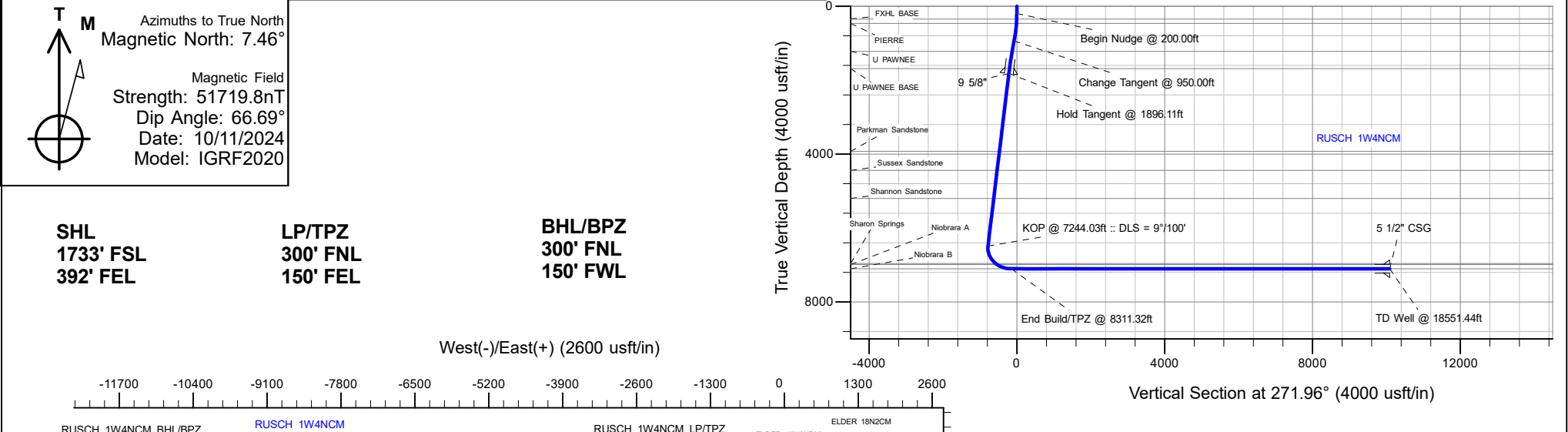


SECTION DETAILS											WELLBORE TARGET DETAILS (LAT/LONG)							
											Name	TVD	Northing	Easting	Latitude	Longitude		
											RUSCH 1W4NCM_SHL	0.00	1462679.57	3238604.01	40.600280	-104.640733		
											RUSCH 1W4NCM_LP/TPZ	7106.00	1465933.43	3238829.59	40.609205	-104.639807		
											RUSCH 1W4NCM_BHL/BPZ	7106.00	1466184.19	3228592.61	40.610160	-104.676667		
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	WELL DETAILS: RUSCH 1W4NCM				Plan: Permit Rev-1 (RUSCH 1W4NCM/Plan A)			
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		GL = 4886'				Date: 10/13/2024			
2	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00		RKB = 20' @ 4906.00usft (RIG)							
3	950.00	15.00	50.00	941.46	62.75	74.78	2.00	50.00	-72.59									
4	1896.11	29.19	14.45	1819.37	367.63	227.53	2.00	-60.98	-214.82									
5	7244.03	29.19	14.45	6488.14	2893.35	878.37	0.00	0.00	-778.90									
6	8311.32	90.00	271.96	7106.00	3251.76	257.18	9.00	-100.95	-145.82									
7	18551.44	90.00	271.96	7106.00	3601.47	-9976.97	0.00	0.00	10094.30	RUSCH 1W4NCM_BHL/BPZ								



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 1W4NCM
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 1W4NCM	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
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 1W4NCM					
Well Position	+N/-S	0.00 usft	Northing:	1,462,679.57 usft	Latitude:	40.600280
	+E/-W	0.00 usft	Easting:	3,238,604.01 usft	Longitude:	-104.640733
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	4,886.00 usft
Grid Convergence:		0.56 °				

Wellbore	Plan A				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	10/11/2024	7.46	66.69	51,719.76716923

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	10/13/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	1,825.00	Permit Rev-1 (Plan A)	ISCWSA MWD+IFR1	
				MWD+IFR	
2	1,825.00	18,551.44	Permit Rev-1 (Plan A)	ISCWSA MWD+IFR1	
				MWD+IFR	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 1W4NCM
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 1W4NCM	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
950.00	15.00	50.00	941.46	62.75	74.78	2.00	2.00	0.00	50.00	
1,896.11	29.19	14.45	1,819.37	367.63	227.53	2.00	1.50	-3.76	-60.98	
7,244.03	29.19	14.45	6,488.14	2,893.35	878.37	0.00	0.00	0.00	0.00	
8,311.32	90.00	271.96	7,106.00	3,251.76	257.18	9.00	5.70	-9.60	-100.95	
18,551.44	90.00	271.96	7,106.00	3,601.47	-9,976.97	0.00	0.00	0.00	0.00	RUSCH 1W4NCM_BI

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 1W4NCM
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 1W4NCM	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
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
Begin Nudge @ 200.00ft									
300.00	2.00	50.00	299.98	1.12	1.34	-1.30	2.00	2.00	0.00
351.07	3.02	50.00	351.00	2.56	3.05	-2.96	2.00	2.00	0.00
FXHL BASE									
400.00	4.00	50.00	399.84	4.49	5.35	-5.19	2.00	2.00	0.00
466.38	5.33	50.00	466.00	7.96	9.48	-9.20	2.00	2.00	0.00
PIERRE									
500.00	6.00	50.00	499.45	10.09	12.02	-11.67	2.00	2.00	0.00
600.00	8.00	50.00	598.70	17.92	21.36	-20.73	2.00	2.00	0.00
700.00	10.00	50.00	697.47	27.98	33.34	-32.36	2.00	2.00	0.00
800.00	12.00	50.00	795.62	40.24	47.96	-46.55	2.00	2.00	0.00
900.00	14.00	50.00	893.06	54.70	65.19	-63.28	2.00	2.00	0.00
950.00	15.00	50.00	941.46	62.75	74.78	-72.59	2.00	2.00	0.00
Change Tangent @ 950.00ft									
1,000.00	15.51	46.73	989.70	71.49	84.60	-82.11	2.00	1.02	-6.54
1,100.00	16.66	40.81	1,085.79	91.50	103.71	-100.52	2.00	1.15	-5.91
1,200.00	17.95	35.69	1,181.27	114.87	122.07	-118.07	2.00	1.30	-5.13
1,241.83	18.53	33.75	1,221.00	125.64	129.52	-125.15	2.00	1.38	-4.62
U PAWNEE									
1,300.00	19.37	31.25	1,276.01	141.57	139.66	-134.74	2.00	1.43	-4.30
1,400.00	20.87	27.42	1,369.91	171.55	156.47	-150.51	2.00	1.50	-3.83
1,500.00	22.45	24.09	1,462.85	204.80	172.47	-165.36	2.00	1.58	-3.33
1,600.00	24.09	21.19	1,554.72	241.26	187.64	-179.28	2.00	1.64	-2.90
1,700.00	25.77	18.64	1,645.40	280.89	201.96	-192.24	2.00	1.69	-2.55
1,750.82	26.65	17.46	1,691.00	302.24	208.91	-198.45	2.00	1.72	-2.32
U PAWNEE BASE									
1,800.00	27.50	16.38	1,734.79	323.65	215.42	-204.23	2.00	1.74	-2.19
1,896.11	29.19	14.45	1,819.37	367.63	227.53	-214.82	2.00	1.76	-2.01
Hold Tangent @ 1896.11ft									
1,900.00	29.19	14.45	1,822.77	369.47	228.00	-215.23	0.00	0.00	0.00
1,902.56	29.19	14.45	1,825.00	370.68	228.31	-215.50	0.00	0.00	0.00
9 5/8"									
2,000.00	29.19	14.45	1,910.07	416.70	240.17	-225.78	0.00	0.00	0.00
2,100.00	29.19	14.45	1,997.37	463.93	252.34	-236.33	0.00	0.00	0.00
2,200.00	29.19	14.45	2,084.67	511.16	264.51	-246.88	0.00	0.00	0.00
2,300.00	29.19	14.45	2,171.97	558.39	276.68	-257.42	0.00	0.00	0.00
2,400.00	29.19	14.45	2,259.27	605.61	288.85	-267.97	0.00	0.00	0.00
2,500.00	29.19	14.45	2,346.57	652.84	301.02	-278.52	0.00	0.00	0.00
2,600.00	29.19	14.45	2,433.87	700.07	313.19	-289.07	0.00	0.00	0.00
2,700.00	29.19	14.45	2,521.17	747.30	325.36	-299.61	0.00	0.00	0.00
2,800.00	29.19	14.45	2,608.47	794.53	337.53	-310.16	0.00	0.00	0.00
2,900.00	29.19	14.45	2,695.78	841.75	349.70	-320.71	0.00	0.00	0.00
3,000.00	29.19	14.45	2,783.08	888.98	361.87	-331.26	0.00	0.00	0.00
3,100.00	29.19	14.45	2,870.38	936.21	374.04	-341.80	0.00	0.00	0.00
3,200.00	29.19	14.45	2,957.68	983.44	386.21	-352.35	0.00	0.00	0.00
3,300.00	29.19	14.45	3,044.98	1,030.66	398.38	-362.90	0.00	0.00	0.00
3,400.00	29.19	14.45	3,132.28	1,077.89	410.55	-373.45	0.00	0.00	0.00
3,500.00	29.19	14.45	3,219.58	1,125.12	422.72	-384.00	0.00	0.00	0.00
3,600.00	29.19	14.45	3,306.88	1,172.35	434.89	-394.54	0.00	0.00	0.00
3,700.00	29.19	14.45	3,394.18	1,219.58	447.06	-405.09	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 1W4NCM
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 1W4NCM	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
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)	
3,800.00	29.19	14.45	3,481.48	1,266.80	459.23	-415.64	0.00	0.00	0.00	
3,900.00	29.19	14.45	3,568.78	1,314.03	471.40	-426.19	0.00	0.00	0.00	
4,000.00	29.19	14.45	3,656.08	1,361.26	483.57	-436.73	0.00	0.00	0.00	
4,100.00	29.19	14.45	3,743.38	1,408.49	495.74	-447.28	0.00	0.00	0.00	
4,200.00	29.19	14.45	3,830.68	1,455.72	507.91	-457.83	0.00	0.00	0.00	
4,300.00	29.19	14.45	3,917.99	1,502.94	520.08	-468.38	0.00	0.00	0.00	
4,312.62	29.19	14.45	3,929.00	1,508.90	521.62	-469.71	0.00	0.00	0.00	
Parkman Sandstone										
4,400.00	29.19	14.45	4,005.29	1,550.17	532.25	-478.92	0.00	0.00	0.00	
4,500.00	29.19	14.45	4,092.59	1,597.40	544.42	-489.47	0.00	0.00	0.00	
4,600.00	29.19	14.45	4,179.89	1,644.63	556.59	-500.02	0.00	0.00	0.00	
4,700.00	29.19	14.45	4,267.19	1,691.86	568.76	-510.57	0.00	0.00	0.00	
4,800.00	29.19	14.45	4,354.49	1,739.08	580.93	-521.11	0.00	0.00	0.00	
4,899.10	29.19	14.45	4,441.00	1,785.88	592.99	-531.57	0.00	0.00	0.00	
Sussex Sandstone										
4,900.00	29.19	14.45	4,441.79	1,786.31	593.10	-531.66	0.00	0.00	0.00	
5,000.00	29.19	14.45	4,529.09	1,833.54	605.27	-542.21	0.00	0.00	0.00	
5,100.00	29.19	14.45	4,616.39	1,880.77	617.44	-552.76	0.00	0.00	0.00	
5,200.00	29.19	14.45	4,703.69	1,927.99	629.61	-563.30	0.00	0.00	0.00	
5,300.00	29.19	14.45	4,790.99	1,975.22	641.78	-573.85	0.00	0.00	0.00	
5,400.00	29.19	14.45	4,878.29	2,022.45	653.95	-584.40	0.00	0.00	0.00	
5,500.00	29.19	14.45	4,965.59	2,069.68	666.12	-594.95	0.00	0.00	0.00	
5,600.00	29.19	14.45	5,052.89	2,116.91	678.29	-605.50	0.00	0.00	0.00	
5,700.00	29.19	14.45	5,140.20	2,164.13	690.46	-616.04	0.00	0.00	0.00	
5,770.80	29.19	14.45	5,202.00	2,197.57	699.08	-623.51	0.00	0.00	0.00	
Shannon Sandstone										
5,800.00	29.19	14.45	5,227.50	2,211.36	702.63	-626.59	0.00	0.00	0.00	
5,900.00	29.19	14.45	5,314.80	2,258.59	714.80	-637.14	0.00	0.00	0.00	
6,000.00	29.19	14.45	5,402.10	2,305.82	726.97	-647.69	0.00	0.00	0.00	
6,100.00	29.19	14.45	5,489.40	2,353.05	739.14	-658.23	0.00	0.00	0.00	
6,200.00	29.19	14.45	5,576.70	2,400.27	751.31	-668.78	0.00	0.00	0.00	
6,300.00	29.19	14.45	5,664.00	2,447.50	763.48	-679.33	0.00	0.00	0.00	
6,400.00	29.19	14.45	5,751.30	2,494.73	775.65	-689.88	0.00	0.00	0.00	
6,500.00	29.19	14.45	5,838.60	2,541.96	787.82	-700.42	0.00	0.00	0.00	
6,600.00	29.19	14.45	5,925.90	2,589.19	799.99	-710.97	0.00	0.00	0.00	
6,700.00	29.19	14.45	6,013.20	2,636.41	812.16	-721.52	0.00	0.00	0.00	
6,800.00	29.19	14.45	6,100.50	2,683.64	824.33	-732.07	0.00	0.00	0.00	
6,900.00	29.19	14.45	6,187.80	2,730.87	836.50	-742.61	0.00	0.00	0.00	
7,000.00	29.19	14.45	6,275.10	2,778.10	848.67	-753.16	0.00	0.00	0.00	
7,100.00	29.19	14.45	6,362.41	2,825.33	860.84	-763.71	0.00	0.00	0.00	
7,200.00	29.19	14.45	6,449.71	2,872.55	873.01	-774.26	0.00	0.00	0.00	
7,244.03	29.19	14.45	6,488.14	2,893.35	878.37	-778.90	0.00	0.00	0.00	
KOP @ 7244.03ft :: DLS = 9°/100'										
7,250.00	29.09	13.37	6,493.36	2,896.17	879.07	-779.50	9.00	-1.64	-18.17	
7,300.00	28.63	4.08	6,537.17	2,919.95	882.74	-782.35	9.00	-0.93	-18.56	
7,350.00	28.80	354.72	6,581.05	2,943.91	882.48	-781.28	9.00	0.35	-18.73	
7,400.00	29.61	345.64	6,624.71	2,967.88	878.30	-776.28	9.00	1.62	-18.16	
7,450.00	31.00	337.15	6,667.90	2,991.72	870.23	-767.40	9.00	2.78	-16.98	
7,500.00	32.90	329.43	6,710.34	3,015.29	858.32	-754.69	9.00	3.80	-15.44	
7,550.00	35.22	322.54	6,751.77	3,038.44	842.64	-738.23	9.00	4.65	-13.78	
7,600.00	37.89	316.45	6,791.95	3,061.03	823.28	-718.11	9.00	5.34	-12.18	
7,650.00	40.84	311.09	6,830.61	3,082.91	800.37	-694.46	9.00	5.89	-10.74	
7,700.00	44.00	306.34	6,867.53	3,103.96	774.04	-667.43	9.00	6.33	-9.49	
7,750.00	47.34	302.12	6,902.47	3,124.04	744.47	-637.19	9.00	6.68	-8.43	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 1W4NCM
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 1W4NCM	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
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)
7,800.00	50.82	298.35	6,935.22	3,143.02	711.83	-603.91	9.00	6.96	-7.56
7,840.50	53.72	295.55	6,960.00	3,157.53	683.27	-574.88	9.00	7.16	-6.89
Sharon Springs									
7,850.00	54.41	294.93	6,965.57	3,160.81	676.31	-567.81	9.00	7.26	-6.57
7,895.57	57.76	292.08	6,991.00	3,175.87	641.63	-532.64	9.00	7.35	-6.26
Niobrara A									
7,900.00	58.09	291.81	6,993.35	3,177.27	638.15	-529.11	9.00	7.43	-6.00
7,950.00	61.84	288.93	7,018.38	3,192.31	597.58	-488.05	9.00	7.50	-5.75
8,000.00	65.64	286.25	7,040.50	3,205.84	554.85	-444.88	9.00	7.61	-5.36
8,050.00	69.49	283.73	7,059.57	3,217.78	510.21	-399.86	9.00	7.70	-5.05
8,100.00	73.38	281.33	7,075.49	3,228.05	463.95	-353.28	9.00	7.77	-4.80
8,150.00	77.29	279.03	7,088.15	3,236.59	416.36	-305.42	9.00	7.82	-4.61
8,200.00	81.21	276.79	7,097.48	3,243.34	367.71	-256.57	9.00	7.86	-4.47
8,250.00	85.16	274.61	7,103.41	3,248.26	318.32	-207.04	9.00	7.88	-4.37
8,300.00	89.11	272.44	7,105.91	3,251.33	268.49	-157.14	9.00	7.90	-4.32
8,311.32	90.00	271.96	7,106.00	3,251.76	257.18	-145.82	9.00	7.90	-4.31
End Build/TPZ @ 8311.32ft - Niobrara B									
8,400.00	90.00	271.96	7,106.00	3,254.79	168.55	-57.14	0.00	0.00	0.00
8,500.00	90.00	271.96	7,106.00	3,258.21	68.61	42.86	0.00	0.00	0.00
8,600.00	90.00	271.96	7,106.00	3,261.62	-31.33	142.86	0.00	0.00	0.00
8,700.00	90.00	271.96	7,106.00	3,265.04	-131.27	242.86	0.00	0.00	0.00
8,800.00	90.00	271.96	7,106.00	3,268.45	-231.21	342.86	0.00	0.00	0.00
8,900.00	90.00	271.96	7,106.00	3,271.87	-331.15	442.86	0.00	0.00	0.00
9,000.00	90.00	271.96	7,106.00	3,275.28	-431.10	542.86	0.00	0.00	0.00
9,100.00	90.00	271.96	7,106.00	3,278.70	-531.04	642.86	0.00	0.00	0.00
9,200.00	90.00	271.96	7,106.00	3,282.11	-630.98	742.86	0.00	0.00	0.00
9,300.00	90.00	271.96	7,106.00	3,285.53	-730.92	842.86	0.00	0.00	0.00
9,400.00	90.00	271.96	7,106.00	3,288.94	-830.86	942.86	0.00	0.00	0.00
9,500.00	90.00	271.96	7,106.00	3,292.36	-930.80	1,042.86	0.00	0.00	0.00
9,600.00	90.00	271.96	7,106.00	3,295.77	-1,030.75	1,142.86	0.00	0.00	0.00
9,700.00	90.00	271.96	7,106.00	3,299.19	-1,130.69	1,242.86	0.00	0.00	0.00
9,800.00	90.00	271.96	7,106.00	3,302.60	-1,230.63	1,342.86	0.00	0.00	0.00
9,900.00	90.00	271.96	7,106.00	3,306.02	-1,330.57	1,442.86	0.00	0.00	0.00
10,000.00	90.00	271.96	7,106.00	3,309.43	-1,430.51	1,542.86	0.00	0.00	0.00
10,100.00	90.00	271.96	7,106.00	3,312.85	-1,530.45	1,642.86	0.00	0.00	0.00
10,200.00	90.00	271.96	7,106.00	3,316.26	-1,630.40	1,742.86	0.00	0.00	0.00
10,300.00	90.00	271.96	7,106.00	3,319.68	-1,730.34	1,842.86	0.00	0.00	0.00
10,400.00	90.00	271.96	7,106.00	3,323.09	-1,830.28	1,942.86	0.00	0.00	0.00
10,500.00	90.00	271.96	7,106.00	3,326.51	-1,930.22	2,042.86	0.00	0.00	0.00
10,600.00	90.00	271.96	7,106.00	3,329.92	-2,030.16	2,142.86	0.00	0.00	0.00
10,700.00	90.00	271.96	7,106.00	3,333.34	-2,130.10	2,242.86	0.00	0.00	0.00
10,800.00	90.00	271.96	7,106.00	3,336.75	-2,230.05	2,342.86	0.00	0.00	0.00
10,900.00	90.00	271.96	7,106.00	3,340.17	-2,329.99	2,442.86	0.00	0.00	0.00
11,000.00	90.00	271.96	7,106.00	3,343.58	-2,429.93	2,542.86	0.00	0.00	0.00
11,100.00	90.00	271.96	7,106.00	3,347.00	-2,529.87	2,642.86	0.00	0.00	0.00
11,200.00	90.00	271.96	7,106.00	3,350.41	-2,629.81	2,742.86	0.00	0.00	0.00
11,300.00	90.00	271.96	7,106.00	3,353.83	-2,729.75	2,842.86	0.00	0.00	0.00
11,400.00	90.00	271.96	7,106.00	3,357.24	-2,829.70	2,942.86	0.00	0.00	0.00
11,500.00	90.00	271.96	7,106.00	3,360.66	-2,929.64	3,042.86	0.00	0.00	0.00
11,600.00	90.00	271.96	7,106.00	3,364.07	-3,029.58	3,142.86	0.00	0.00	0.00
11,700.00	90.00	271.96	7,106.00	3,367.49	-3,129.52	3,242.86	0.00	0.00	0.00
11,800.00	90.00	271.96	7,106.00	3,370.90	-3,229.46	3,342.86	0.00	0.00	0.00
11,900.00	90.00	271.96	7,106.00	3,374.32	-3,329.40	3,442.86	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 1W4NCM
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 1W4NCM	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
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)
12,000.00	90.00	271.96	7,106.00	3,377.73	-3,429.35	3,542.86	0.00	0.00	0.00
12,100.00	90.00	271.96	7,106.00	3,381.15	-3,529.29	3,642.86	0.00	0.00	0.00
12,200.00	90.00	271.96	7,106.00	3,384.56	-3,629.23	3,742.86	0.00	0.00	0.00
12,300.00	90.00	271.96	7,106.00	3,387.98	-3,729.17	3,842.86	0.00	0.00	0.00
12,400.00	90.00	271.96	7,106.00	3,391.39	-3,829.11	3,942.86	0.00	0.00	0.00
12,500.00	90.00	271.96	7,106.00	3,394.81	-3,929.05	4,042.86	0.00	0.00	0.00
12,600.00	90.00	271.96	7,106.00	3,398.22	-4,029.00	4,142.86	0.00	0.00	0.00
12,700.00	90.00	271.96	7,106.00	3,401.64	-4,128.94	4,242.86	0.00	0.00	0.00
12,800.00	90.00	271.96	7,106.00	3,405.05	-4,228.88	4,342.86	0.00	0.00	0.00
12,900.00	90.00	271.96	7,106.00	3,408.47	-4,328.82	4,442.86	0.00	0.00	0.00
13,000.00	90.00	271.96	7,106.00	3,411.88	-4,428.76	4,542.86	0.00	0.00	0.00
13,100.00	90.00	271.96	7,106.00	3,415.30	-4,528.70	4,642.86	0.00	0.00	0.00
13,200.00	90.00	271.96	7,106.00	3,418.71	-4,628.65	4,742.86	0.00	0.00	0.00
13,300.00	90.00	271.96	7,106.00	3,422.13	-4,728.59	4,842.86	0.00	0.00	0.00
13,400.00	90.00	271.96	7,106.00	3,425.54	-4,828.53	4,942.86	0.00	0.00	0.00
13,500.00	90.00	271.96	7,106.00	3,428.96	-4,928.47	5,042.86	0.00	0.00	0.00
13,600.00	90.00	271.96	7,106.00	3,432.37	-5,028.41	5,142.86	0.00	0.00	0.00
13,700.00	90.00	271.96	7,106.00	3,435.79	-5,128.35	5,242.86	0.00	0.00	0.00
13,800.00	90.00	271.96	7,106.00	3,439.20	-5,228.30	5,342.86	0.00	0.00	0.00
13,900.00	90.00	271.96	7,106.00	3,442.62	-5,328.24	5,442.86	0.00	0.00	0.00
14,000.00	90.00	271.96	7,106.00	3,446.03	-5,428.18	5,542.86	0.00	0.00	0.00
14,100.00	90.00	271.96	7,106.00	3,449.45	-5,528.12	5,642.86	0.00	0.00	0.00
14,200.00	90.00	271.96	7,106.00	3,452.86	-5,628.06	5,742.86	0.00	0.00	0.00
14,300.00	90.00	271.96	7,106.00	3,456.28	-5,728.00	5,842.86	0.00	0.00	0.00
14,400.00	90.00	271.96	7,106.00	3,459.69	-5,827.95	5,942.86	0.00	0.00	0.00
14,500.00	90.00	271.96	7,106.00	3,463.11	-5,927.89	6,042.86	0.00	0.00	0.00
14,600.00	90.00	271.96	7,106.00	3,466.52	-6,027.83	6,142.86	0.00	0.00	0.00
14,700.00	90.00	271.96	7,106.00	3,469.94	-6,127.77	6,242.86	0.00	0.00	0.00
14,800.00	90.00	271.96	7,106.00	3,473.35	-6,227.71	6,342.86	0.00	0.00	0.00
14,900.00	90.00	271.96	7,106.00	3,476.77	-6,327.65	6,442.86	0.00	0.00	0.00
15,000.00	90.00	271.96	7,106.00	3,480.18	-6,427.60	6,542.86	0.00	0.00	0.00
15,100.00	90.00	271.96	7,106.00	3,483.60	-6,527.54	6,642.86	0.00	0.00	0.00
15,200.00	90.00	271.96	7,106.00	3,487.01	-6,627.48	6,742.86	0.00	0.00	0.00
15,300.00	90.00	271.96	7,106.00	3,490.43	-6,727.42	6,842.86	0.00	0.00	0.00
15,400.00	90.00	271.96	7,106.00	3,493.85	-6,827.36	6,942.86	0.00	0.00	0.00
15,500.00	90.00	271.96	7,106.00	3,497.26	-6,927.30	7,042.86	0.00	0.00	0.00
15,600.00	90.00	271.96	7,106.00	3,500.68	-7,027.25	7,142.86	0.00	0.00	0.00
15,700.00	90.00	271.96	7,106.00	3,504.09	-7,127.19	7,242.86	0.00	0.00	0.00
15,800.00	90.00	271.96	7,106.00	3,507.51	-7,227.13	7,342.86	0.00	0.00	0.00
15,900.00	90.00	271.96	7,106.00	3,510.92	-7,327.07	7,442.86	0.00	0.00	0.00
16,000.00	90.00	271.96	7,106.00	3,514.34	-7,427.01	7,542.86	0.00	0.00	0.00
16,100.00	90.00	271.96	7,106.00	3,517.75	-7,526.95	7,642.86	0.00	0.00	0.00
16,200.00	90.00	271.96	7,106.00	3,521.17	-7,626.90	7,742.86	0.00	0.00	0.00
16,300.00	90.00	271.96	7,106.00	3,524.58	-7,726.84	7,842.86	0.00	0.00	0.00
16,400.00	90.00	271.96	7,106.00	3,528.00	-7,826.78	7,942.86	0.00	0.00	0.00
16,500.00	90.00	271.96	7,106.00	3,531.41	-7,926.72	8,042.86	0.00	0.00	0.00
16,600.00	90.00	271.96	7,106.00	3,534.83	-8,026.66	8,142.86	0.00	0.00	0.00
16,700.00	90.00	271.96	7,106.00	3,538.24	-8,126.60	8,242.86	0.00	0.00	0.00
16,800.00	90.00	271.96	7,106.00	3,541.66	-8,226.55	8,342.86	0.00	0.00	0.00
16,900.00	90.00	271.96	7,106.00	3,545.07	-8,326.49	8,442.86	0.00	0.00	0.00
17,000.00	90.00	271.96	7,106.00	3,548.49	-8,426.43	8,542.86	0.00	0.00	0.00
17,100.00	90.00	271.96	7,106.00	3,551.90	-8,526.37	8,642.86	0.00	0.00	0.00
17,200.00	90.00	271.96	7,106.00	3,555.32	-8,626.31	8,742.86	0.00	0.00	0.00
17,300.00	90.00	271.96	7,106.00	3,558.73	-8,726.25	8,842.86	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 1W4NCM
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 1W4NCM	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
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)	
17,400.00	90.00	271.96	7,106.00	3,562.15	-8,826.20	8,942.86	0.00	0.00	0.00	
17,500.00	90.00	271.96	7,106.00	3,565.56	-8,926.14	9,042.86	0.00	0.00	0.00	
17,600.00	90.00	271.96	7,106.00	3,568.98	-9,026.08	9,142.86	0.00	0.00	0.00	
17,700.00	90.00	271.96	7,106.00	3,572.39	-9,126.02	9,242.86	0.00	0.00	0.00	
17,800.00	90.00	271.96	7,106.00	3,575.81	-9,225.96	9,342.86	0.00	0.00	0.00	
17,900.00	90.00	271.96	7,106.00	3,579.22	-9,325.90	9,442.86	0.00	0.00	0.00	
18,000.00	90.00	271.96	7,106.00	3,582.64	-9,425.85	9,542.86	0.00	0.00	0.00	
18,100.00	90.00	271.96	7,106.00	3,586.05	-9,525.79	9,642.86	0.00	0.00	0.00	
18,200.00	90.00	271.96	7,106.00	3,589.47	-9,625.73	9,742.86	0.00	0.00	0.00	
18,300.00	90.00	271.96	7,106.00	3,592.88	-9,725.67	9,842.86	0.00	0.00	0.00	
18,400.00	90.00	271.96	7,106.00	3,596.30	-9,825.61	9,942.86	0.00	0.00	0.00	
18,500.00	90.00	271.96	7,106.00	3,599.71	-9,925.55	10,042.86	0.00	0.00	0.00	
18,551.44	90.00	271.96	7,106.00	3,601.47	-9,976.96	10,094.30	0.00	0.00	0.00	
TD Well @ 18551.44ft - 5 1/2" CSG										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,902.56	1,825.00	9 5/8"	9-5/8	13-1/2	
18,551.44	7,106.00	5 1/2" CSG	5-1/2	8-1/2	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
351.07	351.00	FXHL BASE				
466.38	466.00	PIERRE				
1,241.83	1,221.00	U PAWNEE				
1,750.82	1,691.00	U PAWNEE BASE				
4,312.62	3,929.00	Parkman Sandstone				
4,899.10	4,441.00	Sussex Sandstone				
5,770.80	5,202.00	Shannon Sandstone				
7,840.50	6,960.00	Sharon Springs				
7,895.57	6,991.00	Niobrara A				
8,311.32	7,106.00	Niobrara B		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
200.00	200.00	0.00	0.00	Begin Nudge @ 200.00ft	
950.00	941.46	62.75	74.78	Change Tangent @ 950.00ft	
1,896.11	1,819.37	367.63	227.53	Hold Tangent @ 1896.11ft	
7,244.03	6,488.14	2,893.35	878.37	KOP @ 7244.03ft :: DLS = 9°/100'	
8,311.32	7,106.00	3,251.76	257.18	End Build/TPZ @ 8311.32ft	
18,551.44	7,106.00	3,601.47	-9,976.97	TD Well @ 18551.44ft	

PRAIRIE OPERATING CO

WELD COUNTY, CO (NAD 83)

7N-65W-03 RUSCH PAD

RUSCH 1W4NCM

Plan A

Permit Rev-1

Anticollision Summary Report

13 October, 2024

Anticollision Summary Report

Company:	PRAIRIE OPERATING CO	Local Co-ordinate Reference:	Well RUSCH 1W4NCM
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 1W4NCM	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	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	10/13/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,825.00	Permit Rev-1 (Plan A)	ISCWSA MWD+IFR1	MWD+IFR
1,825.00	18,551.44	Permit Rev-1 (Plan A)	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	200.00	200.00	134.97	127.41	17.833	CC, ES
RUSCH 10W4CM - Plan A - Permit Rev-1	300.00	299.98	136.30	128.64	17.806	SF
RUSCH 11W4NCM - Plan A - Permit Rev-1	200.00	200.00	149.97	142.40	19.814	CC, ES
RUSCH 11W4NCM - Plan A - Permit Rev-1	300.00	299.99	151.29	143.64	19.770	SF
RUSCH 12W4NCM - Plan A - Permit Rev-1	200.00	200.00	164.97	157.40	21.796	CC, ES
RUSCH 12W4NCM - Plan A - Permit Rev-1	300.00	299.64	166.34	158.69	21.741	SF
RUSCH 13W4NAM - Plan B - Permit Rev-1	200.00	200.00	179.96	172.39	23.777	CC, ES
RUSCH 13W4NAM - Plan B - Permit Rev-1	300.00	298.72	181.56	173.91	23.735	SF
RUSCH 15W4CM - Plan A - Permit Rev-1	200.00	200.00	194.95	187.38	25.758	CC, ES
RUSCH 15W4CM - Plan A - Permit Rev-1	300.00	297.70	196.86	189.21	25.740	SF
RUSCH 2W4CM - Plan B - Permit Rev-1	200.00	200.00	15.03	7.47	1.986	CC
RUSCH 2W4CM - Plan B - Permit Rev-1	18,543.65	18,581.56	352.52	-212.74	0.624	EOU Contact, ES, SF
RUSCH 3W4NCM - Plan A - Permit Rev-1	200.00	200.00	30.03	22.46	3.967	CC
RUSCH 3W4NCM - Plan A - Permit Rev-1	18,551.44	18,192.39	611.31	-15.12	0.976	EOU Contact, ES, SF
RUSCH 4W4NAM - Plan A - Permit Rev-1	200.00	200.00	45.01	37.44	5.947	CC, ES
RUSCH 4W4NAM - Plan A - Permit Rev-1	18,551.44	18,235.60	953.08	314.08	1.492	Collision Avoidance Req., SF
RUSCH 5W4NCM - Plan A - Permit Rev-1	200.00	200.00	60.00	52.43	7.927	CC, ES
RUSCH 5W4NCM - Plan A - Permit Rev-1	18,551.44	18,041.56	1,380.75	741.23	2.159	SF
RUSCH 6W4CM - Plan C - Permit Rev-1	200.00	200.00	75.28	67.71	9.946	CC, ES
RUSCH 6W4CM - Plan C - Permit Rev-1	18,551.44	18,119.25	1,810.31	1,172.43	2.838	SF
RUSCH 7W4NCM - Plan A - Permit Rev-1	200.00	200.00	89.99	82.42	11.890	CC, ES
RUSCH 7W4NCM - Plan A - Permit Rev-1	18,551.44	17,964.79	2,052.32	1,412.52	3.208	SF
RUSCH 8W4NAM - Plan B - Permit Rev-1	200.00	200.00	104.99	97.42	13.872	CC, ES
RUSCH 8W4NAM - Plan B - Permit Rev-1	18,551.44	17,728.38	2,494.60	1,855.84	3.905	SF
RUSCH 9W4NCM - Plan A - Permit Rev-1	200.00	200.00	119.98	112.41	15.852	CC, ES
RUSCH 9W4NCM - Plan A - Permit Rev-1	300.00	299.98	121.30	113.65	15.847	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 1W4NCM
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 1W4NCM	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	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)	Distance Between Ellipses (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	7,813.90	17,613.60	248.29	88.69	1.556	CC
ELDER 17N2NBM - Plan A - Permit Rev-1	7,850.00	17,626.34	251.53	81.00	1.475	Collision Avoidance Req., ES
ELDER 17N2NBM - Plan A - Permit Rev-1	7,900.00	17,642.82	266.29	83.09	1.454	Collision Avoidance Req., SF
ELDER 18N2CM - Plan A - Permit Rev-1	7,817.64	17,789.83	466.89	307.97	2.938	CC
ELDER 18N2CM - Plan A - Permit Rev-1	7,850.00	17,801.22	468.64	304.25	2.851	ES
ELDER 18N2CM - Plan A - Permit Rev-1	7,950.00	17,832.74	495.60	316.23	2.763	SF
ELDER 19N2NCM - Plan A - Permit Rev-1	7,717.44	17,689.44	509.40	338.76	2.985	CC
ELDER 19N2NCM - Plan A - Permit Rev-1	7,750.00	17,702.44	511.07	335.83	2.916	ES
ELDER 19N2NCM - Plan A - Permit Rev-1	7,800.00	17,721.48	520.09	338.35	2.862	SF
ELDER 1W9NBM - Plan A - Permit Rev-1						Out of range
ELDER 20N2NBM - Plan A - Permit Rev-1	7,564.88	17,625.43	847.38	661.39	4.556	CC
ELDER 20N2NBM - Plan A - Permit Rev-1	7,600.00	17,641.31	848.91	660.54	4.507	ES
ELDER 20N2NBM - Plan A - Permit Rev-1	7,650.00	17,663.29	856.35	664.86	4.472	SF
ELDER 21N2NCM - Plan A - Permit Rev-1	7,515.62	17,806.00	1,384.87	1,195.06	7.296	CC
ELDER 21N2NCM - Plan A - Permit Rev-1	7,550.00	17,821.95	1,386.12	1,194.88	7.248	ES
ELDER 21N2NCM - Plan A - Permit Rev-1	7,650.00	17,866.63	1,403.90	1,208.85	7.197	SF
ELDER 23N2CM - Plan A - Permit Rev-1	7,507.61	17,996.59	1,745.99	1,555.49	9.165	CC, ES
ELDER 23N2CM - Plan A - Permit Rev-1	7,650.00	18,060.97	1,766.19	1,570.93	9.045	SF
ELDER 25N2NAM - Plan A - Permit Rev-1	7,414.83	18,025.58	2,435.76	2,238.30	12.335	CC, ES
ELDER 25N2NAM - Plan A - Permit Rev-1	7,550.00	18,089.70	2,452.87	2,252.38	12.234	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	7,464.50	17,657.92	1,793.47	1,570.62	8.048	CC
ELDER 4Y-HNB-2-07-65 - PRAIRIE PR Well - Actual Atl	7,500.00	17,668.17	1,794.76	1,570.55	8.005	ES
ELDER 4Y-HNB-2-07-65 - PRAIRIE PR Well - Actual Atl	7,600.00	17,692.00	1,812.13	1,584.43	7.959	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 1W4NCM
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 1W4NCM	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	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

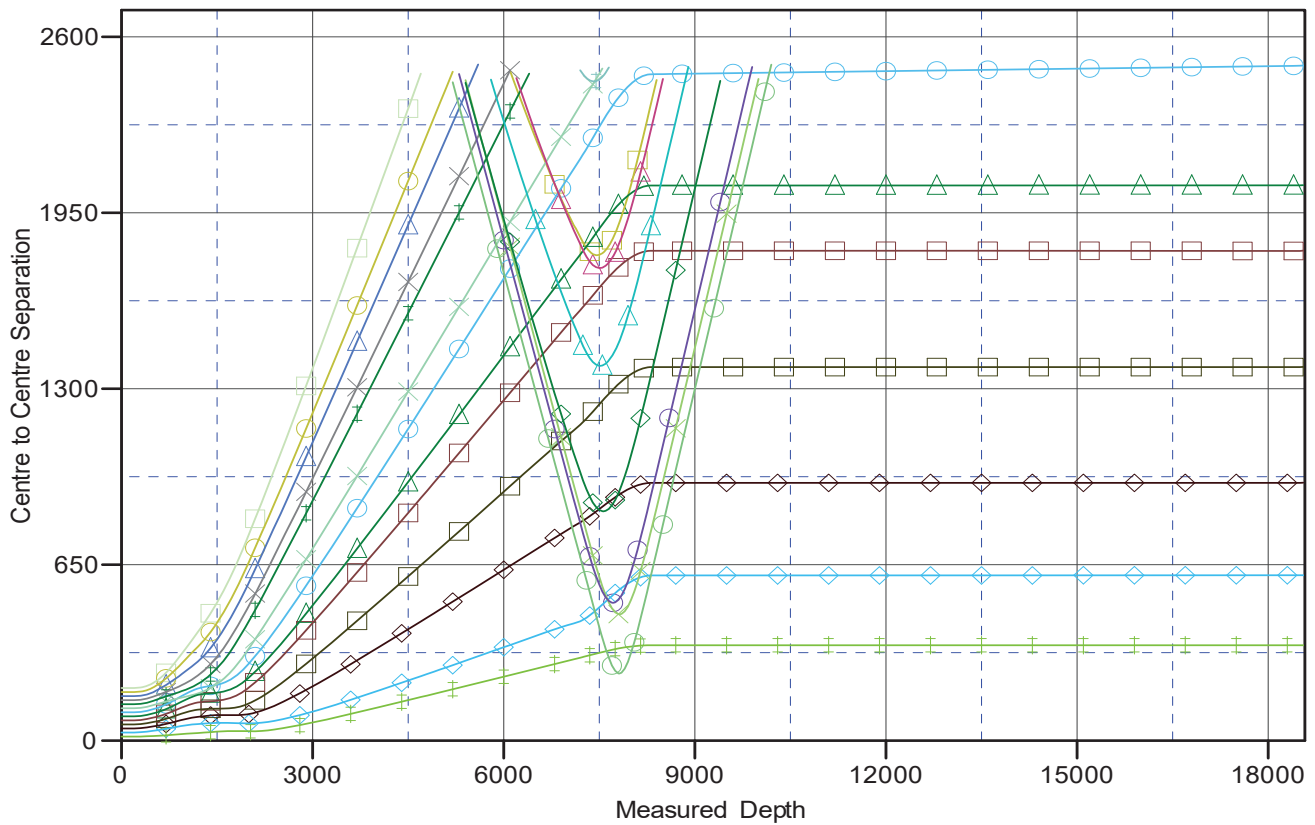
Central Meridian is -105.500000

Coordinates are relative to: RUSCH 1W4NCM

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 5WNCM, Plan A, Permit Rev-1 V0	ELDER 17N2NM, Plan A, Permit Rev-1 V0
RUSCH 15WNCM, Plan A, Permit Rev-1 V0	RUSCH 9WNCM, Plan A, Permit Rev-1 V0	ELDER 18N2CM, Plan A, Permit Rev-1 V0
RUSCH 8WNCM, Plan B, Permit Rev-1 V0	RUSCH 2WNCM, Plan B, Permit Rev-1 V0	ELDER 23N2CM, Plan A, Permit Rev-1 V0
RUSCH 110WMBM, Plan A, Permit Rev-1 V0	RUSCH 7WNCM, Plan A, Permit Rev-1 V0	ELDER 25N2NM, Plan A, Permit Rev-1 V0
RUSCH 4WNCM, Plan A, Permit Rev-1 V0	RUSCH 6WNCM, Plan C, Permit Rev-1 V0	ELDER 21N2NM, Plan A, Permit Rev-1 V0
RUSCH 3WNCM, Plan A, Permit Rev-1 V0	RUSCH 13WNCM, Plan B, Permit Rev-1 V0	ELDER 19N2NM, Plan A, Permit Rev-1 V0
RUSCH 12WNCM, Plan A, Permit Rev-1 V0	RUSCH 10WNCM, Plan A, Permit Rev-1 V0	ELDER 20N2NM, Plan A, Permit Rev-1 V0

Anticollision Summary Report

Company:	PRAIRIE OPERATING CO	Local Co-ordinate Reference:	Well RUSCH 1W4NCM
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 1W4NCM	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	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

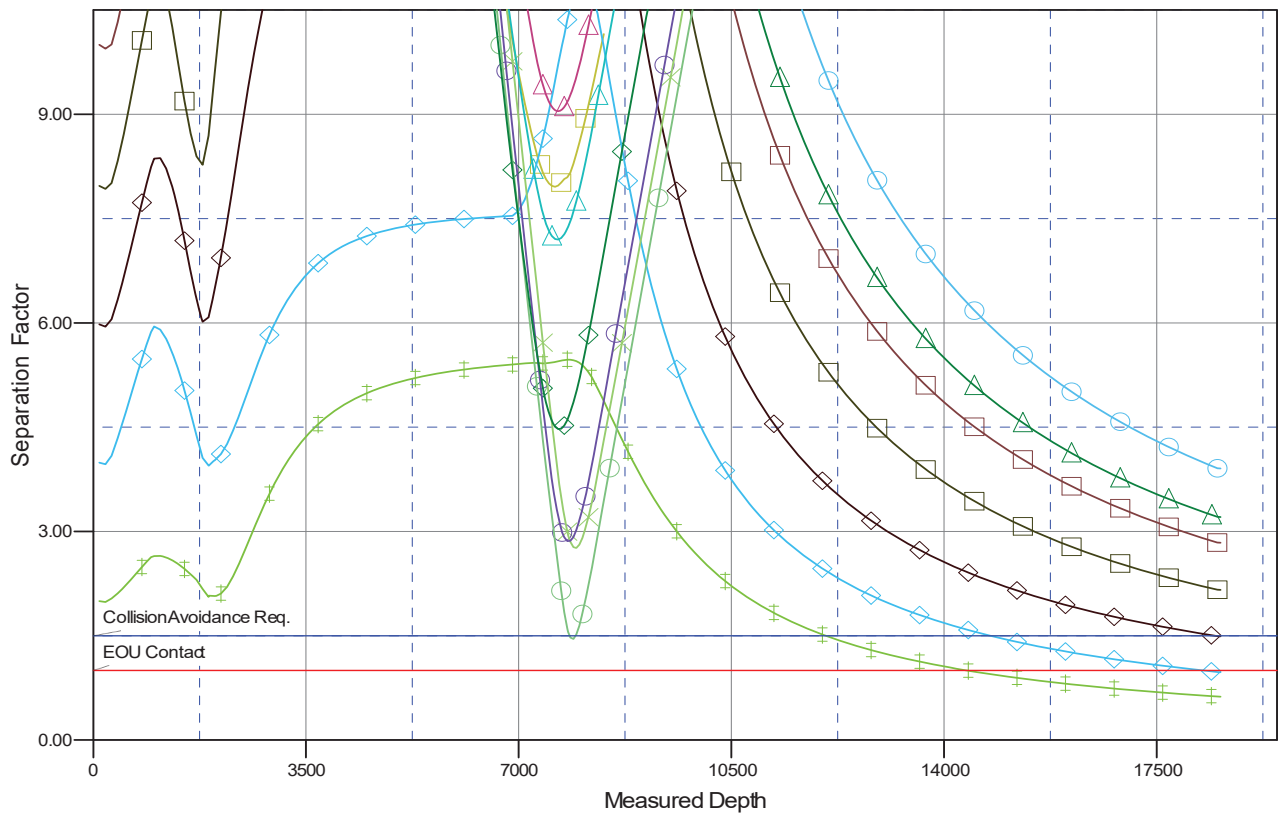
Central Meridian is -105.500000

Coordinates are relative to: RUSCH 1W4NCM

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 15WNCM, Plan A, Permit Rev-1 V0	RUSCH 9WNCM, Plan A, Permit Rev-1 V0	ELDER 18N2NCM, Plan A, Permit Rev-1 V0
RUSCH 8WNCM, Plan B, Permit Rev-1 V0	RUSCH 2WNCM, Plan B, Permit Rev-1 V0	ELDER 23N2NCM, Plan A, Permit Rev-1 V0
RUSCH 11WMBM, Plan A, Permit Rev-1 V0	RUSCH 7WNCM, Plan A, Permit Rev-1 V0	ELDER 25N2NCM, Plan A, Permit Rev-1 V0
RUSCH 4WNCM, Plan A, Permit Rev-1 V0	RUSCH 6WNCM, Plan C, Permit Rev-1 V0	ELDER 21N2NCM, Plan A, Permit Rev-1 V0
RUSCH 3WNCM, Plan A, Permit Rev-1 V0	RUSCH 13WNCM, Plan B, Permit Rev-1 V0	ELDER 19N2NCM, Plan A, Permit Rev-1 V0
RUSCH 12WNCM, Plan A, Permit Rev-1 V0	RUSCH 10WNCM, Plan A, Permit Rev-1 V0	ELDER 20N2NCM, Plan A, Permit Rev-1 V0