

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	455.50	0.00	0.00	455.50	0.00	0.00	0.00	0.00	0.00	
3	1145.00	13.79	148.77	1138.36	-70.61	42.81	2.00	148.77	-44.97	
4	6422.19	13.79	148.77	6263.44	-1146.28	694.90	0.00	0.00	-729.97	
5	7503.63	89.87	271.77	6968.00	-1271.40	60.94	9.00	122.27	-100.18	
6	17434.38	89.87	271.77	6991.00	-964.00	-9865.03	0.00	0.00	9830.55	RUSCH 16W4CM_BHL

WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	Northing	Easting	Latitude	Longitude
RUSCH 16W4CM_SHL	0.00	1462680.42	3238469.03	40.600286	-104.641219
RUSCH 16W4CM_LP/TPZ	6991.00	1461409.63	3238542.37	40.596796	-104.640999
RUSCH 16W4CM_BPZ	6990.28	1461614.33	3228923.73	40.597608	-104.675627
RUSCH 16W4CM_BHL	6991.00	1461620.93	3228613.80	40.597634	-104.676743

WELL DETAILS: RUSCH 16W4CM		Plan: Permit Rev-1 (RUSCH 16W4CM/Plan B)	
GL = 4886'			
RKB = 20' @ 4906.00usft (RIG)		Date: 3/15/2024	

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M

Azimuths to True North

Magnetic North: 7.52°

Magnetic Field

Strength: 51780.2nT

Dip Angle: 66.71°

Date: 3/15/2024

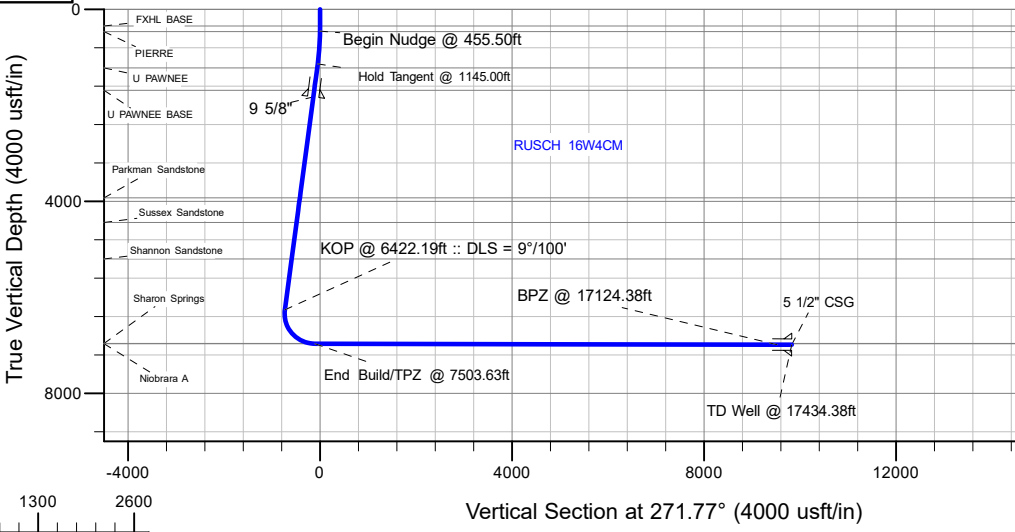
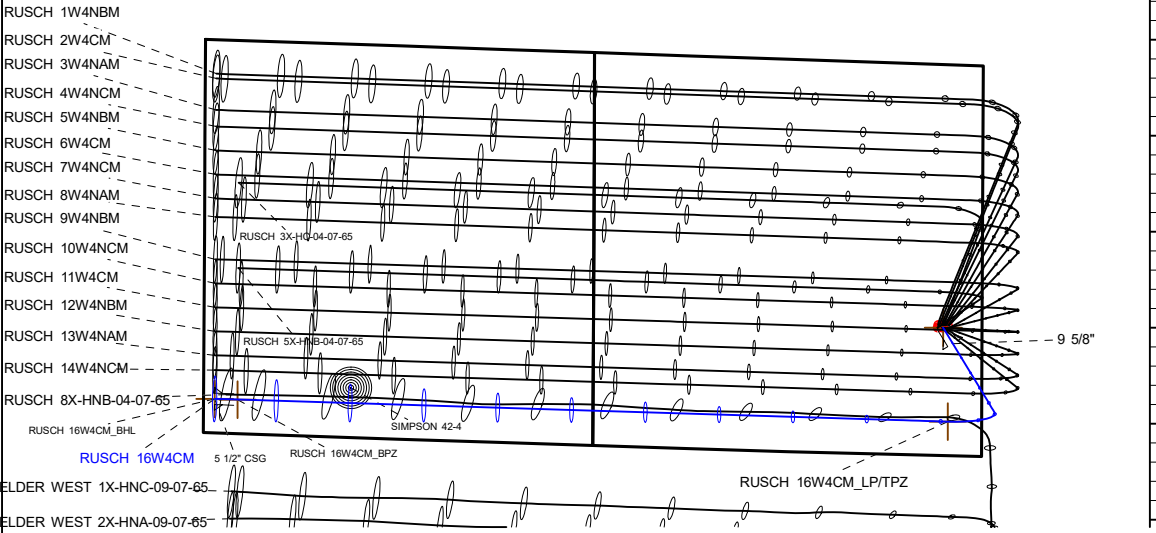
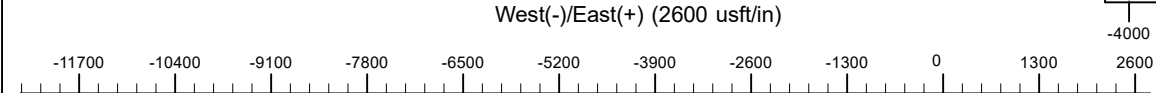
Model: IGRF2020

SHL
1731' FSL
527' FEL

LP/TPZ
460' FSL
460' FEL

BPZ
460' FSL
460' FWL

BHL
460' FSL
150' FWL



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
351.00	351.00	FXHL BASE
466.00	466.00	PIERRE
1221.00	1230.09	U PAWNEE
1691.00	1714.04	U PAWNEE BASE
3929.00	4018.46	Parkman Sandstone
4441.00	4545.66	Sussex Sandstone
5202.00	5329.24	Shannon Sandstone
6960.00	7403.01	Sharon Springs
6968.00	7502.62	Niobrara A

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 16W4CM
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 16W4CM	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 16W4CM					
Well Position	+N/-S	0.00 usft	Northing:	1,462,680.42 usft	Latitude:	40.600286
	+E/-W	0.00 usft	Easting:	3,238,469.04 usft	Longitude:	-104.641219
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	4,886.00 usft
Grid Convergence:		0.55 °				

Wellbore	Plan B				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	3/15/2024	7.52	66.71	51,780.19753834

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	271.77	

Plan Survey Tool Program	Date	3/15/2024			
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	17,434.38	Permit Rev-1 (Plan B)	ISCWSA MWD+IFR1	
				MWD+IFR	

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Project:	WELD COUNTY, CO (NAD 83)	MD Reference:	RKB = 20' @ 4906.00usft (RIG)
Site:	7N-65W-03 RUSCH PAD	North Reference:	True
Well:	RUSCH 16W4CM	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	
455.50	0.00	0.00	455.50	0.00	0.00	0.00	0.00	0.00	0.00	
1,145.00	13.79	148.77	1,138.36	-70.61	42.81	2.00	2.00	0.00	148.77	
6,422.19	13.79	148.77	6,263.44	-1,146.28	694.90	0.00	0.00	0.00	0.00	
7,503.63	89.87	271.77	6,968.00	-1,271.40	60.94	9.00	7.03	11.37	122.27	
17,434.38	89.87	271.77	6,991.00	-964.00	-9,865.03	0.00	0.00	0.00	0.00	RUSCH 16W4CM_B+

Planning Report

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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 16W4CM	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
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
351.00	0.00	0.00	351.00	0.00	0.00	0.00	0.00	0.00	0.00
FXHL BASE									
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
455.50	0.00	0.00	455.50	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 455.50ft									
466.00	0.21	148.77	466.00	-0.02	0.01	-0.01	2.00	2.00	0.00
PIERRE									
500.00	0.89	148.77	500.00	-0.30	0.18	-0.19	2.00	2.00	0.00
600.00	2.89	148.77	599.94	-3.12	1.89	-1.98	2.00	2.00	0.00
700.00	4.89	148.77	699.70	-8.92	5.41	-5.68	2.00	2.00	0.00
800.00	6.89	148.77	799.17	-17.69	10.73	-11.27	2.00	2.00	0.00
900.00	8.89	148.77	898.22	-29.43	17.84	-18.74	2.00	2.00	0.00
1,000.00	10.89	148.77	996.73	-44.12	26.74	-28.09	2.00	2.00	0.00
1,100.00	12.89	148.77	1,094.58	-61.73	37.42	-39.31	2.00	2.00	0.00
1,145.00	13.79	148.77	1,138.36	-70.61	42.81	-44.97	2.00	2.00	0.00
Hold Tangent @ 1145.00ft									
1,200.00	13.79	148.77	1,191.78	-81.82	49.60	-52.11	0.00	0.00	0.00
1,230.09	13.79	148.77	1,221.00	-87.96	53.32	-56.01	0.00	0.00	0.00
U PAWNEE									
1,300.00	13.79	148.77	1,288.89	-102.21	61.96	-65.09	0.00	0.00	0.00
1,400.00	13.79	148.77	1,386.01	-122.59	74.32	-78.07	0.00	0.00	0.00
1,500.00	13.79	148.77	1,483.13	-142.97	86.67	-91.05	0.00	0.00	0.00
1,600.00	13.79	148.77	1,580.25	-163.36	99.03	-104.03	0.00	0.00	0.00
1,700.00	13.79	148.77	1,677.37	-183.74	111.39	-117.01	0.00	0.00	0.00
1,714.04	13.79	148.77	1,691.00	-186.60	113.12	-118.83	0.00	0.00	0.00
U PAWNEE BASE									
1,800.00	13.79	148.77	1,774.48	-204.12	123.74	-129.99	0.00	0.00	0.00
1,852.02	13.79	148.77	1,825.00	-214.73	130.17	-136.74	0.00	0.00	0.00
9 5/8"									
1,900.00	13.79	148.77	1,871.60	-224.51	136.10	-142.97	0.00	0.00	0.00
2,000.00	13.79	148.77	1,968.72	-244.89	148.46	-155.95	0.00	0.00	0.00
2,100.00	13.79	148.77	2,065.84	-265.27	160.81	-168.93	0.00	0.00	0.00
2,200.00	13.79	148.77	2,162.95	-285.66	173.17	-181.91	0.00	0.00	0.00
2,300.00	13.79	148.77	2,260.07	-306.04	185.53	-194.89	0.00	0.00	0.00
2,400.00	13.79	148.77	2,357.19	-326.42	197.89	-207.87	0.00	0.00	0.00
2,500.00	13.79	148.77	2,454.31	-346.81	210.24	-220.85	0.00	0.00	0.00
2,600.00	13.79	148.77	2,551.42	-367.19	222.60	-233.83	0.00	0.00	0.00
2,700.00	13.79	148.77	2,648.54	-387.57	234.96	-246.81	0.00	0.00	0.00
2,800.00	13.79	148.77	2,745.66	-407.96	247.31	-259.80	0.00	0.00	0.00
2,900.00	13.79	148.77	2,842.78	-428.34	259.67	-272.78	0.00	0.00	0.00
3,000.00	13.79	148.77	2,939.89	-448.72	272.03	-285.76	0.00	0.00	0.00
3,100.00	13.79	148.77	3,037.01	-469.11	284.38	-298.74	0.00	0.00	0.00
3,200.00	13.79	148.77	3,134.13	-489.49	296.74	-311.72	0.00	0.00	0.00
3,300.00	13.79	148.77	3,231.25	-509.87	309.10	-324.70	0.00	0.00	0.00
3,400.00	13.79	148.77	3,328.36	-530.26	321.45	-337.68	0.00	0.00	0.00
3,500.00	13.79	148.77	3,425.48	-550.64	333.81	-350.66	0.00	0.00	0.00
3,600.00	13.79	148.77	3,522.60	-571.03	346.17	-363.64	0.00	0.00	0.00
3,700.00	13.79	148.77	3,619.72	-591.41	358.52	-376.62	0.00	0.00	0.00
3,800.00	13.79	148.77	3,716.83	-611.79	370.88	-389.60	0.00	0.00	0.00

Planning Report

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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 16W4CM	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)
3,900.00	13.79	148.77	3,813.95	-632.18	383.24	-402.58	0.00	0.00	0.00
4,000.00	13.79	148.77	3,911.07	-652.56	395.59	-415.56	0.00	0.00	0.00
4,018.46	13.79	148.77	3,929.00	-656.32	397.88	-417.96	0.00	0.00	0.00
Parkman Sandstone									
4,100.00	13.79	148.77	4,008.19	-672.94	407.95	-428.54	0.00	0.00	0.00
4,200.00	13.79	148.77	4,105.30	-693.33	420.31	-441.52	0.00	0.00	0.00
4,300.00	13.79	148.77	4,202.42	-713.71	432.67	-454.50	0.00	0.00	0.00
4,400.00	13.79	148.77	4,299.54	-734.09	445.02	-467.48	0.00	0.00	0.00
4,500.00	13.79	148.77	4,396.66	-754.48	457.38	-480.46	0.00	0.00	0.00
4,545.66	13.79	148.77	4,441.00	-763.78	463.02	-486.39	0.00	0.00	0.00
Sussex Sandstone									
4,600.00	13.79	148.77	4,493.78	-774.86	469.74	-493.44	0.00	0.00	0.00
4,700.00	13.79	148.77	4,590.89	-795.24	482.09	-506.43	0.00	0.00	0.00
4,800.00	13.79	148.77	4,688.01	-815.63	494.45	-519.41	0.00	0.00	0.00
4,900.00	13.79	148.77	4,785.13	-836.01	506.81	-532.39	0.00	0.00	0.00
5,000.00	13.79	148.77	4,882.25	-856.39	519.16	-545.37	0.00	0.00	0.00
5,100.00	13.79	148.77	4,979.36	-876.78	531.52	-558.35	0.00	0.00	0.00
5,200.00	13.79	148.77	5,076.48	-897.16	543.88	-571.33	0.00	0.00	0.00
5,300.00	13.79	148.77	5,173.60	-917.54	556.23	-584.31	0.00	0.00	0.00
5,329.24	13.79	148.77	5,202.00	-923.50	559.85	-588.10	0.00	0.00	0.00
Shannon Sandstone									
5,400.00	13.79	148.77	5,270.72	-937.93	568.59	-597.29	0.00	0.00	0.00
5,500.00	13.79	148.77	5,367.83	-958.31	580.95	-610.27	0.00	0.00	0.00
5,600.00	13.79	148.77	5,464.95	-978.69	593.30	-623.25	0.00	0.00	0.00
5,700.00	13.79	148.77	5,562.07	-999.08	605.66	-636.23	0.00	0.00	0.00
5,800.00	13.79	148.77	5,659.19	-1,019.46	618.02	-649.21	0.00	0.00	0.00
5,900.00	13.79	148.77	5,756.30	-1,039.84	630.37	-662.19	0.00	0.00	0.00
6,000.00	13.79	148.77	5,853.42	-1,060.23	642.73	-675.17	0.00	0.00	0.00
6,100.00	13.79	148.77	5,950.54	-1,080.61	655.09	-688.15	0.00	0.00	0.00
6,200.00	13.79	148.77	6,047.66	-1,100.99	667.44	-701.13	0.00	0.00	0.00
6,300.00	13.79	148.77	6,144.77	-1,121.38	679.80	-714.11	0.00	0.00	0.00
6,400.00	13.79	148.77	6,241.89	-1,141.76	692.16	-727.09	0.00	0.00	0.00
6,422.19	13.79	148.77	6,263.44	-1,146.28	694.90	-729.97	0.00	0.00	0.00
KOP @ 6422.19ft :: DLS = 9°/100'									
6,450.00	12.63	158.50	6,290.52	-1,151.95	697.73	-732.98	9.00	-4.17	34.96
6,500.00	11.64	179.51	6,339.43	-1,162.08	699.78	-735.34	9.00	-1.98	42.03
6,550.00	12.30	201.10	6,388.36	-1,172.10	697.91	-733.78	9.00	1.33	43.19
6,600.00	14.39	218.48	6,437.03	-1,181.93	692.12	-728.29	9.00	4.18	34.76
6,650.00	17.40	230.77	6,485.13	-1,191.53	682.46	-718.93	9.00	6.02	24.57
6,700.00	20.94	239.27	6,532.35	-1,200.83	668.98	-705.75	9.00	7.08	17.01
6,750.00	24.78	245.33	6,578.42	-1,209.78	651.76	-688.82	9.00	7.68	12.12
6,800.00	28.80	249.82	6,623.05	-1,218.31	630.92	-668.25	9.00	8.04	8.98
6,850.00	32.94	253.28	6,665.96	-1,226.38	606.59	-644.18	9.00	8.27	6.92
6,900.00	37.15	256.04	6,706.89	-1,233.93	578.90	-616.74	9.00	8.43	5.52
6,950.00	41.42	258.31	6,745.58	-1,240.93	548.03	-586.10	9.00	8.53	4.54
7,000.00	45.72	260.23	6,781.80	-1,247.32	514.18	-552.46	9.00	8.61	3.83
7,050.00	50.05	261.88	6,815.33	-1,253.07	477.55	-516.03	9.00	8.66	3.30
7,100.00	54.40	263.33	6,845.95	-1,258.14	438.37	-477.02	9.00	8.70	2.91
7,150.00	58.77	264.63	6,873.48	-1,262.51	396.87	-435.68	9.00	8.73	2.61
7,200.00	63.15	265.82	6,897.74	-1,266.13	353.32	-392.26	9.00	8.76	2.38
7,250.00	67.54	266.92	6,918.60	-1,269.00	307.98	-347.03	9.00	8.78	2.20
7,300.00	71.93	267.95	6,935.91	-1,271.09	261.14	-300.27	9.00	8.79	2.06
7,350.00	76.33	268.93	6,949.58	-1,272.40	213.07	-252.27	9.00	8.80	1.96

Planning Report

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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 16W4CM	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)
7,400.00	80.73	269.88	6,959.52	-1,272.90	164.09	-203.33	9.00	8.81	1.89
7,403.01	81.00	269.93	6,960.00	-1,272.91	161.11	-200.35	9.00	8.81	1.86
Sharon Springs									
7,450.00	85.14	270.80	6,965.67	-1,272.61	114.48	-153.73	9.00	8.81	1.84
7,502.62	89.78	271.76	6,968.00	-1,271.43	61.94	-101.18	9.00	8.81	1.82
Niobrara A									
7,503.63	89.87	271.77	6,968.00	-1,271.40	60.94	-100.18	9.00	8.82	1.81
End Build/TPZ @ 7503.63ft									
7,600.00	89.87	271.77	6,968.23	-1,268.42	-35.39	-3.80	0.00	0.00	0.00
7,700.00	89.87	271.77	6,968.46	-1,265.32	-135.35	96.20	0.00	0.00	0.00
7,800.00	89.87	271.77	6,968.69	-1,262.23	-235.30	196.20	0.00	0.00	0.00
7,900.00	89.87	271.77	6,968.92	-1,259.13	-335.25	296.20	0.00	0.00	0.00
8,000.00	89.87	271.77	6,969.15	-1,256.04	-435.20	396.20	0.00	0.00	0.00
8,100.00	89.87	271.77	6,969.38	-1,252.94	-535.15	496.20	0.00	0.00	0.00
8,200.00	89.87	271.77	6,969.62	-1,249.85	-635.10	596.20	0.00	0.00	0.00
8,300.00	89.87	271.77	6,969.85	-1,246.75	-735.06	696.20	0.00	0.00	0.00
8,400.00	89.87	271.77	6,970.08	-1,243.66	-835.01	796.20	0.00	0.00	0.00
8,500.00	89.87	271.77	6,970.31	-1,240.56	-934.96	896.20	0.00	0.00	0.00
8,600.00	89.87	271.77	6,970.54	-1,237.47	-1,034.91	996.20	0.00	0.00	0.00
8,700.00	89.87	271.77	6,970.77	-1,234.37	-1,134.86	1,096.20	0.00	0.00	0.00
8,800.00	89.87	271.77	6,971.01	-1,231.27	-1,234.82	1,196.19	0.00	0.00	0.00
8,900.00	89.87	271.77	6,971.24	-1,228.18	-1,334.77	1,296.19	0.00	0.00	0.00
9,000.00	89.87	271.77	6,971.47	-1,225.08	-1,434.72	1,396.19	0.00	0.00	0.00
9,100.00	89.87	271.77	6,971.70	-1,221.99	-1,534.67	1,496.19	0.00	0.00	0.00
9,200.00	89.87	271.77	6,971.93	-1,218.89	-1,634.62	1,596.19	0.00	0.00	0.00
9,300.00	89.87	271.77	6,972.16	-1,215.80	-1,734.57	1,696.19	0.00	0.00	0.00
9,400.00	89.87	271.77	6,972.39	-1,212.70	-1,834.53	1,796.19	0.00	0.00	0.00
9,500.00	89.87	271.77	6,972.63	-1,209.61	-1,934.48	1,896.19	0.00	0.00	0.00
9,600.00	89.87	271.77	6,972.86	-1,206.51	-2,034.43	1,996.19	0.00	0.00	0.00
9,700.00	89.87	271.77	6,973.09	-1,203.42	-2,134.38	2,096.19	0.00	0.00	0.00
9,800.00	89.87	271.77	6,973.32	-1,200.32	-2,234.33	2,196.19	0.00	0.00	0.00
9,900.00	89.87	271.77	6,973.55	-1,197.22	-2,334.28	2,296.19	0.00	0.00	0.00
10,000.00	89.87	271.77	6,973.78	-1,194.13	-2,434.24	2,396.19	0.00	0.00	0.00
10,100.00	89.87	271.77	6,974.02	-1,191.03	-2,534.19	2,496.19	0.00	0.00	0.00
10,200.00	89.87	271.77	6,974.25	-1,187.94	-2,634.14	2,596.19	0.00	0.00	0.00
10,300.00	89.87	271.77	6,974.48	-1,184.84	-2,734.09	2,696.19	0.00	0.00	0.00
10,400.00	89.87	271.77	6,974.71	-1,181.75	-2,834.04	2,796.19	0.00	0.00	0.00
10,500.00	89.87	271.77	6,974.94	-1,178.65	-2,934.00	2,896.19	0.00	0.00	0.00
10,600.00	89.87	271.77	6,975.17	-1,175.56	-3,033.95	2,996.19	0.00	0.00	0.00
10,700.00	89.87	271.77	6,975.41	-1,172.46	-3,133.90	3,096.19	0.00	0.00	0.00
10,800.00	89.87	271.77	6,975.64	-1,169.37	-3,233.85	3,196.19	0.00	0.00	0.00
10,900.00	89.87	271.77	6,975.87	-1,166.27	-3,333.80	3,296.19	0.00	0.00	0.00
11,000.00	89.87	271.77	6,976.10	-1,163.17	-3,433.75	3,396.19	0.00	0.00	0.00
11,100.00	89.87	271.77	6,976.33	-1,160.08	-3,533.71	3,496.19	0.00	0.00	0.00
11,200.00	89.87	271.77	6,976.56	-1,156.98	-3,633.66	3,596.19	0.00	0.00	0.00
11,300.00	89.87	271.77	6,976.79	-1,153.89	-3,733.61	3,696.19	0.00	0.00	0.00
11,400.00	89.87	271.77	6,977.03	-1,150.79	-3,833.56	3,796.19	0.00	0.00	0.00
11,500.00	89.87	271.77	6,977.26	-1,147.70	-3,933.51	3,896.19	0.00	0.00	0.00
11,600.00	89.87	271.77	6,977.49	-1,144.60	-4,033.47	3,996.19	0.00	0.00	0.00
11,700.00	89.87	271.77	6,977.72	-1,141.51	-4,133.42	4,096.19	0.00	0.00	0.00
11,800.00	89.87	271.77	6,977.95	-1,138.41	-4,233.37	4,196.19	0.00	0.00	0.00
11,900.00	89.87	271.77	6,978.18	-1,135.32	-4,333.32	4,296.19	0.00	0.00	0.00
12,000.00	89.87	271.77	6,978.42	-1,132.22	-4,433.27	4,396.19	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 16W4CM
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 16W4CM	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)
12,100.00	89.87	271.77	6,978.65	-1,129.12	-4,533.22	4,496.19	0.00	0.00	0.00
12,200.00	89.87	271.77	6,978.88	-1,126.03	-4,633.18	4,596.19	0.00	0.00	0.00
12,300.00	89.87	271.77	6,979.11	-1,122.93	-4,733.13	4,696.19	0.00	0.00	0.00
12,400.00	89.87	271.77	6,979.34	-1,119.84	-4,833.08	4,796.19	0.00	0.00	0.00
12,500.00	89.87	271.77	6,979.57	-1,116.74	-4,933.03	4,896.19	0.00	0.00	0.00
12,600.00	89.87	271.77	6,979.81	-1,113.65	-5,032.98	4,996.18	0.00	0.00	0.00
12,700.00	89.87	271.77	6,980.04	-1,110.55	-5,132.94	5,096.18	0.00	0.00	0.00
12,800.00	89.87	271.77	6,980.27	-1,107.46	-5,232.89	5,196.18	0.00	0.00	0.00
12,900.00	89.87	271.77	6,980.50	-1,104.36	-5,332.84	5,296.18	0.00	0.00	0.00
13,000.00	89.87	271.77	6,980.73	-1,101.26	-5,432.79	5,396.18	0.00	0.00	0.00
13,100.00	89.87	271.77	6,980.96	-1,098.17	-5,532.74	5,496.18	0.00	0.00	0.00
13,200.00	89.87	271.77	6,981.19	-1,095.07	-5,632.69	5,596.18	0.00	0.00	0.00
13,300.00	89.87	271.77	6,981.43	-1,091.98	-5,732.65	5,696.18	0.00	0.00	0.00
13,400.00	89.87	271.77	6,981.66	-1,088.88	-5,832.60	5,796.18	0.00	0.00	0.00
13,500.00	89.87	271.77	6,981.89	-1,085.79	-5,932.55	5,896.18	0.00	0.00	0.00
13,600.00	89.87	271.77	6,982.12	-1,082.69	-6,032.50	5,996.18	0.00	0.00	0.00
13,700.00	89.87	271.77	6,982.35	-1,079.60	-6,132.45	6,096.18	0.00	0.00	0.00
13,800.00	89.87	271.77	6,982.58	-1,076.50	-6,232.41	6,196.18	0.00	0.00	0.00
13,900.00	89.87	271.77	6,982.82	-1,073.41	-6,332.36	6,296.18	0.00	0.00	0.00
14,000.00	89.87	271.77	6,983.05	-1,070.31	-6,432.31	6,396.18	0.00	0.00	0.00
14,100.00	89.87	271.77	6,983.28	-1,067.21	-6,532.26	6,496.18	0.00	0.00	0.00
14,200.00	89.87	271.77	6,983.51	-1,064.12	-6,632.21	6,596.18	0.00	0.00	0.00
14,300.00	89.87	271.77	6,983.74	-1,061.02	-6,732.16	6,696.18	0.00	0.00	0.00
14,400.00	89.87	271.77	6,983.97	-1,057.93	-6,832.12	6,796.18	0.00	0.00	0.00
14,500.00	89.87	271.77	6,984.20	-1,054.83	-6,932.07	6,896.18	0.00	0.00	0.00
14,600.00	89.87	271.77	6,984.44	-1,051.74	-7,032.02	6,996.18	0.00	0.00	0.00
14,700.00	89.87	271.77	6,984.67	-1,048.64	-7,131.97	7,096.18	0.00	0.00	0.00
14,800.00	89.87	271.77	6,984.90	-1,045.55	-7,231.92	7,196.18	0.00	0.00	0.00
14,900.00	89.87	271.77	6,985.13	-1,042.45	-7,331.88	7,296.18	0.00	0.00	0.00
15,000.00	89.87	271.77	6,985.36	-1,039.36	-7,431.83	7,396.18	0.00	0.00	0.00
15,100.00	89.87	271.77	6,985.59	-1,036.26	-7,531.78	7,496.18	0.00	0.00	0.00
15,200.00	89.87	271.77	6,985.83	-1,033.16	-7,631.73	7,596.18	0.00	0.00	0.00
15,300.00	89.87	271.77	6,986.06	-1,030.07	-7,731.68	7,696.18	0.00	0.00	0.00
15,400.00	89.87	271.77	6,986.29	-1,026.97	-7,831.63	7,796.18	0.00	0.00	0.00
15,500.00	89.87	271.77	6,986.52	-1,023.88	-7,931.59	7,896.18	0.00	0.00	0.00
15,600.00	89.87	271.77	6,986.75	-1,020.78	-8,031.54	7,996.18	0.00	0.00	0.00
15,700.00	89.87	271.77	6,986.98	-1,017.69	-8,131.49	8,096.18	0.00	0.00	0.00
15,800.00	89.87	271.77	6,987.22	-1,014.59	-8,231.44	8,196.18	0.00	0.00	0.00
15,900.00	89.87	271.77	6,987.45	-1,011.50	-8,331.39	8,296.18	0.00	0.00	0.00
16,000.00	89.87	271.77	6,987.68	-1,008.40	-8,431.35	8,396.18	0.00	0.00	0.00
16,100.00	89.87	271.77	6,987.91	-1,005.31	-8,531.30	8,496.18	0.00	0.00	0.00
16,200.00	89.87	271.77	6,988.14	-1,002.21	-8,631.25	8,596.18	0.00	0.00	0.00
16,300.00	89.87	271.77	6,988.37	-999.11	-8,731.20	8,696.18	0.00	0.00	0.00
16,400.00	89.87	271.77	6,988.60	-996.02	-8,831.15	8,796.17	0.00	0.00	0.00
16,500.00	89.87	271.77	6,988.84	-992.92	-8,931.10	8,896.17	0.00	0.00	0.00
16,600.00	89.87	271.77	6,989.07	-989.83	-9,031.06	8,996.17	0.00	0.00	0.00
16,700.00	89.87	271.77	6,989.30	-986.73	-9,131.01	9,096.17	0.00	0.00	0.00
16,800.00	89.87	271.77	6,989.53	-983.64	-9,230.96	9,196.17	0.00	0.00	0.00
16,900.00	89.87	271.77	6,989.76	-980.54	-9,330.91	9,296.17	0.00	0.00	0.00
17,000.00	89.87	271.77	6,989.99	-977.45	-9,430.86	9,396.17	0.00	0.00	0.00
17,100.00	89.87	271.77	6,990.23	-974.35	-9,530.82	9,496.17	0.00	0.00	0.00
17,124.38	89.87	271.77	6,990.28	-973.60	-9,555.18	9,520.55	0.00	0.00	0.00
BPZ @ 17124.38ft									
17,200.00	89.87	271.77	6,990.46	-971.26	-9,630.77	9,596.17	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well RUSCH 16W4CM
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 16W4CM	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)	
17,300.00	89.87	271.77	6,990.69	-968.16	-9,730.72	9,696.17	0.00	0.00	0.00	
17,400.00	89.87	271.77	6,990.92	-965.06	-9,830.67	9,796.17	0.00	0.00	0.00	
17,434.38	89.87	271.77	6,991.00	-964.00	-9,865.03	9,830.55	0.00	0.00	0.00	
TD Well @ 17434.38ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,852.02	1,825.00	9 5/8"	9-5/8	13-1/2	
17,434.38	6,991.00	5 1/2" CSG	5-1/2	8-1/2	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
351.00	351.00	FXHL BASE				
466.00	466.00	PIERRE				
1,230.09	1,221.00	U PAWNEE				
1,714.04	1,691.00	U PAWNEE BASE				
4,018.46	3,929.00	Parkman Sandstone				
4,545.66	4,441.00	Sussex Sandstone				
5,329.24	5,202.00	Shannon Sandstone				
7,403.01	6,960.00	Sharon Springs				
7,502.62	6,968.00	Niobrara A		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
455.50	455.50	0.00	0.00	Begin Nudge @ 455.50ft	
1,145.00	1,138.36	-70.61	42.81	Hold Tangent @ 1145.00ft	
6,422.19	6,263.44	-1,146.28	694.90	KOP @ 6422.19ft :: DLS = 9°/100'	
7,503.63	6,968.00	-1,271.40	60.94	End Build/TPZ @ 7503.63ft	
17,124.38	6,990.28	-973.60	-9,555.18	BPZ @ 17124.38ft	
17,434.38	6,991.00	-964.00	-9,865.03	TD Well @ 17434.38ft	

PRAIRIE OPERATING CO

WELD COUNTY, CO (NAD 83)

7N-65W-03 RUSCH PAD

RUSCH 16W4CM

Plan B

Permit Rev-1

Anticollision Summary Report

15 March, 2024

Anticollision Summary Report

Company:	PRAIRIE OPERATING CO	Local Co-ordinate Reference:	Well RUSCH 16W4CM
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 16W4CM	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:	Offset 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 1,500.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.45 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date	3/15/2024		
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	17,434.38	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 10W4NCM - Plan A - Permit Rev-2	300.00	300.00	74.98	67.32	9.795	CC, ES
RUSCH 10W4NCM - Plan A - Permit Rev-2	400.00	398.21	75.83	68.05	9.747	SF
RUSCH 11W4CM - Plan A - Permit Rev-2	400.00	400.00	59.70	51.92	7.669	CC, ES
RUSCH 11W4CM - Plan A - Permit Rev-2	17,434.38	17,927.96	1,282.77	672.20	2.101	SF
RUSCH 12W4NBM - Plan A - Permit Rev-2	404.20	404.20	29.99	22.20	3.849	CC, ES
RUSCH 12W4NBM - Plan A - Permit Rev-2	17,434.38	17,779.29	930.06	309.50	1.499	Collision Avoidance Req., SF
RUSCH 13W4NAM - Plan A - Permit Rev-2	406.69	406.69	15.00	7.20	1.924	CC
RUSCH 13W4NAM - Plan A - Permit Rev-2	17,434.38	17,717.18	601.12	-19.03	0.969	EOU Contact, ES, SF
RUSCH 14W4NCM - Plan A - Permit Rev-2	455.50	455.50	15.00	7.12	1.904	CC
RUSCH 14W4NCM - Plan A - Permit Rev-2	17,434.38	17,912.92	457.79	-90.61	0.835	EOU Contact, ES, SF
RUSCH 1W4NBM - Plan A - Permit Rev-2	200.00	200.00	75.94	68.37	10.033	CC, ES
RUSCH 1W4NBM - Plan A - Permit Rev-2	300.00	298.74	76.76	69.10	10.028	SF
RUSCH 2W4CM - Plan A - Permit Rev-2	200.00	200.00	63.05	55.49	8.331	CC, ES
RUSCH 2W4CM - Plan A - Permit Rev-2	300.00	299.60	63.30	55.65	8.270	SF
RUSCH 3W4NAM - Plan A - Permit Rev-2	200.00	200.00	41.45	33.88	5.477	CC, ES, SF
RUSCH 3X-HC-04-07-65 - NICKEL ROAD Permit - Plann	455.50	458.50	35.84	27.96	4.550	CC, ES
RUSCH 3X-HC-04-07-65 - NICKEL ROAD Permit - Plann	500.00	503.00	36.09	28.13	4.538	SF
RUSCH 4W4NCM - Plan A - Permit Rev-2	204.36	204.36	35.73	28.16	4.719	CC, ES
RUSCH 4W4NCM - Plan A - Permit Rev-2	300.00	299.51	36.06	28.41	4.711	SF
RUSCH 5W4NBM - Plan A - Permit Rev-2	205.80	205.80	41.74	34.17	5.512	CC, ES
RUSCH 5W4NBM - Plan A - Permit Rev-2	300.00	299.45	41.99	34.34	5.486	SF
RUSCH 5X-HNB-04-07-65 - NICKEL ROAD Permit - Pla	455.50	458.50	75.26	67.38	9.555	CC, ES
RUSCH 5X-HNB-04-07-65 - NICKEL ROAD Permit - Pla	500.00	503.00	75.44	67.49	9.486	SF
RUSCH 6W4CM - Plan B - Permit Rev-1	205.36	205.36	51.24	43.67	6.767	CC, ES
RUSCH 6W4CM - Plan B - Permit Rev-1	300.00	299.33	51.49	43.84	6.728	SF
RUSCH 7W4NCM - Plan A - Permit Rev-2	208.85	208.85	75.93	68.35	10.024	CC
RUSCH 7W4NCM - Plan A - Permit Rev-2	300.00	299.55	75.98	68.33	9.927	ES, SF
RUSCH 8W4NAM - Plan A - Permit Rev-2	209.35	209.35	89.57	81.99	11.824	CC
RUSCH 8W4NAM - Plan A - Permit Rev-2	300.00	299.50	89.62	81.96	11.707	ES, SF
RUSCH 9W4NBM - Plan B - Permit Rev-1	216.33	216.33	89.97	82.39	11.870	CC
RUSCH 9W4NBM - Plan B - Permit Rev-1	300.00	299.97	89.97	82.32	11.753	ES, SF
7N-65W-04 OFFSETS						
SIMPSON 42-4 - PER P&A Well - No Surveys	15,594.78	6,982.74	207.77	-295.86	0.413	EOU Contact, CC, ES, SF

Anticollision Summary Report

Company:	PRAIRIE OPERATING CO	Local Co-ordinate Reference:	Well RUSCH 16W4CM
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 16W4CM	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:	Offset 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 OFFSETS Incomplete						
ELDER WEST 1X-HNC-09-07-65 - PRAIRIE Drilled Well	17,169.84	17,565.00	1,271.71	623.52	1.962	CC, ES, SF
ELDER WEST 2X-HNA-09-07-65 - PRAIRIE Drilled Well						Out of range
RUSCH 8X-HNB-04-07-65 - PRAIRIE PR Well - Actual A	7,198.53	8,072.10	90.42	29.76	1.491	Collision Avoidance Req., CC
RUSCH 8X-HNB-04-07-65 - PRAIRIE PR Well - Actual A	16,213.35	17,168.17	199.81	-89.23	0.691	EOU Contact, ES, SF

Anticollision Summary Report

Company:	PRAIRIE OPERATING CO	Local Co-ordinate Reference:	Well RUSCH 16W4CM
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 16W4CM	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:	Offset Datum

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

Offset Depths are relative to Offset Datum

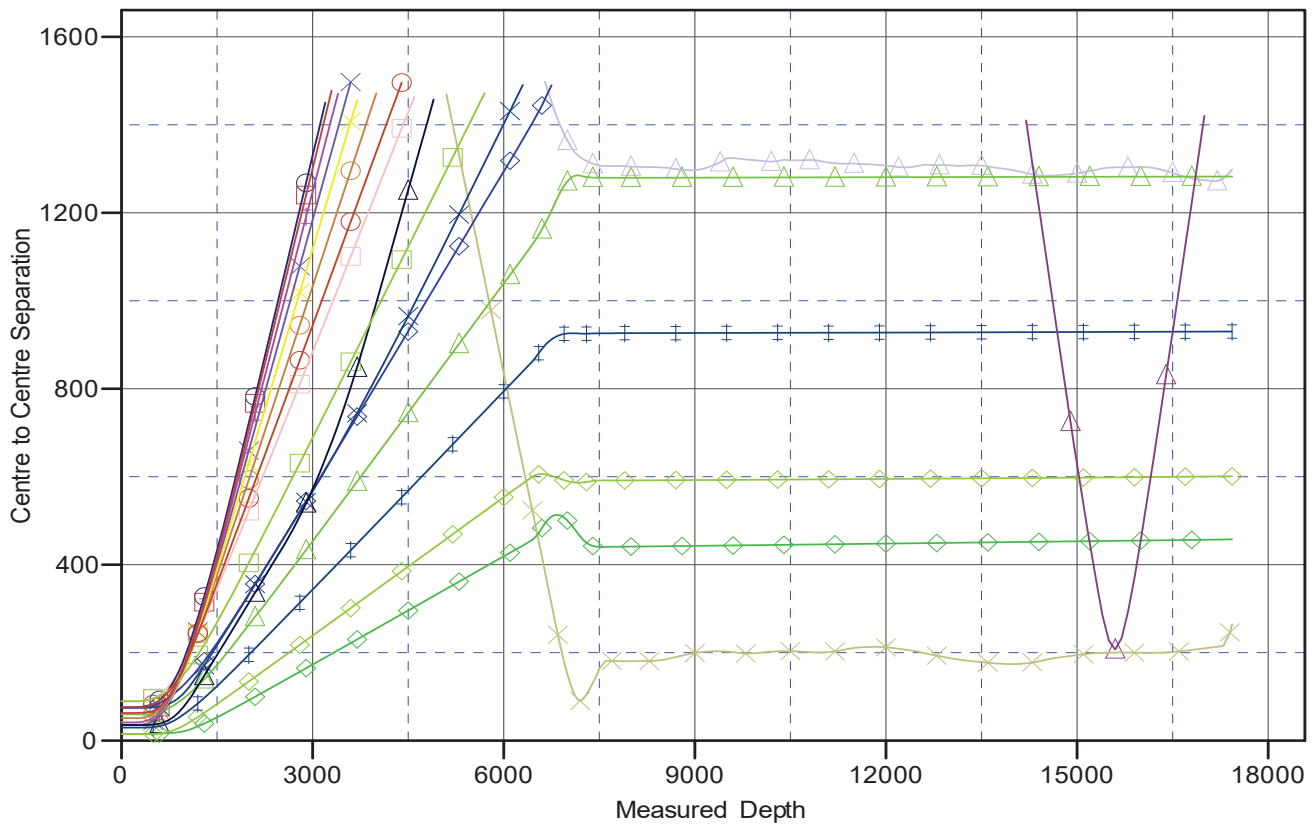
Central Meridian is -105.500000

Coordinates are relative to: RUSCH 16W4CM

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.55°

Ladder Plot



LEGEND

RUSCH 6X4NB-04-07-65, PRAIRIE PR Well, Actual Atte Surveys V0	RUSCH 5X4NB-04-07-65, NICKEL ROAD Permit, Planned NRO Surveys V0	RUSCH 12W4NB, Plan A, Permit Rev-2 V0
ELDER WEST 1X4NB-09-07-65, PRAIRIE Drilled Well, Interpolated Nickel Road Surveys V0	RUSCH 6W4CM, Plan B, Permit Rev-1 V0	RUSCH 9W4NB, Plan B, Permit Rev-1 V0
RUSCH 8W4NB, Plan A, Permit Rev-2 V0	RUSCH 13W4NB, Plan A, Permit Rev-2 V0	RUSCH 2W4CM, Plan A, Permit Rev-2 V0
RUSCH 1W4NB, Plan A, Permit Rev-2 V0	RUSCH 10W4NB, Plan A, Permit Rev-2 V0	RUSCH 7W4NB, Plan A, Permit Rev-2 V0
RUSCH 14W4NB, Plan A, Permit Rev-2 V0	RUSCH 5W4NB, Plan A, Permit Rev-2 V0	SIMPSON 4-4, PER P&A Well, No Surveys V0
RUSCH 11W4CM, Plan A, Permit Rev-2 V0	RUSCH 3X4NB-04-07-65, NICKEL ROAD Permit, Planned NRO Surveys V0	
RUSCH 4W4NB, Plan A, Permit Rev-2 V0	RUSCH 3W4NB, Plan A, Permit Rev-2 V0	

Anticollision Summary Report

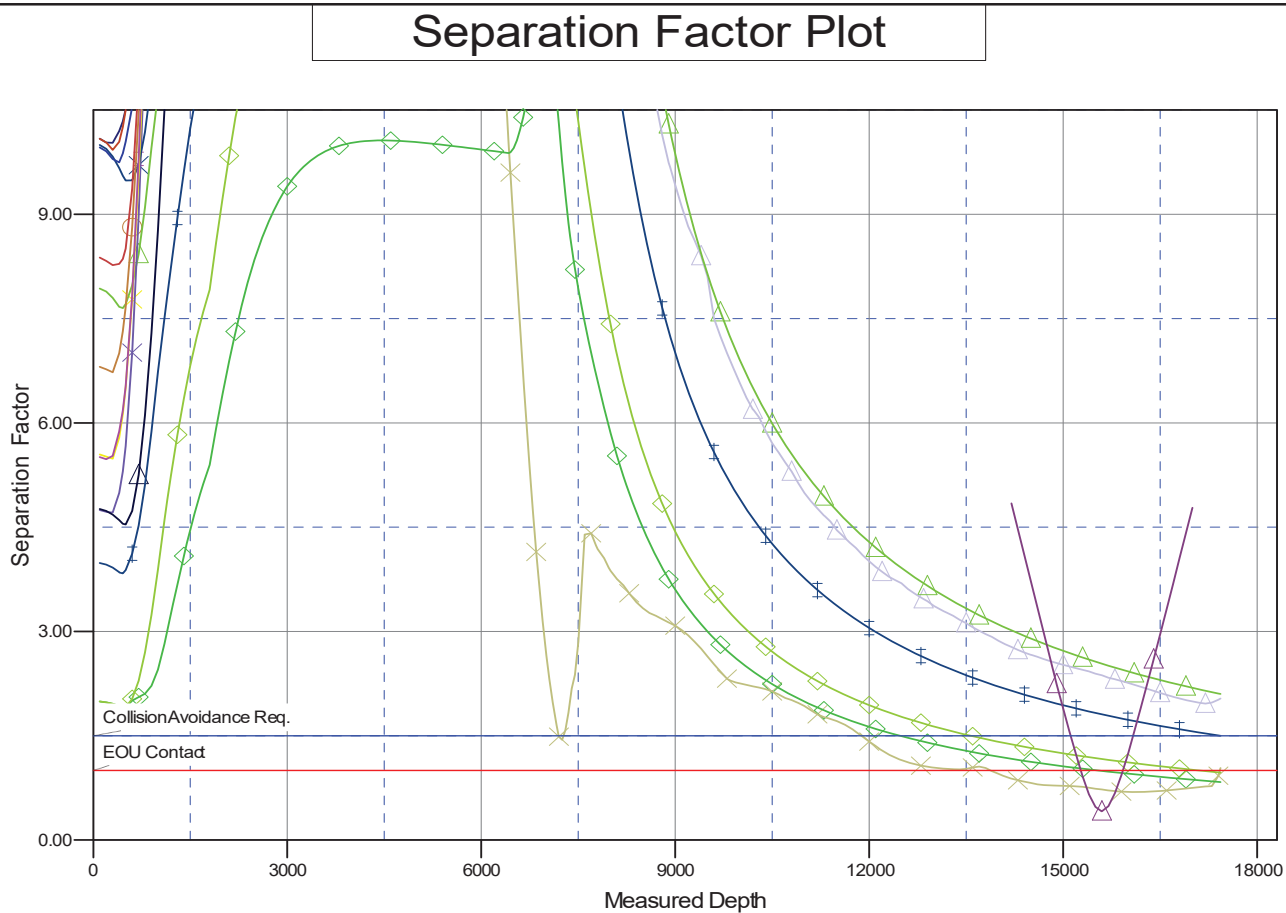
Company:	PRAIRIE OPERATING CO	Local Co-ordinate Reference:	Well RUSCH 16W4CM
Project:	WELD COUNTY, CO (NAD 83)	TVD Reference:	RKB = 20' @ 4906.00usft (RIG)
Reference Site:	7N-65W-03 RUSCH PAD	MD Reference:	RKB = 20' @ 4906.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	RUSCH 16W4CM	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:	Offset Datum

Offset Depths are relative to Offset Datum




















Coordinates are relative to: RUSCH 16W4CM

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.55°



LEGEND

- | | | | | | |
|---|---|---|---|---|--|
|  | RUSCH 8X-HNB-04-07-65, PRAIRIE PR Well, Actual Aerial Surveys V0 |  | RUSCH 5X-HNB-04-07-65, NICKEL ROAD Permit, Planned NFO Surveys V0 |  | RUSCH 12WNB, Plan A, Permit Rev-2 V0 |
|  | ELDER WEST 1X-HNC-09-07-65, PRAIRIE Drilled Well, Interpolated Nickel Road Surveys V0 |  | RUSCH 6WCM, Plan B, Permit Rev-1 V0 |  | RUSCH 9WNB, Plan B, Permit Rev-1 V0 |
|  | RUSCH 8WNB, Plan A, Permit Rev-2 V0 |  | RUSCH 13WNB, Plan A, Permit Rev-2 V0 |  | RUSCH 2WCM, Plan A, Permit Rev-2 V0 |
|  | RUSCH 11WNB, Plan A, Permit Rev-2 V0 |  | RUSCH 10WNB, Plan A, Permit Rev-2 V0 |  | RUSCH 7WNB, Plan A, Permit Rev-2 V0 |
|  | RUSCH 14WNB, Plan A, Permit Rev-2 V0 |  | RUSCH 5WNB, Plan A, Permit Rev-2 V0 |  | SIMPSON 4-4, PER P&A Well, No Surveys V0 |
|  | RUSCH 11WCM, Plan A, Permit Rev-2 V0 |  | RUSCH 3X-HC-04-07-65, NICKEL ROAD Permit, Planned NFO Surveys V0 | | |
|  | RUSCH 4WNB, Plan A, Permit Rev-2 V0 |  | RUSCH 3WNB, Plan A, Permit Rev-2 V0 | | |