06	-172.09	2.00	1.73	-2.36
Hold Tangent @ 1695.73ft									
1,700.00	26.01	16.90	1,645.63	290.20	182.61	-172.57	0.00	0.00	0.00
1,750.48	26.01	16.90	1,691.00	311.38	189.04	-178.28	0.00	0.00	0.00
U PAWNEE BASE									
1,800.00	26.01	16.90	1,735.51	332.16	195.35	-183.88	0.00	0.00	0.00
1,899.58	26.01	16.90	1,825.00	373.94	208.05	-195.14	0.00	0.00	0.00
9 5/8"									
1,900.00	26.01	16.90	1,825.38	374.12	208.10	-195.18	0.00	0.00	0.00
2,000.00	26.01	16.90	1,915.25	416.07	220.85	-206.49	0.00	0.00	0.00
2,100.00	26.01	16.90	2,005.12	458.03	233.60	-217.80	0.00	0.00	0.00
2,200.00	26.01	16.90	2,094.99	499.99	246.35	-229.10	0.00	0.00	0.00
2,300.00	26.01	16.90	2,184.86	541.95	259.09	-240.41	0.00	0.00	0.00
2,400.00	26.01	16.90	2,274.74	583.91	271.84	-251.71	0.00	0.00	0.00
2,500.00	26.01	16.90	2,364.61	625.87	284.59	-263.02	0.00	0.00	0.00
2,600.00	26.01	16.90	2,454.48	667.83	297.34	-274.32	0.00	0.00	0.00
2,700.00	26.01	16.90	2,544.35	709.79	310.09	-285.63	0.00	0.00	0.00
2,800.00	26.01	16.90	2,634.22	751.75	322.83	-296.93	0.00	0.00	0.00
2,900.00	26.01	16.90	2,724.09	793.71	335.58	-308.24	0.00	0.00	0.00
3,000.00	26.01	16.90	2,813.97	835.66	348.33	-319.55	0.00	0.00	0.00
3,100.00	26.01	16.90	2,903.84	877.62	361.08	-330.85	0.00	0.00	0.00
3,200.00	26.01	16.90	2,993.71	919.58	373.83	-342.16	0.00	0.00	0.00
3,300.00	26.01	16.90	3,083.58	961.54	386.58	-353.46	0.00	0.00	0.00
3,400.00	26.01	16.90	3,173.45	1,003.50	399.32	-364.77	0.00	0.00	0.00
3,500.00	26.01	16.90	3,263.33	1,045.46	412.07	-376.07	0.00	0.00	0.00
3,600.00	26.01	16.90	3,353.20	1,087.42	424.82	-387.38	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 2W4CM
Company:	PRAIRIE OPERATING CO	TVD Reference:	RKB = 20' @ 4906.00usft (RIG)
Project:	WELD COUNTY, CO (NAD 83)	MD Reference:	RKB = 20' @ 4906.00usft (RIG)
Site:	7N-65W-03 RUSCH PAD	North Reference:	True
Well:	RUSCH 2W4CM	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	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)
3,700.00	26.01	16.90	3,443.07	1,129.38	437.57	-398.69	0.00	0.00	0.00
3,800.00	26.01	16.90	3,532.94	1,171.34	450.32	-409.99	0.00	0.00	0.00
3,900.00	26.01	16.90	3,622.81	1,213.29	463.06	-421.30	0.00	0.00	0.00
4,000.00	26.01	16.90	3,712.68	1,255.25	475.81	-432.60	0.00	0.00	0.00
4,100.00	26.01	16.90	3,802.56	1,297.21	488.56	-443.91	0.00	0.00	0.00
4,200.00	26.01	16.90	3,892.43	1,339.17	501.31	-455.21	0.00	0.00	0.00
4,240.69	26.01	16.90	3,929.00	1,356.25	506.50	-459.81	0.00	0.00	0.00
Parkman Sandstone									
4,300.00	26.01	16.90	3,982.30	1,381.13	514.06	-466.52	0.00	0.00	0.00
4,400.00	26.01	16.90	4,072.17	1,423.09	526.80	-477.82	0.00	0.00	0.00
4,500.00	26.01	16.90	4,162.04	1,465.05	539.55	-489.13	0.00	0.00	0.00
4,600.00	26.01	16.90	4,251.91	1,507.01	552.30	-500.44	0.00	0.00	0.00
4,700.00	26.01	16.90	4,341.79	1,548.97	565.05	-511.74	0.00	0.00	0.00
4,800.00	26.01	16.90	4,431.66	1,590.93	577.80	-523.05	0.00	0.00	0.00
4,810.39	26.01	16.90	4,441.00	1,595.29	579.12	-524.22	0.00	0.00	0.00
Sussex Sandstone									
4,900.00	26.01	16.90	4,521.53	1,632.88	590.55	-534.35	0.00	0.00	0.00
5,000.00	26.01	16.90	4,611.40	1,674.84	603.29	-545.66	0.00	0.00	0.00
5,100.00	26.01	16.90	4,701.27	1,716.80	616.04	-556.96	0.00	0.00	0.00
5,200.00	26.01	16.90	4,791.15	1,758.76	628.79	-568.27	0.00	0.00	0.00
5,300.00	26.01	16.90	4,881.02	1,800.72	641.54	-579.57	0.00	0.00	0.00
5,400.00	26.01	16.90	4,970.89	1,842.68	654.29	-590.88	0.00	0.00	0.00
5,500.00	26.01	16.90	5,060.76	1,884.64	667.03	-602.19	0.00	0.00	0.00
5,600.00	26.01	16.90	5,150.63	1,926.60	679.78	-613.49	0.00	0.00	0.00
5,657.16	26.01	16.90	5,202.00	1,950.58	687.07	-619.95	0.00	0.00	0.00
Shannon Sandstone									
5,700.00	26.01	16.90	5,240.50	1,968.56	692.53	-624.80	0.00	0.00	0.00
5,800.00	26.01	16.90	5,330.38	2,010.51	705.28	-636.10	0.00	0.00	0.00
5,900.00	26.01	16.90	5,420.25	2,052.47	718.03	-647.41	0.00	0.00	0.00
6,000.00	26.01	16.90	5,510.12	2,094.43	730.77	-658.71	0.00	0.00	0.00
6,100.00	26.01	16.90	5,599.99	2,136.39	743.52	-670.02	0.00	0.00	0.00
6,200.00	26.01	16.90	5,689.86	2,178.35	756.27	-681.32	0.00	0.00	0.00
6,300.00	26.01	16.90	5,779.73	2,220.31	769.02	-692.63	0.00	0.00	0.00
6,400.00	26.01	16.90	5,869.61	2,262.27	781.77	-703.94	0.00	0.00	0.00
6,500.00	26.01	16.90	5,959.48	2,304.23	794.51	-715.24	0.00	0.00	0.00
6,600.00	26.01	16.90	6,049.35	2,346.19	807.26	-726.55	0.00	0.00	0.00
6,700.00	26.01	16.90	6,139.22	2,388.15	820.01	-737.85	0.00	0.00	0.00
6,800.00	26.01	16.90	6,229.09	2,430.10	832.76	-749.16	0.00	0.00	0.00
6,900.00	26.01	16.90	6,318.97	2,472.06	845.51	-760.46	0.00	0.00	0.00
7,000.00	26.01	16.90	6,408.84	2,514.02	858.26	-771.77	0.00	0.00	0.00
7,100.00	26.01	16.90	6,498.71	2,555.98	871.00	-783.07	0.00	0.00	0.00
7,200.00	26.01	16.90	6,588.58	2,597.94	883.75	-794.38	0.00	0.00	0.00
7,268.40	26.01	16.90	6,650.05	2,626.64	892.47	-802.11	0.00	0.00	0.00
KOP @ 7268.40ft :: DLS = 9°/100'									
7,300.00	25.49	10.46	6,678.52	2,639.96	895.72	-804.91	9.00	-1.66	-20.37
7,350.00	25.25	359.96	6,723.72	2,661.21	897.67	-806.12	9.00	-0.46	-21.00
7,400.00	25.77	349.57	6,768.87	2,682.58	895.69	-803.42	9.00	1.02	-20.79
7,450.00	26.98	339.80	6,813.69	2,703.92	889.81	-796.81	9.00	2.42	-19.54
7,500.00	28.80	330.99	6,857.90	2,725.11	880.04	-786.33	9.00	3.65	-17.61
7,550.00	31.13	323.27	6,901.23	2,746.01	866.47	-772.04	9.00	4.66	-15.44
7,600.00	33.86	316.60	6,943.41	2,766.50	849.16	-754.05	9.00	5.45	-13.34
7,620.12	35.05	314.19	6,960.00	2,774.60	841.17	-745.78	9.00	5.91	-12.00
Sharon Springs									
7,650.00	36.89	310.86	6,984.18	2,786.45	828.23	-732.44	9.00	6.19	-11.13

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 2W4CM
Company:	PRAIRIE OPERATING CO	TVD Reference:	RKB = 20' @ 4906.00usft (RIG)
Project:	WELD COUNTY, CO (NAD 83)	MD Reference:	RKB = 20' @ 4906.00usft (RIG)
Site:	7N-65W-03 RUSCH PAD	North Reference:	True
Well:	RUSCH 2W4CM	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	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)
7,658.56	37.44	309.96	6,991.00	2,789.80	824.30	-728.40	9.00	6.38	-10.52
Niobrara A									
7,700.00	40.17	305.91	7,023.30	2,805.74	803.81	-707.37	9.00	6.59	-9.79
7,750.00	43.63	301.60	7,060.52	2,824.25	776.04	-678.99	9.00	6.92	-8.62
7,800.00	47.24	297.81	7,095.60	2,841.86	745.09	-647.46	9.00	7.21	-7.57
7,815.48	48.37	296.73	7,106.00	2,847.11	734.90	-637.09	9.00	7.36	-6.99
Niobrara B									
7,850.00	50.95	294.44	7,128.35	2,858.46	711.17	-612.99	9.00	7.46	-6.61
7,900.00	54.75	291.42	7,158.54	2,873.96	674.47	-575.78	9.00	7.60	-6.05
7,931.19	57.16	289.68	7,176.00	2,883.02	650.27	-551.29	9.00	7.72	-5.59
Niobrara C									
7,950.00	58.62	288.67	7,186.00	2,888.26	635.22	-536.07	9.00	7.78	-5.35
8,000.00	62.54	286.14	7,210.56	2,901.26	593.67	-494.10	9.00	7.85	-5.06
8,050.00	66.51	283.78	7,232.06	2,912.90	550.07	-450.12	9.00	7.93	-4.71
8,100.00	70.51	281.56	7,250.38	2,923.09	504.69	-404.42	9.00	8.00	-4.44
8,150.00	74.53	279.45	7,265.40	2,931.78	457.81	-357.27	9.00	8.05	-4.22
8,172.28	76.33	278.54	7,271.00	2,935.15	436.52	-335.87	9.00	8.08	-4.10
Fort Hays									
8,200.00	78.58	277.42	7,277.02	2,938.90	409.72	-308.96	9.00	8.10	-4.03
8,250.00	82.63	275.45	7,285.18	2,944.43	360.71	-259.80	9.00	8.12	-3.94
8,300.00	86.70	273.52	7,289.83	2,948.32	311.10	-210.08	9.00	8.13	-3.87
8,340.54	90.00	271.96	7,291.00	2,950.25	270.63	-169.57	9.00	8.14	-3.84
End Build/TPZ @ 8340.54ft - Codell									
8,400.00	90.00	271.96	7,291.00	2,952.28	211.20	-110.10	0.00	0.00	0.00
8,500.00	90.00	271.96	7,291.00	2,955.70	111.26	-10.10	0.00	0.00	0.00
8,600.00	90.00	271.96	7,291.00	2,959.12	11.32	89.90	0.00	0.00	0.00
8,700.00	90.00	271.96	7,291.00	2,962.53	-88.62	189.90	0.00	0.00	0.00
8,800.00	90.00	271.96	7,291.00	2,965.95	-188.57	289.90	0.00	0.00	0.00
8,900.00	90.00	271.96	7,291.00	2,969.37	-288.51	389.90	0.00	0.00	0.00
9,000.00	90.00	271.96	7,291.00	2,972.79	-388.45	489.90	0.00	0.00	0.00
9,100.00	90.00	271.96	7,291.00	2,976.20	-488.39	589.90	0.00	0.00	0.00
9,200.00	90.00	271.96	7,291.00	2,979.62	-588.33	689.90	0.00	0.00	0.00
9,300.00	90.00	271.96	7,291.00	2,983.04	-688.27	789.90	0.00	0.00	0.00
9,400.00	90.00	271.96	7,291.00	2,986.45	-788.22	889.90	0.00	0.00	0.00
9,500.00	90.00	271.96	7,291.00	2,989.87	-888.16	989.90	0.00	0.00	0.00
9,600.00	90.00	271.96	7,291.00	2,993.29	-988.10	1,089.90	0.00	0.00	0.00
9,700.00	90.00	271.96	7,291.00	2,996.71	-1,088.04	1,189.90	0.00	0.00	0.00
9,800.00	90.00	271.96	7,291.00	3,000.12	-1,187.98	1,289.90	0.00	0.00	0.00
9,900.00	90.00	271.96	7,291.00	3,003.54	-1,287.92	1,389.90	0.00	0.00	0.00
10,000.00	90.00	271.96	7,291.00	3,006.96	-1,387.87	1,489.90	0.00	0.00	0.00
10,100.00	90.00	271.96	7,291.00	3,010.38	-1,487.81	1,589.90	0.00	0.00	0.00
10,200.00	90.00	271.96	7,291.00	3,013.79	-1,587.75	1,689.90	0.00	0.00	0.00
10,300.00	90.00	271.96	7,291.00	3,017.21	-1,687.69	1,789.90	0.00	0.00	0.00
10,400.00	90.00	271.96	7,291.00	3,020.63	-1,787.63	1,889.90	0.00	0.00	0.00
10,500.00	90.00	271.96	7,291.00	3,024.04	-1,887.57	1,989.90	0.00	0.00	0.00
10,600.00	90.00	271.96	7,291.00	3,027.46	-1,987.52	2,089.90	0.00	0.00	0.00
10,700.00	90.00	271.96	7,291.00	3,030.88	-2,087.46	2,189.90	0.00	0.00	0.00
10,800.00	90.00	271.96	7,291.00	3,034.30	-2,187.40	2,289.90	0.00	0.00	0.00
10,900.00	90.00	271.96	7,291.00	3,037.71	-2,287.34	2,389.90	0.00	0.00	0.00
11,000.00	90.00	271.96	7,291.00	3,041.13	-2,387.28	2,489.90	0.00	0.00	0.00
11,100.00	90.00	271.96	7,291.00	3,044.55	-2,487.22	2,589.90	0.00	0.00	0.00
11,200.00	90.00	271.96	7,291.00	3,047.96	-2,587.16	2,689.90	0.00	0.00	0.00
11,300.00	90.00	271.96	7,291.00	3,051.38	-2,687.11	2,789.90	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 2W4CM
Company:	PRAIRIE OPERATING CO	TVD Reference:	RKB = 20' @ 4906.00usft (RIG)
Project:	WELD COUNTY, CO (NAD 83)	MD Reference:	RKB = 20' @ 4906.00usft (RIG)
Site:	7N-65W-03 RUSCH PAD	North Reference:	True
Well:	RUSCH 2W4CM	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	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)	
11,400.00	90.00	271.96	7,291.00	3,054.80	-2,787.05	2,889.90	0.00	0.00	0.00	
11,500.00	90.00	271.96	7,291.00	3,058.22	-2,886.99	2,989.90	0.00	0.00	0.00	
11,600.00	90.00	271.96	7,291.00	3,061.63	-2,986.93	3,089.90	0.00	0.00	0.00	
11,700.00	90.00	271.96	7,291.00	3,065.05	-3,086.87	3,189.90	0.00	0.00	0.00	
11,800.00	90.00	271.96	7,291.00	3,068.47	-3,186.81	3,289.90	0.00	0.00	0.00	
11,900.00	90.00	271.96	7,291.00	3,071.88	-3,286.76	3,389.90	0.00	0.00	0.00	
12,000.00	90.00	271.96	7,291.00	3,075.30	-3,386.70	3,489.90	0.00	0.00	0.00	
12,100.00	90.00	271.96	7,291.00	3,078.72	-3,486.64	3,589.90	0.00	0.00	0.00	
12,200.00	90.00	271.96	7,291.00	3,082.14	-3,586.58	3,689.90	0.00	0.00	0.00	
12,300.00	90.00	271.96	7,291.00	3,085.55	-3,686.52	3,789.90	0.00	0.00	0.00	
12,400.00	90.00	271.96	7,291.00	3,088.97	-3,786.46	3,889.90	0.00	0.00	0.00	
12,500.00	90.00	271.96	7,291.00	3,092.39	-3,886.41	3,989.90	0.00	0.00	0.00	
12,600.00	90.00	271.96	7,291.00	3,095.80	-3,986.35	4,089.90	0.00	0.00	0.00	
12,700.00	90.00	271.96	7,291.00	3,099.22	-4,086.29	4,189.90	0.00	0.00	0.00	
12,800.00	90.00	271.96	7,291.00	3,102.64	-4,186.23	4,289.90	0.00	0.00	0.00	
12,900.00	90.00	271.96	7,291.00	3,106.06	-4,286.17	4,389.90	0.00	0.00	0.00	
13,000.00	90.00	271.96	7,291.00	3,109.47	-4,386.11	4,489.90	0.00	0.00	0.00	
13,100.00	90.00	271.96	7,291.00	3,112.89	-4,486.06	4,589.90	0.00	0.00	0.00	
13,200.00	90.00	271.96	7,291.00	3,116.31	-4,586.00	4,689.90	0.00	0.00	0.00	
13,300.00	90.00	271.96	7,291.00	3,119.72	-4,685.94	4,789.90	0.00	0.00	0.00	
13,400.00	90.00	271.96	7,291.00	3,123.14	-4,785.88	4,889.90	0.00	0.00	0.00	
13,500.00	90.00	271.96	7,291.00	3,126.56	-4,885.82	4,989.90	0.00	0.00	0.00	
13,600.00	90.00	271.96	7,291.00	3,129.98	-4,985.76	5,089.90	0.00	0.00	0.00	
13,700.00	90.00	271.96	7,291.00	3,133.39	-5,085.70	5,189.90	0.00	0.00	0.00	
13,800.00	90.00	271.96	7,291.00	3,136.81	-5,185.65	5,289.90	0.00	0.00	0.00	
13,900.00	90.00	271.96	7,291.00	3,140.23	-5,285.59	5,389.90	0.00	0.00	0.00	
14,000.00	90.00	271.96	7,291.00	3,143.64	-5,385.53	5,489.90	0.00	0.00	0.00	
14,100.00	90.00	271.96	7,291.00	3,147.06	-5,485.47	5,589.90	0.00	0.00	0.00	
14,200.00	90.00	271.96	7,291.00	3,150.48	-5,585.41	5,689.90	0.00	0.00	0.00	
14,300.00	90.00	271.96	7,291.00	3,153.90	-5,685.35	5,789.90	0.00	0.00	0.00	
14,400.00	90.00	271.96	7,291.00	3,157.31	-5,785.30	5,889.90	0.00	0.00	0.00	
14,500.00	90.00	271.96	7,291.00	3,160.73	-5,885.24	5,989.90	0.00	0.00	0.00	
14,600.00	90.00	271.96	7,291.00	3,164.15	-5,985.18	6,089.90	0.00	0.00	0.00	
14,700.00	90.00	271.96	7,291.00	3,167.57	-6,085.12	6,189.90	0.00	0.00	0.00	
14,800.00	90.00	271.96	7,291.00	3,170.98	-6,185.06	6,289.90	0.00	0.00	0.00	
14,900.00	90.00	271.96	7,291.00	3,174.40	-6,285.00	6,389.90	0.00	0.00	0.00	
15,000.00	90.00	271.96	7,291.00	3,177.82	-6,384.95	6,489.90	0.00	0.00	0.00	
15,100.00	90.00	271.96	7,291.00	3,181.23	-6,484.89	6,589.90	0.00	0.00	0.00	
15,200.00	90.00	271.96	7,291.00	3,184.65	-6,584.83	6,689.90	0.00	0.00	0.00	
15,300.00	90.00	271.96	7,291.00	3,188.07	-6,684.77	6,789.90	0.00	0.00	0.00	
15,400.00	90.00	271.96	7,291.00	3,191.49	-6,784.71	6,889.90	0.00	0.00	0.00	
15,500.00	90.00	271.96	7,291.00	3,194.90	-6,884.65	6,989.90	0.00	0.00	0.00	
15,600.00	90.00	271.96	7,291.00	3,198.32	-6,984.60	7,089.90	0.00	0.00	0.00	
15,700.00	90.00	271.96	7,291.00	3,201.74	-7,084.54	7,189.90	0.00	0.00	0.00	
15,800.00	90.00	271.96	7,291.00	3,205.15	-7,184.48	7,289.90	0.00	0.00	0.00	
15,900.00	90.00	271.96	7,291.00	3,208.57	-7,284.42	7,389.90	0.00	0.00	0.00	
16,000.00	90.00	271.96	7,291.00	3,211.99	-7,384.36	7,489.90	0.00	0.00	0.00	
16,100.00	90.00	271.96	7,291.00	3,215.41	-7,484.30	7,589.90	0.00	0.00	0.00	
16,200.00	90.00	271.96	7,291.00	3,218.82	-7,584.24	7,689.90	0.00	0.00	0.00	
16,300.00	90.00	271.96	7,291.00	3,222.24	-7,684.19	7,789.90	0.00	0.00	0.00	
16,400.00	90.00	271.96	7,291.00	3,225.66	-7,784.13	7,889.90	0.00	0.00	0.00	
16,500.00	90.00	271.96	7,291.00	3,229.07	-7,884.07	7,989.90	0.00	0.00	0.00	
16,600.00	90.00	271.96	7,291.00	3,232.49	-7,984.01	8,089.90	0.00	0.00	0.00	
16,700.00	90.00	271.96	7,291.00	3,235.91	-8,083.95	8,189.90	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 2W4CM
Company:	PRAIRIE OPERATING CO	TVD Reference:	RKB = 20' @ 4906.00usft (RIG)
Project:	WELD COUNTY, CO (NAD 83)	MD Reference:	RKB = 20' @ 4906.00usft (RIG)
Site:	7N-65W-03 RUSCH PAD	North Reference:	True
Well:	RUSCH 2W4CM	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	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)
16,800.00	90.00	271.96	7,291.00	3,239.33	-8,183.89	8,289.90	0.00	0.00	0.00
16,900.00	90.00	271.96	7,291.00	3,242.74	-8,283.84	8,389.90	0.00	0.00	0.00
17,000.00	90.00	271.96	7,291.00	3,246.16	-8,383.78	8,489.90	0.00	0.00	0.00
17,100.00	90.00	271.96	7,291.00	3,249.58	-8,483.72	8,589.90	0.00	0.00	0.00
17,200.00	90.00	271.96	7,291.00	3,252.99	-8,583.66	8,689.90	0.00	0.00	0.00
17,300.00	90.00	271.96	7,291.00	3,256.41	-8,683.60	8,789.90	0.00	0.00	0.00
17,400.00	90.00	271.96	7,291.00	3,259.83	-8,783.54	8,889.90	0.00	0.00	0.00
17,500.00	90.00	271.96	7,291.00	3,263.25	-8,883.49	8,989.90	0.00	0.00	0.00
17,600.00	90.00	271.96	7,291.00	3,266.66	-8,983.43	9,089.90	0.00	0.00	0.00
17,700.00	90.00	271.96	7,291.00	3,270.08	-9,083.37	9,189.90	0.00	0.00	0.00
17,800.00	90.00	271.96	7,291.00	3,273.50	-9,183.31	9,289.90	0.00	0.00	0.00
17,900.00	90.00	271.96	7,291.00	3,276.91	-9,283.25	9,389.90	0.00	0.00	0.00
18,000.00	90.00	271.96	7,291.00	3,280.33	-9,383.19	9,489.90	0.00	0.00	0.00
18,100.00	90.00	271.96	7,291.00	3,283.75	-9,483.14	9,589.90	0.00	0.00	0.00
18,200.00	90.00	271.96	7,291.00	3,287.17	-9,583.08	9,689.90	0.00	0.00	0.00
18,300.00	90.00	271.96	7,291.00	3,290.58	-9,683.02	9,789.90	0.00	0.00	0.00
18,400.00	90.00	271.96	7,291.00	3,294.00	-9,782.96	9,889.90	0.00	0.00	0.00
18,500.00	90.00	271.96	7,291.00	3,297.42	-9,882.90	9,989.90	0.00	0.00	0.00
18,580.63	90.00	271.96	7,291.00	3,300.17	-9,963.48	10,070.52	0.00	0.00	0.00
TD Well @ 18580.63ft									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,899.58	1,825.00	9 5/8"	9-5/8	13-1/2
18,580.63	7,291.00	5 1/2" CSG	5-1/2	8-1/2

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
351.04	351.00	FXHL BASE			
466.30	466.00	PIERRE			
1,240.95	1,221.00	U PAWNEE			
1,750.48	1,691.00	U PAWNEE BASE			
4,240.69	3,929.00	Parkman Sandstone			
4,810.39	4,441.00	Sussex Sandstone			
5,657.16	5,202.00	Shannon Sandstone			
7,620.12	6,960.00	Sharon Springs			
7,658.56	6,991.00	Niobrara A			
7,815.48	7,106.00	Niobrara B			
7,931.19	7,176.00	Niobrara C			
8,172.28	7,271.00	Fort Hays			
8,340.54	7,291.00	Codell			

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 2W4CM
Company:	PRAIRIE OPERATING CO	TVD Reference:	RKB = 20' @ 4906.00usft (RIG)
Project:	WELD COUNTY, CO (NAD 83)	MD Reference:	RKB = 20' @ 4906.00usft (RIG)
Site:	7N-65W-03 RUSCH PAD	North Reference:	True
Well:	RUSCH 2W4CM	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan B		
Design:	Permit Rev-1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
221.50	221.50	0.00	0.00	Begin Nudge @ 221.50ft
971.50	962.96	69.02	69.02	Change Tangent @ 971.50ft
1,695.73	1,641.79	288.40	182.06	Hold Tangent @ 1695.73ft
7,268.40	6,650.05	2,626.64	892.47	KOP @ 7268.40ft :: DLS = 9°/100'
8,340.54	7,291.00	2,950.25	270.63	End Build/TPZ @ 8340.54ft
18,580.63	7,291.00	3,300.17	-9,963.48	TD Well @ 18580.63ft

PRAIRIE OPERATING CO

WELD COUNTY, CO (NAD 83)

7N-65W-03 RUSCH PAD

RUSCH 2W4CM

Plan B

Permit Rev-1

Anticollision Summary Report

13 October, 2024

Anticollision Summary Report

Company:	PRAIRIE OPERATING CO	Local Co-ordinate Reference:	Well RUSCH 2W4CM
Project:	WELD COUNTY, CO (NAD 83)	TVD Reference:	RKB = 20' @ 4906.00usft (RIG)
Reference Site:	7N-65W-03 RUSCH PAD	MD Reference:	RKB = 20' @ 4906.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	RUSCH 2W4CM	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan B	Database:	EDM 5000.16 Single User Db
Reference Design:	Permit Rev-1	Offset TVD Reference:	Reference Datum

Reference	Permit Rev-1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,500.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.45 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date	10/11/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,825.00	Permit Rev-1 (Plan B)	ISCWSA MWD+IFR1	MWD+IFR
1,825.00	18,580.63	Permit Rev-1 (Plan B)	ISCWSA MWD+IFR1	MWD+IFR

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
7N-65W-03 RUSCH PAD						
RUSCH 10W4CM - Plan A - Permit Rev-1	221.50	221.50	119.97	112.38	15.819	CC, ES
RUSCH 10W4CM - Plan A - Permit Rev-1	300.00	299.99	120.72	113.07	15.771	SF
RUSCH 11W4NBM - Plan A - Permit Rev-1	221.50	221.50	134.96	127.38	17.797	CC, ES
RUSCH 11W4NBM - Plan A - Permit Rev-1	300.00	299.99	135.72	128.06	17.735	SF
RUSCH 12W4NCM - Plan A - Permit Rev-1	221.50	221.50	149.96	142.37	19.774	CC, ES
RUSCH 12W4NCM - Plan A - Permit Rev-1	300.00	299.67	150.77	143.12	19.705	SF
RUSCH 13W4NAM - Plan B - Permit Rev-1	203.41	203.41	164.95	157.38	21.788	CC
RUSCH 13W4NAM - Plan B - Permit Rev-1	221.50	221.00	164.95	157.37	21.752	ES
RUSCH 13W4NAM - Plan B - Permit Rev-1	300.00	298.82	165.98	158.34	21.699	SF
RUSCH 15W4CM - Plan A - Permit Rev-1	200.00	200.00	179.95	172.38	23.775	CC, ES
RUSCH 15W4CM - Plan A - Permit Rev-1	300.00	297.86	181.29	173.64	23.704	SF
RUSCH 1W4NCM - Plan A - Permit Rev-1	200.00	200.00	15.03	7.47	1.986	CC
RUSCH 1W4NCM - Plan A - Permit Rev-1	18,581.56	18,543.63	352.52	-212.76	0.624	EOU Contact, ES, SF
RUSCH 3W4NBM - Plan A - Permit Rev-1	221.50	221.50	15.00	7.42	1.978	CC
RUSCH 3W4NBM - Plan A - Permit Rev-1	18,580.63	18,192.39	424.41	-42.74	0.909	EOU Contact, ES, SF
RUSCH 4W4NAM - Plan A - Permit Rev-1	221.50	221.50	29.99	22.41	3.955	CC, ES
RUSCH 4W4NAM - Plan A - Permit Rev-1	18,580.63	18,235.60	660.40	32.06	1.051	Collision Avoidance Req., SF
RUSCH 5W4NCM - Plan A - Permit Rev-1	221.50	221.50	44.99	37.40	5.932	CC, ES
RUSCH 5W4NCM - Plan A - Permit Rev-1	18,580.63	18,041.56	1,096.28	467.10	1.742	SF
RUSCH 6W4CM - Plan C - Permit Rev-1	221.50	221.50	60.26	52.68	7.947	CC, ES
RUSCH 6W4CM - Plan C - Permit Rev-1	18,580.63	18,119.25	1,500.63	861.08	2.346	SF
RUSCH 7W4NBM - Plan A - Permit Rev-1	221.50	221.50	74.98	67.40	9.887	CC, ES
RUSCH 7W4NBM - Plan A - Permit Rev-1	18,580.63	17,964.79	1,754.69	1,116.96	2.751	SF
RUSCH 8W4NAM - Plan B - Permit Rev-1	221.50	221.50	89.98	82.39	11.865	CC, ES
RUSCH 8W4NAM - Plan B - Permit Rev-1	18,580.63	17,728.38	2,212.18	1,579.00	3.494	SF
RUSCH 9W4NCM - Plan A - Permit Rev-1	221.50	221.50	104.97	97.39	13.842	CC, ES
RUSCH 9W4NCM - Plan A - Permit Rev-1	18,580.63	17,819.75	2,394.18	1,756.99	3.757	SF
7N-65W-04 OFFSETS						
SIMPSON 42-4 - PER P&A Well - No Surveys						Out of range

Anticollision Summary Report

Company:	PRAIRIE OPERATING CO	Local Co-ordinate Reference:	Well RUSCH 2W4CM
Project:	WELD COUNTY, CO (NAD 83)	TVD Reference:	RKB = 20' @ 4906.00usft (RIG)
Reference Site:	7N-65W-03 RUSCH PAD	MD Reference:	RKB = 20' @ 4906.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	RUSCH 2W4CM	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan B	Database:	EDM 5000.16 Single User Db
Reference Design:	Permit Rev-1	Offset TVD Reference:	Reference Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)		Separation Factor	Warning
Offset Well - Wellbore - Design						
7N-65W-11 ELDER PAD						
ELDER 11W9NCM - Plan A - Permit Rev-1						Out of range
ELDER 12W9NAM - Plan A - Permit Rev-1						Out of range
ELDER 13W9NBM - Plan A - Permit Rev-1						Out of range
ELDER 14W9CM - Plan A - Permit Rev-1						Out of range
ELDER 15W9NCM - Plan A - Permit Rev-1						Out of range
ELDER 16W9NBM - Plan A - Permit Rev-1						Out of range
ELDER 17N2NBM - Plan A - Permit Rev-1	7,738.34	17,287.20	124.41	-41.65	0.749	EOU Contact, CC
ELDER 17N2NBM - Plan A - Permit Rev-1	7,750.00	17,291.46	124.98	-46.99	0.727	EOU Contact, SF
ELDER 17N2NBM - Plan A - Permit Rev-1	7,800.00	17,309.14	139.70	-49.09	0.740	EOU Contact, ES
ELDER 18N2CM - Plan A - Permit Rev-1	7,769.27	17,473.27	339.36	176.84	2.088	CC
ELDER 18N2CM - Plan A - Permit Rev-1	7,800.00	17,484.02	341.29	172.59	2.023	ES
ELDER 18N2CM - Plan A - Permit Rev-1	7,850.00	17,500.67	352.52	175.09	1.987	SF
ELDER 19N2NCM - Plan A - Permit Rev-1	7,663.22	17,371.65	406.32	233.00	2.344	CC
ELDER 19N2NCM - Plan A - Permit Rev-1	7,700.00	17,385.83	408.77	230.30	2.290	ES
ELDER 19N2NCM - Plan A - Permit Rev-1	7,750.00	17,404.42	419.82	235.54	2.278	SF
ELDER 1W9NBM - Plan A - Permit Rev-1						Out of range
ELDER 20N2NBM - Plan A - Permit Rev-1	7,526.48	17,318.04	784.06	600.15	4.263	CC
ELDER 20N2NBM - Plan A - Permit Rev-1	7,550.00	17,327.89	784.78	599.55	4.237	ES
ELDER 20N2NBM - Plan A - Permit Rev-1	7,600.00	17,348.51	791.10	603.35	4.214	SF
ELDER 21N2NCM - Plan A - Permit Rev-1	7,496.83	17,508.85	1,333.17	1,147.50	7.180	CC
ELDER 21N2NCM - Plan A - Permit Rev-1	7,500.00	17,510.20	1,333.19	1,147.40	7.176	ES
ELDER 21N2NCM - Plan A - Permit Rev-1	7,600.00	17,551.86	1,344.73	1,155.65	7.112	SF
ELDER 23N2CM - Plan A - Permit Rev-1	7,497.12	17,703.31	1,695.45	1,509.59	9.122	CC
ELDER 23N2CM - Plan A - Permit Rev-1	7,500.00	17,704.54	1,695.46	1,509.51	9.118	ES
ELDER 23N2CM - Plan A - Permit Rev-1	7,600.00	17,746.20	1,706.26	1,517.39	9.034	SF
ELDER 25N2NAM - Plan A - Permit Rev-1	7,412.04	17,740.14	2,413.60	2,222.39	12.622	CC, ES
ELDER 25N2NAM - Plan A - Permit Rev-1	7,550.00	17,799.10	2,431.63	2,237.81	12.545	SF
ELDER 2W9CM - Plan A - Permit Rev-1						Out of range
ELDER 31N2CM - Plan A - Permit Rev-1						Out of range
ELDER 8W9NAM - Plan A - Permit Rev-1						Out of range
ELDER 9W9CM - Plan A - Permit Rev-1						Out of range
7N-65W-11 OFFSETS Incomplete						
ELDER 4Y-HNB-2-07-65 - PRAIRIE PR Well - Actual Atl	7,452.30	17,370.50	1,768.52	1,552.53	8.188	CC, ES
ELDER 4Y-HNB-2-07-65 - PRAIRIE PR Well - Actual Atl	7,550.00	17,409.00	1,778.35	1,559.54	8.127	SF
ELDER 5X-HNB-09-07-65 - PRAIRIE PR Well - Actual A						Out of range
ELDER 6Y-HNC-02-07-65 - PRAIRIE PR Well - Interpol						Out of range
ELDER 7Y-HC-02-07-65 - PRAIRIE PR Well - Interpol						Out of range
ELDER 7Y-HNB-02-07-65 - PRAIRIE PR Well - Interpol						Out of range
ELDER 8Y-HNA-02-07-65 - PRAIRIE PR Well - Interpol						Out of range
ELDER 8Y-HNC-02-07-65 - PRAIRIE PR Well - Actual N						Out of range
ELDER WEST 1X-HNC-09-07-65 - PRAIRIE PR Well - In						Out of range
ELDER WEST 2X-HC-09-07-65 - PRAIRIE PR Well - Int						Out of range
ELDER WEST 2X-HNA-09-07-65 - PRAIRIE PR Well - In						Out of range
ELDER WEST 3X-HNB-09-07-65 - PRAIRIE PR Well - In						Out of range
ELDER WEST 4X-HNC-09-07-65 - PRAIRIE PR Well - In						Out of range
RUSCH 8X-HNB-04-07-65 - PRAIRIE PR Well - Actual A						Out of range

Anticollision Summary Report

Company:	PRAIRIE OPERATING CO	Local Co-ordinate Reference:	Well RUSCH 2W4CM
Project:	WELD COUNTY, CO (NAD 83)	TVD Reference:	RKB = 20' @ 4906.00usft (RIG)
Reference Site:	7N-65W-03 RUSCH PAD	MD Reference:	RKB = 20' @ 4906.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	RUSCH 2W4CM	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan B	Database:	EDM 5000.16 Single User Db
Reference Design:	Permit Rev-1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB = 20' @ 4906.00usft (RIG)

Offset Depths are relative to Offset Datum

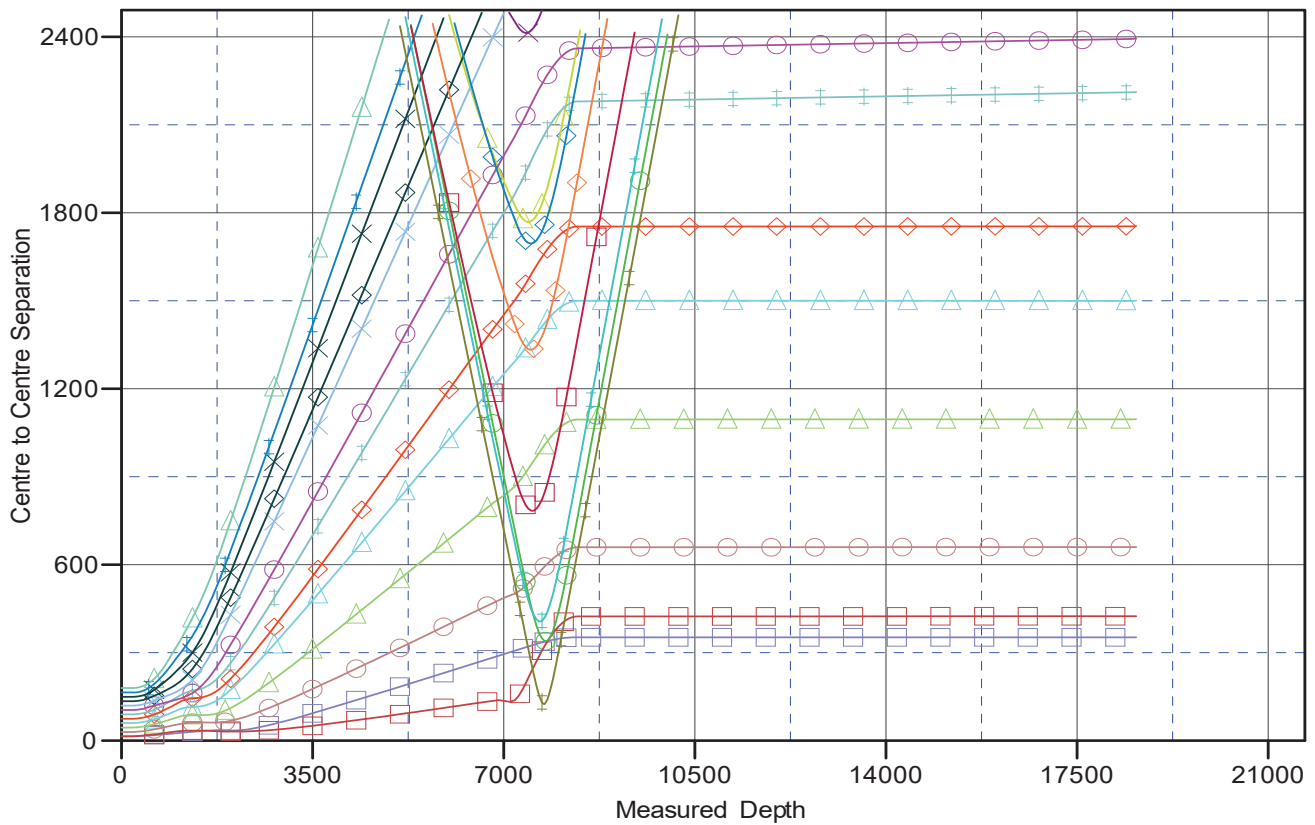
Central Meridian is -105.500000

Coordinates are relative to: RUSCH 2W4CM

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.56°

Ladder Plot



LEGEND

ELDER 4YHNB-2-07-65, PRAIRIEPR Well, Actual Atlas Surveys V0	RUSCH 5WVAM, Plan A, Permit Rev-1 V0	ELDER 17WVAM, Plan A, Permit Rev-1 V0
RUSCH 15WCM, Plan A, Permit Rev-1 V0	RUSCH 12WVAM, Plan A, Permit Rev-1 V0	ELDER 18WCM, Plan A, Permit Rev-1 V0
RUSCH 8WVAM, Plan B, Permit Rev-1 V0	RUSCH 9WVAM, Plan A, Permit Rev-1 V0	ELDER 23WCM, Plan A, Permit Rev-1 V0
RUSCH 1WVAM, Plan A, Permit Rev-1 V0	RUSCH 7WVAM, Plan A, Permit Rev-1 V0	ELDER 25WVAM, Plan A, Permit Rev-1 V0
RUSCH 11WVAM, Plan A, Permit Rev-1 V0	RUSCH 6WCM, Plan C, Permit Rev-1 V0	ELDER 21WVAM, Plan A, Permit Rev-1 V0
RUSCH 4WVAM, Plan A, Permit Rev-1 V0	RUSCH 13WVAM, Plan B, Permit Rev-1 V0	ELDER 19WCM, Plan A, Permit Rev-1 V0
RUSCH 3WVAM, Plan A, Permit Rev-1 V0	RUSCH 10WCM, Plan A, Permit Rev-1 V0	ELDER 20WVAM, Plan A, Permit Rev-1 V0

Anticollision Summary Report

Company:	PRAIRIE OPERATING CO	Local Co-ordinate Reference:	Well RUSCH 2W4CM
Project:	WELD COUNTY, CO (NAD 83)	TVD Reference:	RKB = 20' @ 4906.00usft (RIG)
Reference Site:	7N-65W-03 RUSCH PAD	MD Reference:	RKB = 20' @ 4906.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	RUSCH 2W4CM	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan B	Database:	EDM 5000.16 Single User Db
Reference Design:	Permit Rev-1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB = 20' @ 4906.00usft (RIG)

Offset Depths are relative to Offset Datum

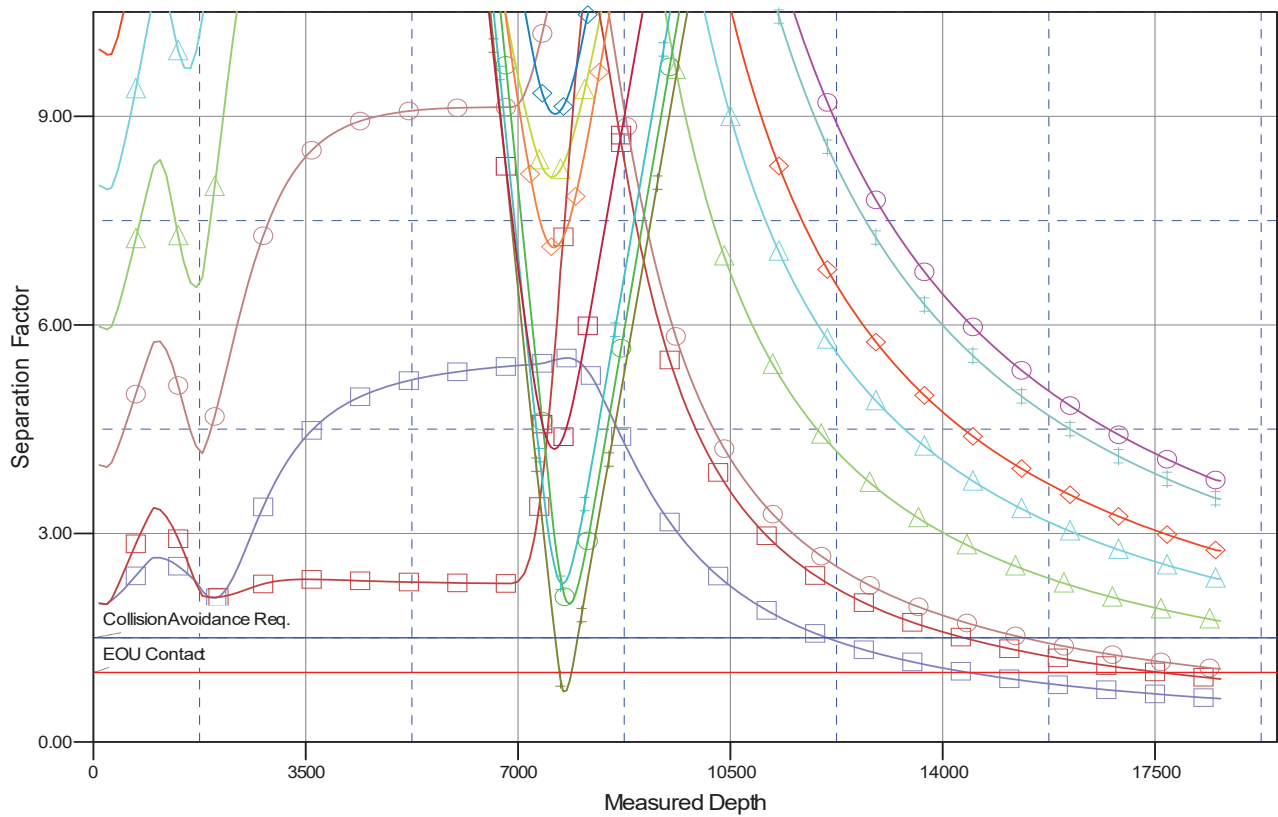
Central Meridian is -105.500000

Coordinates are relative to: RUSCH 2W4CM

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.56°

Separation Factor Plot



LEGEND

ELDER 4YHNB-2-07-65, PRAIRIEPR Well, Actual Atlas Surveys V0	RUSCH 5WNCM, Plan A, Permit Rev-1 V0	ELDER 17N2NCM, Plan A, Permit Rev-1 V0
RUSCH 15WCM, Plan A, Permit Rev-1 V0	RUSCH 12WNCM, Plan A, Permit Rev-1 V0	ELDER 18N2NCM, Plan A, Permit Rev-1 V0
RUSCH 8WNCM, Plan B, Permit Rev-1 V0	RUSCH 9WNCM, Plan A, Permit Rev-1 V0	ELDER 23N2NCM, Plan A, Permit Rev-1 V0
RUSCH 11WNCM, Plan A, Permit Rev-1 V0	RUSCH 7WNCM, Plan A, Permit Rev-1 V0	ELDER 25N2NCM, Plan A, Permit Rev-1 V0
RUSCH 11WNCM, Plan A, Permit Rev-1 V0	RUSCH 6WNCM, Plan C, Permit Rev-1 V0	ELDER 21N2NCM, Plan A, Permit Rev-1 V0
RUSCH 4WNCM, Plan A, Permit Rev-1 V0	RUSCH 13WNCM, Plan B, Permit Rev-1 V0	ELDER 19N2NCM, Plan A, Permit Rev-1 V0
RUSCH 3WNCM, Plan A, Permit Rev-1 V0	RUSCH 10WNCM, Plan A, Permit Rev-1 V0	ELDER 20N2NCM, Plan A, Permit Rev-1 V0