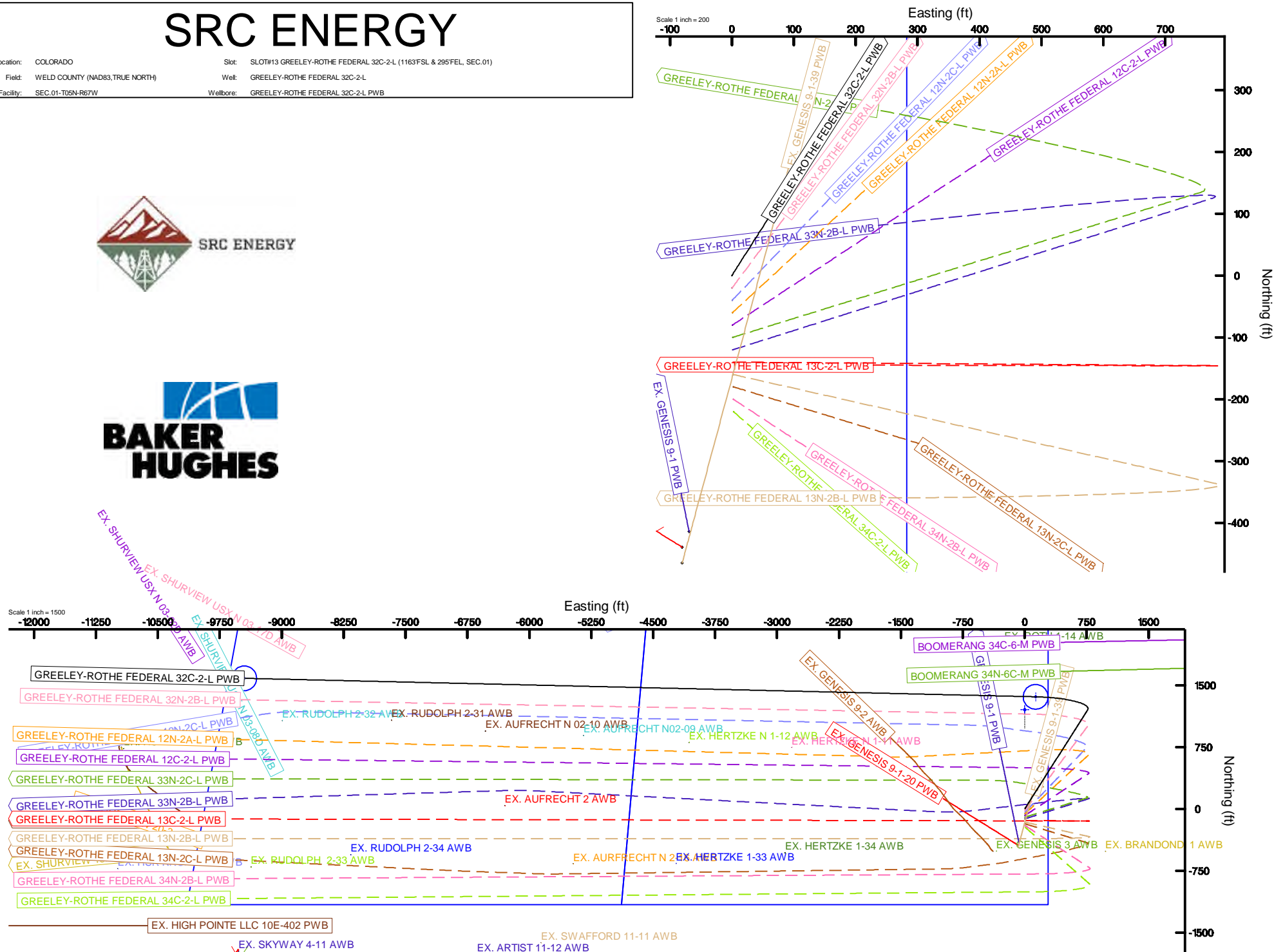


Location:	COLORADO	Slot:	SLOT#13 GREELEY-ROTHER FEDERAL 32C-2-L (1163FSL & 295FEL, SEC.01)
Field:	WELD COUNTY (NAD83,TRUE NORTH)	Well:	GREELEY-ROTHER FEDERAL 32C-2-L
Facility:	SEC.01-T05N-R67W	Wellbore:	GREELEY-ROTHER FEDERAL 32C-2-L PWB





# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Doddanna
Scale	0.999961	Report Generated	10/4/2017 at 2:17:46 PM
Convergence at slot	0.43° East	Database/Source file	WellArchitectDB/GREELEY-ROTHER FEDERAL 12C-2-L PWP REV-A.0 CR.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-1284.61	0.85	3185556.00	1398192.84	40°25'28.297"N	104°50'00.629"W
Facility Reference Pt			3185545.50	1399477.36	40°25'40.991"N	104°50'00.640"W
Field Reference Pt			3171284.48	1426358.81	40°30'07.643"N	104°53'02.634"W

## WELLPATH DATUM

Calculation method	Minimum Curvature	PRECISION 462 (20') (RKB) to Facility Vertical Datum	4892.00ft
Horizontal Reference Pt	Slot	PRECISION 462 (20') (RKB) to Mean Sea Level	4892.00ft
Vertical Reference Pt	PRECISION 462 (20') (RKB)	PRECISION 462 (20') (RKB) to Mud Line at Slot (SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01))	4892.00ft
MD Reference Pt	PRECISION 462 (20') (RKB)		
Field Vertical Reference	Mean Sea Level		

## POSITIONAL UNCERTAINTY CALCULATION SETTINGS

Ellipse Confidence Limit	3.00 Std Dev	Ellipse Start MD	20.00ft	Surface Position Uncertainty	included
Declination	8.39° East of TN	Dip Angle	66.87°	Mag Field Strength	52416 nT
Slot Surface Uncertainty @1SD		Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD		Horizontal	8.200ft	Vertical	3.000ft

Positional Uncertainty values in the WELLPATH DATA table are the projection of the ellipsoid of uncertainty onto the vertical and horizontal planes



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## ANTI-COLLISION RULE

Rule Name	Baker Hughes Stop Drilling (offset is HSE risk)	Rule Based On	Ratio
Plane of Rule	Closest Approach	Threshold Value	1.00
Include Casing & Hole Size	yes	Apply Cone of Safety	no

## HOLE & CASING SECTIONS - Ref Wellbore: GREELEY-ROTHER FEDERAL 12C-2-L PWB Ref Wellpath: GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	20.00	1750.00	1730.00	20.00	1737.00	0.00	0.00	97.12	147.39
9.625in Casing Surface	20.00	1750.00	1730.00	20.00	1737.00	0.00	0.00	97.12	147.39
8.5in Open Hole	1750.00	17366.24	15616.24	1737.00	7124.00	97.12	147.39	686.49	-9632.55

## SURVEY PROGRAM - Ref Wellbore: GREELEY-ROTHER FEDERAL 12C-2-L PWB Ref Wellpath: GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	1750.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 12C-2-L PWB
1750.00	17366.24	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 12C-2-L PWB



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CALCULATION RANGE & CUTOFF

From: 20.00ft MD	To: 17366.24ft MD	C-C Cutoff: 1000.00 ft
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## OFFSET WELL CLEARANCE SUMMARY (59 Offset Wellpaths selected) Ratios are calculated in Closest Approach plane

Offset Facility	Offset Slot	Offset Well	Offset Wellbore	Offset Wellpath	C-C Clearance Distance			ACR Separation Ratio			
					Ref MD [ft]	Min C-C Clear Dist [ft]	Diverging from MD [ft]	Ref MD of Min Ratio [ft]	Min Ratio	Min Ratio Dvrg from [ft]	ACR Status
SEC.01-T05N-R67W	SLOT#18 GREELEY-ROTHER FEDERAL 33N-2C-L (1063'FSL & 294'FEL, SEC.01)	GREELEY-ROTHER FEDERAL 33N-2C-L	GREELEY-ROTHER FEDERAL 33N-2C-L PWB	GREELEY-ROTHER FEDERAL 33N-2C-L PWP (REV-A.0)	20.00	20.04	8220.00	17366.24	0.29	17366.24	FAIL
SEC.01-T05N-R67W	SLOT#02 EX. HERTZKE N 1-11 (2012'FSL & 1864'FWL, CODL/SI)	EX. HERTZKE N 1-11	EX. HERTZKE N 1-11 AWB	EX. HERTZKE N 1-11 AWP	10558.95	217.11	10558.95	10562.27	0.44	10562.27	FAIL
SEC.01-T05N-R67W	SLOT#03 EX. HERTZKE N 1-12 (2116'FSL & 619'FWL, CODL/PR)	EX. HERTZKE N 1-12	EX. HERTZKE N 1-12 AWB	EX. HERTZKE N 1-12 AWP	11802.19	262.59	11802.19	11807.32	0.48	11807.32	FAIL
SEC.01-T05N-R67W	SLOT#15 GREELEY-ROTHER FEDERAL 12N-2C-L (1123'FSL & 294'FEL, SEC.01)	GREELEY-ROTHER FEDERAL 12N-2C-L	GREELEY-ROTHER FEDERAL 12N-2C-L PWB	GREELEY-ROTHER FEDERAL 12N-2C-L PWP (REV-A.0)	20.00	39.77	17291.50	17291.50	0.54	17291.50	FAIL
SEC.02-T05N-R67W	SLOT#03 EX. AUFRECHT N02-09 (2217'FSL & 660'FEL, CODL/SI)	EX. AUFRECHT N02-09	EX. AUFRECHT N02-09 AWB	EX. AUFRECHT N02-09 AWP	13081.02	331.46	13081.02	13086.26	0.55	13086.26	FAIL
SEC.02-T05N-R67W	SLOT#02 EX. AUFRECHT N 02-10 (2252'FSL & 1849'FEL, CODL/PR)	EX. AUFRECHT N 02-10	EX. AUFRECHT N 02-10 AWB	EX. AUFRECHT N 02-10 AWP	14271.25	373.29	14271.25	14278.26	0.57	14278.26	FAIL
SEC.01-T05N-R67W	SLOT#19 GREELEY-ROTHER FEDERAL 33N-2B-L (1043'FSL & 294'FEL, SEC.01)	GREELEY-ROTHER FEDERAL 33N-2B-L	GREELEY-ROTHER FEDERAL 33N-2B-L PWB	GREELEY-ROTHER FEDERAL 33N-2B-L PWP (REV-A.0)	20.00	40.08	13820.00	17366.24	0.58	17366.24	FAIL
SEC.02-T5N-R67W	SLOT#06 EX. RUDOLPH 2-32 (2335'FSL & 740'FWL, CODL/PR)	EX. RUDOLPH 2-32	EX. RUDOLPH 2-32 AWB	EX. RUDOLPH 2-32 AWP	16733.75	472.67	16733.75	16742.07	0.61	16742.07	FAIL
SEC.01-T05N-R67W	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)	GREELEY-ROTHER FEDERAL 12N-2A-L	GREELEY-ROTHER FEDERAL 12N-2A-L PWB	GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)	20.00	19.74	9220.00	17331.81	0.62	17331.81	FAIL
SEC.02-T5N-R67W	SLOT#05 EX. RUDOLPH 2-31 (2387'FSL & 2058'FWL, NB-CD/PR)	EX. RUDOLPH 2-31	EX. RUDOLPH 2-31 AWB	EX. RUDOLPH 2-31 AWP	15411.45	491.13	15411.45	15420.00	0.69	15420.00	FAIL
SEC.01-T05N-R67W	SLOT#20 GREELEY-ROTHER FEDERAL 13C-2-L (1023'FSL & 294'FEL, SEC.01)	GREELEY-ROTHER FEDERAL 13C-2-L	GREELEY-ROTHER FEDERAL 13C-2-L PWB	GREELEY-ROTHER FEDERAL 13C-2-L PWP (REV-A.0)	20.00	60.12	400.00	17366.24	0.76	17366.24	FAIL
SEC.01-T05N-R67W	SLOT#14 GREELEY-ROTHER FEDERAL 32N-2B-L (1143'FSL & 294'FEL, SEC.01)	GREELEY-ROTHER FEDERAL 32N-2B-L	GREELEY-ROTHER FEDERAL 32N-2B-L PWB	GREELEY-ROTHER FEDERAL 32N-2B-L PWP (REV-A.0)	20.00	59.81	220.00	17261.02	0.81	17261.02	FAIL
SEC.02-T05N-R67W	SLOT#01 EX. AUFRECHT 2 (1374'FSL & 1370'FEL, CODL/AB)	EX. AUFRECHT 2	EX. AUFRECHT 2 AWB	EX. AUFRECHT 2 AWP	14025.00	529.79	14025.00	14037.23	0.82	14037.23	FAIL
SEC.01-T05N-R67W	SLOT#13 GREELEY-ROTHER FEDERAL 32C-2-L (1163'FSL & 295'FEL, SEC.01)	GREELEY-ROTHER FEDERAL 32C-2-L	GREELEY-ROTHER FEDERAL 32C-2-L PWB	GREELEY-ROTHER FEDERAL 32C-2-L PWP (REV-A.0)	20.00	79.85	120.00	17220.00	1.04	17220.00	PASS
SEC.01-T05N-R67W	SLOT#21 GREELEY-ROTHER FEDERAL 13N-2B-L (1003'FSL & 294'FEL, SEC.01)	GREELEY-ROTHER FEDERAL 13N-2B-L	GREELEY-ROTHER FEDERAL 13N-2B-L PWB	GREELEY-ROTHER FEDERAL 13N-2B-L PWP (REV-A.0)	20.00	80.16	400.00	17366.24	1.05	17366.24	PASS
SEC.01-T05N-R67W	SLOT#22 GREELEY-ROTHER FEDERAL 13N-2C-L (983'FSL & 294'FEL, SEC.01)	GREELEY-ROTHER FEDERAL 13N-2C-L	GREELEY-ROTHER FEDERAL 13N-2C-L PWB	GREELEY-ROTHER FEDERAL 13N-2C-L PWP (REV-A.0)	20.00	100.20	17366.24	17366.24	1.29	17366.24	PASS
SEC.01-T05N-R67W	SLOT#23 GREELEY-ROTHER FEDERAL 34N-2B-L (963'FSL & 294'FEL, SEC.01)	GREELEY-ROTHER FEDERAL 34N-2B-L	GREELEY-ROTHER FEDERAL 34N-2B-L PWB	GREELEY-ROTHER FEDERAL 34N-2B-L PWP (REV-A.0)	20.00	120.23	400.00	17366.24	1.55	17366.24	PASS
SEC.02-T05N-R67W	SLOT#04 EX. RUDOLPH 2-34 (732'FSL & 1921'FWL, NB-CD/PR)	EX. RUDOLPH 2-34	EX. RUDOLPH 2-34 AWB	EX. RUDOLPH 2-34 AWP	15885.94	1145.04	15885.94	15937.04	1.56	15937.04	PASS
SEC.02-T05N-R67W	SLOT#03 EX. RUDOLPH 2-33 (740'FSL & 640'FWL, NB-CD/PR)	EX. RUDOLPH 2-33	EX. RUDOLPH 2-33 AWB	EX. RUDOLPH 2-33 AWP	17091.56	1307.27	17091.56	17153.75	1.66	17153.75	PASS
SEC.01-T05N-R67W	SLOT#24 GREELEY-ROTHER FEDERAL 34C-2-L (943'FSL & 294'FEL, SEC.01)	GREELEY-ROTHER FEDERAL 34C-2-L	GREELEY-ROTHER FEDERAL 34C-2-L PWB	GREELEY-ROTHER FEDERAL 34C-2-L PWP (REV-A.0)	20.00	140.27	400.00	17366.24	1.77	17366.24	PASS
SEC.01-T05N-R67W	SLOT#05 EX. GENESIS 9-2 (656'FSL & 673'FEL, JNBCD/PR)	EX. GENESIS 9-2	EX. GENESIS 9-2 AWB	EX. GENESIS 9-2 AWP	9326.07	311.48	9326.07	9361.02	1.80	9361.02	PASS
SEC.02-T05N-R67W	SLOT#06 EX. AUFRECHT N 2-16 (660'FSL & 660'FEL, CODL/PR)	EX. AUFRECHT N 2-16	EX. AUFRECHT N 2-16 AWB	EX. AUFRECHT N 2-16 AWP	13188.12	1226.11	13188.12	13263.23	2.01	13263.23	PASS
SEC.03-T05N-R67W	SLOT#04 EX. SHURVIEW 33C-3HZ (2016'FSL & 1191'FEL, CODL/PR)	EX. SHURVIEW 33C-3HZ	EX. SHURVIEW 33C-3HZ AWB	EX. SHURVIEW 33C-3HZ AWP	17366.24	932.47	17366.24	17366.24	2.17	17366.24	PASS
	SLOT#26 EX. HERTZKE1-34 (766'FSL & 1975'FWL, CODL/SI)	EX. HERTZKE 1-34	EX. HERTZKE 1-34 AWB	EX. HERTZKE 1-34 AWP	10625.00	1065.39	10625.00	10702.73	2.17	10702.73	PASS

OFFSET WELL CLEARANCE SUMMARY (59 Offset Wellpaths selected) Ratios are calculated in Closest Approach plane											
Offset Facility	Offset Slot	Offset Well	Offset Wellbore	Offset Wellpath	C-C Clearance Distance			ACR Separation Ratio			
					Ref MD [ft]	Min C-C Clear Dist [ft]	Diverging from MD [ft]	Ref MD of Min Ratio [ft]	Min Ratio	Min Ratio Dvrg from [ft]	ACR Status
SEC.01-T05N-R67W											
SEC.01-T05N-R67W	SLOT#25 EX. HERTZKE 1-33 (660'FSL & 641'FWL, CODL/SI)	EX. HERTZKE 1-33	EX. HERTZKE 1-33 AWB	EX. HERTZKE 1-33 AWP	11945.00	1208.36	11945.00	12020.00	2.19	12020.00	PASS



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHE FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHE FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHE FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CALCULATION RANGE & CUTOFF

From: 20.00ft MD	To: 17366.24ft MD	C-C Cutoff: 1000.00 ft
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## OFFSET WELL CLEARANCE SUMMARY (59 Offset Wellpaths selected) Ratios are calculated in Closest Approach plane

Offset Facility	Offset Slot	Offset Well	Offset Wellbore	Offset Wellpath	C-C Clearance Distance			ACR Separation Ratio			
					Ref MD [ft]	Min C-C Clear Dist [ft]	Diverging from MD [ft]	Ref MD of Min Ratio [ft]	Min Ratio	Min Ratio Dvrg from [ft]	ACR Status
SEC.02-T05N-R67W	SLOT#04 EX. E. JOHNSON FEDERAL 2-23 (2129'FNL & 498'FWL, CODL/SI)	EX. E JOHNSON FEDERAL 2-23	EX. E JOHNSON FEDERAL 2-23 AWB	EX. E JOHNSON FEDERAL 2-23 AWP	16735.00	1906.27	16735.00	16876.49	2.46	16876.49	PASS
SEC.01-T05N-R67W	SLOT#01 EX. GENESIS 3 (660'FSL & 660'FEL, CODL/PR)	EX. GENESIS 3	EX. GENESIS 3 AWB	EX. GENESIS 3 AWP	20.00	552.43	8020.00	8150.73	2.64	8150.73	PASS
SEC.01-T05N-R67W	SLOT#03 EX. GENESIS 9-1-20 (725'FSL & 378'FEL, XX)	EX. GENESIS 9-1-20	EX. GENESIS 9-1-20 PWB	EX. GENESIS 9-1-20 PWP	20.00	368.63	8720.00	8743.73	2.70	8743.73	PASS
SEC.02-T05N-R67W	SLOT#05 EX. E. JOHNSON FEDERAL 2-24 (2074'FNL & 1707'FWL, CODL/PR)	EX. E JOHNSON FEDERAL 2-24	EX. E JOHNSON FEDERAL 2-24 AWB	EX. E JOHNSON FEDERAL 2-24 AWP	15452.50	1949.13	15452.50	15620.00	2.73	15620.00	PASS
SEC.03-T05N-R67W	SLOT#07 EX. HSR KNOX 16-3 (527'FSL & 831'FEL, NB-CD/AB)	EX. HSR KNOX 16-3	EX. HSR KNOX 16-3 AWB	EX. HSR KNOX 16-3 AWP	17366.24	1899.48	17366.24	17366.24	2.88	17366.24	PASS
SEC.11-T05N-R67W	SLOT#03 EX. SKYWAY 4-11 (470'FNL & 604'FWL, NB-CD/PR)	EX. SKYWAY 4-11	EX. SKYWAY 4-11 AWB	EX. SKYWAY 4-11 AWP	17232.50	2332.52	17232.50	17366.24	2.92	17366.24	PASS
SEC.06-T05N-R66W	SLOT#01 EX. BRANDONDI 1 (682'FSL & 666'FWL, NB-CD/SI)	EX. BRANDONDI 1	EX. BRANDONDI 1 AWB	EX. BRANDONDI 1 AWP	4295.62	900.62	4295.62	6753.07	2.93	6753.07	PASS
SEC.01-T05N-R67W	SLOT#02 EX. GENESIS 9-1 (750'FSL & 377'FEL, XX)	EX. GENESIS 9-1	EX. GENESIS 9-1 PWB	EX. GENESIS 9-1 PWP	8065.43	335.08	8065.43	8107.30	2.99	8107.30	PASS
SEC.05-T05N-R66W	SLOT#12 BOOMERANG 34N-6C-M (1511'FNL & 2327'FWL, SEC.05)	BOOMERANG 34N-6C-M	BOOMERANG 34N-6C-M PWB	BOOMERANG 34N-6C-M PWP	7335.00	1179.03	7335.00	7311.34	3.07	7311.34	PASS
SEC.02-T05N-R67W	SLOT#01 EX. AUFRECHT 1 (1368'FNL & 1287'FEL, J-CDL/PR)	EX. AUFRECHT 1	EX. AUFRECHT 1 AWB	EX. AUFRECHT 1 AWP	14045.00	2131.84	14045.00	14257.76	3.27	14257.76	PASS
SEC.01-T05N-R67W	SLOT#04 EX. GENESIS 9-1-39 (700'FSL & 378'FEL, XX)	EX. GENESIS 9-1-39	EX. GENESIS 9-1-39 PWB	EX. GENESIS 9-1-39 PWP	7638.75	326.41	7638.75	7663.65	3.37	7663.65	PASS
SEC.03-T05N-R67W	SLOT#03 EX. SHURVIEW 13N-3HZ (1999'FSL & 1164'FEL, NBRR/PR)	EX. SHURVIEW 13N-3HZ	EX. SHURVIEW 13N-3HX AWB	EX. SHURVIEW 13N-3HX AWP	17366.24	1449.52	17366.24	17366.24	3.37	17366.24	PASS
SEC.03-T05N-R67W	SLOT#02 EX. HSR-KNOX 9-3 (1981'FSL & 701'FEL, JNBCD/SI)	EX. HSR KNOX 9-3	EX. HSR KNOX 9-3 AWB	EX. HSR KNOX 9-3 AWP	17366.24	1290.66	17366.24	17366.24	3.37	17366.24	PASS
SEC.11-T05N-R67W	SLOT#05 EX. SWAFFORD 11-11 (307'FNL & 993'FEL, NB-CD/PR)	EX. SWAFFORD 11-11	EX. SWAFFORD 11-11 AWB	EX. SWAFFORD 11-11 AWP	13570.00	2190.26	13570.00	13800.90	3.47	13800.90	PASS
SEC.11-T05N-R67W	SLOT#01 EX. ARTIST 11-12 (458'FNL & 1774'FEL, CODL/PR)	EX. ARTIST 11-12	EX. ARTIST 11-12 AWB	EX. ARTIST 11-12 AWP	14338.59	2335.90	14338.59	14585.34	3.50	14585.34	PASS
SEC.03-T05N-R67W	SLOT#05 EX. SHURVIEW USX N 03-08D (2130'FNL & 1940'FEL, NB-CD/SI)	EX. SHURVIEW USX N 03-08D	EX. SHURVIEW USX N 03-08D AWB	EX. SHURVIEW USX N 03-08D AWP	17366.24	1845.22	17366.24	17366.24	3.53	17366.24	PASS
SEC.10-T05N-R67W	SLOT#02 EX. PHILLIPS 1 (650'FNL & 643'FEL, CODL/PR)	EX. PHILLIPS 1	EX. PHILLIPS 1 AWB	EX. PHILLIPS 1 AWP	17366.24	2804.16	17366.24	17366.24	3.71	17366.24	PASS
SEC.10-T05N-R67W	SLOT#01 EX. HIGH POINTE LLC 10E-402 (739'FNL & 425'FWL, XX)	EX. HIGH POINTE LLC 10E-402	EX. HIGH POINTE LLC 10E-402 PWB	EX. HIGH POINTE LLC 10E-402 PWP	17366.24	2252.10	17366.24	17366.24	3.76	17366.24	PASS
SEC.03-T05N-R67W	SLOT#02 EX. KNOX 32-3 (2270'FNL & 1839'FEL, JSND/SI)	EX. KNOX 32-3	EX. KNOX 32-3 AWB	EX. KNOX 32-3 AWP	17366.24	2492.68	17366.24	17366.24	3.79	17366.24	PASS
SEC.01-T05N-R67W	SLOT#04 EX. HERTZKE N 1-7 (2072'FNL & 1816'FEL, CODL/SI)	EX. HERTZKE N 1-7	EX. HERTZKE N 1-7 AWB	EX. HERTZKE N 1-7 AWP	9295.00	1679.15	9295.00	9520.00	3.85	9520.00	PASS
SEC.05-T05N-R66W	SLOT#10 BOOMERANG 34C-6-M (1496'FNL & 2327'FWL, SEC.05)	BOOMERANG 34C-6-M	BOOMERANG 34C-6-M PWB	BOOMERANG 34C-6-M PWP	7385.29	1530.84	7385.29	7391.22	3.95	7391.22	PASS
SEC.01-T05N-R67W	SLOT#06 EX. ROTH 1-14 (2257'FNL & 505'FEL, NB-CD/PR)	EX. ROTH 1-14	EX. ROTH 1-14 AWB	EX. ROTH 1-14 AWP	7995.00	1516.27	7995.00	8192.97	3.97	8192.97	PASS
SEC.02-T5N-R67W	Slot #3 Aufrecht N 2-7	Aufrecht N 2-7	Aufrecht N2-7 AWB	Aufrecht N2-7 AWP	14255.00	1650.75	14255.00	14432.16	4.25	14432.16	PASS
SEC.02-T5N-R67W	Slot #4 Aufrecht N 2-8	Aufrecht N 2-8	Aufrecht N 2-8 AWB	Aufrecht N 2-8 AWP	12835.70	1615.55	12835.70	13106.59	4.65	13106.59	PASS
	SLOT#02 EX. SKYWAY 3-11 (489'FNL & 627'FWL, NB-CD/PR)	EX. SKYWAY 3-11	EX. SKYWAY 3-11 AWB	EX. SKYWAY 3-11 AWP	15857.50	2509.08	15857.50	16161.43	5.28	16161.43	PASS

**OFFSET WELL CLEARANCE SUMMARY** (59 Offset Wellpaths selected) Ratios are calculated in Closest Approach plane

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# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CALCULATION RANGE & CUTOFF

From: 20.00ft MD	To: 17366.24ft MD	C-C Cutoff: 1000.00 ft
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## OFFSET WELL CLEARANCE SUMMARY (59 Offset Wellpaths selected) Ratios are calculated in Closest Approach plane

Offset Facility	Offset Slot	Offset Well	Offset Wellbore	Offset Wellpath	C-C Clearance Distance			ACR Separation Ratio			
					Ref MD [ft]	Min C-C Clear Dist [ft]	Diverging from MD [ft]	Ref MD of Min Ratio [ft]	Min Ratio	Min Ratio Dvrg from [ft]	ACR Status
SEC.03-T05N-R67W	SLOT#06 EX. SHURVIEW USX N 03-17D (2085'FNL & 1928'FEL, NB-CD/SI)	EX. SHURVIEW USX N 03-17D	EX. SHURVIEW USX N 03-17D AWB	EX. SHURVIEW USX N 03-17D AWP	17366.24	2593.56	17366.24	17366.24	5.34	17366.24	PASS
SEC.11-T05N-R67W	SLOT#04 EX. SKYWAY FEDERAL 31-11 (450'FNL & 582'FWL, NB-CD/PR)	EX. SKYWAY FEDERAL 31-11	EX. SKYWAY FEDERAL 31-11 AWB	EX. SKYWAY FEDERAL 31-11 AWP	17366.24	3053.27	17366.24	17366.24	5.85	17366.24	PASS
SEC.11-T05N-R67W	SLOT#01 EX. SKYWAY 18-11 (507'FNL & 650'FWL, NB-CD/PR)	EX. SKYWAY 18-11	EX. SKYWAY 18-11 AWB	EX. SKYWAY 18-11 AWP	16517.50	3167.10	16517.50	16979.60	6.36	16979.60	PASS
SEC.01-T05N-R67W	SLOT#07 EX. ROTH 1-15 (963'FNL & 978'FEL, CODL/PR)	EX. ROTH 1-15	EX. ROTH 1-15 AWB	EX. ROTH 1-15 AWP	8482.50	2749.68	8482.50	9120.00	6.70	9120.00	PASS
SEC.03-T05N-R67W	SLOT#09 EX. SHURVIEW USX N 03-02D (2108'FNL & 1934'FEL, NB-CD/SI)	EX. SHURVIEW USX N 03-02D	EX. SHURVIEW USX N 03-02D AWB	EX. SHURVIEW USX N 03-02D AWP	17366.24	3442.56	17366.24	17366.24	7.26	17366.24	PASS
SEC.03-T05N-R67W	SLOT#08 EX. SHUR VIEW 20-3 (1317'FSL & 1498'FEL, NB-CD/SI)	EX. SHUR VIEW 20-3	EX. SHUR VIEW 20-3 AWB	EX. SHUR VIEW 20-3 AWP	17366.24	1949.91	17366.24	17366.24	11.18	17366.24	PASS
SEC.12-T05N-R67W	SLOT#02 EX. SHEEP 2-12 (2297'FSL & 1448'FEL, NB-CD/PR)	EX. SHEEP 2-12	EX. SHEEP 2-12 AWB	EX. SHEEP 2-12 AWP	9357.50	2423.77	9357.50	10285.43	13.56	10285.43	PASS
SEC.12-T05N-R67W	SLOT#01 EX. DETIENNE 1-12 (1960'FNL & 604'FEL, NB-CD/PR)	EX. DETIENNE 1-12	EX. DETIENNE 1-12 AWB	EX. DETIENNE 1-12 AWP	8005.00	2390.61	8005.00	9248.13	18.31	9248.13	PASS
SEC.07-T5N-R66W	SLOT#02 EX. UPRC 7-4H6 (671'FNL & 646'FWL, NB-CD/PR)	EX. UPRC 7-4H6	EX. UPRC 7-4H6 AWB	EX. UPRC 7-4H6 AWP	457.50	2135.74	457.50	8796.11	29.62	8796.11	PASS



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2C-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#18 GREELEY-ROTHER FEDERAL 33N-2C-L (1063'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 33N-2C-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	20.00	20.00	-20.04	0.31	179.12	20.04	1.56	31.79	PASS
120.00†	120.00	0.00	0.00	120.00	120.00	-20.04	0.31	179.12	20.04	1.88	20.77	PASS
220.00†	220.00	0.00	0.00	220.00	220.00	-20.04	0.31	179.12	20.04	2.45	12.85	PASS
320.00†	320.00	0.00	0.00	320.00	320.00	-20.04	0.31	179.12	20.04	3.05	9.14	PASS
400.00	400.00	0.00	0.00	400.00	400.00	-20.04	0.31	179.12	20.04	3.54	7.40	PASS
420.00†	420.00	0.04	0.06	420.00	420.00	-20.04	0.31	122.67	20.08	3.66	7.08	PASS
520.00†	519.96	1.38	2.10	520.15	520.14	-19.78	1.13	126.00	21.19	4.36	5.95	PASS
620.00†	619.78	4.65	7.05	620.40	620.30	-18.53	5.15	128.07	23.26	5.33	5.11	PASS
720.00†	719.33	9.82	14.91	720.69	720.28	-16.25	12.51	128.64	26.20	6.28	4.74	PASS
820.00†	818.50	16.91	25.66	820.99	819.95	-12.92	23.22	128.09	29.97	7.21	4.65	PASS
851.46	849.59	19.53	29.64	852.52	851.20	-11.66	27.27	127.76	31.33	7.46	4.67	PASS
920.00†	917.28	25.45	38.62	920.99	919.01	-8.86	36.31	127.26	34.43	7.97	4.78	PASS
1020.00†	1016.05	34.09	51.73	1020.89	1017.95	-4.76	49.50	126.68	38.96	8.77	4.87	PASS
1120.00†	1114.81	42.72	64.83	1120.79	1116.89	-0.66	62.69	126.22	43.49	9.63	4.91	PASS
1220.00†	1213.57	51.36	77.94	1220.68	1215.83	3.44	75.88	125.84	48.02	10.53	4.92	PASS
1320.00†	1312.33	59.99	91.04	1320.58	1314.76	7.53	89.08	125.53	52.55	11.46	4.91	PASS
1420.00†	1411.09	68.63	104.15	1420.48	1413.70	11.63	102.27	125.27	57.09	12.40	4.91	PASS
1520.00†	1509.85	77.26	117.25	1520.37	1512.64	15.73	115.46	125.05	61.62	13.37	4.89	PASS
1620.00†	1608.61	85.90	130.36	1620.27	1611.57	19.83	128.65	124.86	66.16	14.35	4.87	PASS
1720.00†	1707.37	94.53	143.46	1720.17	1710.51	23.92	141.84	124.69	70.70	15.34	4.85	PASS
1820.00†	1806.13	103.17	156.56	1820.07	1809.45	28.02	155.03	124.54	75.24	15.60	5.00	PASS
1920.00†	1904.89	111.80	169.67	1919.96	1908.39	32.12	168.23	124.41	79.77	15.70	5.27	PASS
2020.00†	2003.65	120.44	182.77	2019.86	2007.32	36.21	181.42	124.30	84.31	15.88	5.51	PASS
2120.00†	2102.41	129.07	195.88	2119.76	2106.26	40.31	194.61	124.19	88.85	16.14	5.71	PASS
2220.00†	2201.18	137.71	208.98	2219.65	2205.20	44.41	207.80	124.10	93.39	16.47	5.88	PASS
2320.00†	2299.94	146.34	222.09	2319.55	2304.13	48.51	220.99	124.01	97.93	16.87	6.01	PASS
2420.00†	2398.70	154.98	235.19	2419.45	2403.07	52.60	234.18	123.94	102.47	17.34	6.12	PASS
2520.00†	2497.46	163.61	248.29	2519.34	2502.01	56.70	247.38	123.86	107.01	17.87	6.20	PASS
2620.00†	2596.22	172.25	261.40	2619.24	2600.95	60.80	260.57	123.80	111.55	18.45	6.25	PASS
2720.00†	2694.98	180.88	274.50	2719.14	2699.88	64.90	273.76	123.74	116.09	19.08	6.28	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2C-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#18 GREELEY-ROTHER FEDERAL 33N-2C-L (1063'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 33N-2C-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2819.03	2798.82	68.99	286.95	123.68	120.63	19.75	6.30	PASS
2920.00†	2892.50	198.15	300.71	2918.93	2897.76	73.09	300.14	123.63	125.17	20.47	6.30	PASS
3020.00†	2991.26	206.79	313.82	3018.83	2996.69	77.19	313.33	123.58	129.71	21.22	6.29	PASS
3120.00†	3090.02	215.42	326.92	3118.72	3095.63	81.29	326.53	123.54	134.25	22.00	6.27	PASS
3220.00†	3188.78	224.06	340.03	3218.62	3194.57	85.38	339.72	123.50	138.80	22.81	6.25	PASS
3320.00†	3287.55	232.69	353.13	3318.52	3293.51	89.48	352.91	123.46	143.34	23.64	6.22	PASS
3420.00†	3386.31	241.33	366.23	3418.41	3392.44	93.58	366.10	123.42	147.88	24.50	6.18	PASS
3520.00†	3485.07	249.96	379.34	3518.31	3491.38	97.67	379.29	123.39	152.42	25.38	6.15	PASS
3620.00†	3583.83	258.60	392.44	3618.21	3590.32	101.77	392.48	123.35	156.96	26.28	6.11	PASS
3720.00†	3682.59	267.23	405.55	3718.10	3689.25	105.87	405.68	123.32	161.50	27.19	6.07	PASS
3820.00†	3781.35	275.87	418.65	3818.00	3788.19	109.97	418.87	123.29	166.04	28.12	6.03	PASS
3920.00†	3880.11	284.50	431.76	3917.90	3887.13	114.06	432.06	123.27	170.58	29.06	5.99	PASS
4020.00†	3978.87	293.14	444.86	4017.79	3986.07	118.16	445.25	123.24	175.12	30.02	5.95	PASS
4120.00†	4077.63	301.77	457.97	4117.69	4085.00	122.26	458.44	123.21	179.67	30.98	5.91	PASS
4220.00†	4176.39	310.41	471.07	4217.59	4183.94	126.36	471.63	123.19	184.21	31.96	5.87	PASS
4320.00†	4275.15	319.04	484.17	4317.49	4282.88	130.45	484.83	123.17	188.75	32.94	5.83	PASS
4420.00†	4373.91	327.68	497.28	4417.38	4381.81	134.55	498.02	123.15	193.29	33.93	5.80	PASS
4520.00†	4472.68	336.31	510.38	4517.28	4480.75	138.65	511.21	123.13	197.83	34.93	5.76	PASS
4620.00†	4571.44	344.95	523.49	4617.18	4579.69	142.75	524.40	123.11	202.37	35.94	5.72	PASS
4720.00†	4670.20	353.58	536.59	4717.07	4678.63	146.84	537.59	123.09	206.91	36.95	5.69	PASS
4820.00†	4768.96	362.22	549.70	4816.97	4777.56	150.94	550.78	123.07	211.46	37.97	5.66	PASS
4920.00†	4867.72	370.85	562.80	4916.87	4876.50	155.04	563.98	123.05	216.00	39.00	5.62	PASS
5020.00†	4966.48	379.49	575.91	5016.76	4975.44	159.13	577.17	123.04	220.54	40.02	5.59	PASS
5120.00†	5065.24	388.12	589.01	5116.66	5074.37	163.23	590.36	123.02	225.08	41.06	5.56	PASS
5220.00†	5164.00	396.76	602.11	5216.56	5173.31	167.33	603.55	123.01	229.62	42.10	5.53	PASS
5320.00†	5262.76	405.39	615.22	5316.45	5272.25	171.43	616.74	122.99	234.16	43.14	5.50	PASS
5420.00†	5361.52	414.03	628.32	5416.35	5371.19	175.52	629.93	122.98	238.71	44.18	5.47	PASS
5520.00†	5460.28	422.66	641.43	5516.25	5470.12	179.62	643.13	122.96	243.25	45.23	5.45	PASS
5620.00†	5559.05	431.30	654.53	5616.14	5569.06	183.72	656.32	122.95	247.79	46.28	5.42	PASS
5720.00†	5657.81	439.93	667.64	5716.04	5668.00	187.82	669.51	122.94	252.33	47.34	5.40	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2C-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#18 GREELEY-ROTHER FEDERAL 33N-2C-L (1063'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 33N-2C-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5815.94	5766.93	191.91	682.70	122.93	256.87	48.39	5.37	PASS
5920.00†	5855.33	457.20	693.85	5915.83	5865.87	196.01	695.89	122.91	261.41	49.45	5.35	PASS
6020.00†	5954.09	465.84	706.95	6015.73	5964.81	200.11	709.08	122.90	265.96	50.52	5.33	PASS
6120.00†	6052.85	474.47	720.05	6115.63	6063.75	204.21	722.28	122.89	270.50	51.58	5.30	PASS
6220.00†	6151.61	483.11	733.16	6215.52	6162.68	208.30	735.47	122.88	275.04	52.65	5.28	PASS
6320.00†	6250.37	491.74	746.26	6315.42	6261.62	212.40	748.66	122.87	279.58	53.71	5.26	PASS
6420.00†	6349.13	500.38	759.37	6418.46	6363.80	216.85	760.98	123.12	283.91	54.80	5.24	PASS
6509.39	6437.41	508.10	771.08	6513.44	6458.50	222.96	760.56	125.70	286.11	55.90	5.17	PASS
6520.00†	6447.90	509.02	772.38	6524.44	6469.43	223.81	759.61	129.89	286.30	56.07	5.16	PASS
6620.00†	6547.35	517.82	776.00	6626.14	6569.05	233.10	742.04	-147.87	287.55	57.85	5.02	PASS
6720.00†	6646.11	526.74	763.96	6724.49	6661.37	244.29	710.32	-103.79	287.89	59.56	4.88	PASS
6820.00†	6741.77	535.55	736.55	6819.77	6744.92	256.95	666.51	-90.11	287.29	61.31	4.73	PASS
6920.00†	6831.97	544.05	694.45	6912.27	6818.72	270.68	612.59	-82.50	285.67	62.86	4.58	PASS
7020.00†	6914.48	552.02	638.70	7002.32	6882.12	285.13	550.41	-77.08	282.96	64.76	4.41	PASS
7120.00†	6987.27	559.26	570.67	7090.23	6934.77	299.99	481.68	-72.81	279.09	66.55	4.23	PASS
7220.00†	7048.56	565.59	492.04	7176.33	6976.51	315.00	407.96	-69.30	273.97	68.52	4.03	PASS
7320.00†	7096.83	570.87	404.74	7260.94	7007.29	329.90	330.64	-66.37	267.53	71.38	3.78	PASS
7420.00†	7130.89	574.96	310.91	7344.38	7027.19	344.50	251.00	-63.94	259.72	74.14	3.53	PASS
7520.00†	7149.90	577.75	212.88	7426.94	7036.32	358.61	170.22	-61.97	250.49	77.02	3.27	PASS
7594.38	7154.00	578.96	138.67	7494.34	7036.97	369.77	103.77	-60.84	242.22	79.44	3.07	PASS
7620.00†	7153.92	579.24	113.05	7519.65	7036.94	373.95	78.81	-60.39	238.75	80.40	2.99	PASS
7720.00†	7153.61	580.34	13.06	7617.73	7036.85	390.12	-17.93	-58.52	225.34	84.19	2.69	PASS
7820.00†	7153.31	581.44	-86.94	7710.78	7036.77	403.64	-110.00	-56.81	213.84	87.98	2.44	PASS
7920.00†	7153.00	582.54	-186.93	7804.56	7036.68	414.23	-203.17	-55.39	205.24	92.08	2.24	PASS
8020.00†	7152.69	583.64	-286.92	7898.88	7036.59	421.80	-297.18	-54.37	199.44	96.56	2.07	PASS
8120.00†	7152.39	584.74	-386.92	7993.52	7036.50	426.29	-391.70	-53.83	196.36	101.56	1.94	PASS
8220.00†	7152.08	585.84	-486.91	8088.91	7036.42	427.67	-487.08	-53.82	195.95	107.22	1.83	PASS
8320.00†	7151.77	586.94	-586.90	8188.90	7036.33	427.84	-587.08	-54.03	196.57	113.66	1.73	PASS
8420.00†	7151.47	588.04	-686.90	8288.90	7036.23	428.02	-687.07	-54.24	197.19	120.29	1.64	PASS
8520.00†	7151.16	589.14	-786.89	8388.89	7036.14	428.20	-787.07	-54.45	197.82	127.09	1.56	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2C-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#18 GREELEY-ROTHER FEDERAL 33N-2C-L (1063'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 33N-2C-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	8488.89	7036.05	428.37	-887.06	-54.65	198.45	134.03	1.48	PASS
8720.00†	7150.54	591.34	-986.88	8588.88	7035.96	428.55	-987.06	-54.86	199.08	141.10	1.41	PASS
8820.00†	7150.24	592.44	-1086.87	8688.88	7035.87	428.72	-1087.05	-55.06	199.71	148.30	1.35	PASS
8920.00†	7149.93	593.54	-1186.86	8788.88	7035.78	428.90	-1187.05	-55.26	200.35	155.59	1.29	PASS
9020.00†	7149.62	594.64	-1286.86	8888.87	7035.68	429.08	-1287.04	-55.46	200.98	162.98	1.23	PASS
9120.00†	7149.32	595.74	-1386.85	8988.87	7035.59	429.25	-1387.04	-55.66	201.63	170.46	1.18	PASS
9220.00†	7149.01	596.84	-1486.84	9088.86	7035.50	429.43	-1487.04	-55.86	202.27	178.02	1.14	PASS
9320.00†	7148.70	597.94	-1586.84	9188.86	7035.41	429.60	-1587.03	-56.06	202.91	185.65	1.09	PASS
9420.00†	7148.40	599.04	-1686.83	9288.85	7035.32	429.78	-1687.03	-56.25	203.56	193.35	1.05	PASS
9520.00†	7148.09	600.15	-1786.82	9388.85	7035.23	429.95	-1787.02	-56.45	204.21	201.11	1.02	PASS
9620.00†	7147.78	601.25	-1886.82	9488.84	7035.13	430.13	-1887.02	-56.64	204.87	208.93	0.98	FAIL
9720.00†	7147.47	602.35	-1986.81	9588.84	7035.04	430.31	-1987.01	-56.83	205.52	216.80	0.95	FAIL
9820.00†	7147.17	603.45	-2086.81	9688.84	7034.95	430.48	-2087.01	-57.02	206.18	224.72	0.92	FAIL
9920.00†	7146.86	604.55	-2186.80	9788.83	7034.86	430.66	-2187.00	-57.21	206.84	232.70	0.89	FAIL
10020.00†	7146.55	605.65	-2286.79	9888.83	7034.77	430.83	-2287.00	-57.40	207.50	240.72	0.86	FAIL
10120.00†	7146.25	606.75	-2386.79	9988.82	7034.68	431.01	-2386.99	-57.59	208.16	248.78	0.84	FAIL
10220.00†	7145.94	607.85	-2486.78	10088.82	7034.59	431.19	-2486.99	-57.77	208.83	256.89	0.81	FAIL
10320.00†	7145.63	608.95	-2586.77	10188.81	7034.49	431.36	-2586.98	-57.96	209.50	265.03	0.79	FAIL
10420.00†	7145.33	610.05	-2686.77	10288.81	7034.40	431.54	-2686.98	-58.14	210.17	273.21	0.77	FAIL
10520.00†	7145.02	611.15	-2786.76	10388.80	7034.31	431.71	-2786.97	-58.32	210.84	281.43	0.75	FAIL
10620.00†	7144.71	612.25	-2886.75	10488.80	7034.22	431.89	-2886.97	-58.51	211.52	289.69	0.73	FAIL
10720.00†	7144.40	613.35	-2986.75	10588.79	7034.13	432.06	-2986.96	-58.69	212.19	297.98	0.71	FAIL
10820.00†	7144.10	614.45	-3086.74	10688.79	7034.04	432.24	-3086.96	-58.86	212.87	306.30	0.69	FAIL
10920.00†	7143.79	615.55	-3186.73	10788.79	7033.94	432.42	-3186.96	-59.04	213.55	314.65	0.68	FAIL
11020.00†	7143.48	616.65	-3286.73	10888.78	7033.85	432.59	-3286.95	-59.22	214.24	323.03	0.66	FAIL
11120.00†	7143.18	617.75	-3386.72	10988.78	7033.76	432.77	-3386.95	-59.39	214.92	331.44	0.65	FAIL
11220.00†	7142.87	618.85	-3486.71	11088.77	7033.67	432.94	-3486.94	-59.57	215.61	339.88	0.63	FAIL
11320.00†	7142.56	619.95	-3586.71	11188.77	7033.58	433.12	-3586.94	-59.74	216.30	348.35	0.62	FAIL
11420.00†	7142.26	621.05	-3686.70	11288.76	7033.49	433.30	-3686.93	-59.91	216.99	356.84	0.61	FAIL
11520.00†	7141.95	622.15	-3786.69	11388.76	7033.39	433.47	-3786.93	-60.09	217.68	365.36	0.60	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2C-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#18 GREELEY-ROTHER FEDERAL 33N-2C-L (1063'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 33N-2C-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11620.00†	7141.64	623.25	-3886.69	11488.75	7033.30	433.65	-3886.92	-60.26	218.38	373.90	0.58	FAIL
11720.00†	7141.33	624.35	-3986.68	11588.75	7033.21	433.82	-3986.92	-60.42	219.07	382.47	0.57	FAIL
11820.00†	7141.03	625.45	-4086.67	11688.75	7033.12	434.00	-4086.91	-60.59	219.77	391.06	0.56	FAIL
11920.00†	7140.72	626.55	-4186.67	11788.74	7033.03	434.17	-4186.91	-60.76	220.47	399.67	0.55	FAIL
12020.00†	7140.41	627.66	-4286.66	11888.74	7032.94	434.35	-4286.90	-60.92	221.17	408.30	0.54	FAIL
12120.00†	7140.11	628.76	-4386.66	11988.73	7032.84	434.53	-4386.90	-61.09	221.88	416.96	0.53	FAIL
12220.00†	7139.80	629.86	-4486.65	12088.73	7032.75	434.70	-4486.89	-61.25	222.58	425.64	0.52	FAIL
12320.00†	7139.49	630.96	-4586.64	12188.72	7032.66	434.88	-4586.89	-61.42	223.29	434.34	0.51	FAIL
12420.00†	7139.19	632.06	-4686.64	12288.72	7032.57	435.05	-4686.88	-61.58	224.00	443.05	0.50	FAIL
12520.00†	7138.88	633.16	-4786.63	12388.71	7032.48	435.23	-4786.88	-61.74	224.71	451.79	0.50	FAIL
12620.00†	7138.57	634.26	-4886.62	12488.71	7032.39	435.41	-4886.88	-61.90	225.43	460.55	0.49	FAIL
12720.00†	7138.26	635.36	-4986.62	12588.70	7032.30	435.58	-4986.87	-62.06	226.14	469.32	0.48	FAIL
12820.00†	7137.96	636.46	-5086.61	12688.70	7032.20	435.76	-5086.87	-62.21	226.86	478.12	0.47	FAIL
12920.00†	7137.65	637.56	-5186.60	12788.70	7032.11	435.93	-5186.86	-62.37	227.58	486.93	0.47	FAIL
13020.00†	7137.34	638.66	-5286.60	12888.69	7032.02	436.11	-5286.86	-62.52	228.30	495.75	0.46	FAIL
13120.00†	7137.04	639.76	-5386.59	12988.69	7031.93	436.29	-5386.85	-62.68	229.02	504.60	0.45	FAIL
13220.00†	7136.73	640.86	-5486.58	13088.68	7031.84	436.46	-5486.85	-62.83	229.74	513.46	0.45	FAIL
13320.00†	7136.42	641.96	-5586.58	13188.68	7031.75	436.64	-5586.84	-62.99	230.47	522.34	0.44	FAIL
13420.00†	7136.12	643.06	-5686.57	13288.67	7031.65	436.81	-5686.84	-63.14	231.19	531.23	0.43	FAIL
13520.00†	7135.81	644.16	-5786.56	13388.67	7031.56	436.99	-5786.83	-63.29	231.92	540.14	0.43	FAIL
13620.00†	7135.50	645.26	-5886.56	13488.66	7031.47	437.16	-5886.83	-63.44	232.65	549.06	0.42	FAIL
13720.00†	7135.19	646.36	-5986.55	13588.66	7031.38	437.34	-5986.82	-63.59	233.38	557.99	0.42	FAIL
13820.00†	7134.89	647.46	-6086.54	13688.65	7031.29	437.52	-6086.82	-63.73	234.12	566.95	0.41	FAIL
13920.00†	7134.58	648.56	-6186.54	13788.65	7031.20	437.69	-6186.81	-63.88	234.85	575.91	0.41	FAIL
14020.00†	7134.27	649.66	-6286.53	13888.65	7031.10	437.87	-6286.81	-64.03	235.59	584.89	0.40	FAIL
14120.00†	7133.97	650.76	-6386.52	13988.64	7031.01	438.04	-6386.80	-64.17	236.32	593.88	0.40	FAIL
14220.00†	7133.66	651.86	-6486.52	14088.64	7030.92	438.22	-6486.80	-64.32	237.06	602.88	0.39	FAIL
14320.00†	7133.35	652.96	-6586.51	14188.63	7030.83	438.40	-6586.80	-64.46	237.80	611.90	0.39	FAIL
14420.00†	7133.05	654.06	-6686.51	14288.63	7030.74	438.57	-6686.79	-64.60	238.55	620.93	0.38	FAIL
14520.00†	7132.74	655.17	-6786.50	14388.62	7030.65	438.75	-6786.79	-64.74	239.29	629.97	0.38	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2C-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#18 GREELEY-ROTHER FEDERAL 33N-2C-L (1063'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 33N-2C-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14620.00†	7132.43	656.27	-6886.49	14488.62	7030.56	438.92	-6886.78	-64.88	240.03	639.03	0.37	FAIL
14720.00†	7132.12	657.37	-6986.49	14588.61	7030.46	439.10	-6986.78	-65.02	240.78	648.09	0.37	FAIL
14820.00†	7131.82	658.47	-7086.48	14688.61	7030.37	439.27	-7086.77	-65.16	241.53	657.17	0.37	FAIL
14920.00†	7131.51	659.57	-7186.47	14788.61	7030.28	439.45	-7186.77	-65.30	242.28	666.25	0.36	FAIL
15020.00†	7131.20	660.67	-7286.47	14888.60	7030.19	439.63	-7286.76	-65.44	243.03	675.35	0.36	FAIL
15120.00†	7130.90	661.77	-7386.46	14988.60	7030.10	439.80	-7386.76	-65.57	243.78	684.46	0.36	FAIL
15220.00†	7130.59	662.87	-7486.45	15088.59	7030.01	439.98	-7486.75	-65.71	244.53	693.58	0.35	FAIL
15320.00†	7130.28	663.97	-7586.45	15188.59	7029.91	440.15	-7586.75	-65.84	245.29	702.71	0.35	FAIL
15420.00†	7129.98	665.07	-7686.44	15288.58	7029.82	440.33	-7686.74	-65.98	246.05	711.85	0.34	FAIL
15520.00†	7129.67	666.17	-7786.43	15388.58	7029.73	440.51	-7786.74	-66.11	246.80	720.99	0.34	FAIL
15620.00†	7129.36	667.27	-7886.43	15488.57	7029.64	440.68	-7886.73	-66.24	247.56	730.15	0.34	FAIL
15720.00†	7129.05	668.37	-7986.42	15588.57	7029.55	440.86	-7986.73	-66.38	248.32	739.32	0.34	FAIL
15820.00†	7128.75	669.47	-8086.41	15688.56	7029.46	441.03	-8086.72	-66.51	249.08	748.49	0.33	FAIL
15920.00†	7128.44	670.57	-8186.41	15788.56	7029.36	441.21	-8186.72	-66.64	249.85	757.68	0.33	FAIL
16020.00†	7128.13	671.67	-8286.40	15888.56	7029.27	441.38	-8286.72	-66.76	250.61	766.87	0.33	FAIL
16120.00†	7127.83	672.77	-8386.39	15988.55	7029.18	441.56	-8386.71	-66.89	251.37	776.07	0.32	FAIL
16220.00†	7127.52	673.87	-8486.39	16088.55	7029.09	441.74	-8486.71	-67.02	252.14	785.28	0.32	FAIL
16320.00†	7127.21	674.97	-8586.38	16188.54	7029.00	441.91	-8586.70	-67.15	252.91	794.50	0.32	FAIL
16420.00†	7126.90	676.07	-8686.37	16288.54	7028.91	442.09	-8686.70	-67.27	253.68	803.73	0.32	FAIL
16520.00†	7126.60	677.17	-8786.37	16388.53	7028.82	442.26	-8786.69	-67.40	254.45	812.96	0.31	FAIL
16620.00†	7126.29	678.27	-8886.36	16488.53	7028.72	442.44	-8886.69	-67.52	255.22	822.20	0.31	FAIL
16720.00†	7125.98	679.37	-8986.36	16588.52	7028.63	442.62	-8986.68	-67.65	255.99	831.45	0.31	FAIL
16820.00†	7125.68	680.47	-9086.35	16688.52	7028.54	442.79	-9086.68	-67.77	256.77	840.70	0.30	FAIL
16920.00†	7125.37	681.57	-9186.34	16788.52	7028.45	442.97	-9186.67	-67.89	257.54	849.97	0.30	FAIL
17020.00†	7125.06	682.68	-9286.34	16888.51	7028.36	443.14	-9286.67	-68.01	258.32	859.24	0.30	FAIL
17120.00†	7124.76	683.78	-9386.33	16988.51	7028.27	443.32	-9386.66	-68.13	259.09	868.51	0.30	FAIL
17220.00†	7124.45	684.88	-9486.32	17088.50	7028.17	443.50	-9486.66	-68.25	259.87	877.79	0.30	FAIL
17320.00†	7124.14	685.98	-9586.32	17188.50	7028.08	443.67	-9586.65	-68.37	260.65	887.08	0.29	FAIL
17366.24	7124.00	686.49	-9632.55	17234.74	7028.04	443.75	-9632.89	-68.43	261.01	891.38	0.29	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## POSITIONAL UNCERTAINTY - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2C-L PWP (REV-A.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## HOLE & CASING SECTIONS - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2C-L PWP (REV-A.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	20.00	1750.00	1730.00	20.00	1740.06	-12.21	0.19	1.56	44.53
9.625in Casing Surface	20.00	1750.00	1730.00	20.00	1740.06	-12.21	0.19	1.56	44.53
8.5in Open Hole	1750.00	17278.45	15528.45	1740.06	7028.00	1.56	44.53	129.17	-2949.34

## SURVEY PROGRAM - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2C-L PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	1750.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 33N-2C-L PWB
1750.00	17278.45	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 33N-2C-L PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2C-L PWP (REV-A.0)

MD Reference: PRECISION 462 (20') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	20.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HERTZKE N 1-11 AWP Offset Wellpath: EX. HERTZKE N 1-11 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#02 EX. HERTZKE N 1-11 (2012'FSL & 1864'FWL, CODL/SI) Well: EX. HERTZKE N 1-11 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	23.00	20.00	828.67	-2823.09	-73.64	2942.20	50.21	59.72	PASS
120.00†	120.00	0.00	0.00	123.00	120.00	828.67	-2823.09	-73.64	2942.20	50.59	59.27	PASS
220.00†	220.00	0.00	0.00	223.00	220.00	828.67	-2823.09	-73.64	2942.20	51.70	57.97	PASS
320.00†	320.00	0.00	0.00	323.00	320.00	828.67	-2823.09	-73.64	2942.20	53.49	55.99	PASS
400.00	400.00	0.00	0.00	403.00	400.00	828.67	-2823.09	-73.64	2942.20	55.32	54.11	PASS
420.00†	420.00	0.04	0.06	423.00	420.00	828.67	-2823.09	-130.26	2942.25	55.86	53.58	PASS
520.00†	519.96	1.38	2.10	522.96	519.96	828.67	-2823.09	-130.27	2943.83	58.69	50.98	PASS
620.00†	619.78	4.65	7.05	622.78	619.78	828.67	-2823.09	-130.30	2947.67	61.88	48.37	PASS
720.00†	719.33	9.82	14.91	722.33	719.33	828.67	-2823.09	-130.35	2953.77	65.32	45.88	PASS
820.00†	818.50	16.91	25.66	821.50	818.50	828.67	-2823.09	-130.41	2962.16	68.96	43.55	PASS
851.46	849.59	19.53	29.64	852.59	849.59	828.67	-2823.09	-130.43	2965.27	70.14	42.85	PASS
920.00†	917.28	25.45	38.62	920.28	917.28	828.67	-2823.09	-130.59	2972.30	72.73	41.40	PASS
1020.00†	1016.05	34.09	51.73	1019.05	1016.05	828.67	-2823.09	-130.81	2982.61	76.62	39.41	PASS
1120.00†	1114.81	42.72	64.83	1117.81	1114.81	828.67	-2823.09	-131.04	2992.96	80.61	37.57	PASS
1220.00†	1213.57	51.36	77.94	1216.57	1213.57	828.67	-2823.09	-131.26	3003.36	84.68	35.86	PASS
1320.00†	1312.33	59.99	91.04	1315.33	1312.33	828.67	-2823.09	-131.49	3013.81	88.82	34.29	PASS
1420.00†	1411.09	68.63	104.15	1414.09	1411.09	828.67	-2823.09	-131.71	3024.30	93.02	32.84	PASS
1520.00†	1509.85	77.26	117.25	1512.85	1509.85	828.67	-2823.09	-131.93	3034.84	97.27	31.50	PASS
1620.00†	1608.61	85.90	130.36	1611.61	1608.61	828.67	-2823.09	-132.15	3045.42	101.56	30.26	PASS
1720.00†	1707.37	94.53	143.46	1710.37	1707.37	828.67	-2823.09	-132.36	3056.04	105.89	29.12	PASS
1820.00†	1806.13	103.17	156.56	1809.13	1806.13	828.67	-2823.09	-132.58	3066.71	109.93	28.07	PASS
1920.00†	1904.89	111.80	169.67	1907.89	1904.89	828.67	-2823.09	-132.79	3077.42	114.20	27.11	PASS
2020.00†	2003.65	120.44	182.77	2006.65	2003.65	828.67	-2823.09	-133.00	3088.18	118.49	26.21	PASS
2120.00†	2102.41	129.07	195.88	2105.41	2102.41	828.67	-2823.09	-133.21	3098.97	122.81	25.37	PASS
2220.00†	2201.18	137.71	208.98	2204.18	2201.18	828.67	-2823.09	-133.42	3109.81	127.16	24.59	PASS
2320.00†	2299.94	146.34	222.09	2302.94	2299.94	828.67	-2823.09	-133.63	3120.69	131.52	23.85	PASS
2420.00†	2398.70	154.98	235.19	2401.70	2398.70	828.67	-2823.09	-133.84	3131.61	135.92	23.16	PASS
2520.00†	2497.46	163.61	248.29	2500.46	2497.46	828.67	-2823.09	-134.04	3142.57	140.33	22.50	PASS
2620.00†	2596.22	172.25	261.40	2599.22	2596.22	828.67	-2823.09	-134.25	3153.57	144.76	21.89	PASS
2720.00†	2694.98	180.88	274.50	2697.98	2694.98	828.67	-2823.09	-134.45	3164.61	149.21	21.31	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HERTZKE N 1-11 AWB Offset Wellpath: EX. HERTZKE N 1-11 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#02 EX. HERTZKE N 1-11 (2012'FSL & 1864'FWL, CODL/SI) Well: EX. HERTZKE N 1-11 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2796.74	2793.74	828.67	-2823.09	-134.65	3175.69	153.68	20.76	PASS
2920.00†	2892.50	198.15	300.71	2895.50	2892.50	828.67	-2823.09	-134.85	3186.80	158.16	20.24	PASS
3020.00†	2991.26	206.79	313.82	2994.26	2991.26	828.67	-2823.09	-135.05	3197.96	162.66	19.74	PASS
3120.00†	3090.02	215.42	326.92	3093.02	3090.02	828.67	-2823.09	-135.24	3209.15	167.18	19.27	PASS
3220.00†	3188.78	224.06	340.03	3191.78	3188.78	828.67	-2823.09	-135.44	3220.39	171.71	18.83	PASS
3320.00†	3287.55	232.69	353.13	3290.55	3287.55	828.67	-2823.09	-135.63	3231.65	176.26	18.40	PASS
3420.00†	3386.31	241.33	366.23	3389.31	3386.31	828.67	-2823.09	-135.83	3242.96	180.82	18.00	PASS
3520.00†	3485.07	249.96	379.34	3488.07	3485.07	828.67	-2823.09	-136.02	3254.30	185.39	17.62	PASS
3620.00†	3583.83	258.60	392.44	3586.83	3583.83	828.67	-2823.09	-136.21	3265.68	189.97	17.25	PASS
3720.00†	3682.59	267.23	405.55	3685.59	3682.59	828.67	-2823.09	-136.40	3277.09	194.57	16.90	PASS
3820.00†	3781.35	275.87	418.65	3784.35	3781.35	828.67	-2823.09	-136.58	3288.54	199.18	16.57	PASS
3920.00†	3880.11	284.50	431.76	3883.11	3880.11	828.67	-2823.09	-136.77	3300.03	203.80	16.25	PASS
4020.00†	3978.87	293.14	444.86	3981.87	3978.87	828.67	-2823.09	-136.96	3311.54	208.44	15.94	PASS
4120.00†	4077.63	301.77	457.97	4080.63	4077.63	828.67	-2823.09	-137.14	3323.10	213.08	15.64	PASS
4220.00†	4176.39	310.41	471.07	4179.39	4176.39	828.67	-2823.09	-137.32	3334.68	217.73	15.36	PASS
4320.00†	4275.15	319.04	484.17	4278.15	4275.15	828.67	-2823.09	-137.50	3346.30	222.39	15.09	PASS
4420.00†	4373.91	327.68	497.28	4376.91	4373.91	828.67	-2823.09	-137.68	3357.96	227.07	14.83	PASS
4520.00†	4472.68	336.31	510.38	4475.68	4472.68	828.67	-2823.09	-137.86	3369.64	231.75	14.58	PASS
4620.00†	4571.44	344.95	523.49	4574.44	4571.44	828.67	-2823.09	-138.04	3381.36	236.44	14.34	PASS
4720.00†	4670.20	353.58	536.59	4673.20	4670.20	828.67	-2823.09	-138.21	3393.11	241.14	14.11	PASS
4820.00†	4768.96	362.22	549.70	4771.96	4768.96	828.67	-2823.09	-138.39	3404.89	245.85	13.89	PASS
4920.00†	4867.72	370.85	562.80	4870.72	4867.72	828.67	-2823.09	-138.56	3416.71	250.57	13.67	PASS
5020.00†	4966.48	379.49	575.91	4969.48	4966.48	828.67	-2823.09	-138.74	3428.55	255.29	13.46	PASS
5120.00†	5065.24	388.12	589.01	5068.24	5065.24	828.67	-2823.09	-138.91	3440.43	260.02	13.26	PASS
5220.00†	5164.00	396.76	602.11	5167.00	5164.00	828.67	-2823.09	-139.08	3452.33	264.76	13.07	PASS
5320.00†	5262.76	405.39	615.22	5265.76	5262.76	828.67	-2823.09	-139.25	3464.27	269.51	12.89	PASS
5420.00†	5361.52	414.03	628.32	5364.52	5361.52	828.67	-2823.09	-139.41	3476.23	274.26	12.71	PASS
5520.00†	5460.28	422.66	641.43	5463.28	5460.28	828.67	-2823.09	-139.58	3488.23	279.02	12.53	PASS
5620.00†	5559.05	431.30	654.53	5562.05	5559.05	828.67	-2823.09	-139.75	3500.25	283.78	12.36	PASS
5720.00†	5657.81	439.93	667.64	5660.81	5657.81	828.67	-2823.09	-139.91	3512.31	288.56	12.20	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HERTZKE N 1-11 AWP Offset Wellpath: EX. HERTZKE N 1-11 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#02 EX. HERTZKE N 1-11 (2012'FSL & 1864'FWL, CODL/SI) Well: EX. HERTZKE N 1-11 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5759.57	5756.57	828.67	-2823.09	-140.07	3524.39	293.33	12.04	PASS
5920.00†	5855.33	457.20	693.85	5858.33	5855.33	828.67	-2823.09	-140.24	3536.50	298.12	11.89	PASS
6020.00†	5954.09	465.84	706.95	5957.09	5954.09	828.67	-2823.09	-140.40	3548.64	302.91	11.74	PASS
6120.00†	6052.85	474.47	720.05	6055.85	6052.85	828.67	-2823.09	-140.56	3560.81	307.70	11.60	PASS
6220.00†	6151.61	483.11	733.16	6154.61	6151.61	828.67	-2823.09	-140.72	3573.00	312.50	11.46	PASS
6320.00†	6250.37	491.74	746.26	6253.37	6250.37	828.67	-2823.09	-140.88	3585.22	317.30	11.32	PASS
6420.00†	6349.13	500.38	759.37	6352.13	6349.13	828.67	-2823.09	-141.03	3597.47	322.11	11.19	PASS
6509.39	6437.41	508.10	771.08	6440.41	6437.41	828.67	-2823.09	-141.17	3608.44	326.42	11.08	PASS
6520.00†	6447.90	509.02	772.38	6450.90	6447.90	828.67	-2823.09	-137.48	3609.66	326.93	11.06	PASS
6620.00†	6547.35	517.82	776.00	6550.35	6547.35	828.67	-2823.09	-59.76	3612.49	331.83	10.91	PASS
6720.00†	6646.11	526.74	763.96	6649.11	6646.11	828.67	-2823.09	-19.83	3599.74	337.01	10.70	PASS
6820.00†	6741.77	535.55	736.55	6744.77	6741.77	828.67	-2823.09	-9.93	3571.69	342.39	10.45	PASS
6920.00†	6831.97	544.05	694.45	6834.97	6831.97	828.67	-2823.09	-5.68	3529.04	347.31	10.18	PASS
7020.00†	6914.48	552.02	638.70	6917.48	6914.48	828.67	-2823.09	-3.12	3472.83	351.73	9.89	PASS
7120.00†	6987.27	559.26	570.67	6990.27	6987.27	828.67	-2823.09	-1.12	3404.44	355.54	9.59	PASS
7220.00†	7048.56	565.59	492.04	7051.56	7048.56	828.67	-2823.09	0.97	3325.56	358.67	9.29	PASS
7320.00†	7096.83	570.87	404.74	7099.83	7096.83	828.67	-2823.09	3.88	3238.11	361.08	8.98	PASS
7420.00†	7130.89	574.96	310.91	7133.89	7130.89	828.67	-2823.09	9.57	3144.26	362.74	8.68	PASS
7520.00†	7149.90	577.75	212.88	7152.90	7149.90	828.67	-2823.09	28.40	3046.33	363.65	8.39	PASS
7594.38	7154.00	578.96	138.67	7157.00	7154.00	828.67	-2823.09	92.40	2972.27	363.84	8.18	PASS
7620.00†	7153.92	579.24	113.05	7156.92	7153.92	828.67	-2823.09	92.38	2946.72	363.84	8.11	PASS
7720.00†	7153.61	580.34	13.06	7156.61	7153.61	828.67	-2823.09	92.30	2847.00	363.84	7.84	PASS
7820.00†	7153.31	581.44	-86.94	7156.31	7153.31	828.67	-2823.09	92.22	2747.30	363.85	7.56	PASS
7920.00†	7153.00	582.54	-186.93	7156.00	7153.00	828.67	-2823.09	92.14	2647.63	363.86	7.29	PASS
8020.00†	7152.69	583.64	-286.92	7155.69	7152.69	828.67	-2823.09	92.06	2547.98	363.89	7.01	PASS
8120.00†	7152.39	584.74	-386.92	7155.39	7152.39	828.67	-2823.09	91.98	2448.36	363.92	6.74	PASS
8220.00†	7152.08	585.84	-486.91	7155.08	7152.08	828.67	-2823.09	91.89	2348.77	363.97	6.46	PASS
8320.00†	7151.77	586.94	-586.90	7154.77	7151.77	828.67	-2823.09	91.81	2249.22	364.04	6.19	PASS
8420.00†	7151.47	588.04	-686.90	7154.47	7151.47	828.67	-2823.09	91.73	2149.71	364.12	5.91	PASS
8520.00†	7151.16	589.14	-786.89	7154.16	7151.16	828.67	-2823.09	91.65	2050.24	364.23	5.64	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HERTZKE N 1-11 AWB Offset Wellpath: EX. HERTZKE N 1-11 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#02 EX. HERTZKE N 1-11 (2012'FSL & 1864'FWL, CODL/SI) Well: EX. HERTZKE N 1-11 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	7153.85	7150.85	828.67	-2823.09	91.57	1950.83	364.36	5.36	PASS
8720.00†	7150.54	591.34	-986.88	7153.54	7150.54	828.67	-2823.09	91.49	1851.49	364.54	5.09	PASS
8820.00†	7150.24	592.44	-1086.87	7153.24	7150.24	828.67	-2823.09	91.41	1752.22	364.76	4.81	PASS
8920.00†	7149.93	593.54	-1186.86	7152.93	7149.93	828.67	-2823.09	91.33	1653.04	365.04	4.54	PASS
9020.00†	7149.62	594.64	-1286.86	7152.62	7149.62	828.67	-2823.09	91.25	1553.96	365.39	4.26	PASS
9120.00†	7149.32	595.74	-1386.85	7152.32	7149.32	828.67	-2823.09	91.17	1455.01	365.83	3.98	PASS
9220.00†	7149.01	596.84	-1486.84	7152.01	7149.01	828.67	-2823.09	91.08	1356.21	366.41	3.71	PASS
9320.00†	7148.70	597.94	-1586.84	7151.70	7148.70	828.67	-2823.09	91.00	1257.60	367.15	3.43	PASS
9420.00†	7148.40	599.04	-1686.83	7151.40	7148.40	828.67	-2823.09	90.92	1159.23	368.11	3.15	PASS
9520.00†	7148.09	600.15	-1786.82	7151.09	7148.09	828.67	-2823.09	90.84	1061.17	369.38	2.88	PASS
9620.00†	7147.78	601.25	-1886.82	7150.78	7147.78	828.67	-2823.09	90.76	963.50	371.08	2.60	PASS
9720.00†	7147.47	602.35	-1986.81	7150.47	7147.47	828.67	-2823.09	90.68	866.37	373.37	2.32	PASS
9820.00†	7147.17	603.45	-2086.81	7150.17	7147.17	828.67	-2823.09	90.60	769.96	376.53	2.05	PASS
9920.00†	7146.86	604.55	-2186.80	7149.86	7146.86	828.67	-2823.09	90.52	674.61	380.95	1.77	PASS
10020.00†	7146.55	605.65	-2286.79	7149.55	7146.55	828.67	-2823.09	90.44	580.83	387.29	1.50	PASS
10120.00†	7146.25	606.75	-2386.79	7149.25	7146.25	828.67	-2823.09	90.36	489.50	396.55	1.23	PASS
10220.00†	7145.94	607.85	-2486.78	7148.94	7145.94	828.67	-2823.09	90.27	402.33	410.33	0.98	FAIL
10320.00†	7145.63	608.95	-2586.77	7148.63	7145.63	828.67	-2823.09	90.19	322.68	430.77	0.75	FAIL
10420.00†	7145.33	610.05	-2686.77	7148.33	7145.33	828.67	-2823.09	90.11	257.64	458.58	0.56	FAIL
10520.00†	7145.02	611.15	-2786.76	7148.02	7145.02	828.67	-2823.09	90.03	220.54	484.34	0.45	FAIL
10558.95†	7144.90	611.58	-2825.70	7147.27	7144.27	828.67	-2823.09	89.83	217.11	488.61	0.44	FAIL
10562.27†	7144.89	611.61	-2829.03	7147.89	7144.89	828.67	-2823.09	90.00	217.14	488.77	0.44	FAIL
10620.00†	7144.71	612.25	-2886.75	7147.71	7144.71	828.67	-2823.09	89.95	225.59	485.61	0.46	FAIL
10720.00†	7144.40	613.35	-2986.75	7147.40	7144.40	828.67	-2823.09	89.87	270.45	464.22	0.58	FAIL
10820.00†	7144.10	614.45	-3086.74	7147.10	7144.10	828.67	-2823.09	89.79	339.71	440.99	0.77	FAIL
10920.00†	7143.79	615.55	-3186.73	7146.79	7143.79	828.67	-2823.09	89.71	421.49	423.39	1.00	FAIL
11020.00†	7143.48	616.65	-3286.73	7146.48	7143.48	828.67	-2823.09	89.63	509.81	410.96	1.24	PASS
11120.00†	7143.18	617.75	-3386.72	7146.18	7143.18	828.67	-2823.09	89.55	601.80	402.13	1.50	PASS
11220.00†	7142.87	618.85	-3486.71	7145.87	7142.87	828.67	-2823.09	89.46	696.00	395.72	1.76	PASS
11320.00†	7142.56	619.95	-3586.71	7145.56	7142.56	828.67	-2823.09	89.38	791.63	390.94	2.03	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HERTZKE N 1-11 AWB Offset Wellpath: EX. HERTZKE N 1-11 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#02 EX. HERTZKE N 1-11 (2012'FSL & 1864'FWL, CODL/SI) Well: EX. HERTZKE N 1-11 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11420.00†	7142.26	621.05	-3686.70	7145.26	7142.26	828.67	-2823.09	89.30	888.21	387.30	2.30	PASS
11520.00†	7141.95	622.15	-3786.69	7144.95	7141.95	828.67	-2823.09	89.22	985.48	384.45	2.57	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. HERTZKE N 1-11 AWB Offset Wellpath: EX. HERTZKE N 1-11 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. HERTZKE N 1-11 AWB Offset Wellpath: EX. HERTZKE N 1-11 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7304.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7304>	EX. HERTZKE N 1-11 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. HERTZKE N 1-11 AWB Offset Wellpath: EX. HERTZKE N 1-11 AWP

MD Reference: Rig on SLOT#02 EX. HERTZKE N 1-11 (2012'FSL & 1864'FWL, CODL/SI) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HERTZKE N 1-12 AWB Offset Wellpath: EX. HERTZKE N 1-12 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#03 EX. HERTZKE N 1-12 (2116'FSL & 619'FWL, CODL/PR) Well: EX. HERTZKE N 1-12 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	46.00	20.00	887.84	-4066.73	-77.68	4162.52	50.26	84.42	PASS
120.00†	120.00	0.00	0.00	146.00	120.00	887.84	-4066.73	-77.68	4162.52	50.81	83.49	PASS
220.00†	220.00	0.00	0.00	246.00	220.00	887.84	-4066.73	-77.68	4162.52	52.08	81.42	PASS
320.00†	320.00	0.00	0.00	346.00	320.00	887.84	-4066.73	-77.68	4162.52	54.01	78.45	PASS
400.00	400.00	0.00	0.00	426.00	400.00	887.84	-4066.73	-77.68	4162.52	55.94	75.69	PASS
420.00†	420.00	0.04	0.06	446.00	420.00	887.84	-4066.73	-134.30	4162.57	56.49	74.95	PASS
520.00†	519.96	1.38	2.10	545.96	519.96	887.84	-4066.73	-134.30	4164.28	59.40	71.25	PASS
620.00†	619.78	4.65	7.05	645.78	619.78	887.84	-4066.73	-134.30	4168.42	62.66	67.55	PASS
720.00†	719.33	9.82	14.91	745.33	719.33	887.84	-4066.73	-134.30	4175.01	66.15	64.03	PASS
820.00†	818.50	16.91	25.66	844.50	818.50	887.84	-4066.73	-134.29	4184.04	69.84	60.74	PASS
851.46	849.59	19.53	29.64	875.59	849.59	887.84	-4066.73	-134.29	4187.39	71.02	59.76	PASS
920.00†	917.28	25.45	38.62	943.28	917.28	887.84	-4066.73	-134.40	4194.96	73.63	57.72	PASS
1020.00†	1016.05	34.09	51.73	1042.05	1016.05	887.84	-4066.73	-134.55	4206.02	77.54	54.91	PASS
1120.00†	1114.81	42.72	64.83	1140.81	1114.81	887.84	-4066.73	-134.70	4217.12	81.54	52.32	PASS
1220.00†	1213.57	51.36	77.94	1239.57	1213.57	887.84	-4066.73	-134.85	4228.24	85.63	49.93	PASS
1320.00†	1312.33	59.99	91.04	1338.33	1312.33	887.84	-4066.73	-135.00	4239.39	89.78	47.72	PASS
1420.00†	1411.09	68.63	104.15	1437.09	1411.09	887.84	-4066.73	-135.15	4250.57	93.98	45.68	PASS
1520.00†	1509.85	77.26	117.25	1535.85	1509.85	887.84	-4066.73	-135.30	4261.78	98.24	43.80	PASS
1620.00†	1608.61	85.90	130.36	1634.61	1608.61	887.84	-4066.73	-135.44	4273.02	102.53	42.06	PASS
1720.00†	1707.37	94.53	143.46	1733.37	1707.37	887.84	-4066.73	-135.59	4284.28	106.86	40.45	PASS
1820.00†	1806.13	103.17	156.56	1832.13	1806.13	887.84	-4066.73	-135.74	4295.57	110.90	38.97	PASS
1920.00†	1904.89	111.80	169.67	1930.89	1904.89	887.84	-4066.73	-135.88	4306.89	115.17	37.62	PASS
2020.00†	2003.65	120.44	182.77	2029.65	2003.65	887.84	-4066.73	-136.02	4318.24	119.47	36.35	PASS
2120.00†	2102.41	129.07	195.88	2128.41	2102.41	887.84	-4066.73	-136.17	4329.62	123.79	35.17	PASS
2220.00†	2201.18	137.71	208.98	2227.18	2201.18	887.84	-4066.73	-136.31	4341.02	128.14	34.06	PASS
2320.00†	2299.94	146.34	222.09	2325.94	2299.94	887.84	-4066.73	-136.45	4352.45	132.51	33.02	PASS
2420.00†	2398.70	154.98	235.19	2424.70	2398.70	887.84	-4066.73	-136.59	4363.90	136.91	32.04	PASS
2520.00†	2497.46	163.61	248.29	2523.46	2497.46	887.84	-4066.73	-136.73	4375.38	141.32	31.11	PASS
2620.00†	2596.22	172.25	261.40	2622.22	2596.22	887.84	-4066.73	-136.87	4386.89	145.75	30.24	PASS
2720.00†	2694.98	180.88	274.50	2720.98	2694.98	887.84	-4066.73	-137.01	4398.42	150.21	29.42	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HERTZKE N 1-12 AWB Offset Wellpath: EX. HERTZKE N 1-12 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#03 EX. HERTZKE N 1-12 (2116'FSL & 619'FWL, CODL/PR) Well: EX. HERTZKE N 1-12 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2819.74	2793.74	887.84	-4066.73	-137.15	4409.98	154.68	28.64	PASS
2920.00†	2892.50	198.15	300.71	2918.50	2892.50	887.84	-4066.73	-137.29	4421.57	159.16	27.90	PASS
3020.00†	2991.26	206.79	313.82	3017.26	2991.26	887.84	-4066.73	-137.43	4433.18	163.66	27.20	PASS
3120.00†	3090.02	215.42	326.92	3116.02	3090.02	887.84	-4066.73	-137.56	4444.81	168.18	26.54	PASS
3220.00†	3188.78	224.06	340.03	3214.78	3188.78	887.84	-4066.73	-137.70	4456.47	172.71	25.90	PASS
3320.00†	3287.55	232.69	353.13	3313.55	3287.55	887.84	-4066.73	-137.83	4468.16	177.26	25.30	PASS
3420.00†	3386.31	241.33	366.23	3412.31	3386.31	887.84	-4066.73	-137.97	4479.86	181.82	24.73	PASS
3520.00†	3485.07	249.96	379.34	3511.07	3485.07	887.84	-4066.73	-138.10	4491.60	186.39	24.19	PASS
3620.00†	3583.83	258.60	392.44	3609.83	3583.83	887.84	-4066.73	-138.23	4503.35	190.98	23.66	PASS
3720.00†	3682.59	267.23	405.55	3708.59	3682.59	887.84	-4066.73	-138.36	4515.14	195.58	23.17	PASS
3820.00†	3781.35	275.87	418.65	3807.35	3781.35	887.84	-4066.73	-138.49	4526.94	200.19	22.69	PASS
3920.00†	3880.11	284.50	431.76	3906.11	3880.11	887.84	-4066.73	-138.62	4538.77	204.81	22.23	PASS
4020.00†	3978.87	293.14	444.86	4004.87	3978.87	887.84	-4066.73	-138.75	4550.62	209.44	21.80	PASS
4120.00†	4077.63	301.77	457.97	4103.63	4077.63	887.84	-4066.73	-138.88	4562.50	214.09	21.38	PASS
4220.00†	4176.39	310.41	471.07	4202.39	4176.39	887.84	-4066.73	-139.01	4574.39	218.74	20.98	PASS
4320.00†	4275.15	319.04	484.17	4301.15	4275.15	887.84	-4066.73	-139.14	4586.32	223.41	20.59	PASS
4420.00†	4373.91	327.68	497.28	4399.91	4373.91	887.84	-4066.73	-139.27	4598.26	228.08	20.22	PASS
4520.00†	4472.68	336.31	510.38	4498.68	4472.68	887.84	-4066.73	-139.39	4610.23	232.76	19.86	PASS
4620.00†	4571.44	344.95	523.49	4597.44	4571.44	887.84	-4066.73	-139.52	4622.21	237.45	19.52	PASS
4720.00†	4670.20	353.58	536.59	4696.20	4670.20	887.84	-4066.73	-139.65	4634.22	242.15	19.19	PASS
4820.00†	4768.96	362.22	549.70	4794.96	4768.96	887.84	-4066.73	-139.77	4646.26	246.86	18.87	PASS
4920.00†	4867.72	370.85	562.80	4893.72	4867.72	887.84	-4066.73	-139.89	4658.31	251.58	18.57	PASS
5020.00†	4966.48	379.49	575.91	4992.48	4966.48	887.84	-4066.73	-140.02	4670.39	256.30	18.27	PASS
5120.00†	5065.24	388.12	589.01	5091.24	5065.24	887.84	-4066.73	-140.14	4682.48	261.04	17.98	PASS
5220.00†	5164.00	396.76	602.11	5190.00	5164.00	887.84	-4066.73	-140.26	4694.60	265.78	17.71	PASS
5320.00†	5262.76	405.39	615.22	5288.76	5262.76	887.84	-4066.73	-140.38	4706.74	270.52	17.44	PASS
5420.00†	5361.52	414.03	628.32	5387.52	5361.52	887.84	-4066.73	-140.51	4718.90	275.28	17.18	PASS
5520.00†	5460.28	422.66	641.43	5486.28	5460.28	887.84	-4066.73	-140.63	4731.08	280.04	16.93	PASS
5620.00†	5559.05	431.30	654.53	5585.05	5559.05	887.84	-4066.73	-140.75	4743.29	284.80	16.69	PASS
5720.00†	5657.81	439.93	667.64	5683.81	5657.81	887.84	-4066.73	-140.86	4755.51	289.57	16.46	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HERTZKE N 1-12 AWB Offset Wellpath: EX. HERTZKE N 1-12 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#03 EX. HERTZKE N 1-12 (2116'FSL & 619'FWL, CODL/PR) Well: EX. HERTZKE N 1-12 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5782.57	5756.57	887.84	-4066.73	-140.98	4767.75	294.35	16.23	PASS
5920.00†	5855.33	457.20	693.85	5881.33	5855.33	887.84	-4066.73	-141.10	4780.02	299.14	16.01	PASS
6020.00†	5954.09	465.84	706.95	5980.09	5954.09	887.84	-4066.73	-141.22	4792.30	303.93	15.80	PASS
6120.00†	6052.85	474.47	720.05	6078.85	6052.85	887.84	-4066.73	-141.33	4804.60	308.72	15.60	PASS
6220.00†	6151.61	483.11	733.16	6177.61	6151.61	887.84	-4066.73	-141.45	4816.92	313.52	15.40	PASS
6320.00†	6250.37	491.74	746.26	6276.37	6250.37	887.84	-4066.73	-141.57	4829.27	318.33	15.20	PASS
6420.00†	6349.13	500.38	759.37	6375.13	6349.13	887.84	-4066.73	-141.68	4841.63	323.14	15.01	PASS
6509.39	6437.41	508.10	771.08	6463.41	6437.41	887.84	-4066.73	-141.78	4852.69	327.44	14.85	PASS
6520.00†	6447.90	509.02	772.38	6473.90	6447.90	887.84	-4066.73	-138.09	4853.92	327.95	14.83	PASS
6620.00†	6547.35	517.82	776.00	6573.35	6547.35	887.84	-4066.73	-60.32	4856.85	332.85	14.62	PASS
6720.00†	6646.11	526.74	763.96	6672.11	6646.11	887.84	-4066.73	-20.38	4844.17	338.04	14.36	PASS
6820.00†	6741.77	535.55	736.55	6767.77	6741.77	887.84	-4066.73	-10.48	4816.18	343.43	14.05	PASS
6920.00†	6831.97	544.05	694.45	6857.97	6831.97	887.84	-4066.73	-6.25	4773.58	348.35	13.73	PASS
7020.00†	6914.48	552.02	638.70	6940.48	6914.48	887.84	-4066.73	-3.75	4717.40	352.77	13.40	PASS
7120.00†	6987.27	559.26	570.67	7013.27	6987.27	887.84	-4066.73	-1.84	4649.03	356.58	13.06	PASS
7220.00†	7048.56	565.59	492.04	7074.56	7048.56	887.84	-4066.73	0.07	4570.15	359.72	12.73	PASS
7320.00†	7096.83	570.87	404.74	7122.83	7096.83	887.84	-4066.73	2.65	4482.69	362.13	12.40	PASS
7420.00†	7130.89	574.96	310.91	7156.89	7130.89	887.84	-4066.73	7.59	4388.81	363.78	12.09	PASS
7520.00†	7149.90	577.75	212.88	7175.90	7149.90	887.84	-4066.73	24.27	4290.84	364.68	11.79	PASS
7594.38	7154.00	578.96	138.67	7180.00	7154.00	887.84	-4066.73	92.82	4216.73	364.88	11.58	PASS
7620.00†	7153.92	579.24	113.05	7179.92	7153.92	887.84	-4066.73	92.80	4191.16	364.88	11.51	PASS
7720.00†	7153.61	580.34	13.06	7179.61	7153.61	887.84	-4066.73	92.73	4091.36	364.87	11.23	PASS
7820.00†	7153.31	581.44	-86.94	7179.31	7153.31	887.84	-4066.73	92.67	3991.57	364.87	10.96	PASS
7920.00†	7153.00	582.54	-186.93	7179.00	7153.00	887.84	-4066.73	92.60	3891.80	364.88	10.68	PASS
8020.00†	7152.69	583.64	-286.92	7178.69	7152.69	887.84	-4066.73	92.53	3792.03	364.89	10.41	PASS
8120.00†	7152.39	584.74	-386.92	7178.39	7152.39	887.84	-4066.73	92.47	3692.28	364.90	10.14	PASS
8220.00†	7152.08	585.84	-486.91	7178.08	7152.08	887.84	-4066.73	92.40	3592.54	364.93	9.86	PASS
8320.00†	7151.77	586.94	-586.90	7177.77	7151.77	887.84	-4066.73	92.33	3492.81	364.96	9.59	PASS
8420.00†	7151.47	588.04	-686.90	7177.47	7151.47	887.84	-4066.73	92.27	3393.11	365.00	9.31	PASS
8520.00†	7151.16	589.14	-786.89	7177.16	7151.16	887.84	-4066.73	92.20	3293.42	365.05	9.04	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HERTZKE N 1-12 AWB Offset Wellpath: EX. HERTZKE N 1-12 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#03 EX. HERTZKE N 1-12 (2116'FSL & 619'FWL, CODL/PR) Well: EX. HERTZKE N 1-12 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	7176.85	7150.85	887.84	-4066.73	92.13	3193.74	365.11	8.76	PASS
8720.00†	7150.54	591.34	-986.88	7176.54	7150.54	887.84	-4066.73	92.06	3094.09	365.19	8.49	PASS
8820.00†	7150.24	592.44	-1086.87	7176.24	7150.24	887.84	-4066.73	92.00	2994.47	365.27	8.21	PASS
8920.00†	7149.93	593.54	-1186.86	7175.93	7149.93	887.84	-4066.73	91.93	2894.87	365.38	7.94	PASS
9020.00†	7149.62	594.64	-1286.86	7175.62	7149.62	887.84	-4066.73	91.86	2795.29	365.51	7.66	PASS
9120.00†	7149.32	595.74	-1386.85	7175.32	7149.32	887.84	-4066.73	91.80	2695.75	365.66	7.38	PASS
9220.00†	7149.01	596.84	-1486.84	7175.01	7149.01	887.84	-4066.73	91.73	2596.25	365.83	7.11	PASS
9320.00†	7148.70	597.94	-1586.84	7174.70	7148.70	887.84	-4066.73	91.66	2496.78	366.04	6.83	PASS
9420.00†	7148.40	599.04	-1686.83	7174.40	7148.40	887.84	-4066.73	91.60	2397.36	366.28	6.56	PASS
9520.00†	7148.09	600.15	-1786.82	7174.09	7148.09	887.84	-4066.73	91.53	2297.99	366.57	6.28	PASS
9620.00†	7147.78	601.25	-1886.82	7173.78	7147.78	887.84	-4066.73	91.46	2198.67	366.91	6.00	PASS
9720.00†	7147.47	602.35	-1986.81	7173.47	7147.47	887.84	-4066.73	91.40	2099.42	367.31	5.72	PASS
9820.00†	7147.17	603.45	-2086.81	7173.17	7147.17	887.84	-4066.73	91.33	2000.25	367.79	5.45	PASS
9920.00†	7146.86	604.55	-2186.80	7172.86	7146.86	887.84	-4066.73	91.26	1901.16	368.36	5.17	PASS
10020.00†	7146.55	605.65	-2286.79	7172.55	7146.55	887.84	-4066.73	91.19	1802.17	369.04	4.89	PASS
10120.00†	7146.25	606.75	-2386.79	7172.25	7146.25	887.84	-4066.73	91.13	1703.30	369.85	4.61	PASS
10220.00†	7145.94	607.85	-2486.78	7171.94	7145.94	887.84	-4066.73	91.06	1604.57	370.84	4.33	PASS
10320.00†	7145.63	608.95	-2586.77	7171.63	7145.63	887.84	-4066.73	90.99	1506.01	372.03	4.05	PASS
10420.00†	7145.33	610.05	-2686.77	7171.33	7145.33	887.84	-4066.73	90.93	1407.65	373.49	3.77	PASS
10520.00†	7145.02	611.15	-2786.76	7171.02	7145.02	887.84	-4066.73	90.86	1309.54	375.28	3.49	PASS
10620.00†	7144.71	612.25	-2886.75	7170.71	7144.71	887.84	-4066.73	90.79	1211.74	377.50	3.21	PASS
10720.00†	7144.40	613.35	-2986.75	7170.40	7144.40	887.84	-4066.73	90.73	1114.32	380.27	2.93	PASS
10820.00†	7144.10	614.45	-3086.74	7170.10	7144.10	887.84	-4066.73	90.66	1017.41	383.77	2.65	PASS
10920.00†	7143.79	615.55	-3186.73	7169.79	7143.79	887.84	-4066.73	90.59	921.16	388.23	2.38	PASS
11020.00†	7143.48	616.65	-3286.73	7169.48	7143.48	887.84	-4066.73	90.52	825.80	393.99	2.10	PASS
11120.00†	7143.18	617.75	-3386.72	7169.18	7143.18	887.84	-4066.73	90.46	731.69	401.53	1.82	PASS
11220.00†	7142.87	618.85	-3486.71	7168.87	7142.87	887.84	-4066.73	90.39	639.36	411.55	1.55	PASS
11320.00†	7142.56	619.95	-3586.71	7168.56	7142.56	887.84	-4066.73	90.32	549.72	425.06	1.29	PASS
11420.00†	7142.26	621.05	-3686.70	7168.26	7142.26	887.84	-4066.73	90.26	464.33	443.47	1.05	PASS
11520.00†	7141.95	622.15	-3786.69	7167.95	7141.95	887.84	-4066.73	90.19	386.02	468.39	0.82	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HERTZKE N 1-12 AWB Offset Wellpath: EX. HERTZKE N 1-12 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#03 EX. HERTZKE N 1-12 (2116'FSL & 619'FWL, CODL/PR) Well: EX. HERTZKE N 1-12 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11620.00†	7141.64	623.25	-3886.69	7167.64	7141.64	887.84	-4066.73	90.12	320.04	500.02	0.64	FAIL
11720.00†	7141.33	624.35	-3986.68	7167.33	7141.33	887.84	-4066.73	90.06	275.38	531.85	0.52	FAIL
11802.19†	7141.08	625.26	-4068.86	7166.72	7140.72	887.84	-4066.73	89.92	262.59	545.59	0.48	FAIL
11807.32†	7141.07	625.31	-4073.99	7167.07	7141.07	887.84	-4066.73	90.00	262.63	545.82	0.48	FAIL
11820.00†	7141.03	625.45	-4086.67	7167.03	7141.03	887.84	-4066.73	89.99	263.15	546.01	0.48	FAIL
11920.00†	7140.72	626.55	-4186.67	7166.72	7140.72	887.84	-4066.73	89.92	287.50	532.19	0.54	FAIL
12020.00†	7140.41	627.66	-4286.66	7166.41	7140.41	887.84	-4066.73	89.86	340.69	504.62	0.67	FAIL
12120.00†	7140.11	628.76	-4386.66	7166.11	7140.11	887.84	-4066.73	89.79	411.68	478.14	0.86	FAIL
12220.00†	7139.80	629.86	-4486.65	7165.80	7139.80	887.84	-4066.73	89.72	492.84	457.11	1.08	PASS
12320.00†	7139.49	630.96	-4586.64	7165.49	7139.49	887.84	-4066.73	89.65	579.91	441.20	1.31	PASS
12420.00†	7139.19	632.06	-4686.64	7165.19	7139.19	887.84	-4066.73	89.59	670.60	429.17	1.56	PASS
12520.00†	7138.88	633.16	-4786.63	7164.88	7138.88	887.84	-4066.73	89.52	763.62	419.94	1.82	PASS
12620.00†	7138.57	634.26	-4886.62	7164.57	7138.57	887.84	-4066.73	89.45	858.21	412.75	2.08	PASS
12720.00†	7138.26	635.36	-4986.62	7164.26	7138.26	887.84	-4066.73	89.39	953.91	407.04	2.35	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. HERTZKE N 1-12 AWB Offset Wellpath: EX. HERTZKE N 1-12 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. HERTZKE N 1-12 AWB Offset Wellpath: EX. HERTZKE N 1-12 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7329.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7329>	EX. HERTZKE N 1-12 AWB



**Clearance Report**  
**GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)**  
**Closest Approach**  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. HERTZKE N 1-12 AWB    Offset Wellpath: EX. HERTZKE N 1-12 AWP	
MD Reference: Rig on SLOT#03 EX. HERTZKE N 1-12 (2116'FSL & 619'FWL, CODL/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2C-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#15 GREELEY-ROTHER FEDERAL 12N-2C-L (1123'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12N-2C-L Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	19.00	20.00	39.77	-0.54	-0.78	39.77	1.26	129.37	PASS
120.00†	120.00	0.00	0.00	119.00	120.00	39.77	-0.54	-0.78	39.77	1.88	42.17	PASS
220.00†	220.00	0.00	0.00	219.00	220.00	39.77	-0.54	-0.78	39.77	2.45	26.07	PASS
320.00†	320.00	0.00	0.00	318.81	319.81	39.82	-0.50	-0.72	39.82	3.05	18.61	PASS
400.00	400.00	0.00	0.00	397.99	398.97	40.98	0.62	0.86	41.00	3.66	14.84	PASS
420.00†	420.00	0.04	0.06	417.77	418.74	41.52	1.13	-55.13	41.52	3.82	14.21	PASS
520.00†	519.96	1.38	2.10	516.59	517.38	45.69	5.11	-52.64	44.48	4.96	10.89	PASS
620.00†	619.78	4.65	7.05	615.28	615.64	52.30	11.43	-51.15	48.03	6.18	9.03	PASS
720.00†	719.33	9.82	14.91	713.84	713.40	61.34	20.08	-50.50	52.11	7.28	8.10	PASS
820.00†	818.50	16.91	25.66	812.25	810.53	72.79	31.02	-50.52	56.70	8.31	7.59	PASS
851.46	849.59	19.53	29.64	843.36	841.11	76.89	34.94	-50.66	58.23	8.56	7.53	PASS
920.00†	917.28	25.45	38.62	911.82	908.40	86.03	43.68	-51.17	61.44	9.00	7.52	PASS
1020.00†	1016.05	34.09	51.73	1011.71	1006.57	99.37	56.43	-51.82	66.14	9.72	7.45	PASS
1120.00†	1114.81	42.72	64.83	1111.60	1104.74	112.71	69.18	-52.38	70.84	10.50	7.33	PASS
1220.00†	1213.57	51.36	77.94	1211.48	1202.90	126.04	81.92	-52.88	75.55	11.33	7.19	PASS
1320.00†	1312.33	59.99	91.04	1311.37	1301.07	139.38	94.67	-53.31	80.26	12.22	7.05	PASS
1420.00†	1411.09	68.63	104.15	1411.26	1399.24	152.71	107.42	-53.70	84.98	13.10	6.92	PASS
1520.00†	1509.85	77.26	117.25	1511.15	1497.41	166.05	120.17	-54.05	89.70	14.03	6.79	PASS
1620.00†	1608.61	85.90	130.36	1611.03	1595.58	179.39	132.91	-54.36	94.43	14.98	6.67	PASS
1720.00†	1707.37	94.53	143.46	1710.92	1693.75	192.72	145.66	-54.65	99.16	15.95	6.55	PASS
1820.00†	1806.13	103.17	156.56	1810.81	1791.92	206.06	158.41	-54.90	103.89	16.23	6.65	PASS
1920.00†	1904.89	111.80	169.67	1910.69	1890.08	219.39	171.16	-55.14	108.62	16.35	6.90	PASS
2020.00†	2003.65	120.44	182.77	2010.58	1988.25	232.73	183.90	-55.35	113.35	16.53	7.12	PASS
2120.00†	2102.41	129.07	195.88	2110.47	2086.42	246.07	196.65	-55.55	118.08	16.78	7.30	PASS
2220.00†	2201.18	137.71	208.98	2210.36	2184.59	259.40	209.40	-55.73	122.82	17.11	7.44	PASS
2320.00†	2299.94	146.34	222.09	2310.24	2282.76	272.74	222.15	-55.90	127.56	17.51	7.55	PASS
2420.00†	2398.70	154.98	235.19	2410.13	2380.93	286.07	234.89	-56.06	132.30	17.97	7.62	PASS
2520.00†	2497.46	163.61	248.29	2510.02	2479.10	299.41	247.64	-56.21	137.04	18.49	7.67	PASS
2620.00†	2596.22	172.25	261.40	2609.90	2577.26	312.75	260.39	-56.34	141.78	19.07	7.68	PASS
2720.00†	2694.98	180.88	274.50	2709.79	2675.43	326.08	273.14	-56.47	146.52	19.69	7.68	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2C-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#15 GREELEY-ROTHER FEDERAL 12N-2C-L (1123'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12N-2C-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2809.68	2773.60	339.42	285.88	-56.59	151.26	20.36	7.66	PASS
2920.00†	2892.50	198.15	300.71	2909.56	2871.77	352.75	298.63	-56.70	156.00	21.07	7.63	PASS
3020.00†	2991.26	206.79	313.82	3009.45	2969.94	366.09	311.38	-56.81	160.74	21.82	7.58	PASS
3120.00†	3090.02	215.42	326.92	3109.34	3068.11	379.43	324.13	-56.91	165.49	22.60	7.53	PASS
3220.00†	3188.78	224.06	340.03	3209.23	3166.28	392.76	336.87	-57.00	170.23	23.40	7.47	PASS
3320.00†	3287.55	232.69	353.13	3309.11	3264.44	406.10	349.62	-57.09	174.97	24.24	7.41	PASS
3420.00†	3386.31	241.33	366.23	3409.00	3362.61	419.43	362.37	-57.17	179.72	25.10	7.34	PASS
3520.00†	3485.07	249.96	379.34	3508.89	3460.78	432.77	375.12	-57.25	184.46	25.97	7.27	PASS
3620.00†	3583.83	258.60	392.44	3608.77	3558.95	446.11	387.86	-57.33	189.21	26.87	7.20	PASS
3720.00†	3682.59	267.23	405.55	3708.66	3657.12	459.44	400.61	-57.40	193.95	27.79	7.14	PASS
3820.00†	3781.35	275.87	418.65	3808.55	3755.29	472.78	413.36	-57.47	198.70	28.72	7.07	PASS
3920.00†	3880.11	284.50	431.76	3908.44	3853.46	486.11	426.11	-57.54	203.44	29.66	7.00	PASS
4020.00†	3978.87	293.14	444.86	4008.32	3951.62	499.45	438.85	-57.60	208.19	30.62	6.94	PASS
4120.00†	4077.63	301.77	457.97	4108.21	4049.79	512.79	451.60	-57.66	212.94	31.59	6.87	PASS
4220.00†	4176.39	310.41	471.07	4208.10	4147.96	526.12	464.35	-57.72	217.68	32.57	6.81	PASS
4320.00†	4275.15	319.04	484.17	4307.98	4246.13	539.46	477.10	-57.77	222.43	33.56	6.75	PASS
4420.00†	4373.91	327.68	497.28	4407.87	4344.30	552.79	489.85	-57.82	227.18	34.56	6.69	PASS
4520.00†	4472.68	336.31	510.38	4507.76	4442.47	566.13	502.59	-57.87	231.93	35.56	6.63	PASS
4620.00†	4571.44	344.95	523.49	4607.64	4540.64	579.47	515.34	-57.92	236.67	36.57	6.58	PASS
4720.00†	4670.20	353.58	536.59	4707.53	4638.80	592.80	528.09	-57.97	241.42	37.59	6.53	PASS
4820.00†	4768.96	362.22	549.70	4807.42	4736.97	606.14	540.84	-58.01	246.17	38.62	6.47	PASS
4920.00†	4867.72	370.85	562.80	4907.31	4835.14	619.47	553.58	-58.05	250.92	39.65	6.43	PASS
5020.00†	4966.48	379.49	575.91	5007.19	4933.31	632.81	566.33	-58.10	255.66	40.69	6.38	PASS
5120.00†	5065.24	388.12	589.01	5107.08	5031.48	646.15	579.08	-58.14	260.41	41.73	6.33	PASS
5220.00†	5164.00	396.76	602.11	5206.97	5129.65	659.48	591.83	-58.17	265.16	42.77	6.29	PASS
5320.00†	5262.76	405.39	615.22	5306.85	5227.82	672.82	604.57	-58.21	269.91	43.83	6.24	PASS
5420.00†	5361.52	414.03	628.32	5406.74	5325.98	686.15	617.32	-58.25	274.66	44.88	6.20	PASS
5520.00†	5460.28	422.66	641.43	5506.63	5424.15	699.49	630.07	-58.28	279.41	45.94	6.16	PASS
5620.00†	5559.05	431.30	654.53	5606.51	5522.32	712.83	642.82	-58.31	284.15	47.00	6.12	PASS
5720.00†	5657.81	439.93	667.64	5706.40	5620.49	726.16	655.56	-58.35	288.90	48.06	6.09	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2C-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#15 GREELEY-ROTHER FEDERAL 12N-2C-L (1123'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12N-2C-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5806.29	5718.66	739.50	668.31	-58.38	293.65	49.13	6.05	PASS
5920.00†	5855.33	457.20	693.85	5906.18	5816.83	752.83	681.06	-58.41	298.40	50.20	6.02	PASS
6020.00†	5954.09	465.84	706.95	6006.06	5915.00	766.17	693.81	-58.44	303.15	51.27	5.98	PASS
6120.00†	6052.85	474.47	720.05	6105.95	6013.16	779.51	706.55	-58.47	307.90	52.35	5.95	PASS
6220.00†	6151.61	483.11	733.16	6205.84	6111.33	792.84	719.30	-58.49	312.65	53.42	5.92	PASS
6320.00†	6250.37	491.74	746.26	6305.72	6209.50	806.18	732.05	-58.52	317.40	54.50	5.89	PASS
6420.00†	6349.13	500.38	759.37	6405.61	6307.67	819.51	744.80	-58.55	322.15	55.58	5.86	PASS
6509.39	6437.41	508.10	771.08	6489.57	6390.39	831.09	752.97	-59.01	326.90	56.51	5.85	PASS
6520.00†	6447.90	509.02	772.38	6499.20	6399.91	832.51	753.27	-55.51	327.59	56.61	5.85	PASS
6620.00†	6547.35	517.82	776.00	6589.30	6488.72	846.64	749.10	20.49	335.09	57.40	5.90	PASS
6720.00†	6646.11	526.74	763.96	6678.35	6574.81	861.97	732.65	58.78	344.16	58.77	5.92	PASS
6820.00†	6741.77	535.55	736.55	6766.56	6656.77	878.20	704.60	67.16	354.48	59.75	5.99	PASS
6920.00†	6831.97	544.05	694.45	6854.14	6733.34	895.03	665.70	70.01	365.71	60.76	6.08	PASS
7020.00†	6914.48	552.02	638.70	6941.32	6803.34	912.18	616.79	71.20	377.56	62.15	6.13	PASS
7120.00†	6987.27	559.26	570.67	7028.33	6865.74	929.37	558.73	71.79	389.74	64.14	6.13	PASS
7220.00†	7048.56	565.59	492.04	7115.42	6919.53	946.33	492.46	72.17	402.00	66.88	6.06	PASS
7320.00†	7096.83	570.87	404.74	7202.84	6963.82	962.78	418.98	72.51	414.11	70.63	5.91	PASS
7420.00†	7130.89	574.96	310.91	7290.86	6997.73	978.45	339.36	72.87	425.84	74.69	5.75	PASS
7520.00†	7149.90	577.75	212.88	7379.75	7020.45	993.06	254.75	73.29	437.03	79.51	5.54	PASS
7594.38	7154.00	578.96	138.67	7446.59	7029.63	1003.08	189.34	73.66	444.88	83.29	5.38	PASS
7620.00†	7153.92	579.24	113.05	7469.81	7031.20	1006.34	166.41	73.97	447.58	84.62	5.33	PASS
7720.00†	7153.61	580.34	13.06	7566.23	7031.99	1019.05	70.84	74.51	458.91	90.11	5.13	PASS
7820.00†	7153.31	581.44	-86.94	7665.51	7031.97	1032.01	-27.59	74.93	470.38	96.15	4.92	PASS
7920.00†	7153.00	582.54	-186.93	7764.79	7031.94	1044.96	-126.02	75.33	481.87	102.64	4.72	PASS
8020.00†	7152.69	583.64	-286.92	7864.08	7031.92	1057.92	-224.46	75.71	493.39	109.52	4.53	PASS
8120.00†	7152.39	584.74	-386.92	7963.36	7031.90	1070.88	-322.89	76.08	504.93	116.69	4.35	PASS
8220.00†	7152.08	585.84	-486.91	8080.79	7031.88	1084.35	-439.54	76.44	514.97	124.88	4.14	PASS
8320.00†	7151.77	586.94	-586.90	8201.91	7031.85	1093.24	-560.32	76.68	520.99	133.29	3.92	PASS
8420.00†	7151.47	588.04	-686.90	8318.31	7031.83	1097.08	-676.65	76.78	523.01	141.57	3.71	PASS
8520.00†	7151.16	589.14	-786.89	8418.30	7031.81	1099.08	-776.63	76.83	523.82	149.49	3.52	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2C-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#15 GREELEY-ROTHER FEDERAL 12N-2C-L (1123'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12N-2C-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	8518.30	7031.79	1101.09	-876.60	76.88	524.64	157.54	3.34	PASS
8720.00†	7150.54	591.34	-986.88	8618.30	7031.77	1103.10	-976.58	76.93	525.46	165.70	3.18	PASS
8820.00†	7150.24	592.44	-1086.87	8718.29	7031.75	1105.10	-1076.55	76.99	526.28	173.95	3.03	PASS
8920.00†	7149.93	593.54	-1186.86	8818.29	7031.72	1107.11	-1176.53	77.04	527.10	182.29	2.90	PASS
9020.00†	7149.62	594.64	-1286.86	8918.28	7031.70	1109.12	-1276.51	77.09	527.92	190.69	2.78	PASS
9120.00†	7149.32	595.74	-1386.85	9018.28	7031.68	1111.12	-1376.48	77.14	528.74	199.16	2.66	PASS
9220.00†	7149.01	596.84	-1486.84	9118.27	7031.66	1113.13	-1476.46	77.19	529.56	207.68	2.56	PASS
9320.00†	7148.70	597.94	-1586.84	9218.27	7031.64	1115.14	-1576.43	77.25	530.38	216.25	2.46	PASS
9420.00†	7148.40	599.04	-1686.83	9318.26	7031.62	1117.15	-1676.41	77.30	531.20	224.87	2.37	PASS
9520.00†	7148.09	600.15	-1786.82	9418.26	7031.60	1119.15	-1776.38	77.35	532.02	233.52	2.28	PASS
9620.00†	7147.78	601.25	-1886.82	9518.26	7031.58	1121.16	-1876.36	77.40	532.84	242.21	2.20	PASS
9720.00†	7147.47	602.35	-1986.81	9618.25	7031.56	1123.17	-1976.33	77.45	533.67	250.93	2.13	PASS
9820.00†	7147.17	603.45	-2086.81	9718.25	7031.54	1125.17	-2076.31	77.50	534.49	259.68	2.06	PASS
9920.00†	7146.86	604.55	-2186.80	9818.24	7031.51	1127.18	-2176.28	77.56	535.31	268.46	2.00	PASS
10020.00†	7146.55	605.65	-2286.79	9918.24	7031.49	1129.19	-2276.26	77.61	536.14	277.26	1.94	PASS
10120.00†	7146.25	606.75	-2386.79	10018.23	7031.47	1131.19	-2376.23	77.66	536.96	286.09	1.88	PASS
10220.00†	7145.94	607.85	-2486.78	10118.23	7031.45	1133.20	-2476.21	77.71	537.79	294.93	1.83	PASS
10320.00†	7145.63	608.95	-2586.77	10218.22	7031.43	1135.21	-2576.18	77.76	538.61	303.79	1.77	PASS
10420.00†	7145.33	610.05	-2686.77	10318.22	7031.41	1137.21	-2676.16	77.81	539.44	312.67	1.73	PASS
10520.00†	7145.02	611.15	-2786.76	10418.21	7031.39	1139.22	-2776.14	77.86	540.26	321.57	1.68	PASS
10620.00†	7144.71	612.25	-2886.75	10518.21	7031.37	1141.23	-2876.11	77.91	541.09	330.48	1.64	PASS
10720.00†	7144.40	613.35	-2986.75	10618.21	7031.35	1143.24	-2976.09	77.96	541.92	339.41	1.60	PASS
10820.00†	7144.10	614.45	-3086.74	10718.20	7031.33	1145.24	-3076.06	78.01	542.74	348.35	1.56	PASS
10920.00†	7143.79	615.55	-3186.73	10818.20	7031.31	1147.25	-3176.04	78.06	543.57	357.30	1.52	PASS
11020.00†	7143.48	616.65	-3286.73	10918.19	7031.28	1149.26	-3276.01	78.10	544.40	366.26	1.49	PASS
11120.00†	7143.18	617.75	-3386.72	11018.19	7031.26	1151.26	-3375.99	78.15	545.23	375.23	1.45	PASS
11220.00†	7142.87	618.85	-3486.71	11118.18	7031.24	1153.27	-3475.96	78.20	546.06	384.22	1.42	PASS
11320.00†	7142.56	619.95	-3586.71	11218.18	7031.22	1155.28	-3575.94	78.25	546.89	393.21	1.39	PASS
11420.00†	7142.26	621.05	-3686.70	11318.17	7031.20	1157.28	-3675.91	78.30	547.72	402.22	1.36	PASS
11520.00†	7141.95	622.15	-3786.69	11418.17	7031.18	1159.29	-3775.89	78.35	548.55	411.23	1.33	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2C-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#15 GREELEY-ROTHER FEDERAL 12N-2C-L (1123'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12N-2C-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11620.00†	7141.64	623.25	-3886.69	11518.16	7031.16	1161.30	-3875.86	78.40	549.38	420.25	1.31	PASS
11720.00†	7141.33	624.35	-3986.68	11618.16	7031.14	1163.30	-3975.84	78.44	550.21	429.28	1.28	PASS
11820.00†	7141.03	625.45	-4086.67	11718.16	7031.12	1165.31	-4075.81	78.49	551.04	438.31	1.26	PASS
11920.00†	7140.72	626.55	-4186.67	11818.15	7031.10	1167.32	-4175.79	78.54	551.87	447.36	1.23	PASS
12020.00†	7140.41	627.66	-4286.66	11918.15	7031.08	1169.32	-4275.77	78.59	552.70	456.41	1.21	PASS
12120.00†	7140.11	628.76	-4386.66	12018.14	7031.05	1171.33	-4375.74	78.64	553.53	465.47	1.19	PASS
12220.00†	7139.80	629.86	-4486.65	12118.14	7031.03	1173.34	-4475.72	78.68	554.37	474.53	1.17	PASS
12320.00†	7139.49	630.96	-4586.64	12218.13	7031.01	1175.35	-4575.69	78.73	555.20	483.60	1.15	PASS
12420.00†	7139.19	632.06	-4686.64	12318.13	7030.99	1177.35	-4675.67	78.78	556.03	492.67	1.13	PASS
12520.00†	7138.88	633.16	-4786.63	12418.12	7030.97	1179.36	-4775.64	78.83	556.87	501.76	1.11	PASS
12620.00†	7138.57	634.26	-4886.62	12518.12	7030.95	1181.37	-4875.62	78.87	557.70	510.84	1.09	PASS
12720.00†	7138.26	635.36	-4986.62	12618.12	7030.93	1183.37	-4975.59	78.92	558.54	519.93	1.07	PASS
12820.00†	7137.96	636.46	-5086.61	12718.11	7030.91	1185.38	-5075.57	78.97	559.37	529.03	1.06	PASS
12920.00†	7137.65	637.56	-5186.60	12818.11	7030.89	1187.39	-5175.54	79.01	560.21	538.13	1.04	PASS
13020.00†	7137.34	638.66	-5286.60	12918.10	7030.87	1189.39	-5275.52	79.06	561.04	547.24	1.03	PASS
13120.00†	7137.04	639.76	-5386.59	13018.10	7030.84	1191.40	-5375.49	79.10	561.88	556.35	1.01	PASS
13220.00†	7136.73	640.86	-5486.58	13118.09	7030.82	1193.41	-5475.47	79.15	562.72	565.47	1.00	FAIL
13320.00†	7136.42	641.96	-5586.58	13218.09	7030.80	1195.41	-5575.44	79.20	563.55	574.59	0.98	FAIL
13420.00†	7136.12	643.06	-5686.57	13318.08	7030.78	1197.42	-5675.42	79.24	564.39	583.71	0.97	FAIL
13520.00†	7135.81	644.16	-5786.56	13418.08	7030.76	1199.43	-5775.40	79.29	565.23	592.84	0.95	FAIL
13620.00†	7135.50	645.26	-5886.56	13518.07	7030.74	1201.44	-5875.37	79.33	566.06	601.97	0.94	FAIL
13720.00†	7135.19	646.36	-5986.55	13618.07	7030.72	1203.44	-5975.35	79.38	566.90	611.11	0.93	FAIL
13820.00†	7134.89	647.46	-6086.54	13718.07	7030.70	1205.45	-6075.32	79.42	567.74	620.25	0.92	FAIL
13920.00†	7134.58	648.56	-6186.54	13818.06	7030.68	1207.46	-6175.30	79.47	568.58	629.39	0.90	FAIL
14020.00†	7134.27	649.66	-6286.53	13918.06	7030.66	1209.46	-6275.27	79.51	569.42	638.54	0.89	FAIL
14120.00†	7133.97	650.76	-6386.52	14018.05	7030.64	1211.47	-6375.25	79.56	570.26	647.69	0.88	FAIL
14220.00†	7133.66	651.86	-6486.52	14118.05	7030.61	1213.48	-6475.22	79.60	571.10	656.84	0.87	FAIL
14320.00†	7133.35	652.96	-6586.51	14218.04	7030.59	1215.48	-6575.20	79.65	571.94	666.00	0.86	FAIL
14420.00†	7133.05	654.06	-6686.51	14318.04	7030.57	1217.49	-6675.17	79.69	572.78	675.15	0.85	FAIL
14520.00†	7132.74	655.17	-6786.50	14418.03	7030.55	1219.50	-6775.15	79.74	573.62	684.32	0.84	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2C-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#15 GREELEY-ROTHER FEDERAL 12N-2C-L (1123'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12N-2C-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14620.00†	7132.43	656.27	-6886.49	14518.03	7030.53	1221.50	-6875.12	79.78	574.46	693.48	0.83	FAIL
14720.00†	7132.12	657.37	-6986.49	14618.02	7030.51	1223.51	-6975.10	79.83	575.30	702.65	0.82	FAIL
14820.00†	7131.82	658.47	-7086.48	14718.02	7030.49	1225.52	-7075.07	79.87	576.15	711.82	0.81	FAIL
14920.00†	7131.51	659.57	-7186.47	14818.02	7030.47	1227.53	-7175.05	79.91	576.99	721.00	0.80	FAIL
15020.00†	7131.20	660.67	-7286.47	14918.01	7030.45	1229.53	-7275.03	79.96	577.83	730.18	0.79	FAIL
15120.00†	7130.90	661.77	-7386.46	15018.01	7030.43	1231.54	-7375.00	80.00	578.68	739.35	0.78	FAIL
15220.00†	7130.59	662.87	-7486.45	15118.00	7030.40	1233.55	-7474.98	80.04	579.52	748.54	0.77	FAIL
15320.00†	7130.28	663.97	-7586.45	15218.00	7030.38	1235.55	-7574.95	80.09	580.36	757.72	0.77	FAIL
15420.00†	7129.98	665.07	-7686.44	15317.99	7030.36	1237.56	-7674.93	80.13	581.21	766.91	0.76	FAIL
15520.00†	7129.67	666.17	-7786.43	15417.99	7030.34	1239.57	-7774.90	80.17	582.05	776.10	0.75	FAIL
15620.00†	7129.36	667.27	-7886.43	15517.98	7030.32	1241.57	-7874.88	80.22	582.90	785.29	0.74	FAIL
15720.00†	7129.05	668.37	-7986.42	15617.98	7030.30	1243.58	-7974.85	80.26	583.74	794.49	0.73	FAIL
15820.00†	7128.75	669.47	-8086.41	15717.97	7030.28	1245.59	-8074.83	80.30	584.59	803.68	0.73	FAIL
15920.00†	7128.44	670.57	-8186.41	15817.97	7030.26	1247.59	-8174.80	80.34	585.43	812.88	0.72	FAIL
16020.00†	7128.13	671.67	-8286.40	15917.97	7030.24	1249.60	-8274.78	80.39	586.28	822.08	0.71	FAIL
16120.00†	7127.83	672.77	-8386.39	16017.96	7030.22	1251.61	-8374.75	80.43	587.12	831.29	0.71	FAIL
16220.00†	7127.52	673.87	-8486.39	16117.96	7030.20	1253.61	-8474.73	80.47	587.97	840.49	0.70	FAIL
16320.00†	7127.21	674.97	-8586.38	16217.95	7030.17	1255.62	-8574.70	80.51	588.82	849.70	0.69	FAIL
16420.00†	7126.90	676.07	-8686.37	16317.95	7030.15	1257.63	-8674.68	80.55	589.66	858.91	0.69	FAIL
16520.00†	7126.60	677.17	-8786.37	16423.92	7030.13	1259.60	-8780.63	80.60	590.39	868.30	0.68	FAIL
16620.00†	7126.29	678.27	-8886.36	16549.35	7030.11	1258.09	-8906.05	80.58	588.07	877.14	0.67	FAIL
16720.00†	7125.98	679.37	-8986.36	16674.29	7030.08	1251.13	-9030.79	80.49	581.44	884.10	0.66	FAIL
16820.00†	7125.68	680.47	-9086.35	16798.28	7030.06	1238.84	-9154.15	80.29	570.54	889.14	0.64	FAIL
16920.00†	7125.37	681.57	-9186.34	16920.85	7030.04	1221.47	-9275.47	80.00	555.44	892.25	0.62	FAIL
17020.00†	7125.06	682.68	-9286.34	17019.33	7030.03	1205.43	-9372.63	79.71	538.28	900.37	0.60	FAIL
17120.00†	7124.76	683.78	-9386.33	17117.80	7030.01	1189.38	-9469.80	79.40	521.14	908.40	0.57	FAIL
17220.00†	7124.45	684.88	-9486.32	17192.82	7030.00	1177.16	-9543.81	79.15	504.55	922.26	0.55	FAIL
17291.50†	7124.23	685.66	-9557.82	17192.82	7030.00	1177.16	-9543.81	79.15	500.65	933.80	0.54	FAIL
17320.00†	7124.14	685.98	-9586.32	17192.82	7030.00	1177.16	-9543.81	79.15	501.93	933.19	0.54	FAIL
17366.24	7124.00	686.49	-9632.55	17192.82	7030.00	1177.16	-9543.81	79.15	507.42	925.99	0.55	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## POSITIONAL UNCERTAINTY - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2C-L PWP (REV-A.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## HOLE & CASING SECTIONS - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2C-L PWP (REV-A.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	20.00	1750.00	1730.00	21.00	1732.15	24.24	-0.33	72.45	45.75
9.625in Casing Surface	20.00	1750.00	1730.00	21.00	1732.15	24.24	-0.33	72.45	45.75
8.5in Open Hole	1750.00	17192.82	15442.82	1732.15	7030.00	72.45	45.75	370.92	-2909.12

## SURVEY PROGRAM - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2C-L PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	1750.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 12N-2C-L PWB
1750.00	17192.82	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 12N-2C-L PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2C-L PWP (REV-A.0)

MD Reference: PRECISION 462 (20') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	20.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT N02-09 AWB Offset Wellpath: EX. AUFRECHT N02-09 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#03 EX. AUFRECHT N02-09 (2217'FSL & 660'FEL, CODL/SI) Well: EX. AUFRECHT N02-09 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	68.00	20.00	970.77	-5343.23	-79.70	5430.70	50.31	110.04	PASS
120.00†	120.00	0.00	0.00	168.00	120.00	970.77	-5343.23	-79.70	5430.70	51.01	108.49	PASS
220.00†	220.00	0.00	0.00	268.00	220.00	970.77	-5343.23	-79.70	5430.70	52.44	105.48	PASS
320.00†	320.00	0.00	0.00	368.00	320.00	970.77	-5343.23	-79.70	5430.70	54.51	101.41	PASS
400.00	400.00	0.00	0.00	448.00	400.00	970.77	-5343.23	-79.70	5430.70	56.54	97.70	PASS
420.00†	420.00	0.04	0.06	468.00	420.00	970.77	-5343.23	-136.32	5430.75	57.09	96.75	PASS
520.00†	519.96	1.38	2.10	567.96	519.96	970.77	-5343.23	-136.31	5432.52	60.08	91.88	PASS
620.00†	619.78	4.65	7.05	667.78	619.78	970.77	-5343.23	-136.30	5436.81	63.40	87.07	PASS
720.00†	719.33	9.82	14.91	767.33	719.33	970.77	-5343.23	-136.27	5443.62	66.94	82.49	PASS
820.00†	818.50	16.91	25.66	866.50	818.50	970.77	-5343.23	-136.24	5452.96	70.66	78.22	PASS
851.46	849.59	19.53	29.64	897.59	849.59	970.77	-5343.23	-136.22	5456.43	71.84	76.97	PASS
920.00†	917.28	25.45	38.62	965.28	917.28	970.77	-5343.23	-136.30	5464.24	74.48	74.31	PASS
1020.00†	1016.05	34.09	51.73	1064.05	1016.05	970.77	-5343.23	-136.41	5475.67	78.41	70.69	PASS
1120.00†	1114.81	42.72	64.83	1162.81	1114.81	970.77	-5343.23	-136.52	5487.11	82.43	67.34	PASS
1220.00†	1213.57	51.36	77.94	1261.57	1213.57	970.77	-5343.23	-136.64	5498.58	86.53	64.25	PASS
1320.00†	1312.33	59.99	91.04	1360.33	1312.33	970.77	-5343.23	-136.75	5510.06	90.69	61.40	PASS
1420.00†	1411.09	68.63	104.15	1459.09	1411.09	970.77	-5343.23	-136.86	5521.57	94.90	58.77	PASS
1520.00†	1509.85	77.26	117.25	1557.85	1509.85	970.77	-5343.23	-136.97	5533.10	99.16	56.34	PASS
1620.00†	1608.61	85.90	130.36	1656.61	1608.61	970.77	-5343.23	-137.08	5544.65	103.46	54.09	PASS
1720.00†	1707.37	94.53	143.46	1755.37	1707.37	970.77	-5343.23	-137.19	5556.22	107.79	52.00	PASS
1820.00†	1806.13	103.17	156.56	1854.13	1806.13	970.77	-5343.23	-137.30	5567.80	111.84	50.09	PASS
1920.00†	1904.89	111.80	169.67	1952.89	1904.89	970.77	-5343.23	-137.41	5579.41	116.11	48.34	PASS
2020.00†	2003.65	120.44	182.77	2051.65	2003.65	970.77	-5343.23	-137.51	5591.04	120.42	46.70	PASS
2120.00†	2102.41	129.07	195.88	2150.41	2102.41	970.77	-5343.23	-137.62	5602.69	124.74	45.16	PASS
2220.00†	2201.18	137.71	208.98	2249.18	2201.18	970.77	-5343.23	-137.73	5614.36	129.09	43.73	PASS
2320.00†	2299.94	146.34	222.09	2347.94	2299.94	970.77	-5343.23	-137.84	5626.05	133.47	42.37	PASS
2420.00†	2398.70	154.98	235.19	2446.70	2398.70	970.77	-5343.23	-137.94	5637.75	137.86	41.10	PASS
2520.00†	2497.46	163.61	248.29	2545.46	2497.46	970.77	-5343.23	-138.05	5649.48	142.28	39.90	PASS
2620.00†	2596.22	172.25	261.40	2644.22	2596.22	970.77	-5343.23	-138.15	5661.23	146.71	38.77	PASS
2720.00†	2694.98	180.88	274.50	2742.98	2694.98	970.77	-5343.23	-138.26	5672.99	151.17	37.70	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT N02-09 AWB Offset Wellpath: EX. AUFRECHT N02-09 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#03 EX. AUFRECHT N02-09 (2217'FSL & 660'FEL, CODL/SI) Well: EX. AUFRECHT N02-09 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2841.74	2793.74	970.77	-5343.23	-138.36	5684.78	155.64	36.69	PASS
2920.00†	2892.50	198.15	300.71	2940.50	2892.50	970.77	-5343.23	-138.47	5696.58	160.13	35.73	PASS
3020.00†	2991.26	206.79	313.82	3039.26	2991.26	970.77	-5343.23	-138.57	5708.40	164.63	34.82	PASS
3120.00†	3090.02	215.42	326.92	3138.02	3090.02	970.77	-5343.23	-138.68	5720.24	169.15	33.96	PASS
3220.00†	3188.78	224.06	340.03	3236.78	3188.78	970.77	-5343.23	-138.78	5732.10	173.68	33.13	PASS
3320.00†	3287.55	232.69	353.13	3335.55	3287.55	970.77	-5343.23	-138.88	5743.98	178.23	32.35	PASS
3420.00†	3386.31	241.33	366.23	3434.31	3386.31	970.77	-5343.23	-138.98	5755.87	182.79	31.61	PASS
3520.00†	3485.07	249.96	379.34	3533.07	3485.07	970.77	-5343.23	-139.09	5767.78	187.36	30.90	PASS
3620.00†	3583.83	258.60	392.44	3631.83	3583.83	970.77	-5343.23	-139.19	5779.72	191.95	30.22	PASS
3720.00†	3682.59	267.23	405.55	3730.59	3682.59	970.77	-5343.23	-139.29	5791.67	196.55	29.57	PASS
3820.00†	3781.35	275.87	418.65	3829.35	3781.35	970.77	-5343.23	-139.39	5803.63	201.16	28.95	PASS
3920.00†	3880.11	284.50	431.76	3928.11	3880.11	970.77	-5343.23	-139.49	5815.62	205.78	28.35	PASS
4020.00†	3978.87	293.14	444.86	4026.87	3978.87	970.77	-5343.23	-139.59	5827.62	210.42	27.79	PASS
4120.00†	4077.63	301.77	457.97	4125.63	4077.63	970.77	-5343.23	-139.69	5839.64	215.06	27.24	PASS
4220.00†	4176.39	310.41	471.07	4224.39	4176.39	970.77	-5343.23	-139.79	5851.68	219.72	26.72	PASS
4320.00†	4275.15	319.04	484.17	4323.15	4275.15	970.77	-5343.23	-139.89	5863.73	224.38	26.21	PASS
4420.00†	4373.91	327.68	497.28	4421.91	4373.91	970.77	-5343.23	-139.98	5875.81	229.05	25.73	PASS
4520.00†	4472.68	336.31	510.38	4520.68	4472.68	970.77	-5343.23	-140.08	5887.89	233.74	25.26	PASS
4620.00†	4571.44	344.95	523.49	4619.44	4571.44	970.77	-5343.23	-140.18	5900.00	238.43	24.82	PASS
4720.00†	4670.20	353.58	536.59	4718.20	4670.20	970.77	-5343.23	-140.28	5912.12	243.13	24.38	PASS
4820.00†	4768.96	362.22	549.70	4816.96	4768.96	970.77	-5343.23	-140.37	5924.26	247.84	23.97	PASS
4920.00†	4867.72	370.85	562.80	4915.72	4867.72	970.77	-5343.23	-140.47	5936.42	252.56	23.57	PASS
5020.00†	4966.48	379.49	575.91	5014.48	4966.48	970.77	-5343.23	-140.56	5948.59	257.28	23.18	PASS
5120.00†	5065.24	388.12	589.01	5113.24	5065.24	970.77	-5343.23	-140.66	5960.78	262.01	22.81	PASS
5220.00†	5164.00	396.76	602.11	5212.00	5164.00	970.77	-5343.23	-140.75	5972.99	266.75	22.45	PASS
5320.00†	5262.76	405.39	615.22	5310.76	5262.76	970.77	-5343.23	-140.85	5985.21	271.50	22.10	PASS
5420.00†	5361.52	414.03	628.32	5409.52	5361.52	970.77	-5343.23	-140.94	5997.45	276.25	21.76	PASS
5520.00†	5460.28	422.66	641.43	5508.28	5460.28	970.77	-5343.23	-141.04	6009.70	281.01	21.44	PASS
5620.00†	5559.05	431.30	654.53	5607.05	5559.05	970.77	-5343.23	-141.13	6021.97	285.78	21.12	PASS
5720.00†	5657.81	439.93	667.64	5705.81	5657.81	970.77	-5343.23	-141.22	6034.26	290.55	20.82	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT N02-09 AWB Offset Wellpath: EX. AUFRECHT N02-09 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#03 EX. AUFRECHT N02-09 (2217'FSL & 660'FEL, CODL/SI) Well: EX. AUFRECHT N02-09 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5804.57	5756.57	970.77	-5343.23	-141.32	6046.56	295.33	20.52	PASS
5920.00†	5855.33	457.20	693.85	5903.33	5855.33	970.77	-5343.23	-141.41	6058.88	300.12	20.23	PASS
6020.00†	5954.09	465.84	706.95	6002.09	5954.09	970.77	-5343.23	-141.50	6071.21	304.91	19.96	PASS
6120.00†	6052.85	474.47	720.05	6100.85	6052.85	970.77	-5343.23	-141.59	6083.56	309.70	19.69	PASS
6220.00†	6151.61	483.11	733.16	6199.61	6151.61	970.77	-5343.23	-141.68	6095.92	314.50	19.42	PASS
6320.00†	6250.37	491.74	746.26	6298.37	6250.37	970.77	-5343.23	-141.77	6108.30	319.31	19.17	PASS
6420.00†	6349.13	500.38	759.37	6397.13	6349.13	970.77	-5343.23	-141.86	6120.70	324.12	18.92	PASS
6509.39	6437.41	508.10	771.08	6485.41	6437.41	970.77	-5343.23	-141.94	6131.79	328.42	18.71	PASS
6520.00†	6447.90	509.02	772.38	6495.90	6447.90	970.77	-5343.23	-138.25	6133.02	328.93	18.68	PASS
6620.00†	6547.35	517.82	776.00	6595.35	6547.35	970.77	-5343.23	-60.46	6135.97	333.83	18.42	PASS
6720.00†	6646.11	526.74	763.96	6694.11	6646.11	970.77	-5343.23	-20.50	6123.31	339.03	18.10	PASS
6820.00†	6741.77	535.55	736.55	6789.77	6741.77	970.77	-5343.23	-10.59	6095.34	344.41	17.73	PASS
6920.00†	6831.97	544.05	694.45	6879.97	6831.97	970.77	-5343.23	-6.35	6052.74	349.34	17.36	PASS
7020.00†	6914.48	552.02	638.70	6962.48	6914.48	970.77	-5343.23	-3.85	5996.57	353.76	16.98	PASS
7120.00†	6987.27	559.26	570.67	7035.27	6987.27	970.77	-5343.23	-1.94	5928.20	357.57	16.61	PASS
7220.00†	7048.56	565.59	492.04	7096.56	7048.56	970.77	-5343.23	-0.06	5849.32	360.70	16.25	PASS
7320.00†	7096.83	570.87	404.74	7144.83	7096.83	970.77	-5343.23	2.47	5761.86	363.11	15.90	PASS
7420.00†	7130.89	574.96	310.91	7178.89	7130.89	970.77	-5343.23	7.28	5667.98	364.77	15.57	PASS
7520.00†	7149.90	577.75	212.88	7197.90	7149.90	970.77	-5343.23	23.54	5570.00	365.67	15.26	PASS
7594.38	7154.00	578.96	138.67	7202.00	7154.00	970.77	-5343.23	92.91	5495.88	365.87	15.05	PASS
7620.00†	7153.92	579.24	113.05	7201.92	7153.92	970.77	-5343.23	92.90	5470.31	365.86	14.98	PASS
7720.00†	7153.61	580.34	13.06	7201.61	7153.61	970.77	-5343.23	92.84	5370.50	365.86	14.71	PASS
7820.00†	7153.31	581.44	-86.94	7201.31	7153.31	970.77	-5343.23	92.79	5270.69	365.86	14.43	PASS
7920.00†	7153.00	582.54	-186.93	7201.00	7153.00	970.77	-5343.23	92.74	5170.89	365.86	14.16	PASS
8020.00†	7152.69	583.64	-286.92	7200.69	7152.69	970.77	-5343.23	92.68	5071.10	365.87	13.89	PASS
8120.00†	7152.39	584.74	-386.92	7200.39	7152.39	970.77	-5343.23	92.63	4971.32	365.88	13.61	PASS
8220.00†	7152.08	585.84	-486.91	7200.08	7152.08	970.77	-5343.23	92.58	4871.55	365.90	13.34	PASS
8320.00†	7151.77	586.94	-586.90	7199.77	7151.77	970.77	-5343.23	92.53	4771.79	365.92	13.06	PASS
8420.00†	7151.47	588.04	-686.90	7199.47	7151.47	970.77	-5343.23	92.47	4672.03	365.95	12.79	PASS
8520.00†	7151.16	589.14	-786.89	7199.16	7151.16	970.77	-5343.23	92.42	4572.29	365.99	12.52	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT N02-09 AWB Offset Wellpath: EX. AUFRECHT N02-09 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#03 EX. AUFRECHT N02-09 (2217'FSL & 660'FEL, CODL/SI) Well: EX. AUFRECHT N02-09 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	7198.85	7150.85	970.77	-5343.23	92.37	4472.56	366.04	12.24	PASS
8720.00†	7150.54	591.34	-986.88	7198.54	7150.54	970.77	-5343.23	92.31	4372.84	366.09	11.97	PASS
8820.00†	7150.24	592.44	-1086.87	7198.24	7150.24	970.77	-5343.23	92.26	4273.14	366.15	11.69	PASS
8920.00†	7149.93	593.54	-1186.86	7197.93	7149.93	970.77	-5343.23	92.21	4173.45	366.23	11.42	PASS
9020.00†	7149.62	594.64	-1286.86	7197.62	7149.62	970.77	-5343.23	92.15	4073.77	366.31	11.14	PASS
9120.00†	7149.32	595.74	-1386.85	7197.32	7149.32	970.77	-5343.23	92.10	3974.11	366.41	10.87	PASS
9220.00†	7149.01	596.84	-1486.84	7197.01	7149.01	970.77	-5343.23	92.05	3874.47	366.52	10.59	PASS
9320.00†	7148.70	597.94	-1586.84	7196.70	7148.70	970.77	-5343.23	92.00	3774.85	366.65	10.31	PASS
9420.00†	7148.40	599.04	-1686.83	7196.40	7148.40	970.77	-5343.23	91.94	3675.24	366.79	10.04	PASS
9520.00†	7148.09	600.15	-1786.82	7196.09	7148.09	970.77	-5343.23	91.89	3575.66	366.95	9.76	PASS
9620.00†	7147.78	601.25	-1886.82	7195.78	7147.78	970.77	-5343.23	91.84	3476.11	367.14	9.48	PASS
9720.00†	7147.47	602.35	-1986.81	7195.47	7147.47	970.77	-5343.23	91.78	3376.58	367.35	9.21	PASS
9820.00†	7147.17	603.45	-2086.81	7195.17	7147.17	970.77	-5343.23	91.73	3277.07	367.58	8.93	PASS
9920.00†	7146.86	604.55	-2186.80	7194.86	7146.86	970.77	-5343.23	91.68	3177.60	367.85	8.65	PASS
10020.00†	7146.55	605.65	-2286.79	7194.55	7146.55	970.77	-5343.23	91.62	3078.17	368.15	8.38	PASS
10120.00†	7146.25	606.75	-2386.79	7194.25	7146.25	970.77	-5343.23	91.57	2978.77	368.49	8.10	PASS
10220.00†	7145.94	607.85	-2486.78	7193.94	7145.94	970.77	-5343.23	91.52	2879.41	368.88	7.82	PASS
10320.00†	7145.63	608.95	-2586.77	7193.63	7145.63	970.77	-5343.23	91.46	2780.10	369.32	7.54	PASS
10420.00†	7145.33	610.05	-2686.77	7193.33	7145.33	970.77	-5343.23	91.41	2680.84	369.81	7.26	PASS
10520.00†	7145.02	611.15	-2786.76	7193.02	7145.02	970.77	-5343.23	91.36	2581.64	370.38	6.98	PASS
10620.00†	7144.71	612.25	-2886.75	7192.71	7144.71	970.77	-5343.23	91.31	2482.50	371.02	6.70	PASS
10720.00†	7144.40	613.35	-2986.75	7192.40	7144.40	970.77	-5343.23	91.25	2383.43	371.76	6.42	PASS
10820.00†	7144.10	614.45	-3086.74	7192.10	7144.10	970.77	-5343.23	91.20	2284.45	372.60	6.14	PASS
10920.00†	7143.79	615.55	-3186.73	7191.79	7143.79	970.77	-5343.23	91.15	2185.55	373.56	5.86	PASS
11020.00†	7143.48	616.65	-3286.73	7191.48	7143.48	970.77	-5343.23	91.09	2086.77	374.67	5.58	PASS
11120.00†	7143.18	617.75	-3386.72	7191.18	7143.18	970.77	-5343.23	91.04	1988.10	375.95	5.30	PASS
11220.00†	7142.87	618.85	-3486.71	7190.87	7142.87	970.77	-5343.23	90.99	1889.57	377.42	5.01	PASS
11320.00†	7142.56	619.95	-3586.71	7190.56	7142.56	970.77	-5343.23	90.93	1791.21	379.14	4.73	PASS
11420.00†	7142.26	621.05	-3686.70	7190.26	7142.26	970.77	-5343.23	90.88	1693.04	381.14	4.45	PASS
11520.00†	7141.95	622.15	-3786.69	7189.95	7141.95	970.77	-5343.23	90.83	1595.10	383.48	4.17	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT N02-09 AWB Offset Wellpath: EX. AUFRECHT N02-09 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#03 EX. AUFRECHT N02-09 (2217'FSL & 660'FEL, CODL/SI) Well: EX. AUFRECHT N02-09 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11620.00†	7141.64	623.25	-3886.69	7189.64	7141.64	970.77	-5343.23	90.78	1497.42	386.23	3.88	PASS
11720.00†	7141.33	624.35	-3986.68	7189.33	7141.33	970.77	-5343.23	90.72	1400.08	389.48	3.60	PASS
11820.00†	7141.03	625.45	-4086.67	7189.03	7141.03	970.77	-5343.23	90.67	1303.14	393.34	3.32	PASS
11920.00†	7140.72	626.55	-4186.67	7188.72	7140.72	970.77	-5343.23	90.62	1206.69	397.97	3.04	PASS
12020.00†	7140.41	627.66	-4286.66	7188.41	7140.41	970.77	-5343.23	90.56	1110.88	403.55	2.76	PASS
12120.00†	7140.11	628.76	-4386.66	7188.11	7140.11	970.77	-5343.23	90.51	1015.88	410.33	2.48	PASS
12220.00†	7139.80	629.86	-4486.65	7187.80	7139.80	970.77	-5343.23	90.46	921.93	418.65	2.20	PASS
12320.00†	7139.49	630.96	-4586.64	7187.49	7139.49	970.77	-5343.23	90.40	829.39	428.97	1.94	PASS
12420.00†	7139.19	632.06	-4686.64	7187.19	7139.19	970.77	-5343.23	90.35	738.81	441.88	1.67	PASS
12520.00†	7138.88	633.16	-4786.63	7186.88	7138.88	970.77	-5343.23	90.30	650.99	458.19	1.42	PASS
12620.00†	7138.57	634.26	-4886.62	7186.57	7138.57	970.77	-5343.23	90.24	567.21	478.90	1.18	PASS
12720.00†	7138.26	635.36	-4986.62	7186.26	7138.26	970.77	-5343.23	90.19	489.56	504.98	0.97	FAIL
12820.00†	7137.96	636.46	-5086.61	7185.96	7137.96	970.77	-5343.23	90.14	421.44	536.51	0.79	FAIL
12920.00†	7137.65	637.56	-5186.60	7185.65	7137.65	970.77	-5343.23	90.09	368.18	570.45	0.64	FAIL
13020.00†	7137.34	638.66	-5286.60	7185.34	7137.34	970.77	-5343.23	90.03	336.90	597.43	0.56	FAIL
13081.02†	7137.16	639.33	-5347.61	7185.78	7137.78	970.77	-5343.23	90.11	331.46	604.76	0.55	FAIL
13086.26†	7137.14	639.39	-5352.85	7185.14	7137.14	970.77	-5343.23	90.00	331.52	604.95	0.55	FAIL
13120.00†	7137.04	639.76	-5386.59	7185.04	7137.04	970.77	-5343.23	89.98	333.83	604.64	0.55	FAIL
13220.00†	7136.73	640.86	-5486.58	7184.73	7136.73	970.77	-5343.23	89.93	359.71	589.31	0.61	FAIL
13320.00†	7136.42	641.96	-5586.58	7184.42	7136.42	970.77	-5343.23	89.87	409.06	561.99	0.73	FAIL
13420.00†	7136.12	643.06	-5686.57	7184.12	7136.12	970.77	-5343.23	89.82	474.63	533.50	0.89	FAIL
13520.00†	7135.81	644.16	-5786.56	7183.81	7135.81	970.77	-5343.23	89.77	550.65	508.67	1.08	PASS
13620.00†	7135.50	645.26	-5886.56	7183.50	7135.50	970.77	-5343.23	89.71	633.37	488.35	1.30	PASS
13720.00†	7135.19	646.36	-5986.55	7183.19	7135.19	970.77	-5343.23	89.66	720.49	472.02	1.53	PASS
13820.00†	7134.89	647.46	-6086.54	7182.89	7134.89	970.77	-5343.23	89.61	810.58	458.90	1.77	PASS
13920.00†	7134.58	648.56	-6186.54	7182.58	7134.58	970.77	-5343.23	89.55	902.77	448.26	2.02	PASS
14020.00†	7134.27	649.66	-6286.53	7182.27	7134.27	970.77	-5343.23	89.50	996.46	439.54	2.27	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. AUFRECHT N02-09 AWB Offset Wellpath: EX. AUFRECHT N02-09 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. AUFRECHT N02-09 AWB Offset Wellpath: EX. AUFRECHT N02-09 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7361.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7361'>	EX. AUFRECHT N02-09 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. AUFRECHT N02-09 AWB Offset Wellpath: EX. AUFRECHT N02-09 AWP

MD Reference: Rig on SLOT#03 EX. AUFRECHT N02-09 (2217'FSL & 660'FEL, CODL/SI) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT N 02-10 AWB Offset Wellpath: EX. AUFRECHT N 02-10 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#02 EX. AUFRECHT N 02-10 (2252'FSL & 1849'FEL, COOL/PR) Well: EX. AUFRECHT N 02-10 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	78.00	20.00	1025.70	-6533.96	-81.08	6613.97	50.33	133.96	PASS
120.00†	120.00	0.00	0.00	178.00	120.00	1025.70	-6533.96	-81.08	6613.97	51.11	131.89	PASS
220.00†	220.00	0.00	0.00	278.00	220.00	1025.70	-6533.96	-81.08	6613.97	52.60	128.06	PASS
320.00†	320.00	0.00	0.00	378.00	320.00	1025.70	-6533.96	-81.08	6613.97	54.73	123.00	PASS
400.00	400.00	0.00	0.00	458.00	400.00	1025.70	-6533.96	-81.08	6613.97	56.81	118.41	PASS
420.00†	420.00	0.04	0.06	478.00	420.00	1025.70	-6533.96	-137.70	6614.03	57.36	117.26	PASS
520.00†	519.96	1.38	2.10	577.96	519.96	1025.70	-6533.96	-137.69	6615.83	60.39	111.32	PASS
620.00†	619.78	4.65	7.05	677.78	619.78	1025.70	-6533.96	-137.66	6620.22	63.74	105.45	PASS
720.00†	719.33	9.82	14.91	777.33	719.33	1025.70	-6533.96	-137.62	6627.19	67.31	99.88	PASS
820.00†	818.50	16.91	25.66	876.50	818.50	1025.70	-6533.96	-137.57	6636.74	71.04	94.69	PASS
851.46	849.59	19.53	29.64	907.59	849.59	1025.70	-6533.96	-137.55	6640.27	72.23	93.16	PASS
920.00†	917.28	25.45	38.62	975.28	917.28	1025.70	-6533.96	-137.61	6648.26	74.87	89.94	PASS
1020.00†	1016.05	34.09	51.73	1074.05	1016.05	1025.70	-6533.96	-137.70	6659.92	78.81	85.54	PASS
1120.00†	1114.81	42.72	64.83	1172.81	1114.81	1025.70	-6533.96	-137.79	6671.60	82.84	81.47	PASS
1220.00†	1213.57	51.36	77.94	1271.57	1213.57	1025.70	-6533.96	-137.88	6683.30	86.94	77.72	PASS
1320.00†	1312.33	59.99	91.04	1370.33	1312.33	1025.70	-6533.96	-137.97	6695.01	91.11	74.26	PASS
1420.00†	1411.09	68.63	104.15	1469.09	1411.09	1025.70	-6533.96	-138.06	6706.74	95.32	71.07	PASS
1520.00†	1509.85	77.26	117.25	1567.85	1509.85	1025.70	-6533.96	-138.15	6718.49	99.58	68.12	PASS
1620.00†	1608.61	85.90	130.36	1666.61	1608.61	1025.70	-6533.96	-138.24	6730.25	103.88	65.38	PASS
1720.00†	1707.37	94.53	143.46	1765.37	1707.37	1025.70	-6533.96	-138.32	6742.03	108.22	62.85	PASS
1820.00†	1806.13	103.17	156.56	1864.13	1806.13	1025.70	-6533.96	-138.41	6753.82	112.27	60.53	PASS
1920.00†	1904.89	111.80	169.67	1962.89	1904.89	1025.70	-6533.96	-138.50	6765.63	116.54	58.40	PASS
2020.00†	2003.65	120.44	182.77	2061.65	2003.65	1025.70	-6533.96	-138.59	6777.46	120.84	56.41	PASS
2120.00†	2102.41	129.07	195.88	2160.41	2102.41	1025.70	-6533.96	-138.68	6789.30	125.17	54.54	PASS
2220.00†	2201.18	137.71	208.98	2259.18	2201.18	1025.70	-6533.96	-138.76	6801.16	129.52	52.79	PASS
2320.00†	2299.94	146.34	222.09	2357.94	2299.94	1025.70	-6533.96	-138.85	6813.03	133.90	51.15	PASS
2420.00†	2398.70	154.98	235.19	2456.70	2398.70	1025.70	-6533.96	-138.93	6824.92	138.30	49.60	PASS
2520.00†	2497.46	163.61	248.29	2555.46	2497.46	1025.70	-6533.96	-139.02	6836.82	142.71	48.14	PASS
2620.00†	2596.22	172.25	261.40	2654.22	2596.22	1025.70	-6533.96	-139.11	6848.74	147.15	46.76	PASS
2720.00†	2694.98	180.88	274.50	2752.98	2694.98	1025.70	-6533.96	-139.19	6860.68	151.60	45.46	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT N 02-10 AWB Offset Wellpath: EX. AUFRECHT N 02-10 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#02 EX. AUFRECHT N 02-10 (2252'FSL & 1849'FEL, COOL/PR) Well: EX. AUFRECHT N 02-10 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2851.74	2793.74	1025.70	-6533.96	-139.28	6872.62	156.07	44.23	PASS
2920.00†	2892.50	198.15	300.71	2950.50	2892.50	1025.70	-6533.96	-139.36	6884.59	160.56	43.06	PASS
3020.00†	2991.26	206.79	313.82	3049.26	2991.26	1025.70	-6533.96	-139.45	6896.57	165.07	41.96	PASS
3120.00†	3090.02	215.42	326.92	3148.02	3090.02	1025.70	-6533.96	-139.53	6908.56	169.59	40.90	PASS
3220.00†	3188.78	224.06	340.03	3246.78	3188.78	1025.70	-6533.96	-139.61	6920.57	174.12	39.90	PASS
3320.00†	3287.55	232.69	353.13	3345.55	3287.55	1025.70	-6533.96	-139.70	6932.59	178.67	38.95	PASS
3420.00†	3386.31	241.33	366.23	3444.31	3386.31	1025.70	-6533.96	-139.78	6944.63	183.23	38.04	PASS
3520.00†	3485.07	249.96	379.34	3543.07	3485.07	1025.70	-6533.96	-139.86	6956.68	187.80	37.18	PASS
3620.00†	3583.83	258.60	392.44	3641.83	3583.83	1025.70	-6533.96	-139.95	6968.75	192.39	36.35	PASS
3720.00†	3682.59	267.23	405.55	3740.59	3682.59	1025.70	-6533.96	-140.03	6980.83	196.99	35.56	PASS
3820.00†	3781.35	275.87	418.65	3839.35	3781.35	1025.70	-6533.96	-140.11	6992.93	201.60	34.81	PASS
3920.00†	3880.11	284.50	431.76	3938.11	3880.11	1025.70	-6533.96	-140.19	7005.04	206.22	34.08	PASS
4020.00†	3978.87	293.14	444.86	4036.87	3978.87	1025.70	-6533.96	-140.27	7017.16	210.86	33.39	PASS
4120.00†	4077.63	301.77	457.97	4135.63	4077.63	1025.70	-6533.96	-140.36	7029.30	215.50	32.72	PASS
4220.00†	4176.39	310.41	471.07	4234.39	4176.39	1025.70	-6533.96	-140.44	7041.45	220.16	32.08	PASS
4320.00†	4275.15	319.04	484.17	4333.15	4275.15	1025.70	-6533.96	-140.52	7053.62	224.82	31.47	PASS
4420.00†	4373.91	327.68	497.28	4431.91	4373.91	1025.70	-6533.96	-140.60	7065.80	229.50	30.88	PASS
4520.00†	4472.68	336.31	510.38	4530.68	4472.68	1025.70	-6533.96	-140.68	7077.99	234.18	30.31	PASS
4620.00†	4571.44	344.95	523.49	4629.44	4571.44	1025.70	-6533.96	-140.76	7090.20	238.87	29.77	PASS
4720.00†	4670.20	353.58	536.59	4728.20	4670.20	1025.70	-6533.96	-140.84	7102.42	243.57	29.24	PASS
4820.00†	4768.96	362.22	549.70	4826.96	4768.96	1025.70	-6533.96	-140.92	7114.66	248.28	28.73	PASS
4920.00†	4867.72	370.85	562.80	4925.72	4867.72	1025.70	-6533.96	-141.00	7126.91	253.00	28.25	PASS
5020.00†	4966.48	379.49	575.91	5024.48	4966.48	1025.70	-6533.96	-141.07	7139.17	257.72	27.77	PASS
5120.00†	5065.24	388.12	589.01	5123.24	5065.24	1025.70	-6533.96	-141.15	7151.45	262.46	27.32	PASS
5220.00†	5164.00	396.76	602.11	5222.00	5164.00	1025.70	-6533.96	-141.23	7163.73	267.20	26.88	PASS
5320.00†	5262.76	405.39	615.22	5320.76	5262.76	1025.70	-6533.96	-141.31	7176.04	271.94	26.45	PASS
5420.00†	5361.52	414.03	628.32	5419.52	5361.52	1025.70	-6533.96	-141.39	7188.35	276.70	26.04	PASS
5520.00†	5460.28	422.66	641.43	5518.28	5460.28	1025.70	-6533.96	-141.47	7200.68	281.46	25.65	PASS
5620.00†	5559.05	431.30	654.53	5617.05	5559.05	1025.70	-6533.96	-141.54	7213.02	286.22	25.26	PASS
5720.00†	5657.81	439.93	667.64	5715.81	5657.81	1025.70	-6533.96	-141.62	7225.38	291.00	24.89	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT N 02-10 AWB Offset Wellpath: EX. AUFRECHT N 02-10 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#02 EX. AUFRECHT N 02-10 (2252'FSL & 1849'FEL, COOL/PR) Well: EX. AUFRECHT N 02-10 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5814.57	5756.57	1025.70	-6533.96	-141.70	7237.75	295.78	24.53	PASS
5920.00†	5855.33	457.20	693.85	5913.33	5855.33	1025.70	-6533.96	-141.77	7250.13	300.56	24.18	PASS
6020.00†	5954.09	465.84	706.95	6012.09	5954.09	1025.70	-6533.96	-141.85	7262.52	305.35	23.84	PASS
6120.00†	6052.85	474.47	720.05	6110.85	6052.85	1025.70	-6533.96	-141.93	7274.93	310.15	23.51	PASS
6220.00†	6151.61	483.11	733.16	6209.61	6151.61	1025.70	-6533.96	-142.00	7287.34	314.95	23.19	PASS
6320.00†	6250.37	491.74	746.26	6308.37	6250.37	1025.70	-6533.96	-142.08	7299.78	319.75	22.88	PASS
6420.00†	6349.13	500.38	759.37	6407.13	6349.13	1025.70	-6533.96	-142.15	7312.22	324.56	22.58	PASS
6509.39	6437.41	508.10	771.08	6495.41	6437.41	1025.70	-6533.96	-142.22	7323.35	328.87	22.31	PASS
6520.00†	6447.90	509.02	772.38	6505.90	6447.90	1025.70	-6533.96	-138.52	7324.59	329.38	22.28	PASS
6620.00†	6547.35	517.82	776.00	6605.35	6547.35	1025.70	-6533.96	-60.72	7327.58	334.28	21.96	PASS
6720.00†	6646.11	526.74	763.96	6704.11	6646.11	1025.70	-6533.96	-20.75	7314.95	339.48	21.59	PASS
6820.00†	6741.77	535.55	736.55	6799.77	6741.77	1025.70	-6533.96	-10.84	7287.01	344.87	21.17	PASS
6920.00†	6831.97	544.05	694.45	6889.97	6831.97	1025.70	-6533.96	-6.61	7244.44	349.80	20.75	PASS
7020.00†	6914.48	552.02	638.70	6972.48	6914.48	1025.70	-6533.96	-4.13	7188.29	354.21	20.33	PASS
7120.00†	6987.27	559.26	570.67	7045.27	6987.27	1025.70	-6533.96	-2.28	7119.93	358.02	19.92	PASS
7220.00†	7048.56	565.59	492.04	7106.56	7048.56	1025.70	-6533.96	-0.47	7041.05	361.16	19.53	PASS
7320.00†	7096.83	570.87	404.74	7154.83	7096.83	1025.70	-6533.96	1.91	6953.59	363.57	19.16	PASS
7420.00†	7130.89	574.96	310.91	7188.89	7130.89	1025.70	-6533.96	6.40	6859.70	365.22	18.82	PASS
7520.00†	7149.90	577.75	212.88	7207.90	7149.90	1025.70	-6533.96	21.67	6761.70	366.12	18.50	PASS
7594.38	7154.00	578.96	138.67	7212.00	7154.00	1025.70	-6533.96	93.14	6687.56	366.32	18.29	PASS
7620.00†	7153.92	579.24	113.05	7211.92	7153.92	1025.70	-6533.96	93.13	6661.99	366.31	18.22	PASS
7720.00†	7153.61	580.34	13.06	7211.61	7153.61	1025.70	-6533.96	93.08	6562.15	366.31	17.95	PASS
7820.00†	7153.31	581.44	-86.94	7211.31	7153.31	1025.70	-6533.96	93.04	6462.31	366.30	17.67	PASS
7920.00†	7153.00	582.54	-186.93	7211.00	7153.00	1025.70	-6533.96	92.99	6362.48	366.30	17.40	PASS
8020.00†	7152.69	583.64	-286.92	7210.69	7152.69	1025.70	-6533.96	92.94	6262.66	366.31	17.13	PASS
8120.00†	7152.39	584.74	-386.92	7210.39	7152.39	1025.70	-6533.96	92.90	6162.84	366.32	16.85	PASS
8220.00†	7152.08	585.84	-486.91	7210.08	7152.08	1025.70	-6533.96	92.85	6063.02	366.33	16.58	PASS
8320.00†	7151.77	586.94	-586.90	7209.77	7151.77	1025.70	-6533.96	92.80	5963.22	366.35	16.31	PASS
8420.00†	7151.47	588.04	-686.90	7209.47	7151.47	1025.70	-6533.96	92.76	5863.42	366.37	16.03	PASS
8520.00†	7151.16	589.14	-786.89	7209.16	7151.16	1025.70	-6533.96	92.71	5763.62	366.40	15.76	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT N 02-10 AWB Offset Wellpath: EX. AUFRECHT N 02-10 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#02 EX. AUFRECHT N 02-10 (2252'FSL & 1849'FEL, CODL/PR) Well: EX. AUFRECHT N 02-10 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	7208.85	7150.85	1025.70	-6533.96	92.66	5663.84	366.43	15.48	PASS
8720.00†	7150.54	591.34	-986.88	7208.54	7150.54	1025.70	-6533.96	92.61	5564.06	366.47	15.21	PASS
8820.00†	7150.24	592.44	-1086.87	7208.24	7150.24	1025.70	-6533.96	92.57	5464.29	366.52	14.94	PASS
8920.00†	7149.93	593.54	-1186.86	7207.93	7149.93	1025.70	-6533.96	92.52	5364.53	366.57	14.66	PASS
9020.00†	7149.62	594.64	-1286.86	7207.62	7149.62	1025.70	-6533.96	92.47	5264.78	366.63	14.39	PASS
9120.00†	7149.32	595.74	-1386.85	7207.32	7149.32	1025.70	-6533.96	92.43	5165.03	366.70	14.11	PASS
9220.00†	7149.01	596.84	-1486.84	7207.01	7149.01	1025.70	-6533.96	92.38	5065.30	366.78	13.84	PASS
9320.00†	7148.70	597.94	-1586.84	7206.70	7148.70	1025.70	-6533.96	92.33	4965.58	366.86	13.56	PASS
9420.00†	7148.40	599.04	-1686.83	7206.40	7148.40	1025.70	-6533.96	92.29	4865.87	366.96	13.28	PASS
9520.00†	7148.09	600.15	-1786.82	7206.09	7148.09	1025.70	-6533.96	92.24	4766.17	367.07	13.01	PASS
9620.00†	7147.78	601.25	-1886.82	7205.78	7147.78	1025.70	-6533.96	92.19	4666.48	367.19	12.73	PASS
9720.00†	7147.47	602.35	-1986.81	7205.47	7147.47	1025.70	-6533.96	92.14	4566.81	367.33	12.45	PASS
9820.00†	7147.17	603.45	-2086.81	7205.17	7147.17	1025.70	-6533.96	92.10	4467.15	367.48	12.18	PASS
9920.00†	7146.86	604.55	-2186.80	7204.86	7146.86	1025.70	-6533.96	92.05	4367.51	367.64	11.90	PASS
10020.00†	7146.55	605.65	-2286.79	7204.55	7146.55	1025.70	-6533.96	92.00	4267.89	367.82	11.62	PASS
10120.00†	7146.25	606.75	-2386.79	7204.25	7146.25	1025.70	-6533.96	91.96	4168.28	368.02	11.35	PASS
10220.00†	7145.94	607.85	-2486.78	7203.94	7145.94	1025.70	-6533.96	91.91	4068.69	368.25	11.07	PASS
10320.00†	7145.63	608.95	-2586.77	7203.63	7145.63	1025.70	-6533.96	91.86	3969.12	368.49	10.79	PASS
10420.00†	7145.33	610.05	-2686.77	7203.33	7145.33	1025.70	-6533.96	91.81	3869.58	368.76	10.51	PASS
10520.00†	7145.02	611.15	-2786.76	7203.02	7145.02	1025.70	-6533.96	91.77	3770.06	369.06	10.23	PASS
10620.00†	7144.71	612.25	-2886.75	7202.71	7144.71	1025.70	-6533.96	91.72	3670.56	369.39	9.95	PASS
10720.00†	7144.40	613.35	-2986.75	7202.40	7144.40	1025.70	-6533.96	91.67	3571.10	369.76	9.67	PASS
10820.00†	7144.10	614.45	-3086.74	7202.10	7144.10	1025.70	-6533.96	91.63	3471.66	370.16	9.39	PASS
10920.00†	7143.79	615.55	-3186.73	7201.79	7143.79	1025.70	-6533.96	91.58	3372.26	370.61	9.11	PASS
11020.00†	7143.48	616.65	-3286.73	7201.48	7143.48	1025.70	-6533.96	91.53	3272.89	371.10	8.83	PASS
11120.00†	7143.18	617.75	-3386.72	7201.18	7143.18	1025.70	-6533.96	91.49	3173.57	371.65	8.55	PASS
11220.00†	7142.87	618.85	-3486.71	7200.87	7142.87	1025.70	-6533.96	91.44	3074.28	372.26	8.27	PASS
11320.00†	7142.56	619.95	-3586.71	7200.56	7142.56	1025.70	-6533.96	91.39	2975.05	372.94	7.99	PASS
11420.00†	7142.26	621.05	-3686.70	7200.26	7142.26	1025.70	-6533.96	91.34	2875.87	373.69	7.71	PASS
11520.00†	7141.95	622.15	-3786.69	7199.95	7141.95	1025.70	-6533.96	91.30	2776.74	374.53	7.43	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT N 02-10 AWB Offset Wellpath: EX. AUFRECHT N 02-10 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#02 EX. AUFRECHT N 02-10 (2252'FSL & 1849'FEL, CODL/PR) Well: EX. AUFRECHT N 02-10 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11620.00†	7141.64	623.25	-3886.69	7199.64	7141.64	1025.70	-6533.96	91.25	2677.69	375.46	7.14	PASS
11720.00†	7141.33	624.35	-3986.68	7199.33	7141.33	1025.70	-6533.96	91.20	2578.70	376.51	6.86	PASS
11820.00†	7141.03	625.45	-4086.67	7199.03	7141.03	1025.70	-6533.96	91.16	2479.80	377.68	6.58	PASS
11920.00†	7140.72	626.55	-4186.67	7198.72	7140.72	1025.70	-6533.96	91.11	2380.98	378.99	6.29	PASS
12020.00†	7140.41	627.66	-4286.66	7198.41	7140.41	1025.70	-6533.96	91.06	2282.27	380.47	6.01	PASS
12120.00†	7140.11	628.76	-4386.66	7198.11	7140.11	1025.70	-6533.96	91.01	2183.68	382.13	5.72	PASS
12220.00†	7139.80	629.86	-4486.65	7197.80	7139.80	1025.70	-6533.96	90.97	2085.23	384.02	5.44	PASS
12320.00†	7139.49	630.96	-4586.64	7197.49	7139.49	1025.70	-6533.96	90.92	1986.92	386.16	5.15	PASS
12420.00†	7139.19	632.06	-4686.64	7197.19	7139.19	1025.70	-6533.96	90.87	1888.80	388.59	4.87	PASS
12520.00†	7138.88	633.16	-4786.63	7196.88	7138.88	1025.70	-6533.96	90.83	1790.88	391.36	4.58	PASS
12620.00†	7138.57	634.26	-4886.62	7196.57	7138.57	1025.70	-6533.96	90.78	1693.20	394.54	4.30	PASS
12720.00†	7138.26	635.36	-4986.62	7196.26	7138.26	1025.70	-6533.96	90.73	1595.82	398.19	4.01	PASS
12820.00†	7137.96	636.46	-5086.61	7195.96	7137.96	1025.70	-6533.96	90.68	1498.77	402.42	3.73	PASS
12920.00†	7137.65	637.56	-5186.60	7195.65	7137.65	1025.70	-6533.96	90.64	1402.15	407.33	3.45	PASS
13020.00†	7137.34	638.66	-5286.60	7195.34	7137.34	1025.70	-6533.96	90.59	1306.03	413.06	3.17	PASS
13120.00†	7137.04	639.76	-5386.59	7195.04	7137.04	1025.70	-6533.96	90.54	1210.54	419.81	2.89	PASS
13220.00†	7136.73	640.86	-5486.58	7194.73	7136.73	1025.70	-6533.96	90.50	1115.84	427.80	2.61	PASS
13320.00†	7136.42	641.96	-5586.58	7194.42	7136.42	1025.70	-6533.96	90.45	1022.15	437.35	2.34	PASS
13420.00†	7136.12	643.06	-5686.57	7194.12	7136.12	1025.70	-6533.96	90.40	929.77	448.85	2.07	PASS
13520.00†	7135.81	644.16	-5786.56	7193.81	7135.81	1025.70	-6533.96	90.35	839.15	462.82	1.81	PASS
13620.00†	7135.50	645.26	-5886.56	7193.50	7135.50	1025.70	-6533.96	90.31	750.91	479.93	1.57	PASS
13720.00†	7135.19	646.36	-5986.55	7193.19	7135.19	1025.70	-6533.96	90.26	666.00	500.97	1.33	PASS
13820.00†	7134.89	647.46	-6086.54	7192.89	7134.89	1025.70	-6533.96	90.21	585.87	526.82	1.11	PASS
13920.00†	7134.58	648.56	-6186.54	7192.58	7134.58	1025.70	-6533.96	90.17	512.77	557.95	0.92	FAIL
14020.00†	7134.27	649.66	-6286.53	7192.27	7134.27	1025.70	-6533.96	90.12	450.14	593.41	0.76	FAIL
14120.00†	7133.97	650.76	-6386.52	7191.97	7133.97	1025.70	-6533.96	90.07	402.88	628.67	0.64	FAIL
14220.00†	7133.66	651.86	-6486.52	7191.66	7133.66	1025.70	-6533.96	90.02	376.83	654.05	0.58	FAIL
14271.25†	7133.50	652.43	-6537.76	7193.12	7135.13	1025.70	-6533.96	90.25	373.29	659.64	0.57	FAIL
14278.26†	7133.48	652.51	-6544.78	7191.48	7133.48	1025.70	-6533.96	90.00	373.35	659.86	0.57	FAIL
14320.00†	7133.35	652.96	-6586.51	7191.35	7133.35	1025.70	-6533.96	89.98	376.42	659.14	0.57	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT N 02-10 AWB Offset Wellpath: EX. AUFRECHT N 02-10 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#02 EX. AUFRECHT N 02-10 (2252'FSL & 1849'FEL, CODL/PR) Well: EX. AUFRECHT N 02-10 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14420.00†	7133.05	654.06	-6686.51	7191.05	7133.05	1025.70	-6533.96	89.93	401.73	642.81	0.62	FAIL
14520.00†	7132.74	655.17	-6786.50	7190.74	7132.74	1025.70	-6533.96	89.88	448.41	614.21	0.73	FAIL
14620.00†	7132.43	656.27	-6886.49	7190.43	7132.43	1025.70	-6533.96	89.84	510.65	583.14	0.88	FAIL
14720.00†	7132.12	657.37	-6986.49	7190.12	7132.12	1025.70	-6533.96	89.79	583.48	554.78	1.05	PASS
14820.00†	7131.82	658.47	-7086.48	7189.82	7131.82	1025.70	-6533.96	89.74	663.43	530.67	1.25	PASS
14920.00†	7131.51	659.57	-7186.47	7189.51	7131.51	1025.70	-6533.96	89.69	748.22	510.70	1.47	PASS
15020.00†	7131.20	660.67	-7286.47	7189.20	7131.20	1025.70	-6533.96	89.65	836.37	494.25	1.69	PASS
15120.00†	7130.90	661.77	-7386.46	7188.90	7130.90	1025.70	-6533.96	89.60	926.93	480.66	1.93	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. AUFRECHT N 02-10 AWB Offset Wellpath: EX. AUFRECHT N 02-10 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. AUFRECHT N 02-10 AWB Offset Wellpath: EX. AUFRECHT N 02-10 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7840.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7840>	EX. AUFRECHT N 02-10 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. AUFRECHT N 02-10 AWB Offset Wellpath: EX. AUFRECHT N 02-10 AWP

MD Reference: Rig on SLOT#02 EX. AUFRECHT N 02-10 (2252'FSL & 1849'FEL, CODL/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#19 GREELEY-ROTHER FEDERAL 33N-2B-L (1043'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 33N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	20.00	20.00	-40.07	0.54	179.23	40.08	1.56	65.19	PASS
120.00†	120.00	0.00	0.00	120.00	120.00	-40.07	0.54	179.23	40.08	1.88	42.59	PASS
220.00†	220.00	0.00	0.00	220.00	220.00	-40.07	0.54	179.23	40.08	2.45	26.34	PASS
320.00†	320.00	0.00	0.00	320.00	320.00	-40.07	0.54	179.23	40.08	3.05	18.74	PASS
400.00	400.00	0.00	0.00	400.00	400.00	-40.07	0.54	179.23	40.08	3.54	15.18	PASS
420.00†	420.00	0.04	0.06	420.00	420.00	-40.07	0.54	122.69	40.12	3.66	14.51	PASS
520.00†	519.96	1.38	2.10	520.06	520.06	-40.05	0.61	125.42	41.46	4.36	11.93	PASS
620.00†	619.78	4.65	7.05	620.54	620.51	-39.31	2.96	128.67	44.15	5.30	9.96	PASS
720.00†	719.33	9.82	14.91	721.12	720.90	-37.50	8.67	130.87	47.76	6.31	8.75	PASS
820.00†	818.50	16.91	25.66	821.78	821.10	-34.63	17.75	132.11	52.21	7.31	8.08	PASS
851.46	849.59	19.53	29.64	853.46	852.56	-33.50	21.30	132.33	53.77	7.60	7.96	PASS
920.00†	917.28	25.45	38.62	922.47	920.94	-30.70	30.18	132.01	56.90	8.13	7.80	PASS
1020.00†	1016.05	34.09	51.73	1022.37	1019.79	-26.33	43.96	130.78	61.03	8.85	7.61	PASS
1120.00†	1114.81	42.72	64.83	1122.28	1118.65	-21.97	57.74	129.70	65.20	9.66	7.39	PASS
1220.00†	1213.57	51.36	77.94	1222.19	1217.50	-17.61	71.52	128.75	69.38	10.52	7.16	PASS
1320.00†	1312.33	59.99	91.04	1322.09	1316.36	-13.25	85.30	127.91	73.58	11.42	6.94	PASS
1420.00†	1411.09	68.63	104.15	1422.00	1415.21	-8.89	99.09	127.16	77.79	12.36	6.74	PASS
1520.00†	1509.85	77.26	117.25	1521.90	1514.07	-4.53	112.87	126.48	82.02	13.32	6.56	PASS
1620.00†	1608.61	85.90	130.36	1621.81	1612.92	-0.17	126.65	125.88	86.25	14.31	6.39	PASS
1720.00†	1707.37	94.53	143.46	1721.72	1711.78	4.19	140.43	125.33	90.50	15.30	6.24	PASS
1820.00†	1806.13	103.17	156.56	1821.62	1810.63	8.55	154.21	124.83	94.75	15.58	6.33	PASS
1920.00†	1904.89	111.80	169.67	1921.53	1909.49	12.91	167.99	124.37	99.01	15.68	6.56	PASS
2020.00†	2003.65	120.44	182.77	2021.44	2008.34	17.27	181.77	123.95	103.27	15.87	6.76	PASS
2120.00†	2102.41	129.07	195.88	2121.34	2107.20	21.64	195.56	123.56	107.54	16.14	6.92	PASS
2220.00†	2201.18	137.71	208.98	2221.25	2206.05	26.00	209.34	123.20	111.82	16.48	7.04	PASS
2320.00†	2299.94	146.34	222.09	2321.15	2304.91	30.36	223.12	122.87	116.09	16.89	7.13	PASS
2420.00†	2398.70	154.98	235.19	2421.06	2403.76	34.72	236.90	122.57	120.38	17.37	7.18	PASS
2520.00†	2497.46	163.61	248.29	2520.97	2502.62	39.08	250.68	122.28	124.66	17.91	7.21	PASS
2620.00†	2596.22	172.25	261.40	2620.87	2601.47	43.44	264.46	122.01	128.95	18.50	7.21	PASS
2720.00†	2694.98	180.88	274.50	2720.78	2700.33	47.80	278.24	121.76	133.24	19.13	7.19	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHE FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHE FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHE FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHE FEDERAL 33N-2B-L PWB Offset Wellpath: GREELEY-ROTHE FEDERAL 33N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#19 GREELEY-ROTHE FEDERAL 33N-2B-L (1043'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHE FEDERAL 33N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2820.69	2799.18	52.16	292.02	121.53	137.53	19.82	7.16	PASS
2920.00†	2892.50	198.15	300.71	2920.59	2898.04	56.52	305.81	121.31	141.83	20.54	7.12	PASS
3020.00†	2991.26	206.79	313.82	3020.50	2996.89	60.88	319.59	121.10	146.13	21.30	7.06	PASS
3120.00†	3090.02	215.42	326.92	3120.41	3095.75	65.25	333.37	120.91	150.42	22.08	7.00	PASS
3220.00†	3188.78	224.06	340.03	3220.31	3194.60	69.61	347.15	120.72	154.72	22.90	6.94	PASS
3320.00†	3287.55	232.69	353.13	3320.22	3293.46	73.97	360.93	120.55	159.03	23.74	6.87	PASS
3420.00†	3386.31	241.33	366.23	3420.12	3392.32	78.33	374.71	120.38	163.33	24.61	6.80	PASS
3520.00†	3485.07	249.96	379.34	3520.03	3491.17	82.69	388.49	120.22	167.63	25.49	6.73	PASS
3620.00†	3583.83	258.60	392.44	3619.94	3590.03	87.05	402.27	120.08	171.94	26.40	6.67	PASS
3720.00†	3682.59	267.23	405.55	3719.84	3688.88	91.41	416.06	119.93	176.25	27.32	6.60	PASS
3820.00†	3781.35	275.87	418.65	3819.75	3787.74	95.77	429.84	119.80	180.55	28.25	6.53	PASS
3920.00†	3880.11	284.50	431.76	3919.66	3886.59	100.13	443.62	119.67	184.86	29.20	6.46	PASS
4020.00†	3978.87	293.14	444.86	4019.56	3985.45	104.49	457.40	119.55	189.17	30.16	6.40	PASS
4120.00†	4077.63	301.77	457.97	4119.47	4084.30	108.86	471.18	119.43	193.48	31.13	6.34	PASS
4220.00†	4176.39	310.41	471.07	4219.37	4183.16	113.22	484.96	119.32	197.80	32.11	6.28	PASS
4320.00†	4275.15	319.04	484.17	4319.28	4282.01	117.58	498.74	119.21	202.11	33.10	6.22	PASS
4420.00†	4373.91	327.68	497.28	4419.19	4380.87	121.94	512.53	119.11	206.42	34.10	6.16	PASS
4520.00†	4472.68	336.31	510.38	4519.09	4479.72	126.30	526.31	119.01	210.73	35.10	6.11	PASS
4620.00†	4571.44	344.95	523.49	4619.00	4578.58	130.66	540.09	118.91	215.05	36.12	6.05	PASS
4720.00†	4670.20	353.58	536.59	4718.91	4677.43	135.02	553.87	118.82	219.36	37.14	6.00	PASS
4820.00†	4768.96	362.22	549.70	4818.81	4776.29	139.38	567.65	118.74	223.68	38.16	5.95	PASS
4920.00†	4867.72	370.85	562.80	4918.72	4875.14	143.74	581.43	118.65	227.99	39.19	5.91	PASS
5020.00†	4966.48	379.49	575.91	5018.62	4974.00	148.10	595.21	118.57	232.31	40.22	5.86	PASS
5120.00†	5065.24	388.12	589.01	5118.53	5072.85	152.46	608.99	118.49	236.63	41.26	5.82	PASS
5220.00†	5164.00	396.76	602.11	5218.44	5171.71	156.83	622.78	118.42	240.94	42.31	5.78	PASS
5320.00†	5262.76	405.39	615.22	5318.34	5270.56	161.19	636.56	118.34	245.26	43.35	5.73	PASS
5420.00†	5361.52	414.03	628.32	5418.25	5369.42	165.55	650.34	118.27	249.58	44.40	5.70	PASS
5520.00†	5460.28	422.66	641.43	5518.16	5468.27	169.91	664.12	118.21	253.90	45.46	5.66	PASS
5620.00†	5559.05	431.30	654.53	5618.06	5567.13	174.27	677.90	118.14	258.22	46.51	5.62	PASS
5720.00†	5657.81	439.93	667.64	5717.97	5665.98	178.63	691.68	118.08	262.53	47.57	5.59	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#19 GREELEY-ROTHER FEDERAL 33N-2B-L (1043'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 33N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5817.87	5764.84	182.99	705.46	118.02	266.85	48.64	5.55	PASS
5920.00†	5855.33	457.20	693.85	5917.78	5863.69	187.35	719.24	117.96	271.17	49.70	5.52	PASS
6020.00†	5954.09	465.84	706.95	6017.69	5962.55	191.71	733.03	117.90	275.49	50.77	5.49	PASS
6120.00†	6052.85	474.47	720.05	6117.59	6061.40	196.07	746.81	117.84	279.81	51.84	5.46	PASS
6220.00†	6151.61	483.11	733.16	6217.50	6160.26	200.44	760.59	117.79	284.13	52.91	5.43	PASS
6320.00†	6250.37	491.74	746.26	6317.37	6259.08	204.79	774.35	117.74	288.45	53.99	5.40	PASS
6420.00†	6349.13	500.38	759.37	6415.51	6356.92	208.14	779.81	119.29	293.05	55.15	5.37	PASS
6509.39	6437.41	508.10	771.08	6499.47	6440.49	209.60	772.58	122.85	298.52	56.46	5.34	PASS
6520.00†	6447.90	509.02	772.38	6509.10	6449.99	209.68	771.05	127.15	299.35	56.60	5.34	PASS
6620.00†	6547.35	517.82	776.00	6597.92	6536.28	209.61	750.30	-149.58	309.48	58.00	5.39	PASS
6720.00†	6646.11	526.74	763.96	6683.74	6616.15	208.13	719.11	-104.70	323.14	59.32	5.50	PASS
6820.00†	6741.77	535.55	736.55	6767.08	6689.02	205.39	678.90	-90.56	339.28	60.47	5.67	PASS
6920.00†	6831.97	544.05	694.45	6848.37	6754.46	201.53	630.91	-82.85	356.89	61.03	5.90	PASS
7020.00†	6914.48	552.02	638.70	6928.02	6812.12	196.66	576.25	-77.69	375.04	62.35	6.07	PASS
7120.00†	6987.27	559.26	570.67	7006.40	6861.75	190.90	515.92	-73.99	392.99	63.84	6.21	PASS
7220.00†	7048.56	565.59	492.04	7083.85	6903.11	184.34	450.83	-71.34	410.13	65.95	6.28	PASS
7320.00†	7096.83	570.87	404.74	7160.68	6936.01	177.10	381.83	-69.50	425.96	68.74	6.25	PASS
7420.00†	7130.89	574.96	310.91	7237.17	6960.22	169.24	309.75	-68.35	440.15	72.16	6.15	PASS
7520.00†	7149.90	577.75	212.88	7313.62	6975.57	160.88	235.38	-67.83	452.42	76.15	5.99	PASS
7594.38	7154.00	578.96	138.67	7370.61	6981.12	154.37	179.04	-67.81	460.21	79.34	5.84	PASS
7620.00†	7153.92	579.24	113.05	7390.30	6981.86	152.08	159.50	-68.02	462.85	80.45	5.80	PASS
7720.00†	7153.61	580.34	13.06	7484.54	6981.62	141.01	65.92	-68.57	474.75	85.52	5.59	PASS
7820.00†	7153.31	581.44	-86.94	7583.71	6981.12	129.35	-32.57	-69.10	486.81	91.26	5.37	PASS
7920.00†	7153.00	582.54	-186.93	7682.89	6980.63	117.70	-131.05	-69.61	498.91	97.47	5.15	PASS
8020.00†	7152.69	583.64	-286.92	7782.06	6980.14	106.04	-229.53	-70.09	511.05	104.08	4.94	PASS
8120.00†	7152.39	584.74	-386.92	7881.23	6979.64	94.38	-328.01	-70.55	523.22	111.01	4.74	PASS
8220.00†	7152.08	585.84	-486.91	7980.40	6979.15	82.73	-426.50	-70.99	535.42	118.22	4.55	PASS
8320.00†	7151.77	586.94	-586.90	8079.57	6978.66	71.07	-524.98	-71.41	547.65	125.66	4.38	PASS
8420.00†	7151.47	588.04	-686.90	8183.62	6978.14	58.96	-628.31	-71.82	559.82	133.55	4.21	PASS
8520.00†	7151.16	589.14	-786.89	8306.11	6977.53	48.29	-750.33	-72.18	569.22	142.48	4.01	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)

Closest Approach

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2B-L PWP (REV-A.0)												
Facility: SEC.01-T05N-R67W Slot: SLOT#19 GREELEY-ROTHER FEDERAL 33N-2B-L (1043'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 33N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	8429.41	6976.91	42.82	-873.50	-72.36	574.55	151.40	3.81	PASS
8720.00†	7150.54	591.34	-986.88	8553.08	6976.30	42.66	-997.15	-72.39	575.78	160.19	3.61	PASS
8820.00†	7150.24	592.44	-1086.87	8670.59	6975.71	47.34	-1114.57	-72.26	573.03	168.62	3.41	PASS
8920.00†	7149.93	593.54	-1186.86	8770.51	6975.21	52.57	-1214.35	-72.12	569.15	176.64	3.23	PASS
9020.00†	7149.62	594.64	-1286.86	8870.42	6974.72	57.80	-1314.12	-71.97	565.28	184.40	3.07	PASS
9120.00†	7149.32	595.74	-1386.85	8970.33	6974.22	63.03	-1413.90	-71.82	561.41	192.82	2.92	PASS
9220.00†	7149.01	596.84	-1486.84	9070.25	6973.72	68.26	-1513.67	-71.67	557.54	200.97	2.78	PASS
9320.00†	7148.70	597.94	-1586.84	9170.16	6973.23	73.49	-1613.45	-71.52	553.68	209.13	2.65	PASS
9420.00†	7148.40	599.04	-1686.83	9270.08	6972.73	78.71	-1713.23	-71.36	549.82	217.32	2.53	PASS
9520.00†	7148.09	600.15	-1786.82	9369.99	6972.23	83.94	-1813.00	-71.20	545.96	225.52	2.43	PASS
9620.00†	7147.78	601.25	-1886.82	9469.91	6971.73	89.17	-1912.78	-71.04	542.11	233.73	2.32	PASS
9720.00†	7147.47	602.35	-1986.81	9569.82	6971.24	94.40	-2012.55	-70.88	538.27	241.95	2.23	PASS
9820.00†	7147.17	603.45	-2086.81	9669.74	6970.74	99.63	-2112.33	-70.72	534.42	250.17	2.14	PASS
9920.00†	7146.86	604.55	-2186.80	9769.65	6970.24	104.86	-2212.11	-70.55	530.59	258.39	2.06	PASS
10020.00†	7146.55	605.65	-2286.79	9869.56	6969.75	110.09	-2311.88	-70.38	526.75	266.61	1.98	PASS
10120.00†	7146.25	606.75	-2386.79	9969.48	6969.25	115.32	-2411.66	-70.21	522.92	274.82	1.91	PASS
10220.00†	7145.94	607.85	-2486.78	10069.39	6968.75	120.55	-2511.44	-70.03	519.10	283.02	1.84	PASS
10320.00†	7145.63	608.95	-2586.77	10169.31	6968.26	125.78	-2611.21	-69.86	515.28	291.22	1.77	PASS
10420.00†	7145.33	610.05	-2686.77	10269.22	6967.76	131.00	-2710.99	-69.68	511.47	299.40	1.71	PASS
10520.00†	7145.02	611.15	-2786.76	10369.14	6967.26	136.23	-2810.76	-69.50	507.66	307.57	1.65	PASS
10620.00†	7144.71	612.25	-2886.75	10469.05	6966.76	141.46	-2910.54	-69.31	503.86	315.72	1.60	PASS
10720.00†	7144.40	613.35	-2986.75	10568.96	6966.27	146.69	-3010.32	-69.12	500.06	323.85	1.55	PASS
10820.00†	7144.10	614.45	-3086.74	10668.88	6965.77	151.92	-3110.09	-68.93	496.27	331.97	1.50	PASS
10920.00†	7143.79	615.55	-3186.73	10768.79	6965.27	157.15	-3209.87	-68.74	492.48	340.06	1.45	PASS
11020.00†	7143.48	616.65	-3286.73	10868.71	6964.78	162.38	-3309.64	-68.54	488.70	348.13	1.40	PASS
11120.00†	7143.18	617.75	-3386.72	10968.62	6964.28	167.61	-3409.42	-68.34	484.92	356.17	1.36	PASS
11220.00†	7142.87	618.85	-3486.71	11068.54	6963.78	172.84	-3509.20	-68.14	481.15	364.19	1.32	PASS
11320.00†	7142.56	619.95	-3586.71	11168.45	6963.29	178.07	-3608.97	-67.93	477.39	372.18	1.28	PASS
11420.00†	7142.26	621.05	-3686.70	11268.36	6962.79	183.30	-3708.75	-67.72	473.63	380.14	1.25	PASS
11520.00†	7141.95	622.15	-3786.69	11368.28	6962.29	188.52	-3808.53	-67.51	469.88	388.07	1.21	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHE FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHE FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHE FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHE FEDERAL 33N-2B-L PWB Offset Wellpath: GREELEY-ROTHE FEDERAL 33N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#19 GREELEY-ROTHE FEDERAL 33N-2B-L (1043'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHE FEDERAL 33N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11620.00†	7141.64	623.25	-3886.69	11468.19	6961.80	193.75	-3908.30	-67.30	466.14	395.97	1.18	PASS
11720.00†	7141.33	624.35	-3986.68	11568.11	6961.30	198.98	-4008.08	-67.08	462.40	403.83	1.15	PASS
11820.00†	7141.03	625.45	-4086.67	11668.02	6960.80	204.21	-4107.85	-66.85	458.67	411.65	1.11	PASS
11920.00†	7140.72	626.55	-4186.67	11767.94	6960.30	209.44	-4207.63	-66.63	454.94	419.44	1.08	PASS
12020.00†	7140.41	627.66	-4286.66	11867.85	6959.81	214.67	-4307.41	-66.40	451.23	427.18	1.06	PASS
12120.00†	7140.11	628.76	-4386.66	11967.76	6959.31	219.90	-4407.18	-66.16	447.52	434.89	1.03	PASS
12220.00†	7139.80	629.86	-4486.65	12067.68	6958.81	225.13	-4506.96	-65.92	443.82	442.55	1.00	PASS
12320.00†	7139.49	630.96	-4586.64	12167.59	6958.32	230.36	-4606.73	-65.68	440.12	450.16	0.98	FAIL
12420.00†	7139.19	632.06	-4686.64	12267.51	6957.82	235.59	-4706.51	-65.44	436.44	457.73	0.95	FAIL
12520.00†	7138.88	633.16	-4786.63	12367.42	6957.32	240.81	-4806.29	-65.18	432.76	465.24	0.93	FAIL
12620.00†	7138.57	634.26	-4886.62	12467.34	6956.83	246.04	-4906.06	-64.93	429.09	472.71	0.91	FAIL
12720.00†	7138.26	635.36	-4986.62	12567.25	6956.33	251.27	-5005.84	-64.67	425.43	480.11	0.89	FAIL
12820.00†	7137.96	636.46	-5086.61	12667.16	6955.83	256.50	-5105.62	-64.41	421.78	487.47	0.87	FAIL
12920.00†	7137.65	637.56	-5186.60	12767.08	6955.33	261.73	-5205.39	-64.14	418.14	494.76	0.84	FAIL
13020.00†	7137.34	638.66	-5286.60	12866.99	6954.84	266.96	-5305.17	-63.87	414.50	501.99	0.83	FAIL
13120.00†	7137.04	639.76	-5386.59	12966.91	6954.34	272.19	-5404.94	-63.59	410.88	509.16	0.81	FAIL
13220.00†	7136.73	640.86	-5486.58	13066.82	6953.84	277.42	-5504.72	-63.31	407.27	516.27	0.79	FAIL
13320.00†	7136.42	641.96	-5586.58	13166.74	6953.35	282.65	-5604.50	-63.02	403.66	523.30	0.77	FAIL
13420.00†	7136.12	643.06	-5686.57	13266.65	6952.85	287.88	-5704.27	-62.72	400.07	530.26	0.75	FAIL
13520.00†	7135.81	644.16	-5786.56	13366.56	6952.35	293.11	-5804.05	-62.43	396.49	537.15	0.74	FAIL
13620.00†	7135.50	645.26	-5886.56	13466.48	6951.86	298.33	-5903.82	-62.12	392.92	543.96	0.72	FAIL
13720.00†	7135.19	646.36	-5986.55	13566.40	6951.37	303.38	-6001.31	-61.83	389.42	550.74	0.71	FAIL
13820.00†	7134.89	647.46	-6086.54	13666.31	6950.88	308.43	-6098.80	-61.54	385.92	557.52	0.69	FAIL
13920.00†	7134.58	648.56	-6186.54	13766.22	6950.39	313.48	-6196.29	-61.25	382.42	564.30	0.68	FAIL
14020.00†	7134.27	649.66	-6286.53	13866.13	6950.00	318.53	-6293.78	-60.96	378.92	571.08	0.67	FAIL
14120.00†	7133.97	650.76	-6386.52	13966.04	6949.51	323.58	-6391.27	-60.67	375.42	577.86	0.66	FAIL
14220.00†	7133.66	651.86	-6486.52	14065.95	6949.02	328.63	-6488.76	-60.38	371.92	584.64	0.65	FAIL
14320.00†	7133.35	652.96	-6586.51	14165.86	6948.53	333.68	-6586.25	-60.09	368.42	591.42	0.64	FAIL
14420.00†	7133.05	654.06	-6686.51	14265.77	6948.04	338.73	-6683.74	-59.80	364.92	598.20	0.63	FAIL
14520.00†	7132.74	655.17	-6786.50	14365.68	6947.55	343.78	-6781.23	-59.51	361.42	604.98	0.62	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#19 GREELEY-ROTHER FEDERAL 33N-2B-L (1043'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 33N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14620.00†	7132.43	656.27	-6886.49	14437.46	6947.06	285.13	-6874.30	-63.44	415.03	631.28	0.66	FAIL
14720.00†	7132.12	657.37	-6986.49	14537.37	6946.56	282.10	-6974.17	-63.67	418.82	640.72	0.65	FAIL
14820.00†	7131.82	658.47	-7086.48	14637.29	6946.07	279.07	-7074.03	-63.90	422.61	650.17	0.65	FAIL
14920.00†	7131.51	659.57	-7186.47	14737.20	6945.58	276.03	-7173.90	-64.12	426.41	659.61	0.65	FAIL
15020.00†	7131.20	660.67	-7286.47	14837.12	6945.08	273.00	-7273.77	-64.34	430.22	669.06	0.64	FAIL
15120.00†	7130.90	661.77	-7386.46	14937.03	6944.59	269.96	-7373.64	-64.55	434.03	678.51	0.64	FAIL
15220.00†	7130.59	662.87	-7486.45	15036.94	6944.10	266.93	-7473.50	-64.76	437.85	687.96	0.64	FAIL
15320.00†	7130.28	663.97	-7586.45	15136.86	6943.60	263.89	-7573.37	-64.97	441.68	697.41	0.63	FAIL
15420.00†	7129.98	665.07	-7686.44	15236.77	6943.11	260.86	-7673.24	-65.17	445.51	706.85	0.63	FAIL
15520.00†	7129.67	666.17	-7786.43	15336.69	6942.62	257.83	-7773.10	-65.37	449.34	716.30	0.63	FAIL
15620.00†	7129.36	667.27	-7886.43	15436.60	6942.12	254.79	-7872.97	-65.57	453.19	725.75	0.62	FAIL
15720.00†	7129.05	668.37	-7986.42	15536.52	6941.63	251.76	-7972.84	-65.76	457.03	735.20	0.62	FAIL
15820.00†	7128.75	669.47	-8086.41	15636.43	6941.14	248.72	-8072.70	-65.95	460.88	744.65	0.62	FAIL
15920.00†	7128.44	670.57	-8186.41	15736.34	6940.65	245.69	-8172.57	-66.14	464.74	754.10	0.62	FAIL
16020.00†	7128.13	671.67	-8286.40	15836.26	6940.15	242.65	-8272.44	-66.32	468.60	763.55	0.61	FAIL
16120.00†	7127.83	672.77	-8386.39	15936.17	6939.66	239.62	-8372.30	-66.50	472.47	773.00	0.61	FAIL
16220.00†	7127.52	673.87	-8486.39	16036.09	6939.17	236.59	-8472.17	-66.68	476.34	782.45	0.61	FAIL
16320.00†	7127.21	674.97	-8586.38	16136.00	6938.67	233.55	-8572.04	-66.86	480.21	791.89	0.61	FAIL
16420.00†	7126.90	676.07	-8686.37	16235.92	6938.18	230.52	-8671.91	-67.03	484.09	801.34	0.60	FAIL
16520.00†	7126.60	677.17	-8786.37	16335.83	6937.69	227.48	-8771.77	-67.20	487.98	810.79	0.60	FAIL
16620.00†	7126.29	678.27	-8886.36	16435.74	6937.19	224.45	-8871.64	-67.36	491.87	820.23	0.60	FAIL
16720.00†	7125.98	679.37	-8986.36	16535.66	6936.70	221.41	-8971.51	-67.53	495.76	829.67	0.60	FAIL
16820.00†	7125.68	680.47	-9086.35	16635.57	6936.21	218.38	-9071.37	-67.69	499.65	839.12	0.60	FAIL
16920.00†	7125.37	681.57	-9186.34	16735.49	6935.71	215.35	-9171.24	-67.85	503.55	848.56	0.59	FAIL
17020.00†	7125.06	682.68	-9286.34	16835.40	6935.22	212.31	-9271.11	-68.01	507.46	858.00	0.59	FAIL
17120.00†	7124.76	683.78	-9386.33	16935.32	6934.73	209.28	-9370.97	-68.16	511.37	867.44	0.59	FAIL
17220.00†	7124.45	684.88	-9486.32	17035.23	6934.24	206.24	-9470.84	-68.31	515.28	876.88	0.59	FAIL
17320.00†	7124.14	685.98	-9586.32	17135.14	6933.74	203.21	-9570.71	-68.46	519.19	886.32	0.59	FAIL
17366.24	7124.00	686.49	-9632.55	17181.35	6933.51	201.81	-9616.89	-68.53	521.00	890.68	0.58	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## POSITIONAL UNCERTAINTY - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2B-L PWP (REV-A.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## HOLE & CASING SECTIONS - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2B-L PWP (REV-A.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	20.00	1750.00	1730.00	20.00	1739.76	-24.43	0.33	-10.56	44.16
9.625in Casing Surface	20.00	1750.00	1730.00	20.00	1739.76	-24.43	0.33	-10.56	44.16
8.5in Open Hole	1750.00	17285.49	15535.49	1739.76	6933.00	-10.56	44.16	48.33	-2962.79

## SURVEY PROGRAM - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2B-L PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	1750.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 33N-2B-L PWB
1750.00	17285.49	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 33N-2B-L PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: GREELEY-ROTHER FEDERAL 33N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 33N-2B-L PWP (REV-A.0)

MD Reference: PRECISION 462 (20') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	20.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. RUDOLPH 2-32 AWP Offset Wellpath: EX. RUDOLPH 2-32 AWP

Facility: SEC.02-T5N-R67W Slot: SLOT#06 EX. RUDOLPH 2-32 (2335'FSL & 740'FWL, CODL/PR) Well: EX. RUDOLPH 2-32 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	11.00	20.00	1152.16	-8994.51	-82.70	9068.00	50.19	184.19	PASS
120.00†	120.00	0.00	0.00	111.00	120.00	1152.16	-8994.51	-82.70	9068.00	50.48	183.12	PASS
220.00†	220.00	0.00	0.00	211.00	220.00	1152.16	-8994.51	-82.70	9068.00	51.50	179.42	PASS
320.00†	320.00	0.00	0.00	311.00	320.00	1152.16	-8994.51	-82.70	9068.00	53.23	173.49	PASS
400.00	400.00	0.00	0.00	391.00	400.00	1152.16	-8994.51	-82.70	9068.00	55.03	167.69	PASS
420.00†	420.00	0.04	0.06	411.00	420.00	1152.16	-8994.51	-139.32	9068.06	55.54	166.14	PASS
520.00†	519.96	1.38	2.10	510.96	519.96	1152.16	-8994.51	-139.30	9069.91	58.32	158.11	PASS
620.00†	619.78	4.65	7.05	610.78	619.78	1152.16	-8994.51	-139.27	9074.41	61.49	149.92	PASS
720.00†	719.33	9.82	14.91	710.33	719.33	1152.16	-8994.51	-139.21	9081.55	64.92	141.99	PASS
820.00†	818.50	16.91	25.66	809.50	818.50	1152.16	-8994.51	-139.14	9091.33	68.54	134.51	PASS
851.46	849.59	19.53	29.64	840.59	849.59	1152.16	-8994.51	-139.11	9094.95	69.73	132.25	PASS
920.00†	917.28	25.45	38.62	908.28	917.28	1152.16	-8994.51	-139.16	9103.13	72.30	127.60	PASS
1020.00†	1016.05	34.09	51.73	1007.05	1016.05	1152.16	-8994.51	-139.22	9115.07	76.17	121.19	PASS
1120.00†	1114.81	42.72	64.83	1105.81	1114.81	1152.16	-8994.51	-139.28	9127.02	80.14	115.26	PASS
1220.00†	1213.57	51.36	77.94	1204.57	1213.57	1152.16	-8994.51	-139.35	9138.99	84.20	109.79	PASS
1320.00†	1312.33	59.99	91.04	1303.33	1312.33	1152.16	-8994.51	-139.41	9150.96	88.33	104.73	PASS
1420.00†	1411.09	68.63	104.15	1402.09	1411.09	1152.16	-8994.51	-139.47	9162.95	92.51	100.08	PASS
1520.00†	1509.85	77.26	117.25	1500.85	1509.85	1152.16	-8994.51	-139.54	9174.94	96.75	95.78	PASS
1620.00†	1608.61	85.90	130.36	1599.61	1608.61	1152.16	-8994.51	-139.60	9186.95	101.03	91.80	PASS
1720.00†	1707.37	94.53	143.46	1698.37	1707.37	1152.16	-8994.51	-139.66	9198.97	105.34	88.12	PASS
1820.00†	1806.13	103.17	156.56	1797.13	1806.13	1152.16	-8994.51	-139.73	9211.00	109.38	84.76	PASS
1920.00†	1904.89	111.80	169.67	1895.89	1904.89	1152.16	-8994.51	-139.79	9223.04	113.64	81.66	PASS
2020.00†	2003.65	120.44	182.77	1994.65	2003.65	1152.16	-8994.51	-139.85	9235.09	117.93	78.78	PASS
2120.00†	2102.41	129.07	195.88	2093.41	2102.41	1152.16	-8994.51	-139.91	9247.16	122.25	76.08	PASS
2220.00†	2201.18	137.71	208.98	2192.18	2201.18	1152.16	-8994.51	-139.98	9259.23	126.59	73.55	PASS
2320.00†	2299.94	146.34	222.09	2290.94	2299.94	1152.16	-8994.51	-140.04	9271.32	130.96	71.17	PASS
2420.00†	2398.70	154.98	235.19	2389.70	2398.70	1152.16	-8994.51	-140.10	9283.41	135.35	68.94	PASS
2520.00†	2497.46	163.61	248.29	2488.46	2497.46	1152.16	-8994.51	-140.16	9295.52	139.76	66.84	PASS
2620.00†	2596.22	172.25	261.40	2587.22	2596.22	1152.16	-8994.51	-140.22	9307.63	144.20	64.86	PASS
2720.00†	2694.98	180.88	274.50	2685.98	2694.98	1152.16	-8994.51	-140.29	9319.76	148.65	62.99	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. RUDOLPH 2-32 AWB Offset Wellpath: EX. RUDOLPH 2-32 AWP

Facility: SEC.02-T5N-R67W Slot: SLOT#06 EX. RUDOLPH 2-32 (2335'FSL & 740'FWL, CODL/PR) Well: EX. RUDOLPH 2-32 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2784.74	2793.74	1152.16	-8994.51	-140.35	9331.90	153.11	61.23	PASS
2920.00†	2892.50	198.15	300.71	2883.50	2892.50	1152.16	-8994.51	-140.41	9344.05	157.60	59.55	PASS
3020.00†	2991.26	206.79	313.82	2982.26	2991.26	1152.16	-8994.51	-140.47	9356.21	162.10	57.97	PASS
3120.00†	3090.02	215.42	326.92	3081.02	3090.02	1152.16	-8994.51	-140.53	9368.38	166.61	56.46	PASS
3220.00†	3188.78	224.06	340.03	3179.78	3188.78	1152.16	-8994.51	-140.59	9380.56	171.14	55.03	PASS
3320.00†	3287.55	232.69	353.13	3278.55	3287.55	1152.16	-8994.51	-140.65	9392.75	175.69	53.67	PASS
3420.00†	3386.31	241.33	366.23	3377.31	3386.31	1152.16	-8994.51	-140.71	9404.95	180.25	52.38	PASS
3520.00†	3485.07	249.96	379.34	3476.07	3485.07	1152.16	-8994.51	-140.77	9417.16	184.82	51.14	PASS
3620.00†	3583.83	258.60	392.44	3574.83	3583.83	1152.16	-8994.51	-140.83	9429.39	189.41	49.97	PASS
3720.00†	3682.59	267.23	405.55	3673.59	3682.59	1152.16	-8994.51	-140.89	9441.62	194.01	48.84	PASS
3820.00†	3781.35	275.87	418.65	3772.35	3781.35	1152.16	-8994.51	-140.95	9453.86	198.61	47.77	PASS
3920.00†	3880.11	284.50	431.76	3871.11	3880.11	1152.16	-8994.51	-141.01	9466.11	203.24	46.74	PASS
4020.00†	3978.87	293.14	444.86	3969.87	3978.87	1152.16	-8994.51	-141.07	9478.38	207.87	45.75	PASS
4120.00†	4077.63	301.77	457.97	4068.63	4077.63	1152.16	-8994.51	-141.13	9490.65	212.51	44.81	PASS
4220.00†	4176.39	310.41	471.07	4167.39	4176.39	1152.16	-8994.51	-141.19	9502.93	217.16	43.90	PASS
4320.00†	4275.15	319.04	484.17	4266.15	4275.15	1152.16	-8994.51	-141.25	9515.23	221.83	43.03	PASS
4420.00†	4373.91	327.68	497.28	4364.91	4373.91	1152.16	-8994.51	-141.31	9527.53	226.50	42.19	PASS
4520.00†	4472.68	336.31	510.38	4463.68	4472.68	1152.16	-8994.51	-141.36	9539.84	231.18	41.39	PASS
4620.00†	4571.44	344.95	523.49	4562.44	4571.44	1152.16	-8994.51	-141.42	9552.17	235.87	40.62	PASS
4720.00†	4670.20	353.58	536.59	4661.20	4670.20	1152.16	-8994.51	-141.48	9564.50	240.57	39.87	PASS
4820.00†	4768.96	362.22	549.70	4759.96	4768.96	1152.16	-8994.51	-141.54	9576.84	245.28	39.15	PASS
4920.00†	4867.72	370.85	562.80	4858.72	4867.72	1152.16	-8994.51	-141.60	9589.19	250.00	38.46	PASS
5020.00†	4966.48	379.49	575.91	4957.48	4966.48	1152.16	-8994.51	-141.66	9601.56	254.72	37.80	PASS
5120.00†	5065.24	388.12	589.01	5056.24	5065.24	1152.16	-8994.51	-141.71	9613.93	259.46	37.15	PASS
5220.00†	5164.00	396.76	602.11	5155.00	5164.00	1152.16	-8994.51	-141.77	9626.31	264.20	36.53	PASS
5320.00†	5262.76	405.39	615.22	5253.76	5262.76	1152.16	-8994.51	-141.83	9638.70	268.94	35.93	PASS
5420.00†	5361.52	414.03	628.32	5352.52	5361.52	1152.16	-8994.51	-141.89	9651.10	273.70	35.35	PASS
5520.00†	5460.28	422.66	641.43	5451.28	5460.28	1152.16	-8994.51	-141.94	9663.51	278.46	34.79	PASS
5620.00†	5559.05	431.30	654.53	5550.05	5559.05	1152.16	-8994.51	-142.00	9675.93	283.22	34.25	PASS
5720.00†	5657.81	439.93	667.64	5648.81	5657.81	1152.16	-8994.51	-142.06	9688.36	287.99	33.72	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. RUDOLPH 2-32 AWP Offset Wellpath: EX. RUDOLPH 2-32 AWP

Facility: SEC.02-T5N-R67W Slot: SLOT#06 EX. RUDOLPH 2-32 (2335'FSL & 740'FWL, CODL/PR) Well: EX. RUDOLPH 2-32 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5747.57	5756.57	1152.16	-8994.51	-142.11	9700.80	292.77	33.21	PASS
5920.00†	5855.33	457.20	693.85	5846.33	5855.33	1152.16	-8994.51	-142.17	9713.25	297.56	32.72	PASS
6020.00†	5954.09	465.84	706.95	5945.09	5954.09	1152.16	-8994.51	-142.23	9725.71	302.35	32.24	PASS
6120.00†	6052.85	474.47	720.05	6043.85	6052.85	1152.16	-8994.51	-142.28	9738.17	307.14	31.78	PASS
6220.00†	6151.61	483.11	733.16	6142.61	6151.61	1152.16	-8994.51	-142.34	9750.65	311.94	31.33	PASS
6320.00†	6250.37	491.74	746.26	6241.37	6250.37	1152.16	-8994.51	-142.39	9763.13	316.75	30.89	PASS
6420.00†	6349.13	500.38	759.37	6340.13	6349.13	1152.16	-8994.51	-142.45	9775.63	321.56	30.47	PASS
6509.39	6437.41	508.10	771.08	6428.41	6437.41	1152.16	-8994.51	-142.50	9786.81	325.86	30.10	PASS
6520.00†	6447.90	509.02	772.38	6438.90	6447.90	1152.16	-8994.51	-138.80	9788.05	326.37	30.05	PASS
6620.00†	6547.35	517.82	776.00	6538.35	6547.35	1152.16	-8994.51	-60.97	9791.08	331.28	29.62	PASS
6720.00†	6646.11	526.74	763.96	6637.11	6646.11	1152.16	-8994.51	-21.00	9778.49	336.48	29.12	PASS
6820.00†	6741.77	535.55	736.55	6732.77	6741.77	1152.16	-8994.51	-11.09	9750.58	341.87	28.58	PASS
6920.00†	6831.97	544.05	694.45	6822.97	6831.97	1152.16	-8994.51	-6.86	9708.03	346.80	28.05	PASS
7020.00†	6914.48	552.02	638.70	6905.48	6914.48	1152.16	-8994.51	-4.41	9651.89	351.21	27.54	PASS
7120.00†	6987.27	559.26	570.67	6978.27	6987.27	1152.16	-8994.51	-2.59	9583.54	355.02	27.05	PASS
7220.00†	7048.56	565.59	492.04	7039.56	7048.56	1152.16	-8994.51	-0.85	9504.67	358.16	26.59	PASS
7320.00†	7096.83	570.87	404.74	7087.83	7096.83	1152.16	-8994.51	1.40	9417.20	360.57	26.17	PASS
7420.00†	7130.89	574.96	310.91	7121.89	7130.89	1152.16	-8994.51	5.59	9323.31	362.22	25.79	PASS
7520.00†	7149.90	577.75	212.88	7140.90	7149.90	1152.16	-8994.51	19.90	9225.29	363.12	25.45	PASS
7594.38	7154.00	578.96	138.67	7145.00	7154.00	1152.16	-8994.51	93.40	9151.14	363.32	25.24	PASS
7620.00†	7153.92	579.24	113.05	7144.92	7153.92	1152.16	-8994.51	93.39	9125.56	363.31	25.16	PASS
7720.00†	7153.61	580.34	13.06	7144.61	7153.61	1152.16	-8994.51	93.35	9025.70	363.31	24.89	PASS
7820.00†	7153.31	581.44	-86.94	7144.31	7153.31	1152.16	-8994.51	93.31	8925.84	363.30	24.61	PASS
7920.00†	7153.00	582.54	-186.93	7144.00	7153.00	1152.16	-8994.51	93.28	8825.98	363.30	24.34	PASS
8020.00†	7152.69	583.64	-286.92	7143.69	7152.69	1152.16	-8994.51	93.24	8726.13	363.30	24.06	PASS
8120.00†	7152.39	584.74	-386.92	7143.39	7152.39	1152.16	-8994.51	93.20	8626.27	363.31	23.79	PASS
8220.00†	7152.08	585.84	-486.91	7143.08	7152.08	1152.16	-8994.51	93.17	8526.43	363.31	23.51	PASS
8320.00†	7151.77	586.94	-586.90	7142.77	7151.77	1152.16	-8994.51	93.13	8426.58	363.33	23.24	PASS
8420.00†	7151.47	588.04	-686.90	7142.47	7151.47	1152.16	-8994.51	93.09	8326.74	363.34	22.96	PASS
8520.00†	7151.16	589.14	-786.89	7142.16	7151.16	1152.16	-8994.51	93.05	8226.91	363.36	22.68	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. RUDOLPH 2-32 AWB Offset Wellpath: EX. RUDOLPH 2-32 AWP

Facility: SEC.02-T5N-R67W Slot: SLOT#06 EX. RUDOLPH 2-32 (2335'FSL & 740'FWL, CODL/PR) Well: EX. RUDOLPH 2-32 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	7141.85	7150.85	1152.16	-8994.51	93.02	8127.07	363.39	22.41	PASS
8720.00†	7150.54	591.34	-986.88	7141.54	7150.54	1152.16	-8994.51	92.98	8027.25	363.41	22.13	PASS
8820.00†	7150.24	592.44	-1086.87	7141.24	7150.24	1152.16	-8994.51	92.94	7927.42	363.45	21.85	PASS
8920.00†	7149.93	593.54	-1186.86	7140.93	7149.93	1152.16	-8994.51	92.91	7827.60	363.48	21.58	PASS
9020.00†	7149.62	594.64	-1286.86	7140.62	7149.62	1152.16	-8994.51	92.87	7727.79	363.53	21.30	PASS
9120.00†	7149.32	595.74	-1386.85	7140.32	7149.32	1152.16	-8994.51	92.83	7627.98	363.57	21.02	PASS
9220.00†	7149.01	596.84	-1486.84	7140.01	7149.01	1152.16	-8994.51	92.79	7528.17	363.63	20.74	PASS
9320.00†	7148.70	597.94	-1586.84	7139.70	7148.70	1152.16	-8994.51	92.76	7428.37	363.69	20.46	PASS
9420.00†	7148.40	599.04	-1686.83	7139.40	7148.40	1152.16	-8994.51	92.72	7328.58	363.75	20.18	PASS
9520.00†	7148.09	600.15	-1786.82	7139.09	7148.09	1152.16	-8994.51	92.68	7228.79	363.82	19.91	PASS
9620.00†	7147.78	601.25	-1886.82	7138.78	7147.78	1152.16	-8994.51	92.65	7129.01	363.90	19.63	PASS
9720.00†	7147.47	602.35	-1986.81	7138.47	7147.47	1152.16	-8994.51	92.61	7029.23	363.99	19.35	PASS
9820.00†	7147.17	603.45	-2086.81	7138.17	7147.17	1152.16	-8994.51	92.57	6929.46	364.08	19.07	PASS
9920.00†	7146.86	604.55	-2186.80	7137.86	7146.86	1152.16	-8994.51	92.53	6829.70	364.18	18.79	PASS
10020.00†	7146.55	605.65	-2286.79	7137.55	7146.55	1152.16	-8994.51	92.50	6729.94	364.29	18.51	PASS
10120.00†	7146.25	606.75	-2386.79	7137.25	7146.25	1152.16	-8994.51	92.46	6630.19	364.40	18.23	PASS
10220.00†	7145.94	607.85	-2486.78	7136.94	7145.94	1152.16	-8994.51	92.42	6530.45	364.53	17.95	PASS
10320.00†	7145.63	608.95	-2586.77	7136.63	7145.63	1152.16	-8994.51	92.39	6430.72	364.67	17.67	PASS
10420.00†	7145.33	610.05	-2686.77	7136.33	7145.33	1152.16	-8994.51	92.35	6331.00	364.81	17.39	PASS
10520.00†	7145.02	611.15	-2786.76	7136.02	7145.02	1152.16	-8994.51	92.31	6231.28	364.97	17.10	PASS
10620.00†	7144.71	612.25	-2886.75	7135.71	7144.71	1152.16	-8994.51	92.27	6131.57	365.14	16.82	PASS
10720.00†	7144.40	613.35	-2986.75	7135.40	7144.40	1152.16	-8994.51	92.24	6031.88	365.32	16.54	PASS
10820.00†	7144.10	614.45	-3086.74	7135.10	7144.10	1152.16	-8994.51	92.20	5932.19	365.52	16.26	PASS
10920.00†	7143.79	615.55	-3186.73	7134.79	7143.79	1152.16	-8994.51	92.16	5832.51	365.73	15.98	PASS
11020.00†	7143.48	616.65	-3286.73	7134.48	7143.48	1152.16	-8994.51	92.13	5732.85	365.96	15.69	PASS
11120.00†	7143.18	617.75	-3386.72	7134.18	7143.18	1152.16	-8994.51	92.09	5633.19	366.20	15.41	PASS
11220.00†	7142.87	618.85	-3486.71	7133.87	7142.87	1152.16	-8994.51	92.05	5533.55	366.45	15.13	PASS
11320.00†	7142.56	619.95	-3586.71	7133.56	7142.56	1152.16	-8994.51	92.01	5433.93	366.73	14.84	PASS
11420.00†	7142.26	621.05	-3686.70	7133.26	7142.26	1152.16	-8994.51	91.98	5334.31	367.03	14.56	PASS
11520.00†	7141.95	622.15	-3786.69	7132.95	7141.95	1152.16	-8994.51	91.94	5234.71	367.35	14.28	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. RUDOLPH 2-32 AWB Offset Wellpath: EX. RUDOLPH 2-32 AWP

Facility: SEC.02-T5N-R67W Slot: SLOT#06 EX. RUDOLPH 2-32 (2335'FSL & 740'FWL, CODL/PR) Well: EX. RUDOLPH 2-32 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11620.00†	7141.64	623.25	-3886.69	7132.64	7141.64	1152.16	-8994.51	91.90	5135.13	367.69	13.99	PASS
11720.00†	7141.33	624.35	-3986.68	7132.33	7141.33	1152.16	-8994.51	91.87	5035.57	368.05	13.71	PASS
11820.00†	7141.03	625.45	-4086.67	7132.03	7141.03	1152.16	-8994.51	91.83	4936.02	368.44	13.42	PASS
11920.00†	7140.72	626.55	-4186.67	7131.72	7140.72	1152.16	-8994.51	91.79	4836.49	368.86	13.14	PASS
12020.00†	7140.41	627.66	-4286.66	7131.41	7140.41	1152.16	-8994.51	91.75	4736.97	369.31	12.85	PASS
12120.00†	7140.11	628.76	-4386.66	7131.11	7140.11	1152.16	-8994.51	91.72	4637.49	369.79	12.56	PASS
12220.00†	7139.80	629.86	-4486.65	7130.80	7139.80	1152.16	-8994.51	91.68	4538.02	370.31	12.28	PASS
12320.00†	7139.49	630.96	-4586.64	7130.49	7139.49	1152.16	-8994.51	91.64	4438.57	370.87	11.99	PASS
12420.00†	7139.19	632.06	-4686.64	7130.19	7139.19	1152.16	-8994.51	91.61	4339.16	371.46	11.70	PASS
12520.00†	7138.88	633.16	-4786.63	7129.88	7138.88	1152.16	-8994.51	91.57	4239.77	372.10	11.41	PASS
12620.00†	7138.57	634.26	-4886.62	7129.57	7138.57	1152.16	-8994.51	91.53	4140.40	372.79	11.13	PASS
12720.00†	7138.26	635.36	-4986.62	7129.26	7138.26	1152.16	-8994.51	91.49	4041.08	373.54	10.84	PASS
12820.00†	7137.96	636.46	-5086.61	7128.96	7137.96	1152.16	-8994.51	91.46	3941.78	374.33	10.55	PASS
12920.00†	7137.65	637.56	-5186.60	7128.65	7137.65	1152.16	-8994.51	91.42	3842.52	375.19	10.26	PASS
13020.00†	7137.34	638.66	-5286.60	7128.34	7137.34	1152.16	-8994.51	91.38	3743.30	376.12	9.97	PASS
13120.00†	7137.04	639.76	-5386.59	7128.04	7137.04	1152.16	-8994.51	91.34	3644.12	377.12	9.68	PASS
13220.00†	7136.73	640.86	-5486.58	7127.73	7136.73	1152.16	-8994.51	91.31	3544.99	378.20	9.39	PASS
13320.00†	7136.42	641.96	-5586.58	7127.42	7136.42	1152.16	-8994.51	91.27	3445.91	379.37	9.10	PASS
13420.00†	7136.12	643.06	-5686.57	7127.12	7136.12	1152.16	-8994.51	91.23	3346.89	380.64	8.81	PASS
13520.00†	7135.81	644.16	-5786.56	7126.81	7135.81	1152.16	-8994.51	91.20	3247.92	382.01	8.52	PASS
13620.00†	7135.50	645.26	-5886.56	7126.50	7135.50	1152.16	-8994.51	91.16	3149.02	383.49	8.22	PASS
13720.00†	7135.19	646.36	-5986.55	7126.19	7135.19	1152.16	-8994.51	91.12	3050.19	385.11	7.93	PASS
13820.00†	7134.89	647.46	-6086.54	7125.89	7134.89	1152.16	-8994.51	91.08	2951.44	386.86	7.64	PASS
13920.00†	7134.58	648.56	-6186.54	7125.58	7134.58	1152.16	-8994.51	91.05	2852.77	388.77	7.35	PASS
14020.00†	7134.27	649.66	-6286.53	7125.27	7134.27	1152.16	-8994.51	91.01	2754.21	390.86	7.06	PASS
14120.00†	7133.97	650.76	-6386.52	7124.97	7133.97	1152.16	-8994.51	90.97	2655.74	393.14	6.77	PASS
14220.00†	7133.66	651.86	-6486.52	7124.66	7133.66	1152.16	-8994.51	90.94	2557.40	395.63	6.47	PASS
14320.00†	7133.35	652.96	-6586.51	7124.35	7133.35	1152.16	-8994.51	90.90	2459.20	398.36	6.18	PASS
14420.00†	7133.05	654.06	-6686.51	7124.05	7133.05	1152.16	-8994.51	90.86	2361.14	401.37	5.89	PASS
14520.00†	7132.74	655.17	-6786.50	7123.74	7132.74	1152.16	-8994.51	90.82	2263.25	404.68	5.60	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. RUDOLPH 2-32 AWB Offset Wellpath: EX. RUDOLPH 2-32 AWP

Facility: SEC.02-T5N-R67W Slot: SLOT#06 EX. RUDOLPH 2-32 (2335'FSL & 740'FWL, CODL/PR) Well: EX. RUDOLPH 2-32 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14620.00†	7132.43	656.27	-6886.49	7123.43	7132.43	1152.16	-8994.51	90.79	2165.56	408.34	5.31	PASS
14720.00†	7132.12	657.37	-6986.49	7123.12	7132.12	1152.16	-8994.51	90.75	2068.09	412.40	5.02	PASS
14820.00†	7131.82	658.47	-7086.48	7122.82	7131.82	1152.16	-8994.51	90.71	1970.87	416.90	4.73	PASS
14920.00†	7131.51	659.57	-7186.47	7122.51	7131.51	1152.16	-8994.51	90.68	1873.94	421.92	4.45	PASS
15020.00†	7131.20	660.67	-7286.47	7122.20	7131.20	1152.16	-8994.51	90.64	1777.35	427.54	4.16	PASS
15120.00†	7130.90	661.77	-7386.46	7121.90	7130.90	1152.16	-8994.51	90.60	1681.16	433.84	3.88	PASS
15220.00†	7130.59	662.87	-7486.45	7121.59	7130.59	1152.16	-8994.51	90.56	1585.45	440.96	3.60	PASS
15320.00†	7130.28	663.97	-7586.45	7121.28	7130.28	1152.16	-8994.51	90.53	1490.29	449.03	3.32	PASS
15420.00†	7129.98	665.07	-7686.44	7120.98	7129.98	1152.16	-8994.51	90.49	1395.82	458.22	3.05	PASS
15520.00†	7129.67	666.17	-7786.43	7120.67	7129.67	1152.16	-8994.51	90.45	1302.17	468.74	2.78	PASS
15620.00†	7129.36	667.27	-7886.43	7120.36	7129.36	1152.16	-8994.51	90.41	1209.53	480.86	2.52	PASS
15720.00†	7129.05	668.37	-7986.42	7120.05	7129.05	1152.16	-8994.51	90.38	1118.17	494.90	2.26	PASS
15820.00†	7128.75	669.47	-8086.41	7119.75	7128.75	1152.16	-8994.51	90.34	1028.41	511.27	2.01	PASS
15920.00†	7128.44	670.57	-8186.41	7119.44	7128.44	1152.16	-8994.51	90.30	940.72	530.42	1.77	PASS
16020.00†	7128.13	671.67	-8286.40	7119.13	7128.13	1152.16	-8994.51	90.27	855.74	552.92	1.55	PASS
16120.00†	7127.83	672.77	-8386.39	7118.83	7127.83	1152.16	-8994.51	90.23	774.35	579.33	1.34	PASS
16220.00†	7127.52	673.87	-8486.39	7118.52	7127.52	1152.16	-8994.51	90.19	697.82	610.08	1.14	PASS
16320.00†	7127.21	674.97	-8586.38	7118.21	7127.21	1152.16	-8994.51	90.15	627.92	645.12	0.97	FAIL
16420.00†	7126.90	676.07	-8686.37	7117.90	7126.90	1152.16	-8994.51	90.12	567.10	683.22	0.83	FAIL
16520.00†	7126.60	677.17	-8786.37	7117.60	7126.60	1152.16	-8994.51	90.08	518.59	720.97	0.72	FAIL
16620.00†	7126.29	678.27	-8886.36	7117.29	7126.29	1152.16	-8994.51	90.04	486.07	752.04	0.65	FAIL
16720.00†	7125.98	679.37	-8986.36	7116.98	7125.98	1152.16	-8994.51	90.01	472.86	768.71	0.61	FAIL
16733.75†	7125.94	679.53	-9000.10	7118.13	7127.13	1152.16	-8994.51	90.14	472.67	769.58	0.61	FAIL
16742.07†	7125.92	679.62	-9008.43	7116.92	7125.92	1152.16	-8994.51	90.00	472.75	769.86	0.61	FAIL
16820.00†	7125.68	680.47	-9086.35	7116.68	7125.68	1152.16	-8994.51	89.97	480.54	766.27	0.63	FAIL
16920.00†	7125.37	681.57	-9186.34	7116.37	7125.37	1152.16	-8994.51	89.93	508.18	746.69	0.68	FAIL
17020.00†	7125.06	682.68	-9286.34	7116.06	7125.06	1152.16	-8994.51	89.89	552.79	716.75	0.77	FAIL
17120.00†	7124.76	683.78	-9386.33	7115.76	7124.76	1152.16	-8994.51	89.86	610.66	683.38	0.89	FAIL
17220.00†	7124.45	684.88	-9486.32	7115.45	7124.45	1152.16	-8994.51	89.82	678.41	651.04	1.04	PASS
17320.00†	7124.14	685.98	-9586.32	7115.14	7124.14	1152.16	-8994.51	89.78	753.37	621.78	1.21	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. RUDOLPH 2-32 AWB Offset Wellpath: EX. RUDOLPH 2-32 AWP

Facility: SEC.02-T5N-R67W Slot: SLOT#06 EX. RUDOLPH 2-32 (2335'FSL & 740'FWL, CODL/PR) Well: EX. RUDOLPH 2-32 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
17366.24	7124.00	686.49	-9632.55	7115.00	7124.00	1152.16	-8994.51	89.76	789.91	609.48	1.30	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. RUDOLPH 2-32 AWB Offset Wellpath: EX. RUDOLPH 2-32 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. RUDOLPH 2-32 AWB Offset Wellpath: EX. RUDOLPH 2-32 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7299.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7299>	EX. RUDOLPH 2-32 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. RUDOLPH 2-32 AWB Offset Wellpath: EX. RUDOLPH 2-32 AWP

MD Reference: Rig on SLOT#06 EX. RUDOLPH 2-32 (2335'FSL & 740'FWL, CODL/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2A-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12N-2A-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	20.00	20.00	19.73	-0.23	-0.67	19.74	1.56	31.29	PASS
120.00†	120.00	0.00	0.00	120.00	120.00	19.73	-0.23	-0.67	19.74	1.89	20.37	PASS
220.00†	220.00	0.00	0.00	220.00	220.00	19.73	-0.23	-0.67	19.74	2.45	12.59	PASS
320.00†	320.00	0.00	0.00	320.00	320.00	19.73	-0.23	-0.67	19.74	3.06	8.96	PASS
400.00	400.00	0.00	0.00	399.76	399.76	20.03	0.08	0.24	20.03	3.57	7.33	PASS
420.00†	420.00	0.04	0.06	419.67	419.66	20.31	0.39	-55.68	20.28	3.70	7.07	PASS
520.00†	519.96	1.38	2.10	519.13	519.03	23.13	3.43	-53.06	21.80	4.65	5.66	PASS
620.00†	619.78	4.65	7.05	618.53	618.14	28.28	8.99	-51.77	23.77	5.88	4.64	PASS
720.00†	719.33	9.82	14.91	717.86	716.85	35.77	17.07	-51.56	26.15	6.96	4.20	PASS
820.00†	818.50	16.91	25.66	817.12	815.05	45.57	27.64	-52.18	28.93	7.97	3.99	PASS
851.46	849.59	19.53	29.64	848.33	845.82	49.12	31.47	-52.51	29.89	8.24	3.97	PASS
920.00†	917.28	25.45	38.62	916.49	912.83	57.61	40.63	-52.40	32.53	8.80	4.03	PASS
1020.00†	1016.05	34.09	51.73	1016.40	1010.96	70.36	54.38	-51.79	36.72	9.58	4.15	PASS
1120.00†	1114.81	42.72	64.83	1116.31	1109.10	83.10	68.13	-51.30	40.92	10.40	4.23	PASS
1220.00†	1213.57	51.36	77.94	1216.22	1207.23	95.85	81.88	-50.90	45.11	11.25	4.29	PASS
1320.00†	1312.33	59.99	91.04	1316.13	1305.37	108.60	95.63	-50.57	49.32	12.12	4.33	PASS
1420.00†	1411.09	68.63	104.15	1416.05	1403.51	121.34	109.39	-50.30	53.52	13.00	4.37	PASS
1520.00†	1509.85	77.26	117.25	1515.96	1501.64	134.09	123.14	-50.06	57.72	13.91	4.39	PASS
1620.00†	1608.61	85.90	130.36	1615.87	1599.78	146.84	136.89	-49.85	61.92	14.82	4.40	PASS
1720.00†	1707.37	94.53	143.46	1715.78	1697.92	159.58	150.64	-49.67	66.13	15.75	4.41	PASS
1820.00†	1806.13	103.17	156.56	1815.69	1796.05	172.33	164.39	-49.52	70.33	15.98	4.56	PASS
1920.00†	1904.89	111.80	169.67	1915.60	1894.19	185.08	178.14	-49.38	74.54	16.07	4.81	PASS
2020.00†	2003.65	120.44	182.77	2015.51	1992.32	197.82	191.90	-49.25	78.74	16.24	5.02	PASS
2120.00†	2102.41	129.07	195.88	2115.43	2090.46	210.57	205.65	-49.14	82.95	16.49	5.21	PASS
2220.00†	2201.18	137.71	208.98	2215.34	2188.60	223.32	219.40	-49.04	87.16	16.81	5.37	PASS
2320.00†	2299.94	146.34	222.09	2315.25	2286.73	236.07	233.15	-48.94	91.36	17.21	5.49	PASS
2420.00†	2398.70	154.98	235.19	2415.16	2384.87	248.81	246.90	-48.86	95.57	17.67	5.59	PASS
2520.00†	2497.46	163.61	248.29	2515.07	2483.00	261.56	260.65	-48.78	99.78	18.19	5.67	PASS
2620.00†	2596.22	172.25	261.40	2614.98	2581.14	274.31	274.40	-48.71	103.98	18.77	5.72	PASS
2720.00†	2694.98	180.88	274.50	2714.89	2679.28	287.05	288.16	-48.65	108.19	19.40	5.75	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2A-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12N-2A-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2814.81	2777.41	299.80	301.91	-48.59	112.40	20.07	5.77	PASS
2920.00†	2892.50	198.15	300.71	2914.72	2875.55	312.55	315.66	-48.53	116.61	20.79	5.77	PASS
3020.00†	2991.26	206.79	313.82	3014.63	2973.68	325.29	329.41	-48.48	120.81	21.54	5.77	PASS
3120.00†	3090.02	215.42	326.92	3114.54	3071.82	338.04	343.16	-48.43	125.02	22.32	5.75	PASS
3220.00†	3188.78	224.06	340.03	3214.45	3169.96	350.79	356.91	-48.39	129.23	23.14	5.73	PASS
3320.00†	3287.55	232.69	353.13	3314.36	3268.09	363.53	370.67	-48.34	133.44	23.98	5.70	PASS
3420.00†	3386.31	241.33	366.23	3414.27	3366.23	376.28	384.42	-48.30	137.65	24.84	5.67	PASS
3520.00†	3485.07	249.96	379.34	3514.19	3464.37	389.03	398.17	-48.27	141.85	25.73	5.64	PASS
3620.00†	3583.83	258.60	392.44	3614.10	3562.50	401.78	411.92	-48.23	146.06	26.63	5.61	PASS
3720.00†	3682.59	267.23	405.55	3714.01	3660.64	414.52	425.67	-48.20	150.27	27.55	5.57	PASS
3820.00†	3781.35	275.87	418.65	3813.92	3758.77	427.27	439.42	-48.16	154.48	28.49	5.54	PASS
3920.00†	3880.11	284.50	431.76	3913.83	3856.91	440.02	453.18	-48.14	158.69	29.44	5.50	PASS
4020.00†	3978.87	293.14	444.86	4013.74	3955.05	452.76	466.93	-48.11	162.90	30.40	5.46	PASS
4120.00†	4077.63	301.77	457.97	4113.65	4053.18	465.51	480.68	-48.08	167.10	31.37	5.43	PASS
4220.00†	4176.39	310.41	471.07	4213.56	4151.32	478.26	494.43	-48.05	171.31	32.36	5.39	PASS
4320.00†	4275.15	319.04	484.17	4313.48	4249.45	491.00	508.18	-48.03	175.52	33.35	5.36	PASS
4420.00†	4373.91	327.68	497.28	4413.39	4347.59	503.75	521.93	-48.01	179.73	34.35	5.32	PASS
4520.00†	4472.68	336.31	510.38	4513.30	4445.73	516.50	535.68	-47.98	183.94	35.36	5.29	PASS
4620.00†	4571.44	344.95	523.49	4613.21	4543.86	529.24	549.44	-47.96	188.15	36.38	5.25	PASS
4720.00†	4670.20	353.58	536.59	4713.12	4642.00	541.99	563.19	-47.94	192.36	37.40	5.22	PASS
4820.00†	4768.96	362.22	549.70	4813.03	4740.13	554.74	576.94	-47.92	196.56	38.43	5.19	PASS
4920.00†	4867.72	370.85	562.80	4912.94	4838.27	567.49	590.69	-47.90	200.77	39.47	5.16	PASS
5020.00†	4966.48	379.49	575.91	5012.86	4936.41	580.23	604.44	-47.89	204.98	40.51	5.13	PASS
5120.00†	5065.24	388.12	589.01	5112.77	5034.54	592.98	618.19	-47.87	209.19	41.55	5.10	PASS
5220.00†	5164.00	396.76	602.11	5212.68	5132.68	605.73	631.95	-47.85	213.40	42.60	5.08	PASS
5320.00†	5262.76	405.39	615.22	5312.59	5230.81	618.47	645.70	-47.84	217.61	43.65	5.05	PASS
5420.00†	5361.52	414.03	628.32	5412.50	5328.95	631.22	659.45	-47.82	221.82	44.71	5.02	PASS
5520.00†	5460.28	422.66	641.43	5512.41	5427.09	643.97	673.20	-47.81	226.02	45.77	5.00	PASS
5620.00†	5559.05	431.30	654.53	5612.32	5525.22	656.71	686.95	-47.79	230.23	46.83	4.98	PASS
5720.00†	5657.81	439.93	667.64	5712.24	5623.36	669.46	700.70	-47.78	234.44	47.90	4.95	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2A-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12N-2A-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5812.15	5721.50	682.21	714.45	-47.77	238.65	48.97	4.93	PASS
5920.00†	5855.33	457.20	693.85	5912.06	5819.63	694.95	728.21	-47.75	242.86	50.04	4.91	PASS
6020.00†	5954.09	465.84	706.95	6011.97	5917.77	707.70	741.96	-47.74	247.07	51.12	4.89	PASS
6120.00†	6052.85	474.47	720.05	6111.88	6015.90	720.45	755.71	-47.73	251.28	52.19	4.87	PASS
6220.00†	6151.61	483.11	733.16	6211.79	6114.04	733.20	769.46	-47.72	255.49	53.27	4.85	PASS
6320.00†	6250.37	491.74	746.26	6317.70	6218.58	746.51	778.99	-48.81	258.82	54.45	4.80	PASS
6420.00†	6349.13	500.38	759.37	6421.62	6321.41	758.74	771.77	-53.43	260.14	55.91	4.70	PASS
6509.39	6437.41	508.10	771.08	6507.08	6404.28	767.95	753.29	-59.85	262.56	57.09	4.64	PASS
6520.00†	6447.90	509.02	772.38	6516.69	6413.42	768.92	750.52	-57.02	263.10	57.28	4.64	PASS
6620.00†	6547.35	517.82	776.00	6604.63	6494.94	777.28	718.81	12.81	270.80	58.10	4.71	PASS
6720.00†	6646.11	526.74	763.96	6688.55	6568.06	784.14	678.32	45.50	282.28	58.59	4.86	PASS
6820.00†	6741.77	535.55	736.55	6769.24	6632.84	789.61	630.61	48.95	296.03	58.71	5.09	PASS
6920.00†	6831.97	544.05	694.45	6847.34	6689.40	793.76	576.99	47.56	310.61	58.83	5.33	PASS
7020.00†	6914.48	552.02	638.70	6923.36	6737.83	796.67	518.52	45.16	324.81	59.10	5.55	PASS
7120.00†	6987.27	559.26	570.67	6997.72	6778.21	798.39	456.15	42.75	337.65	59.62	5.72	PASS
7220.00†	7048.56	565.59	492.04	7070.79	6810.61	798.97	390.72	40.61	348.35	60.42	5.82	PASS
7320.00†	7096.83	570.87	404.74	7142.85	6835.10	798.46	322.98	38.85	356.35	61.61	5.84	PASS
7420.00†	7130.89	574.96	310.91	7214.18	6851.70	796.90	253.67	37.49	361.22	63.21	5.77	PASS
7520.00†	7149.90	577.75	212.88	7285.02	6860.48	794.33	183.45	36.53	362.68	65.26	5.61	PASS
7594.38	7154.00	578.96	138.67	7339.77	6861.97	791.68	128.81	36.06	361.43	67.00	5.44	PASS
7620.00†	7153.92	579.24	113.05	7365.33	6861.85	790.34	103.28	35.85	360.51	67.68	5.37	PASS
7720.00†	7153.61	580.34	13.06	7465.13	6861.41	785.12	3.62	35.01	356.94	70.28	5.12	PASS
7820.00†	7153.31	581.44	-86.94	7564.93	6860.97	779.90	-96.04	34.16	353.45	73.01	4.88	PASS
7920.00†	7153.00	582.54	-186.93	7664.73	6860.53	774.67	-195.71	33.29	350.04	75.83	4.65	PASS
8020.00†	7152.69	583.64	-286.92	7764.53	6860.09	769.45	-295.37	32.41	346.72	78.68	4.44	PASS
8120.00†	7152.39	584.74	-386.92	7864.33	6859.65	764.23	-395.03	31.50	343.48	81.50	4.24	PASS
8220.00†	7152.08	585.84	-486.91	7964.13	6859.21	759.00	-494.69	30.58	340.32	84.27	4.06	PASS
8320.00†	7151.77	586.94	-586.90	8063.93	6858.77	753.78	-594.35	29.65	337.26	86.95	3.90	PASS
8420.00†	7151.47	588.04	-686.90	8163.73	6858.33	748.56	-694.01	28.69	334.28	89.51	3.76	PASS
8520.00†	7151.16	589.14	-786.89	8263.53	6857.89	743.33	-793.67	27.72	331.41	91.93	3.63	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2A-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12N-2A-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	8363.33	6857.45	738.11	-893.34	26.74	328.62	94.18	3.51	PASS
8720.00†	7150.54	591.34	-986.88	8463.12	6857.01	732.89	-993.00	25.73	325.94	96.26	3.40	PASS
8820.00†	7150.24	592.44	-1086.87	8562.92	6856.57	727.67	-1092.66	24.71	323.36	98.14	3.31	PASS
8920.00†	7149.93	593.54	-1186.86	8662.72	6856.12	722.44	-1192.32	23.68	320.88	99.84	3.23	PASS
9020.00†	7149.62	594.64	-1286.86	8762.52	6855.68	717.22	-1291.98	22.63	318.51	101.07	3.17	PASS
9120.00†	7149.32	595.74	-1386.85	8861.14	6855.25	712.20	-1390.47	21.60	316.31	102.59	3.10	PASS
9220.00†	7149.01	596.84	-1486.84	8957.23	6854.82	709.76	-1486.53	21.00	315.11	104.66	3.02	PASS
9320.00†	7148.70	597.94	-1586.84	9053.45	6854.40	710.54	-1582.73	20.94	315.13	107.95	2.93	PASS
9420.00†	7148.40	599.04	-1686.83	9153.23	6853.96	713.20	-1682.48	21.20	315.82	112.15	2.83	PASS
9520.00†	7148.09	600.15	-1786.82	9253.22	6853.52	715.86	-1782.43	21.45	316.52	116.44	2.73	PASS
9620.00†	7147.78	601.25	-1886.82	9353.21	6853.07	718.53	-1882.38	21.71	317.22	120.82	2.64	PASS
9720.00†	7147.47	602.35	-1986.81	9453.20	6852.63	721.20	-1982.34	21.96	317.93	125.29	2.55	PASS
9820.00†	7147.17	603.45	-2086.81	9553.18	6852.19	723.87	-2082.29	22.21	318.64	129.85	2.46	PASS
9920.00†	7146.86	604.55	-2186.80	9653.17	6851.75	726.54	-2182.24	22.47	319.36	134.48	2.38	PASS
10020.00†	7146.55	605.65	-2286.79	9753.16	6851.31	729.21	-2282.19	22.72	320.09	139.20	2.31	PASS
10120.00†	7146.25	606.75	-2386.79	9853.15	6850.86	731.87	-2382.14	22.96	320.83	143.99	2.23	PASS
10220.00†	7145.94	607.85	-2486.78	9953.13	6850.42	734.54	-2482.09	23.21	321.56	148.85	2.17	PASS
10320.00†	7145.63	608.95	-2586.77	10053.12	6849.98	737.21	-2582.04	23.46	322.31	153.79	2.10	PASS
10420.00†	7145.33	610.05	-2686.77	10153.11	6849.54	739.88	-2681.99	23.71	323.06	158.80	2.04	PASS
10520.00†	7145.02	611.15	-2786.76	10253.10	6849.10	742.55	-2781.94	23.95	323.82	163.88	1.98	PASS
10620.00†	7144.71	612.25	-2886.75	10353.08	6848.65	745.22	-2881.89	24.19	324.58	169.02	1.92	PASS
10720.00†	7144.40	613.35	-2986.75	10453.07	6848.21	747.88	-2981.85	24.44	325.35	174.24	1.87	PASS
10820.00†	7144.10	614.45	-3086.74	10553.06	6847.77	750.55	-3081.80	24.68	326.12	179.52	1.82	PASS
10920.00†	7143.79	615.55	-3186.73	10653.05	6847.33	753.22	-3181.75	24.92	326.91	184.86	1.77	PASS
11020.00†	7143.48	616.65	-3286.73	10753.04	6846.89	755.89	-3281.70	25.16	327.69	190.27	1.72	PASS
11120.00†	7143.18	617.75	-3386.72	10853.02	6846.45	758.56	-3381.65	25.39	328.48	195.73	1.68	PASS
11220.00†	7142.87	618.85	-3486.71	10953.01	6846.00	761.23	-3481.60	25.63	329.28	201.26	1.64	PASS
11320.00†	7142.56	619.95	-3586.71	11053.00	6845.56	763.89	-3581.55	25.86	330.08	206.85	1.60	PASS
11420.00†	7142.26	621.05	-3686.70	11152.99	6845.12	766.56	-3681.50	26.10	330.89	212.50	1.56	PASS
11520.00†	7141.95	622.15	-3786.69	11252.97	6844.68	769.23	-3781.45	26.33	331.71	218.20	1.52	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2A-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12N-2A-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11620.00†	7141.64	623.25	-3886.69	11352.96	6844.24	771.90	-3881.40	26.56	332.53	223.97	1.49	PASS
11720.00†	7141.33	624.35	-3986.68	11452.95	6843.79	774.57	-3981.36	26.79	333.35	229.78	1.45	PASS
11820.00†	7141.03	625.45	-4086.67	11552.94	6843.35	777.24	-4081.31	27.02	334.18	235.66	1.42	PASS
11920.00†	7140.72	626.55	-4186.67	11652.92	6842.91	779.90	-4181.26	27.25	335.02	241.58	1.39	PASS
12020.00†	7140.41	627.66	-4286.66	11752.91	6842.47	782.57	-4281.21	27.48	335.86	247.56	1.36	PASS
12120.00†	7140.11	628.76	-4386.66	11852.90	6842.03	785.24	-4381.16	27.71	336.70	253.60	1.33	PASS
12220.00†	7139.80	629.86	-4486.65	11952.89	6841.58	787.91	-4481.11	27.93	337.55	259.68	1.30	PASS
12320.00†	7139.49	630.96	-4586.64	12052.87	6841.14	790.58	-4581.06	28.15	338.41	265.82	1.27	PASS
12420.00†	7139.19	632.06	-4686.64	12152.86	6840.70	793.25	-4681.01	28.38	339.27	272.00	1.25	PASS
12520.00†	7138.88	633.16	-4786.63	12252.85	6840.26	795.91	-4780.96	28.60	340.14	278.24	1.22	PASS
12620.00†	7138.57	634.26	-4886.62	12352.84	6839.82	798.58	-4880.92	28.82	341.01	284.52	1.20	PASS
12720.00†	7138.26	635.36	-4986.62	12452.82	6839.38	801.25	-4980.87	29.04	341.89	290.85	1.18	PASS
12820.00†	7137.96	636.46	-5086.61	12552.81	6838.93	803.92	-5080.82	29.26	342.77	297.23	1.15	PASS
12920.00†	7137.65	637.56	-5186.60	12652.80	6838.49	806.59	-5180.77	29.47	343.66	303.66	1.13	PASS
13020.00†	7137.34	638.66	-5286.60	12752.79	6838.05	809.26	-5280.72	29.69	344.55	310.13	1.11	PASS
13120.00†	7137.04	639.76	-5386.59	12852.77	6837.61	811.92	-5380.67	29.91	345.45	316.65	1.09	PASS
13220.00†	7136.73	640.86	-5486.58	12952.76	6837.17	814.59	-5480.62	30.12	346.35	323.22	1.07	PASS
13320.00†	7136.42	641.96	-5586.58	13052.75	6836.72	817.26	-5580.57	30.33	347.25	329.82	1.05	PASS
13420.00†	7136.12	643.06	-5686.57	13152.74	6836.28	819.93	-5680.52	30.54	348.16	336.47	1.03	PASS
13520.00†	7135.81	644.16	-5786.56	13252.73	6835.84	822.60	-5780.47	30.75	349.08	343.17	1.02	PASS
13620.00†	7135.50	645.26	-5886.56	13352.71	6835.40	825.27	-5880.43	30.96	350.00	349.91	1.00	PASS
13720.00†	7135.19	646.36	-5986.55	13452.70	6834.96	827.93	-5980.38	31.17	350.93	356.68	0.98	FAIL
13820.00†	7134.89	647.46	-6086.54	13552.69	6834.51	830.60	-6080.33	31.38	351.86	363.50	0.97	FAIL
13920.00†	7134.58	648.56	-6186.54	13652.68	6834.07	833.27	-6180.28	31.58	352.79	370.36	0.95	FAIL
14020.00†	7134.27	649.66	-6286.53	13752.66	6833.63	835.94	-6280.23	31.79	353.73	377.27	0.94	FAIL
14120.00†	7133.97	650.76	-6386.52	13852.65	6833.19	838.61	-6380.18	31.99	354.67	384.21	0.92	FAIL
14220.00†	7133.66	651.86	-6486.52	13952.64	6832.75	841.27	-6480.13	32.20	355.62	391.19	0.91	FAIL
14320.00†	7133.35	652.96	-6586.51	14052.63	6832.30	843.94	-6580.08	32.40	356.57	398.20	0.90	FAIL
14420.00†	7133.05	654.06	-6686.51	14152.61	6831.86	846.61	-6680.03	32.60	357.53	405.26	0.88	FAIL
14520.00†	7132.74	655.17	-6786.50	14252.60	6831.42	849.28	-6779.98	32.80	358.49	412.35	0.87	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2A-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12N-2A-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14620.00†	7132.43	656.27	-6886.49	14352.59	6830.98	851.95	-6879.94	33.00	359.45	419.48	0.86	FAIL
14720.00†	7132.12	657.37	-6986.49	14452.58	6830.54	854.62	-6979.89	33.19	360.42	426.65	0.84	FAIL
14820.00†	7131.82	658.47	-7086.48	14552.56	6830.10	857.28	-7079.84	33.39	361.40	433.85	0.83	FAIL
14920.00†	7131.51	659.57	-7186.47	14652.55	6829.65	859.95	-7179.79	33.59	362.38	441.09	0.82	FAIL
15020.00†	7131.20	660.67	-7286.47	14752.54	6829.21	862.62	-7279.74	33.78	363.36	448.36	0.81	FAIL
15120.00†	7130.90	661.77	-7386.46	14852.53	6828.77	865.29	-7379.69	33.97	364.35	455.67	0.80	FAIL
15220.00†	7130.59	662.87	-7486.45	14952.51	6828.33	867.96	-7479.64	34.17	365.34	463.01	0.79	FAIL
15320.00†	7130.28	663.97	-7586.45	15052.50	6827.89	870.63	-7579.59	34.36	366.33	470.39	0.78	FAIL
15420.00†	7129.98	665.07	-7686.44	15152.49	6827.44	873.29	-7679.54	34.55	367.33	477.80	0.77	FAIL
15520.00†	7129.67	666.17	-7786.43	15252.48	6827.00	875.96	-7779.49	34.74	368.33	485.24	0.76	FAIL
15620.00†	7129.36	667.27	-7886.43	15352.47	6826.56	878.63	-7879.45	34.92	369.34	492.71	0.75	FAIL
15720.00†	7129.05	668.37	-7986.42	15452.45	6826.12	881.30	-7979.40	35.11	370.35	500.21	0.74	FAIL
15820.00†	7128.75	669.47	-8086.41	15552.44	6825.68	883.97	-8079.35	35.30	371.36	507.75	0.73	FAIL
15920.00†	7128.44	670.57	-8186.41	15652.43	6825.23	886.64	-8179.30	35.48	372.38	515.32	0.72	FAIL
16020.00†	7128.13	671.67	-8286.40	15752.42	6824.79	889.30	-8279.25	35.67	373.40	522.91	0.71	FAIL
16120.00†	7127.83	672.77	-8386.39	15852.40	6824.35	891.97	-8379.20	35.85	374.43	530.54	0.71	FAIL
16220.00†	7127.52	673.87	-8486.39	15952.39	6823.91	894.64	-8479.15	36.03	375.46	538.19	0.70	FAIL
16320.00†	7127.21	674.97	-8586.38	16052.38	6823.47	897.31	-8579.10	36.21	376.49	545.88	0.69	FAIL
16420.00†	7126.90	676.07	-8686.37	16152.37	6823.03	899.98	-8679.05	36.39	377.53	553.59	0.68	FAIL
16520.00†	7126.60	677.17	-8786.37	16252.35	6822.58	902.65	-8779.00	36.57	378.57	561.33	0.67	FAIL
16620.00†	7126.29	678.27	-8886.36	16352.34	6822.14	905.31	-8878.96	36.75	379.62	569.10	0.67	FAIL
16720.00†	7125.98	679.37	-8986.36	16452.33	6821.70	907.98	-8978.91	36.92	380.67	576.90	0.66	FAIL
16820.00†	7125.68	680.47	-9086.35	16552.32	6821.26	910.65	-9078.86	37.10	381.72	584.73	0.65	FAIL
16920.00†	7125.37	681.57	-9186.34	16652.30	6820.82	913.32	-9178.81	37.28	382.77	592.58	0.65	FAIL
17020.00†	7125.06	682.68	-9286.34	16752.29	6820.37	915.99	-9278.76	37.45	383.83	600.45	0.64	FAIL
17120.00†	7124.76	683.78	-9386.33	16852.28	6819.93	918.66	-9378.71	37.62	384.90	608.36	0.63	FAIL
17220.00†	7124.45	684.88	-9486.32	16952.27	6819.49	921.32	-9478.66	37.80	385.96	616.28	0.63	FAIL
17320.00†	7124.14	685.98	-9586.32	17052.25	6819.05	923.99	-9578.61	37.97	387.03	624.24	0.62	FAIL
17331.81†	7124.11	686.11	-9598.13	17063.18	6819.00	924.28	-9589.54	37.99	387.16	625.13	0.62	FAIL
17366.24	7124.00	686.49	-9632.55	17063.18	6819.00	924.28	-9589.54	37.99	389.13	623.44	0.62	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## POSITIONAL UNCERTAINTY - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2A-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## HOLE & CASING SECTIONS - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2A-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	20.00	1750.00	1730.00	20.00	1731.53	12.03	-0.14	55.99	47.28
9.625in Casing Surface	20.00	1750.00	1730.00	20.00	1731.53	12.03	-0.14	55.99	47.28
8.5in Open Hole	1750.00	17063.18	15313.18	1731.53	6819.00	55.99	47.28	287.74	-2922.96

## SURVEY PROGRAM - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2A-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	1750.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 12N-2A-L PWB
1750.00	17063.18	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 12N-2A-L PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: GREELEY-ROTHER FEDERAL 12N-2A-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)

MD Reference: PRECISION 462 (20') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	20.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. RUDOLPH 2-31 AWP Offset Wellpath: EX. RUDOLPH 2-31 AWP

Facility: SEC.02-T5N-R67W Slot: SLOT#05 EX. RUDOLPH 2-31 (2387'FSL & 2058'FWL, NB-CD/PR) Well: EX. RUDOLPH 2-31 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	43.00	20.00	1156.07	-7672.07	-81.43	7758.68	50.26	157.38	PASS
120.00†	120.00	0.00	0.00	143.00	120.00	1156.07	-7672.07	-81.43	7758.68	50.78	155.73	PASS
220.00†	220.00	0.00	0.00	243.00	220.00	1156.07	-7672.07	-81.43	7758.68	52.03	151.92	PASS
320.00†	320.00	0.00	0.00	343.00	320.00	1156.07	-7672.07	-81.43	7758.68	53.94	146.43	PASS
400.00	400.00	0.00	0.00	423.00	400.00	1156.07	-7672.07	-81.43	7758.68	55.86	141.31	PASS
420.00†	420.00	0.04	0.06	443.00	420.00	1156.07	-7672.07	-138.05	7758.73	56.41	139.92	PASS
520.00†	519.96	1.38	2.10	542.96	519.96	1156.07	-7672.07	-138.04	7760.55	59.31	133.00	PASS
620.00†	619.78	4.65	7.05	642.78	619.78	1156.07	-7672.07	-138.01	7764.96	62.56	126.05	PASS
720.00†	719.33	9.82	14.91	742.33	719.33	1156.07	-7672.07	-137.96	7771.97	66.06	119.38	PASS
820.00†	818.50	16.91	25.66	841.50	818.50	1156.07	-7672.07	-137.89	7781.57	69.73	113.14	PASS
851.46	849.59	19.53	29.64	872.59	849.59	1156.07	-7672.07	-137.87	7785.12	70.92	111.28	PASS
920.00†	917.28	25.45	38.62	940.28	917.28	1156.07	-7672.07	-137.92	7793.14	73.53	107.39	PASS
1020.00†	1016.05	34.09	51.73	1039.05	1016.05	1156.07	-7672.07	-138.00	7804.86	77.43	102.06	PASS
1120.00†	1114.81	42.72	64.83	1137.81	1114.81	1156.07	-7672.07	-138.07	7816.60	81.43	97.13	PASS
1220.00†	1213.57	51.36	77.94	1236.57	1213.57	1156.07	-7672.07	-138.15	7828.35	85.51	92.58	PASS
1320.00†	1312.33	59.99	91.04	1335.33	1312.33	1156.07	-7672.07	-138.23	7840.11	89.65	88.39	PASS
1420.00†	1411.09	68.63	104.15	1434.09	1411.09	1156.07	-7672.07	-138.30	7851.88	93.86	84.52	PASS
1520.00†	1509.85	77.26	117.25	1532.85	1509.85	1156.07	-7672.07	-138.38	7863.67	98.10	80.94	PASS
1620.00†	1608.61	85.90	130.36	1631.61	1608.61	1156.07	-7672.07	-138.45	7875.47	102.39	77.64	PASS
1720.00†	1707.37	94.53	143.46	1730.37	1707.37	1156.07	-7672.07	-138.53	7887.29	106.72	74.57	PASS
1820.00†	1806.13	103.17	156.56	1829.13	1806.13	1156.07	-7672.07	-138.60	7899.12	110.76	71.77	PASS
1920.00†	1904.89	111.80	169.67	1927.89	1904.89	1156.07	-7672.07	-138.68	7910.96	115.03	69.19	PASS
2020.00†	2003.65	120.44	182.77	2026.65	2003.65	1156.07	-7672.07	-138.75	7922.82	119.32	66.79	PASS
2120.00†	2102.41	129.07	195.88	2125.41	2102.41	1156.07	-7672.07	-138.83	7934.69	123.65	64.54	PASS
2220.00†	2201.18	137.71	208.98	2224.18	2201.18	1156.07	-7672.07	-138.90	7946.57	128.00	62.42	PASS
2320.00†	2299.94	146.34	222.09	2322.94	2299.94	1156.07	-7672.07	-138.98	7958.47	132.37	60.44	PASS
2420.00†	2398.70	154.98	235.19	2421.70	2398.70	1156.07	-7672.07	-139.05	7970.38	136.76	58.58	PASS
2520.00†	2497.46	163.61	248.29	2520.46	2497.46	1156.07	-7672.07	-139.12	7982.30	141.18	56.82	PASS
2620.00†	2596.22	172.25	261.40	2619.22	2596.22	1156.07	-7672.07	-139.20	7994.24	145.61	55.17	PASS
2720.00†	2694.98	180.88	274.50	2717.98	2694.98	1156.07	-7672.07	-139.27	8006.19	150.06	53.60	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. RUDOLPH 2-31 AWB Offset Wellpath: EX. RUDOLPH 2-31 AWP

Facility: SEC.02-T5N-R67W Slot: SLOT#05 EX. RUDOLPH 2-31 (2387'FSL & 2058'FWL, NB-CD/PR) Well: EX. RUDOLPH 2-31 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2816.74	2793.74	1156.07	-7672.07	-139.34	8018.15	154.53	52.12	PASS
2920.00†	2892.50	198.15	300.71	2915.50	2892.50	1156.07	-7672.07	-139.41	8030.12	159.02	50.72	PASS
3020.00†	2991.26	206.79	313.82	3014.26	2991.26	1156.07	-7672.07	-139.49	8042.11	163.52	49.39	PASS
3120.00†	3090.02	215.42	326.92	3113.02	3090.02	1156.07	-7672.07	-139.56	8054.11	168.04	48.13	PASS
3220.00†	3188.78	224.06	340.03	3211.78	3188.78	1156.07	-7672.07	-139.63	8066.12	172.57	46.93	PASS
3320.00†	3287.55	232.69	353.13	3310.55	3287.55	1156.07	-7672.07	-139.70	8078.15	177.12	45.79	PASS
3420.00†	3386.31	241.33	366.23	3409.31	3386.31	1156.07	-7672.07	-139.77	8090.18	181.68	44.70	PASS
3520.00†	3485.07	249.96	379.34	3508.07	3485.07	1156.07	-7672.07	-139.85	8102.24	186.25	43.66	PASS
3620.00†	3583.83	258.60	392.44	3606.83	3583.83	1156.07	-7672.07	-139.92	8114.30	190.84	42.67	PASS
3720.00†	3682.59	267.23	405.55	3705.59	3682.59	1156.07	-7672.07	-139.99	8126.37	195.43	41.73	PASS
3820.00†	3781.35	275.87	418.65	3804.35	3781.35	1156.07	-7672.07	-140.06	8138.46	200.04	40.82	PASS
3920.00†	3880.11	284.50	431.76	3903.11	3880.11	1156.07	-7672.07	-140.13	8150.56	204.67	39.96	PASS
4020.00†	3978.87	293.14	444.86	4001.87	3978.87	1156.07	-7672.07	-140.20	8162.67	209.30	39.13	PASS
4120.00†	4077.63	301.77	457.97	4100.63	4077.63	1156.07	-7672.07	-140.27	8174.80	213.94	38.33	PASS
4220.00†	4176.39	310.41	471.07	4199.39	4176.39	1156.07	-7672.07	-140.34	8186.93	218.60	37.57	PASS
4320.00†	4275.15	319.04	484.17	4298.15	4275.15	1156.07	-7672.07	-140.41	8199.08	223.26	36.84	PASS
4420.00†	4373.91	327.68	497.28	4396.91	4373.91	1156.07	-7672.07	-140.48	8211.24	227.93	36.13	PASS
4520.00†	4472.68	336.31	510.38	4495.68	4472.68	1156.07	-7672.07	-140.55	8223.41	232.62	35.46	PASS
4620.00†	4571.44	344.95	523.49	4594.44	4571.44	1156.07	-7672.07	-140.62	8235.60	237.31	34.80	PASS
4720.00†	4670.20	353.58	536.59	4693.20	4670.20	1156.07	-7672.07	-140.68	8247.79	242.01	34.18	PASS
4820.00†	4768.96	362.22	549.70	4791.96	4768.96	1156.07	-7672.07	-140.75	8260.00	246.72	33.57	PASS
4920.00†	4867.72	370.85	562.80	4890.72	4867.72	1156.07	-7672.07	-140.82	8272.22	251.44	32.99	PASS
5020.00†	4966.48	379.49	575.91	4989.48	4966.48	1156.07	-7672.07	-140.89	8284.45	256.16	32.43	PASS
5120.00†	5065.24	388.12	589.01	5088.24	5065.24	1156.07	-7672.07	-140.96	8296.70	260.89	31.88	PASS
5220.00†	5164.00	396.76	602.11	5187.00	5164.00	1156.07	-7672.07	-141.03	8308.95	265.63	31.36	PASS
5320.00†	5262.76	405.39	615.22	5285.76	5262.76	1156.07	-7672.07	-141.09	8321.22	270.38	30.85	PASS
5420.00†	5361.52	414.03	628.32	5384.52	5361.52	1156.07	-7672.07	-141.16	8333.50	275.13	30.36	PASS
5520.00†	5460.28	422.66	641.43	5483.28	5460.28	1156.07	-7672.07	-141.23	8345.78	279.89	29.89	PASS
5620.00†	5559.05	431.30	654.53	5582.05	5559.05	1156.07	-7672.07	-141.29	8358.09	284.66	29.43	PASS
5720.00†	5657.81	439.93	667.64	5680.81	5657.81	1156.07	-7672.07	-141.36	8370.40	289.43	28.99	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. RUDOLPH 2-31 AWP Offset Wellpath: EX. RUDOLPH 2-31 AWP

Facility: SEC.02-T5N-R67W Slot: SLOT#05 EX. RUDOLPH 2-31 (2387'FSL & 2058'FWL, NB-CD/PR) Well: EX. RUDOLPH 2-31 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5779.57	5756.57	1156.07	-7672.07	-141.43	8382.72	294.21	28.56	PASS
5920.00†	5855.33	457.20	693.85	5878.33	5855.33	1156.07	-7672.07	-141.50	8395.06	299.00	28.14	PASS
6020.00†	5954.09	465.84	706.95	5977.09	5954.09	1156.07	-7672.07	-141.56	8407.40	303.79	27.74	PASS
6120.00†	6052.85	474.47	720.05	6075.85	6052.85	1156.07	-7672.07	-141.63	8419.76	308.58	27.35	PASS
6220.00†	6151.61	483.11	733.16	6174.61	6151.61	1156.07	-7672.07	-141.69	8432.13	313.38	26.97	PASS
6320.00†	6250.37	491.74	746.26	6273.37	6250.37	1156.07	-7672.07	-141.76	8444.50	318.19	26.60	PASS
6420.00†	6349.13	500.38	759.37	6372.13	6349.13	1156.07	-7672.07	-141.82	8456.89	323.00	26.24	PASS
6509.39	6437.41	508.10	771.08	6460.41	6437.41	1156.07	-7672.07	-141.88	8467.98	327.30	25.93	PASS
6520.00†	6447.90	509.02	772.38	6470.90	6447.90	1156.07	-7672.07	-138.18	8469.21	327.81	25.89	PASS
6620.00†	6547.35	517.82	776.00	6570.35	6547.35	1156.07	-7672.07	-60.37	8472.15	332.72	25.52	PASS
6720.00†	6646.11	526.74	763.96	6669.11	6646.11	1156.07	-7672.07	-20.39	8459.47	337.91	25.09	PASS
6820.00†	6741.77	535.55	736.55	6764.77	6741.77	1156.07	-7672.07	-10.45	8431.48	343.29	24.61	PASS
6920.00†	6831.97	544.05	694.45	6854.97	6831.97	1156.07	-7672.07	-6.18	8388.88	348.22	24.14	PASS
7020.00†	6914.48	552.02	638.70	6937.48	6914.48	1156.07	-7672.07	-3.65	8332.70	352.63	23.68	PASS
7120.00†	6987.27	559.26	570.67	7010.27	6987.27	1156.07	-7672.07	-1.71	8264.32	356.44	23.23	PASS
7220.00†	7048.56	565.59	492.04	7071.56	7048.56	1156.07	-7672.07	0.24	8185.44	359.58	22.81	PASS
7320.00†	7096.83	570.87	404.74	7119.83	7096.83	1156.07	-7672.07	2.86	8097.98	361.99	22.41	PASS
7420.00†	7130.89	574.96	310.91	7153.89	7130.89	1156.07	-7672.07	7.87	8004.11	363.65	22.05	PASS
7520.00†	7149.90	577.75	212.88	7172.90	7149.90	1156.07	-7672.07	24.64	7906.13	364.55	21.73	PASS
7594.38	7154.00	578.96	138.67	7177.00	7154.00	1156.07	-7672.07	92.80	7832.03	364.74	21.51	PASS
7620.00†	7153.92	579.24	113.05	7176.92	7153.92	1156.07	-7672.07	92.79	7806.46	364.74	21.44	PASS
7720.00†	7153.61	580.34	13.06	7176.61	7153.61	1156.07	-7672.07	92.75	7706.66	364.74	21.17	PASS
7820.00†	7153.31	581.44	-86.94	7176.31	7153.31	1156.07	-7672.07	92.72	7606.87	364.74	20.89	PASS
7920.00†	7153.00	582.54	-186.93	7176.00	7153.00	1156.07	-7672.07	92.68	7507.08	364.74	20.62	PASS
8020.00†	7152.69	583.64	-286.92	7175.69	7152.69	1156.07	-7672.07	92.65	7407.30	364.75	20.35	PASS
8120.00†	7152.39	584.74	-386.92	7175.39	7152.39	1156.07	-7672.07	92.61	7307.52	364.76	20.07	PASS
8220.00†	7152.08	585.84	-486.91	7175.08	7152.08	1156.07	-7672.07	92.57	7207.75	364.78	19.80	PASS
8320.00†	7151.77	586.94	-586.90	7174.77	7151.77	1156.07	-7672.07	92.54	7107.99	364.80	19.52	PASS
8420.00†	7151.47	588.04	-686.90	7174.47	7151.47	1156.07	-7672.07	92.50	7008.23	364.83	19.25	PASS
8520.00†	7151.16	589.14	-786.89	7174.16	7151.16	1156.07	-7672.07	92.47	6908.48	364.86	18.97	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. RUDOLPH 2-31 AWP Offset Wellpath: EX. RUDOLPH 2-31 AWP

Facility: SEC.02-T5N-R67W Slot: SLOT#05 EX. RUDOLPH 2-31 (2387'FSL & 2058'FWL, NB-CD/PR) Well: EX. RUDOLPH 2-31 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	7173.85	7150.85	1156.07	-7672.07	92.43	6808.74	364.90	18.69	PASS
8720.00†	7150.54	591.34	-986.88	7173.54	7150.54	1156.07	-7672.07	92.40	6709.00	364.95	18.42	PASS
8820.00†	7150.24	592.44	-1086.87	7173.24	7150.24	1156.07	-7672.07	92.36	6609.28	365.00	18.14	PASS
8920.00†	7149.93	593.54	-1186.86	7172.93	7149.93	1156.07	-7672.07	92.32	6509.56	365.06	17.86	PASS
9020.00†	7149.62	594.64	-1286.86	7172.62	7149.62	1156.07	-7672.07	92.29	6409.85	365.13	17.59	PASS
9120.00†	7149.32	595.74	-1386.85	7172.32	7149.32	1156.07	-7672.07	92.25	6310.15	365.21	17.31	PASS
9220.00†	7149.01	596.84	-1486.84	7172.01	7149.01	1156.07	-7672.07	92.22	6210.45	365.29	17.03	PASS
9320.00†	7148.70	597.94	-1586.84	7171.70	7148.70	1156.07	-7672.07	92.18	6110.77	365.39	16.75	PASS
9420.00†	7148.40	599.04	-1686.83	7171.40	7148.40	1156.07	-7672.07	92.15	6011.10	365.49	16.48	PASS
9520.00†	7148.09	600.15	-1786.82	7171.09	7148.09	1156.07	-7672.07	92.11	5911.44	365.60	16.20	PASS
9620.00†	7147.78	601.25	-1886.82	7170.78	7147.78	1156.07	-7672.07	92.07	5811.79	365.73	15.92	PASS
9720.00†	7147.47	602.35	-1986.81	7170.47	7147.47	1156.07	-7672.07	92.04	5712.16	365.87	15.64	PASS
9820.00†	7147.17	603.45	-2086.81	7170.17	7147.17	1156.07	-7672.07	92.00	5612.54	366.02	15.36	PASS
9920.00†	7146.86	604.55	-2186.80	7169.86	7146.86	1156.07	-7672.07	91.97	5512.93	366.19	15.08	PASS
10020.00†	7146.55	605.65	-2286.79	7169.55	7146.55	1156.07	-7672.07	91.93	5413.33	366.37	14.80	PASS
10120.00†	7146.25	606.75	-2386.79	7169.25	7146.25	1156.07	-7672.07	91.89	5313.75	366.57	14.52	PASS
10220.00†	7145.94	607.85	-2486.78	7168.94	7145.94	1156.07	-7672.07	91.86	5214.19	366.78	14.24	PASS
10320.00†	7145.63	608.95	-2586.77	7168.63	7145.63	1156.07	-7672.07	91.82	5114.64	367.01	13.96	PASS
10420.00†	7145.33	610.05	-2686.77	7168.33	7145.33	1156.07	-7672.07	91.79	5015.12	367.27	13.68	PASS
10520.00†	7145.02	611.15	-2786.76	7168.02	7145.02	1156.07	-7672.07	91.75	4915.61	367.54	13.40	PASS
10620.00†	7144.71	612.25	-2886.75	7167.71	7144.71	1156.07	-7672.07	91.72	4816.12	367.84	13.12	PASS
10720.00†	7144.40	613.35	-2986.75	7167.40	7144.40	1156.07	-7672.07	91.68	4716.65	368.16	12.83	PASS
10820.00†	7144.10	614.45	-3086.74	7167.10	7144.10	1156.07	-7672.07	91.64	4617.21	368.52	12.55	PASS
10920.00†	7143.79	615.55	-3186.73	7166.79	7143.79	1156.07	-7672.07	91.61	4517.79	368.90	12.27	PASS
11020.00†	7143.48	616.65	-3286.73	7166.48	7143.48	1156.07	-7672.07	91.57	4418.39	369.31	11.98	PASS
11120.00†	7143.18	617.75	-3386.72	7166.18	7143.18	1156.07	-7672.07	91.54	4319.03	369.76	11.70	PASS
11220.00†	7142.87	618.85	-3486.71	7165.87	7142.87	1156.07	-7672.07	91.50	4219.69	370.25	11.42	PASS
11320.00†	7142.56	619.95	-3586.71	7165.56	7142.56	1156.07	-7672.07	91.47	4120.39	370.78	11.13	PASS
11420.00†	7142.26	621.05	-3686.70	7165.26	7142.26	1156.07	-7672.07	91.43	4021.12	371.35	10.85	PASS
11520.00†	7141.95	622.15	-3786.69	7164.95	7141.95	1156.07	-7672.07	91.39	3921.89	371.98	10.56	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. RUDOLPH 2-31 AWP Offset Wellpath: EX. RUDOLPH 2-31 AWP

Facility: SEC.02-T5N-R67W Slot: SLOT#05 EX. RUDOLPH 2-31 (2387'FSL & 2058'FWL, NB-CD/PR) Well: EX. RUDOLPH 2-31 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11620.00†	7141.64	623.25	-3886.69	7164.64	7141.64	1156.07	-7672.07	91.36	3822.70	372.66	10.28	PASS
11720.00†	7141.33	624.35	-3986.68	7164.33	7141.33	1156.07	-7672.07	91.32	3723.55	373.39	9.99	PASS
11820.00†	7141.03	625.45	-4086.67	7164.03	7141.03	1156.07	-7672.07	91.29	3624.45	374.19	9.70	PASS
11920.00†	7140.72	626.55	-4186.67	7163.72	7140.72	1156.07	-7672.07	91.25	3525.39	375.07	9.42	PASS
12020.00†	7140.41	627.66	-4286.66	7163.41	7140.41	1156.07	-7672.07	91.21	3426.40	376.02	9.13	PASS
12120.00†	7140.11	628.76	-4386.66	7163.11	7140.11	1156.07	-7672.07	91.18	3327.46	377.06	8.84	PASS
12220.00†	7139.80	629.86	-4486.65	7162.80	7139.80	1156.07	-7672.07	91.14	3228.59	378.19	8.55	PASS
12320.00†	7139.49	630.96	-4586.64	7162.49	7139.49	1156.07	-7672.07	91.11	3129.79	379.42	8.26	PASS
12420.00†	7139.19	632.06	-4686.64	7162.19	7139.19	1156.07	-7672.07	91.07	3031.07	380.77	7.97	PASS
12520.00†	7138.88	633.16	-4786.63	7161.88	7138.88	1156.07	-7672.07	91.04	2932.44	382.25	7.68	PASS
12620.00†	7138.57	634.26	-4886.62	7161.57	7138.57	1156.07	-7672.07	91.00	2833.90	383.87	7.39	PASS
12720.00†	7138.26	635.36	-4986.62	7161.26	7138.26	1156.07	-7672.07	90.96	2735.47	385.65	7.10	PASS
12820.00†	7137.96	636.46	-5086.61	7160.96	7137.96	1156.07	-7672.07	90.93	2637.16	387.60	6.81	PASS
12920.00†	7137.65	637.56	-5186.60	7160.65	7137.65	1156.07	-7672.07	90.89	2538.98	389.75	6.52	PASS
13020.00†	7137.34	638.66	-5286.60	7160.34	7137.34	1156.07	-7672.07	90.86	2440.94	392.12	6.23	PASS
13120.00†	7137.04	639.76	-5386.59	7160.04	7137.04	1156.07	-7672.07	90.82	2343.07	394.74	5.94	PASS
13220.00†	7136.73	640.86	-5486.58	7159.73	7136.73	1156.07	-7672.07	90.79	2245.39	397.64	5.66	PASS
13320.00†	7136.42	641.96	-5586.58	7159.42	7136.42	1156.07	-7672.07	90.75	2147.93	400.85	5.37	PASS
13420.00†	7136.12	643.06	-5686.57	7159.12	7136.12	1156.07	-7672.07	90.71	2050.70	404.43	5.08	PASS
13520.00†	7135.81	644.16	-5786.56	7158.81	7135.81	1156.07	-7672.07	90.68	1953.76	408.42	4.79	PASS
13620.00†	7135.50	645.26	-5886.56	7158.50	7135.50	1156.07	-7672.07	90.64	1857.14	412.89	4.50	PASS
13720.00†	7135.19	646.36	-5986.55	7158.19	7135.19	1156.07	-7672.07	90.61	1760.90	417.91	4.22	PASS
13820.00†	7134.89	647.46	-6086.54	7157.89	7134.89	1156.07	-7672.07	90.57	1665.10	423.56	3.94	PASS
13920.00†	7134.58	648.56	-6186.54	7157.58	7134.58	1156.07	-7672.07	90.53	1569.83	429.95	3.66	PASS
14020.00†	7134.27	649.66	-6286.53	7157.27	7134.27	1156.07	-7672.07	90.50	1475.18	437.22	3.38	PASS
14120.00†	7133.97	650.76	-6386.52	7156.97	7133.97	1156.07	-7672.07	90.46	1381.29	445.52	3.10	PASS
14220.00†	7133.66	651.86	-6486.52	7156.66	7133.66	1156.07	-7672.07	90.43	1288.31	455.03	2.83	PASS
14320.00†	7133.35	652.96	-6586.51	7156.35	7133.35	1156.07	-7672.07	90.39	1196.47	466.01	2.57	PASS
14420.00†	7133.05	654.06	-6686.51	7156.05	7133.05	1156.07	-7672.07	90.36	1106.05	478.74	2.31	PASS
14520.00†	7132.74	655.17	-6786.50	7155.74	7132.74	1156.07	-7672.07	90.32	1017.42	493.56	2.06	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. RUDOLPH 2-31 AWP Offset Wellpath: EX. RUDOLPH 2-31 AWP

Facility: SEC.02-T5N-R67W Slot: SLOT#05 EX. RUDOLPH 2-31 (2387'FSL & 2058'FWL, NB-CD/PR) Well: EX. RUDOLPH 2-31 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14620.00†	7132.43	656.27	-6886.49	7155.43	7132.43	1156.07	-7672.07	90.28	931.09	510.88	1.82	PASS
14720.00†	7132.12	657.37	-6986.49	7155.12	7132.12	1156.07	-7672.07	90.25	847.78	531.15	1.60	PASS
14820.00†	7131.82	658.47	-7086.48	7154.82	7131.82	1156.07	-7672.07	90.21	768.45	554.79	1.39	PASS
14920.00†	7131.51	659.57	-7186.47	7154.51	7131.51	1156.07	-7672.07	90.18	694.49	582.04	1.19	PASS
15020.00†	7131.20	660.67	-7286.47	7154.20	7131.20	1156.07	-7672.07	90.14	627.78	612.58	1.02	PASS
15120.00†	7130.90	661.77	-7386.46	7153.90	7130.90	1156.07	-7672.07	90.10	570.88	644.96	0.89	FAIL
15220.00†	7130.59	662.87	-7486.45	7153.59	7130.59	1156.07	-7672.07	90.07	526.97	675.78	0.78	FAIL
15320.00†	7130.28	663.97	-7586.45	7153.28	7130.28	1156.07	-7672.07	90.03	499.49	699.60	0.71	FAIL
15411.45†	7130.00	664.97	-7677.89	7152.27	7129.27	1156.07	-7672.07	89.91	491.13	710.24	0.69	FAIL
15420.00†	7129.98	665.07	-7686.44	7152.98	7129.98	1156.07	-7672.07	90.00	491.21	710.61	0.69	FAIL
15520.00†	7129.67	666.17	-7786.43	7152.67	7129.67	1156.07	-7672.07	89.96	503.07	706.18	0.71	FAIL
15620.00†	7129.36	667.27	-7886.43	7152.36	7129.36	1156.07	-7672.07	89.93	533.73	688.76	0.77	FAIL
15720.00†	7129.05	668.37	-7986.42	7152.05	7129.05	1156.07	-7672.07	89.89	580.23	663.83	0.87	FAIL
15820.00†	7128.75	669.47	-8086.41	7151.75	7128.75	1156.07	-7672.07	89.85	639.11	636.52	1.00	PASS
15920.00†	7128.44	670.57	-8186.41	7151.44	7128.44	1156.07	-7672.07	89.82	707.28	610.13	1.16	PASS
16020.00†	7128.13	671.67	-8286.40	7151.13	7128.13	1156.07	-7672.07	89.78	782.33	586.15	1.34	PASS
16120.00†	7127.83	672.77	-8386.39	7150.83	7127.83	1156.07	-7672.07	89.75	862.46	565.03	1.53	PASS
16220.00†	7127.52	673.87	-8486.39	7150.52	7127.52	1156.07	-7672.07	89.71	946.37	546.69	1.73	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. RUDOLPH 2-31 AWP Offset Wellpath: EX. RUDOLPH 2-31 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

WELLPATH COMPOSITION - Offset Wellbore: EX. RUDOLPH 2-31 AWB Offset Wellpath: EX. RUDOLPH 2-31 AWP			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment
0.00	7361.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7361>
			EX. RUDOLPH 2-31 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. RUDOLPH 2-31 AWB Offset Wellpath: EX. RUDOLPH 2-31 AWP	
MD Reference: Rig on SLOT#05 EX. RUDOLPH 2-31 (2387'FSL & 2058'FWL, NB-CD/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 13C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13C-2-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#20 GREELEY-ROTHER FEDERAL 13C-2-L (1023'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 13C-2-L Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	20.00	20.00	-60.11	0.85	179.19	60.12	1.56	98.59	PASS
120.00†	120.00	0.00	0.00	120.00	120.00	-60.11	0.85	179.19	60.12	1.88	64.45	PASS
220.00†	220.00	0.00	0.00	220.00	220.00	-60.11	0.85	179.19	60.12	2.45	39.86	PASS
320.00†	320.00	0.00	0.00	320.00	320.00	-60.11	0.85	179.19	60.12	3.05	28.36	PASS
400.00	400.00	0.00	0.00	400.00	400.00	-60.11	0.85	179.19	60.12	3.54	22.97	PASS
420.00†	420.00	0.04	0.06	420.00	420.00	-60.11	0.85	122.63	60.16	3.66	21.95	PASS
520.00†	519.96	1.38	2.10	519.96	519.96	-60.11	0.85	124.52	61.51	4.35	17.86	PASS
620.00†	619.78	4.65	7.05	619.91	619.90	-60.12	1.70	128.03	64.98	5.25	14.92	PASS
720.00†	719.33	9.82	14.91	719.94	719.84	-60.15	5.89	130.58	70.55	6.15	13.43	PASS
820.00†	818.50	16.91	25.66	819.99	819.59	-60.21	13.56	132.08	78.07	7.05	12.67	PASS
851.46	849.59	19.53	29.64	851.45	850.89	-60.23	16.70	132.35	80.82	7.32	12.56	PASS
920.00†	917.28	25.45	38.62	920.04	919.01	-60.29	24.72	132.37	86.88	7.82	12.53	PASS
1020.00†	1016.05	34.09	51.73	1019.74	1017.81	-60.39	38.15	131.33	95.46	8.58	12.41	PASS
1120.00†	1114.81	42.72	64.83	1119.36	1116.51	-60.49	51.64	130.43	104.06	9.40	12.22	PASS
1220.00†	1213.57	51.36	77.94	1218.98	1215.20	-60.59	65.13	129.66	112.68	10.28	12.00	PASS
1320.00†	1312.33	59.99	91.04	1318.59	1313.90	-60.69	78.61	129.00	121.33	11.18	11.78	PASS
1420.00†	1411.09	68.63	104.15	1418.21	1412.60	-60.79	92.10	128.44	129.98	12.12	11.56	PASS
1520.00†	1509.85	77.26	117.25	1517.83	1511.30	-60.88	105.59	127.94	138.64	13.08	11.37	PASS
1620.00†	1608.61	85.90	130.36	1617.45	1610.00	-60.98	119.07	127.50	147.32	14.05	11.19	PASS
1720.00†	1707.37	94.53	143.46	1717.06	1708.70	-61.08	132.56	127.11	156.00	15.03	11.02	PASS
1820.00†	1806.13	103.17	156.56	1816.68	1807.40	-61.18	146.05	126.76	164.69	15.30	11.24	PASS
1920.00†	1904.89	111.80	169.67	1916.30	1906.10	-61.28	159.54	126.44	173.38	15.41	11.74	PASS
2020.00†	2003.65	120.44	182.77	2015.91	2004.80	-61.38	173.02	126.16	182.08	15.60	12.18	PASS
2120.00†	2102.41	129.07	195.88	2115.53	2103.50	-61.48	186.51	125.90	190.79	15.86	12.54	PASS
2220.00†	2201.18	137.71	208.98	2215.15	2202.20	-61.58	200.00	125.66	199.49	16.20	12.83	PASS
2320.00†	2299.94	146.34	222.09	2314.76	2300.90	-61.68	213.48	125.45	208.20	16.61	13.05	PASS
2420.00†	2398.70	154.98	235.19	2414.38	2399.60	-61.78	226.97	125.25	216.91	17.08	13.20	PASS
2520.00†	2497.46	163.61	248.29	2514.00	2498.30	-61.88	240.46	125.06	225.63	17.62	13.30	PASS
2620.00†	2596.22	172.25	261.40	2613.62	2597.00	-61.98	253.95	124.89	234.35	18.21	13.35	PASS
2720.00†	2694.98	180.88	274.50	2713.23	2695.70	-62.08	267.43	124.74	243.06	18.84	13.36	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 13C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13C-2-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#20 GREELEY-ROTHER FEDERAL 13C-2-L (1023'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 13C-2-L Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2812.85	2794.40	-62.18	280.92	124.59	251.78	19.53	13.34	PASS
2920.00†	2892.50	198.15	300.71	2912.47	2893.10	-62.28	294.41	124.45	260.51	20.25	13.30	PASS
3020.00†	2991.26	206.79	313.82	3012.08	2991.80	-62.38	307.90	124.32	269.23	21.00	13.23	PASS
3120.00†	3090.02	215.42	326.92	3111.70	3090.50	-62.48	321.38	124.20	277.95	21.79	13.15	PASS
3220.00†	3188.78	224.06	340.03	3211.32	3189.20	-62.58	334.87	124.09	286.68	22.61	13.06	PASS
3320.00†	3287.55	232.69	353.13	3310.94	3287.90	-62.68	348.36	123.99	295.41	23.45	12.96	PASS
3420.00†	3386.31	241.33	366.23	3410.55	3386.60	-62.78	361.84	123.89	304.13	24.31	12.86	PASS
3520.00†	3485.07	249.96	379.34	3510.17	3485.30	-62.87	375.33	123.79	312.86	25.19	12.75	PASS
3620.00†	3583.83	258.60	392.44	3609.79	3584.00	-62.97	388.82	123.70	321.59	26.09	12.64	PASS
3720.00†	3682.59	267.23	405.55	3709.40	3682.70	-63.07	402.31	123.62	330.32	27.01	12.53	PASS
3820.00†	3781.35	275.87	418.65	3809.02	3781.40	-63.17	415.79	123.54	339.05	27.94	12.42	PASS
3920.00†	3880.11	284.50	431.76	3908.64	3880.10	-63.27	429.28	123.46	347.78	28.89	12.32	PASS
4020.00†	3978.87	293.14	444.86	4008.25	3978.80	-63.37	442.77	123.39	356.52	29.84	12.21	PASS
4120.00†	4077.63	301.77	457.97	4107.87	4077.50	-63.47	456.25	123.32	365.25	30.81	12.11	PASS
4220.00†	4176.39	310.41	471.07	4207.49	4176.20	-63.57	469.74	123.25	373.98	31.79	12.01	PASS
4320.00†	4275.15	319.04	484.17	4307.11	4274.90	-63.67	483.23	123.19	382.71	32.77	11.91	PASS
4420.00†	4373.91	327.68	497.28	4406.72	4373.60	-63.77	496.72	123.13	391.45	33.77	11.82	PASS
4520.00†	4472.68	336.31	510.38	4506.34	4472.30	-63.87	510.20	123.07	400.18	34.77	11.73	PASS
4620.00†	4571.44	344.95	523.49	4605.96	4571.00	-63.97	523.69	123.02	408.92	35.78	11.64	PASS
4720.00†	4670.20	353.58	536.59	4705.57	4669.70	-64.07	537.18	122.97	417.65	36.79	11.56	PASS
4820.00†	4768.96	362.22	549.70	4805.19	4768.40	-64.17	550.66	122.92	426.39	37.81	11.47	PASS
4920.00†	4867.72	370.85	562.80	4904.81	4867.10	-64.27	564.15	122.87	435.12	38.84	11.39	PASS
5020.00†	4966.48	379.49	575.91	5004.43	4965.80	-64.37	577.64	122.82	443.86	39.87	11.32	PASS
5120.00†	5065.24	388.12	589.01	5104.04	5064.50	-64.47	591.13	122.78	452.60	40.90	11.24	PASS
5220.00†	5164.00	396.76	602.11	5203.66	5163.20	-64.57	604.61	122.73	461.33	41.94	11.17	PASS
5320.00†	5262.76	405.39	615.22	5303.28	5261.90	-64.67	618.10	122.69	470.07	42.98	11.10	PASS
5420.00†	5361.52	414.03	628.32	5402.89	5360.59	-64.77	631.59	122.65	478.81	44.02	11.04	PASS
5520.00†	5460.28	422.66	641.43	5502.51	5459.29	-64.87	645.07	122.61	487.54	45.07	10.97	PASS
5620.00†	5559.05	431.30	654.53	5602.13	5557.99	-64.96	658.56	122.58	496.28	46.13	10.91	PASS
5720.00†	5657.81	439.93	667.64	5701.74	5656.69	-65.06	672.05	122.54	505.02	47.18	10.85	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 13C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13C-2-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#20 GREELEY-ROTHER FEDERAL 13C-2-L (1023'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 13C-2-L Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5801.36	5755.39	-65.16	685.54	122.51	513.76	48.24	10.79	PASS
5920.00†	5855.33	457.20	693.85	5900.98	5854.09	-65.26	699.02	122.47	522.49	49.30	10.74	PASS
6020.00†	5954.09	465.84	706.95	6000.60	5952.79	-65.36	712.51	122.44	531.23	50.36	10.69	PASS
6120.00†	6052.85	474.47	720.05	6100.21	6051.49	-65.46	726.00	122.41	539.97	51.42	10.63	PASS
6220.00†	6151.61	483.11	733.16	6199.83	6150.19	-65.56	739.48	122.38	548.71	52.49	10.58	PASS
6320.00†	6250.37	491.74	746.26	6299.45	6248.89	-65.66	752.97	122.35	557.45	53.56	10.53	PASS
6420.00†	6349.13	500.38	759.37	6399.06	6347.59	-65.76	766.46	122.32	566.19	54.63	10.49	PASS
6509.39	6437.41	508.10	771.08	6488.23	6435.94	-65.85	778.47	122.30	574.00	55.58	10.45	PASS
6520.00†	6447.90	509.02	772.38	6498.95	6446.60	-65.86	779.68	126.11	574.92	55.70	10.44	PASS
6620.00†	6547.35	517.82	776.00	6599.84	6547.35	-65.94	782.29	-155.08	583.79	57.42	10.28	PASS
6720.00†	6646.11	526.74	763.96	6700.56	6647.09	-65.97	769.00	-114.19	592.73	60.67	9.87	PASS
6820.00†	6741.77	535.55	736.55	6801.12	6743.32	-65.97	740.22	-103.47	601.54	62.33	9.75	PASS
6920.00†	6831.97	544.05	694.45	6901.52	6833.70	-65.93	696.74	-98.57	609.99	63.54	9.70	PASS
7020.00†	6914.48	552.02	638.70	7001.78	6916.03	-65.86	639.69	-95.63	617.88	65.14	9.58	PASS
7120.00†	6987.27	559.26	570.67	7101.92	6988.31	-65.75	570.53	-93.63	625.00	67.37	9.37	PASS
7220.00†	7048.56	565.59	492.04	7201.94	7048.79	-65.60	491.00	-92.17	631.20	70.40	9.05	PASS
7320.00†	7096.83	570.87	404.74	7301.83	7096.03	-65.43	403.10	-91.10	636.30	74.24	8.64	PASS
7420.00†	7130.89	574.96	310.91	7401.60	7128.93	-65.24	309.03	-90.33	640.20	78.76	8.19	PASS
7520.00†	7149.90	577.75	212.88	7501.22	7146.72	-65.02	211.11	-89.84	642.78	83.73	7.73	PASS
7594.38	7154.00	578.96	138.67	7575.26	7149.98	-64.85	137.18	-89.64	643.82	87.57	7.40	PASS
7620.00†	7153.92	579.24	113.05	7600.88	7149.91	-64.79	111.56	-89.64	644.04	88.93	7.29	PASS
7720.00†	7153.61	580.34	13.06	7700.87	7149.62	-64.56	11.57	-89.64	644.91	94.65	6.86	PASS
7820.00†	7153.31	581.44	-86.94	7800.87	7149.34	-64.32	-88.43	-89.65	645.78	100.89	6.44	PASS
7920.00†	7153.00	582.54	-186.93	7900.86	7149.06	-64.09	-188.42	-89.65	646.64	107.57	6.04	PASS
8020.00†	7152.69	583.64	-286.92	8000.86	7148.78	-63.86	-288.42	-89.65	647.51	114.60	5.68	PASS
8120.00†	7152.39	584.74	-386.92	8100.86	7148.49	-63.63	-388.42	-89.65	648.38	121.94	5.34	PASS
8220.00†	7152.08	585.84	-486.91	8200.85	7148.21	-63.39	-488.41	-89.66	649.25	129.52	5.03	PASS
8320.00†	7151.77	586.94	-586.90	8300.85	7147.93	-63.16	-588.41	-89.66	650.11	137.31	4.75	PASS
8420.00†	7151.47	588.04	-686.90	8400.85	7147.65	-62.93	-688.40	-89.66	650.98	145.27	4.50	PASS
8520.00†	7151.16	589.14	-786.89	8500.84	7147.36	-62.69	-788.40	-89.67	651.85	153.38	4.26	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 13C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13C-2-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#20 GREELEY-ROTHER FEDERAL 13C-2-L (1023'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 13C-2-L Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	8600.84	7147.08	-62.46	-888.39	-89.67	652.72	161.61	4.05	PASS
8720.00†	7150.54	591.34	-986.88	8700.83	7146.80	-62.23	-988.39	-89.67	653.58	169.95	3.86	PASS
8820.00†	7150.24	592.44	-1086.87	8800.83	7146.52	-62.00	-1088.38	-89.67	654.45	178.38	3.68	PASS
8920.00†	7149.93	593.54	-1186.86	8900.83	7146.23	-61.76	-1188.38	-89.68	655.32	186.89	3.52	PASS
9020.00†	7149.62	594.64	-1286.86	9000.82	7145.95	-61.53	-1288.38	-89.68	656.18	195.46	3.37	PASS
9120.00†	7149.32	595.74	-1386.85	9100.82	7145.67	-61.30	-1388.37	-89.68	657.05	204.10	3.23	PASS
9220.00†	7149.01	596.84	-1486.84	9200.82	7145.39	-61.06	-1488.37	-89.68	657.92	212.78	3.10	PASS
9320.00†	7148.70	597.94	-1586.84	9300.81	7145.10	-60.83	-1588.36	-89.69	658.79	221.51	2.98	PASS
9420.00†	7148.40	599.04	-1686.83	9400.81	7144.82	-60.60	-1688.36	-89.69	659.65	230.29	2.87	PASS
9520.00†	7148.09	600.15	-1786.82	9500.80	7144.54	-60.36	-1788.35	-89.69	660.52	239.10	2.77	PASS
9620.00†	7147.78	601.25	-1886.82	9600.80	7144.26	-60.13	-1888.35	-89.69	661.39	247.94	2.67	PASS
9720.00†	7147.47	602.35	-1986.81	9700.80	7143.97	-59.90	-1988.34	-89.70	662.26	256.81	2.58	PASS
9820.00†	7147.17	603.45	-2086.81	9800.79	7143.69	-59.67	-2088.34	-89.70	663.12	265.71	2.50	PASS
9920.00†	7146.86	604.55	-2186.80	9900.79	7143.41	-59.43	-2188.34	-89.70	663.99	274.63	2.42	PASS
10020.00†	7146.55	605.65	-2286.79	10000.79	7143.12	-59.20	-2288.33	-89.70	664.86	283.57	2.35	PASS
10120.00†	7146.25	606.75	-2386.79	10100.78	7142.84	-58.97	-2388.33	-89.71	665.73	292.54	2.28	PASS
10220.00†	7145.94	607.85	-2486.78	10200.78	7142.56	-58.73	-2488.32	-89.71	666.59	301.51	2.21	PASS
10320.00†	7145.63	608.95	-2586.77	10300.77	7142.28	-58.50	-2588.32	-89.71	667.46	310.51	2.15	PASS
10420.00†	7145.33	610.05	-2686.77	10400.77	7141.99	-58.27	-2688.31	-89.71	668.33	319.52	2.09	PASS
10520.00†	7145.02	611.15	-2786.76	10500.77	7141.71	-58.04	-2788.31	-89.72	669.19	328.55	2.04	PASS
10620.00†	7144.71	612.25	-2886.75	10600.76	7141.43	-57.80	-2888.30	-89.72	670.06	337.58	1.99	PASS
10720.00†	7144.40	613.35	-2986.75	10700.76	7141.15	-57.57	-2988.30	-89.72	670.93	346.63	1.94	PASS
10820.00†	7144.10	614.45	-3086.74	10800.76	7140.86	-57.34	-3088.30	-89.72	671.80	355.69	1.89	PASS
10920.00†	7143.79	615.55	-3186.73	10900.75	7140.58	-57.10	-3188.29	-89.73	672.66	364.76	1.85	PASS
11020.00†	7143.48	616.65	-3286.73	11000.75	7140.30	-56.87	-3288.29	-89.73	673.53	373.83	1.80	PASS
11120.00†	7143.18	617.75	-3386.72	11100.74	7140.02	-56.64	-3388.28	-89.73	674.40	382.92	1.76	PASS
11220.00†	7142.87	618.85	-3486.71	11200.74	7139.73	-56.41	-3488.28	-89.73	675.27	392.01	1.72	PASS
11320.00†	7142.56	619.95	-3586.71	11300.74	7139.45	-56.17	-3588.27	-89.74	676.13	401.12	1.69	PASS
11420.00†	7142.26	621.05	-3686.70	11400.73	7139.17	-55.94	-3688.27	-89.74	677.00	410.22	1.65	PASS
11520.00†	7141.95	622.15	-3786.69	11500.73	7138.89	-55.71	-3788.26	-89.74	677.87	419.34	1.62	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 13C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13C-2-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#20 GREELEY-ROTHER FEDERAL 13C-2-L (1023'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 13C-2-L Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11620.00†	7141.64	623.25	-3886.69	11600.72	7138.60	-55.47	-3888.26	-89.74	678.74	428.46	1.59	PASS
11720.00†	7141.33	624.35	-3986.68	11700.72	7138.32	-55.24	-3988.26	-89.74	679.60	437.59	1.55	PASS
11820.00†	7141.03	625.45	-4086.67	11800.72	7138.04	-55.01	-4088.25	-89.75	680.47	446.72	1.52	PASS
11920.00†	7140.72	626.55	-4186.67	11900.71	7137.76	-54.78	-4188.25	-89.75	681.34	455.85	1.50	PASS
12020.00†	7140.41	627.66	-4286.66	12000.71	7137.47	-54.54	-4288.24	-89.75	682.21	464.99	1.47	PASS
12120.00†	7140.11	628.76	-4386.66	12100.71	7137.19	-54.31	-4388.24	-89.75	683.07	474.14	1.44	PASS
12220.00†	7139.80	629.86	-4486.65	12200.70	7136.91	-54.08	-4488.23	-89.76	683.94	483.29	1.42	PASS
12320.00†	7139.49	630.96	-4586.64	12300.70	7136.63	-53.84	-4588.23	-89.76	684.81	492.44	1.39	PASS
12420.00†	7139.19	632.06	-4686.64	12400.69	7136.34	-53.61	-4688.22	-89.76	685.68	501.60	1.37	PASS
12520.00†	7138.88	633.16	-4786.63	12500.69	7136.06	-53.38	-4788.22	-89.76	686.54	510.76	1.34	PASS
12620.00†	7138.57	634.26	-4886.62	12600.69	7135.78	-53.14	-4888.22	-89.77	687.41	519.92	1.32	PASS
12720.00†	7138.26	635.36	-4986.62	12700.68	7135.50	-52.91	-4988.21	-89.77	688.28	529.09	1.30	PASS
12820.00†	7137.96	636.46	-5086.61	12800.68	7135.21	-52.68	-5088.21	-89.77	689.14	538.26	1.28	PASS
12920.00†	7137.65	637.56	-5186.60	12900.68	7134.93	-52.45	-5188.20	-89.77	690.01	547.43	1.26	PASS
13020.00†	7137.34	638.66	-5286.60	13000.67	7134.65	-52.21	-5288.20	-89.78	690.88	556.61	1.24	PASS
13120.00†	7137.04	639.76	-5386.59	13100.67	7134.37	-51.98	-5388.19	-89.78	691.75	565.79	1.22	PASS
13220.00†	7136.73	640.86	-5486.58	13200.66	7134.08	-51.75	-5488.19	-89.78	692.61	574.97	1.20	PASS
13320.00†	7136.42	641.96	-5586.58	13300.66	7133.80	-51.51	-5588.18	-89.78	693.48	584.15	1.19	PASS
13420.00†	7136.12	643.06	-5686.57	13400.66	7133.52	-51.28	-5688.18	-89.78	694.35	593.34	1.17	PASS
13520.00†	7135.81	644.16	-5786.56	13500.65	7133.24	-51.05	-5788.18	-89.79	695.22	602.52	1.15	PASS
13620.00†	7135.50	645.26	-5886.56	13600.65	7132.95	-50.82	-5888.17	-89.79	696.08	611.71	1.14	PASS
13720.00†	7135.19	646.36	-5986.55	13700.65	7132.67	-50.58	-5988.17	-89.79	696.95	620.90	1.12	PASS
13820.00†	7134.89	647.46	-6086.54	13800.64	7132.39	-50.35	-6088.16	-89.79	697.82	630.10	1.11	PASS
13920.00†	7134.58	648.56	-6186.54	13900.64	7132.11	-50.12	-6188.16	-89.80	698.69	639.29	1.09	PASS
14020.00†	7134.27	649.66	-6286.53	14000.63	7131.82	-49.88	-6288.15	-89.80	699.55	648.49	1.08	PASS
14120.00†	7133.97	650.76	-6386.52	14100.63	7131.54	-49.65	-6388.15	-89.80	700.42	657.69	1.07	PASS
14220.00†	7133.66	651.86	-6486.52	14200.63	7131.26	-49.42	-6488.14	-89.80	701.29	666.89	1.05	PASS
14320.00†	7133.35	652.96	-6586.51	14300.62	7130.98	-49.19	-6588.14	-89.81	702.16	676.09	1.04	PASS
14420.00†	7133.05	654.06	-6686.51	14400.62	7130.69	-48.95	-6688.14	-89.81	703.02	685.29	1.03	PASS
14520.00†	7132.74	655.17	-6786.50	14500.62	7130.41	-48.72	-6788.13	-89.81	703.89	694.49	1.01	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 13C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13C-2-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#20 GREELEY-ROTHER FEDERAL 13C-2-L (1023'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 13C-2-L Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14620.00†	7132.43	656.27	-6886.49	14600.61	7130.13	-48.49	-6888.13	-89.81	704.76	703.70	1.00	PASS
14720.00†	7132.12	657.37	-6986.49	14700.61	7129.84	-48.25	-6988.12	-89.81	705.63	712.91	0.99	FAIL
14820.00†	7131.82	658.47	-7086.48	14800.60	7129.56	-48.02	-7088.12	-89.82	706.49	722.11	0.98	FAIL
14920.00†	7131.51	659.57	-7186.47	14900.60	7129.28	-47.79	-7188.11	-89.82	707.36	731.32	0.97	FAIL
15020.00†	7131.20	660.67	-7286.47	15000.60	7129.00	-47.55	-7288.11	-89.82	708.23	740.53	0.96	FAIL
15120.00†	7130.90	661.77	-7386.46	15100.59	7128.71	-47.32	-7388.10	-89.82	709.09	749.74	0.95	FAIL
15220.00†	7130.59	662.87	-7486.45	15200.59	7128.43	-47.09	-7488.10	-89.82	709.96	758.96	0.94	FAIL
15320.00†	7130.28	663.97	-7586.45	15300.59	7128.15	-46.86	-7588.10	-89.83	710.83	768.17	0.93	FAIL
15420.00†	7129.98	665.07	-7686.44	15400.58	7127.87	-46.62	-7688.09	-89.83	711.70	777.38	0.92	FAIL
15520.00†	7129.67	666.17	-7786.43	15500.58	7127.58	-46.39	-7788.09	-89.83	712.56	786.60	0.91	FAIL
15620.00†	7129.36	667.27	-7886.43	15600.57	7127.30	-46.16	-7888.08	-89.83	713.43	795.81	0.90	FAIL
15720.00†	7129.05	668.37	-7986.42	15700.57	7127.02	-45.92	-7988.08	-89.84	714.30	805.03	0.89	FAIL
15820.00†	7128.75	669.47	-8086.41	15800.57	7126.74	-45.69	-8088.07	-89.84	715.17	814.25	0.88	FAIL
15920.00†	7128.44	670.57	-8186.41	15900.56	7126.45	-45.46	-8188.07	-89.84	716.03	823.47	0.87	FAIL
16020.00†	7128.13	671.67	-8286.40	16000.56	7126.17	-45.23	-8288.07	-89.84	716.90	832.69	0.86	FAIL
16120.00†	7127.83	672.77	-8386.39	16100.56	7125.89	-44.99	-8388.06	-89.84	717.77	841.91	0.85	FAIL
16220.00†	7127.52	673.87	-8486.39	16200.55	7125.61	-44.76	-8488.06	-89.85	718.64	851.13	0.84	FAIL
16320.00†	7127.21	674.97	-8586.38	16300.55	7125.32	-44.53	-8588.05	-89.85	719.50	860.35	0.84	FAIL
16420.00†	7126.90	676.07	-8686.37	16400.54	7125.04	-44.29	-8688.05	-89.85	720.37	869.57	0.83	FAIL
16520.00†	7126.60	677.17	-8786.37	16500.54	7124.76	-44.06	-8788.04	-89.85	721.24	878.79	0.82	FAIL
16620.00†	7126.29	678.27	-8886.36	16600.54	7124.48	-43.83	-8888.04	-89.85	722.11	888.02	0.81	FAIL
16720.00†	7125.98	679.37	-8986.36	16700.53	7124.19	-43.60	-8988.03	-89.86	722.97	897.24	0.81	FAIL
16820.00†	7125.68	680.47	-9086.35	16800.53	7123.91	-43.36	-9088.03	-89.86	723.84	906.47	0.80	FAIL
16920.00†	7125.37	681.57	-9186.34	16900.53	7123.63	-43.13	-9188.03	-89.86	724.71	915.69	0.79	FAIL
17020.00†	7125.06	682.68	-9286.34	17000.52	7123.35	-42.90	-9288.02	-89.86	725.58	924.92	0.78	FAIL
17120.00†	7124.76	683.78	-9386.33	17100.52	7123.06	-42.66	-9388.02	-89.87	726.44	934.15	0.78	FAIL
17220.00†	7124.45	684.88	-9486.32	17200.51	7122.78	-42.43	-9488.01	-89.87	727.31	943.37	0.77	FAIL
17320.00†	7124.14	685.98	-9586.32	17300.51	7122.50	-42.20	-9588.01	-89.87	728.18	952.60	0.76	FAIL
17366.24	7124.00	686.49	-9632.55	17346.75	7122.37	-42.09	-9634.25	-89.87	728.58	956.87	0.76	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## POSITIONAL UNCERTAINTY - Offset Wellbore: GREELEY-ROTHER FEDERAL 13C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13C-2-L PWP (REV-A.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## HOLE & CASING SECTIONS - Offset Wellbore: GREELEY-ROTHER FEDERAL 13C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13C-2-L PWP (REV-A.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	20.00	1750.00	1730.00	20.00	1741.34	-36.64	0.52	-36.95	42.02
9.625in Casing Surface	20.00	1750.00	1730.00	20.00	1741.34	-36.64	0.52	-36.95	42.02
8.5in Open Hole	1750.00	17476.97	15726.97	1741.34	7122.00	-36.95	42.02	-31.06	-2975.95

## SURVEY PROGRAM - Offset Wellbore: GREELEY-ROTHER FEDERAL 13C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13C-2-L PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	1750.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 13C-2-L PWB
1750.00	17476.97	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 13C-2-L PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: GREELEY-ROTHER FEDERAL 13C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13C-2-L PWP (REV-A.0)

MD Reference: PRECISION 462 (20') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	20.00ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 32N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#14 GREELEY-ROTHER FEDERAL 32N-2B-L (1143'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 32N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	19.00	20.00	59.81	-0.85	-0.82	59.81	1.26	196.17	PASS
120.00†	120.00	0.00	0.00	119.00	120.00	59.81	-0.85	-0.82	59.81	1.88	63.87	PASS
220.00†	220.00	0.00	0.00	219.00	220.00	59.81	-0.85	-0.82	59.81	2.45	39.48	PASS
320.00†	320.00	0.00	0.00	317.86	318.86	60.45	-0.37	-0.35	60.47	3.10	27.82	PASS
400.00	400.00	0.00	0.00	396.44	397.38	62.81	1.38	1.26	62.88	3.87	21.32	PASS
420.00†	420.00	0.04	0.06	416.06	416.97	63.67	2.02	-54.84	63.73	4.06	20.24	PASS
520.00†	519.96	1.38	2.10	514.04	514.67	69.57	6.40	-52.88	68.52	5.21	15.92	PASS
620.00†	619.78	4.65	7.05	611.82	611.86	78.12	12.76	-51.88	74.12	6.41	13.42	PASS
720.00†	719.33	9.82	14.91	709.39	708.42	89.31	21.08	-51.67	80.46	7.49	12.18	PASS
820.00†	818.50	16.91	25.66	806.72	804.22	103.08	31.32	-52.06	87.53	8.50	11.48	PASS
851.46	849.59	19.53	29.64	837.28	834.18	107.95	34.94	-52.29	89.91	8.76	11.40	PASS
920.00†	917.28	25.45	38.62	904.35	899.69	119.46	43.49	-52.65	95.76	9.31	11.36	PASS
1020.00†	1016.05	34.09	51.73	1003.94	996.87	136.97	56.51	-52.95	104.77	10.04	11.44	PASS
1120.00†	1114.81	42.72	64.83	1103.53	1094.04	154.48	69.52	-53.21	113.77	10.83	11.43	PASS
1220.00†	1213.57	51.36	77.94	1203.13	1191.21	171.99	82.54	-53.43	122.78	11.66	11.39	PASS
1320.00†	1312.33	59.99	91.04	1302.72	1288.38	189.50	95.56	-53.61	131.78	12.52	11.32	PASS
1420.00†	1411.09	68.63	104.15	1402.31	1385.56	207.01	108.58	-53.78	140.79	13.42	11.23	PASS
1520.00†	1509.85	77.26	117.25	1501.90	1482.73	224.52	121.59	-53.92	149.80	14.34	11.13	PASS
1620.00†	1608.61	85.90	130.36	1601.50	1579.90	242.03	134.61	-54.05	158.81	15.29	11.02	PASS
1720.00†	1707.37	94.53	143.46	1701.09	1677.08	259.55	147.63	-54.16	167.82	16.25	10.92	PASS
1820.00†	1806.13	103.17	156.56	1800.68	1774.25	277.06	160.64	-54.26	176.84	16.54	11.13	PASS
1920.00†	1904.89	111.80	169.67	1900.28	1871.42	294.57	173.66	-54.36	185.85	16.67	11.60	PASS
2020.00†	2003.65	120.44	182.77	1999.87	1968.60	312.08	186.68	-54.44	194.86	16.84	12.03	PASS
2120.00†	2102.41	129.07	195.88	2099.46	2065.77	329.59	199.69	-54.52	203.87	17.09	12.40	PASS
2220.00†	2201.18	137.71	208.98	2199.05	2162.94	347.10	212.71	-54.59	212.89	17.41	12.70	PASS
2320.00†	2299.94	146.34	222.09	2298.65	2260.12	364.61	225.73	-54.65	221.90	17.80	12.94	PASS
2420.00†	2398.70	154.98	235.19	2398.24	2357.29	382.12	238.74	-54.71	230.91	18.26	13.12	PASS
2520.00†	2497.46	163.61	248.29	2497.83	2454.46	399.63	251.76	-54.77	239.93	18.77	13.24	PASS
2620.00†	2596.22	172.25	261.40	2597.42	2551.64	417.14	264.78	-54.82	248.94	19.34	13.32	PASS
2720.00†	2694.98	180.88	274.50	2697.02	2648.81	434.65	277.79	-54.86	257.96	19.97	13.36	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 32N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#14 GREELEY-ROTHER FEDERAL 32N-2B-L (1143'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 32N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2796.61	2745.98	452.16	290.81	-54.91	266.97	20.63	13.36	PASS
2920.00†	2892.50	198.15	300.71	2896.20	2843.16	469.67	303.83	-54.95	275.99	21.34	13.34	PASS
3020.00†	2991.26	206.79	313.82	2995.79	2940.33	487.19	316.84	-54.99	285.00	22.09	13.30	PASS
3120.00†	3090.02	215.42	326.92	3095.39	3037.50	504.70	329.86	-55.02	294.02	22.86	13.24	PASS
3220.00†	3188.78	224.06	340.03	3194.98	3134.68	522.21	342.88	-55.06	303.03	23.67	13.16	PASS
3320.00†	3287.55	232.69	353.13	3294.57	3231.85	539.72	355.90	-55.09	312.05	24.51	13.08	PASS
3420.00†	3386.31	241.33	366.23	3394.16	3329.02	557.23	368.91	-55.12	321.06	25.37	12.99	PASS
3520.00†	3485.07	249.96	379.34	3493.76	3426.19	574.74	381.93	-55.15	330.08	26.25	12.90	PASS
3620.00†	3583.83	258.60	392.44	3593.35	3523.37	592.25	394.95	-55.18	339.10	27.15	12.80	PASS
3720.00†	3682.59	267.23	405.55	3692.94	3620.54	609.76	407.96	-55.20	348.11	28.07	12.70	PASS
3820.00†	3781.35	275.87	418.65	3792.54	3717.71	627.27	420.98	-55.23	357.13	29.01	12.60	PASS
3920.00†	3880.11	284.50	431.76	3892.13	3814.89	644.78	434.00	-55.25	366.14	29.96	12.49	PASS
4020.00†	3978.87	293.14	444.86	3991.72	3912.06	662.29	447.01	-55.27	375.16	30.92	12.39	PASS
4120.00†	4077.63	301.77	457.97	4091.31	4009.23	679.80	460.03	-55.29	384.18	31.89	12.30	PASS
4220.00†	4176.39	310.41	471.07	4190.91	4106.41	697.31	473.05	-55.31	393.19	32.88	12.20	PASS
4320.00†	4275.15	319.04	484.17	4290.50	4203.58	714.83	486.06	-55.33	402.21	33.87	12.11	PASS
4420.00†	4373.91	327.68	497.28	4390.09	4300.75	732.34	499.08	-55.35	411.22	34.88	12.01	PASS
4520.00†	4472.68	336.31	510.38	4489.68	4397.93	749.85	512.10	-55.37	420.24	35.89	11.92	PASS
4620.00†	4571.44	344.95	523.49	4589.28	4495.10	767.36	525.11	-55.38	429.26	36.91	11.84	PASS
4720.00†	4670.20	353.58	536.59	4688.87	4592.27	784.87	538.13	-55.40	438.27	37.94	11.75	PASS
4820.00†	4768.96	362.22	549.70	4788.46	4689.45	802.38	551.15	-55.42	447.29	38.97	11.67	PASS
4920.00†	4867.72	370.85	562.80	4888.05	4786.62	819.89	564.16	-55.43	456.30	40.01	11.59	PASS
5020.00†	4966.48	379.49	575.91	4987.65	4883.79	837.40	577.18	-55.44	465.32	41.06	11.52	PASS
5120.00†	5065.24	388.12	589.01	5087.24	4980.97	854.91	590.20	-55.46	474.34	42.11	11.44	PASS
5220.00†	5164.00	396.76	602.11	5186.83	5078.14	872.42	603.22	-55.47	483.35	43.16	11.37	PASS
5320.00†	5262.76	405.39	615.22	5286.42	5175.31	889.93	616.23	-55.48	492.37	44.22	11.30	PASS
5420.00†	5361.52	414.03	628.32	5386.02	5272.49	907.44	629.25	-55.50	501.39	45.28	11.23	PASS
5520.00†	5460.28	422.66	641.43	5485.61	5369.66	924.96	642.27	-55.51	510.40	46.35	11.17	PASS
5620.00†	5559.05	431.30	654.53	5585.20	5466.83	942.47	655.28	-55.52	519.42	47.42	11.11	PASS
5720.00†	5657.81	439.93	667.64	5684.80	5564.00	959.98	668.30	-55.53	528.44	48.49	11.04	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 32N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#14 GREELEY-ROTHER FEDERAL 32N-2B-L (1143'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 32N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5784.39	5661.18	977.49	681.32	-55.54	537.45	49.57	10.99	PASS
5920.00†	5855.33	457.20	693.85	5883.98	5758.35	995.00	694.33	-55.55	546.47	50.64	10.93	PASS
6020.00†	5954.09	465.84	706.95	5983.57	5855.52	1012.51	707.35	-55.56	555.49	51.73	10.87	PASS
6120.00†	6052.85	474.47	720.05	6083.17	5952.70	1030.02	720.37	-55.57	564.50	52.81	10.82	PASS
6220.00†	6151.61	483.11	733.16	6182.76	6049.87	1047.53	733.38	-55.58	573.52	53.90	10.77	PASS
6320.00†	6250.37	491.74	746.26	6282.35	6147.04	1065.04	746.40	-55.59	582.54	54.99	10.72	PASS
6420.00†	6349.13	500.38	759.37	6381.94	6244.22	1082.55	759.42	-55.60	591.55	56.08	10.67	PASS
6509.39	6437.41	508.10	771.08	6469.84	6330.21	1098.09	768.52	-55.84	599.66	57.55	10.54	PASS
6520.00†	6447.90	509.02	772.38	6480.14	6340.34	1099.94	768.89	-52.30	600.64	56.97	10.66	PASS
6620.00†	6547.35	517.82	776.00	6576.48	6434.89	1117.30	764.30	23.99	610.05	58.33	10.58	PASS
6720.00†	6646.11	526.74	763.96	6671.68	6526.56	1134.41	745.59	62.42	619.59	59.77	10.48	PASS
6820.00†	6741.77	535.55	736.55	6765.91	6613.55	1150.91	713.59	70.83	628.99	61.03	10.42	PASS
6920.00†	6831.97	544.05	694.45	6859.34	6694.24	1166.50	669.32	73.58	638.00	62.25	10.36	PASS
7020.00†	6914.48	552.02	638.70	6952.14	6767.18	1180.88	613.92	74.59	646.35	63.82	10.23	PASS
7120.00†	6987.27	559.26	570.67	7044.48	6831.11	1193.79	548.66	74.93	653.84	66.06	9.99	PASS
7220.00†	7048.56	565.59	492.04	7136.51	6884.88	1205.02	474.92	75.00	660.26	68.79	9.69	PASS
7320.00†	7096.83	570.87	404.74	7228.39	6927.56	1214.35	394.18	74.99	665.45	72.64	9.24	PASS
7420.00†	7130.89	574.96	310.91	7320.26	6958.35	1221.60	308.01	74.99	669.28	76.95	8.77	PASS
7520.00†	7149.90	577.75	212.88	7412.26	6976.62	1226.65	218.07	75.06	671.65	81.68	8.29	PASS
7594.38	7154.00	578.96	138.67	7480.86	6981.83	1228.89	149.75	75.16	672.45	85.35	7.94	PASS
7620.00†	7153.92	579.24	113.05	7505.03	6981.97	1229.38	125.58	75.19	672.61	86.63	7.82	PASS
7720.00†	7153.61	580.34	13.06	7605.03	6981.58	1231.20	25.60	75.19	673.33	92.15	7.36	PASS
7820.00†	7153.31	581.44	-86.94	7705.03	6981.19	1233.02	-74.38	75.20	674.05	98.16	6.91	PASS
7920.00†	7153.00	582.54	-186.93	7805.02	6980.79	1234.84	-174.36	75.21	674.77	104.61	6.49	PASS
8020.00†	7152.69	583.64	-286.92	7905.02	6980.40	1236.67	-274.34	75.22	675.49	111.42	6.10	PASS
8120.00†	7152.39	584.74	-386.92	8005.02	6980.00	1238.49	-374.32	75.23	676.21	118.52	5.73	PASS
8220.00†	7152.08	585.84	-486.91	8105.01	6979.61	1240.31	-474.30	75.24	676.93	125.86	5.40	PASS
8320.00†	7151.77	586.94	-586.90	8205.01	6979.21	1242.13	-574.28	75.25	677.65	133.40	5.10	PASS
8420.00†	7151.47	588.04	-686.90	8305.01	6978.82	1243.95	-674.26	75.25	678.37	141.12	4.83	PASS
8520.00†	7151.16	589.14	-786.89	8405.01	6978.42	1245.78	-774.24	75.26	679.09	148.98	4.58	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 32N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#14 GREELEY-ROTHER FEDERAL 32N-2B-L (1143'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 32N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
8620.00†	7150.85	590.24	-886.88	8505.00	6978.03	1247.60	-874.22	75.27	679.81	156.96	4.35	PASS	
8720.00†	7150.54	591.34	-986.88	8605.00	6977.64	1249.42	-974.20	75.28	680.53	165.05	4.14	PASS	
8820.00†	7150.24	592.44	-1086.87	8705.00	6977.24	1251.24	-1074.18	75.29	681.25	173.23	3.94	PASS	
8920.00†	7149.93	593.54	-1186.86	8805.00	6976.85	1253.06	-1174.16	75.30	681.97	181.48	3.77	PASS	
9020.00†	7149.62	594.64	-1286.86	8904.99	6976.45	1254.89	-1274.14	75.30	682.69	189.81	3.61	PASS	
9120.00†	7149.32	595.74	-1386.85	9004.99	6976.06	1256.71	-1374.12	75.31	683.41	198.19	3.46	PASS	
9220.00†	7149.01	596.84	-1486.84	9104.99	6975.66	1258.53	-1474.10	75.32	684.13	206.63	3.32	PASS	
9320.00†	7148.70	597.94	-1586.84	9204.99	6975.27	1260.35	-1574.08	75.33	684.85	215.11	3.19	PASS	
9420.00†	7148.40	599.04	-1686.83	9304.98	6974.88	1262.17	-1674.06	75.34	685.57	223.63	3.07	PASS	
9520.00†	7148.09	600.15	-1786.82	9404.98	6974.48	1264.00	-1774.04	75.35	686.29	232.19	2.96	PASS	
9620.00†	7147.78	601.25	-1886.82	9504.98	6974.09	1265.82	-1874.02	75.35	687.01	240.78	2.86	PASS	
9720.00†	7147.47	602.35	-1986.81	9604.98	6973.69	1267.64	-1974.00	75.36	687.73	249.40	2.76	PASS	
9820.00†	7147.17	603.45	-2086.81	9704.97	6973.30	1269.46	-2073.98	75.37	688.46	258.05	2.67	PASS	
9920.00†	7146.86	604.55	-2186.80	9804.97	6972.90	1271.28	-2173.96	75.38	689.18	266.72	2.59	PASS	
10020.00†	7146.55	605.65	-2286.79	9904.97	6972.51	1273.11	-2273.94	75.39	689.90	275.42	2.51	PASS	
10120.00†	7146.25	606.75	-2386.79	10004.96	6972.12	1274.93	-2373.92	75.39	690.62	284.13	2.43	PASS	
10220.00†	7145.94	607.85	-2486.78	10104.96	6971.72	1276.75	-2473.90	75.40	691.34	292.86	2.36	PASS	
10320.00†	7145.63	608.95	-2586.77	10204.96	6971.33	1278.57	-2573.88	75.41	692.06	301.61	2.30	PASS	
10420.00†	7145.33	610.05	-2686.77	10304.96	6970.93	1280.39	-2673.86	75.42	692.78	310.37	2.23	PASS	
10520.00†	7145.02	611.15	-2786.76	10404.95	6970.54	1282.22	-2773.84	75.43	693.50	319.15	2.18	PASS	
10620.00†	7144.71	612.25	-2886.75	10504.95	6970.14	1284.04	-2873.82	75.43	694.22	327.94	2.12	PASS	
10720.00†	7144.40	613.35	-2986.75	10604.95	6969.75	1285.86	-2973.80	75.44	694.94	336.74	2.07	PASS	
10820.00†	7144.10	614.45	-3086.74	10704.95	6969.36	1287.68	-3073.78	75.45	695.66	345.55	2.02	PASS	
10920.00†	7143.79	615.55	-3186.73	10804.94	6968.96	1289.50	-3173.76	75.46	696.38	354.37	1.97	PASS	
11020.00†	7143.48	616.65	-3286.73	10904.94	6968.57	1291.33	-3273.74	75.47	697.10	363.21	1.92	PASS	
11120.00†	7143.18	617.75	-3386.72	11004.94	6968.17	1293.15	-3373.72	75.47	697.82	372.05	1.88	PASS	
11220.00†	7142.87	618.85	-3486.71	11104.94	6967.78	1294.97	-3473.70	75.48	698.54	380.90	1.84	PASS	
11320.00†	7142.56	619.95	-3586.71	11204.93	6967.38	1296.79	-3573.68	75.49	699.26	389.75	1.80	PASS	
11420.00†	7142.26	621.05	-3686.70	11304.93	6966.99	1298.61	-3673.66	75.50	699.98	398.62	1.76	PASS	
11520.00†	7141.95	622.15	-3786.69	11404.93	6966.60	1300.44	-3773.64	75.51	700.70	407.49	1.72	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 32N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#14 GREELEY-ROTHER FEDERAL 32N-2B-L (1143'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 32N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11620.00†	7141.64	623.25	-3886.69	11504.92	6966.20	1302.26	-3873.62	75.51	701.42	416.37	1.69	PASS
11720.00†	7141.33	624.35	-3986.68	11604.92	6965.81	1304.08	-3973.60	75.52	702.14	425.25	1.65	PASS
11820.00†	7141.03	625.45	-4086.67	11704.92	6965.41	1305.90	-4073.58	75.53	702.87	434.14	1.62	PASS
11920.00†	7140.72	626.55	-4186.67	11804.92	6965.02	1307.72	-4173.56	75.54	703.59	443.04	1.59	PASS
12020.00†	7140.41	627.66	-4286.66	11904.91	6964.62	1309.55	-4273.54	75.55	704.31	451.94	1.56	PASS
12120.00†	7140.11	628.76	-4386.66	12004.91	6964.23	1311.37	-4373.52	75.55	705.03	460.84	1.53	PASS
12220.00†	7139.80	629.86	-4486.65	12104.91	6963.84	1313.19	-4473.50	75.56	705.75	469.75	1.50	PASS
12320.00†	7139.49	630.96	-4586.64	12204.91	6963.44	1315.01	-4573.48	75.57	706.47	478.67	1.48	PASS
12420.00†	7139.19	632.06	-4686.64	12304.90	6963.05	1316.83	-4673.46	75.58	707.19	487.58	1.45	PASS
12520.00†	7138.88	633.16	-4786.63	12404.90	6962.65	1318.66	-4773.44	75.58	707.91	496.51	1.43	PASS
12620.00†	7138.57	634.26	-4886.62	12504.90	6962.26	1320.48	-4873.42	75.59	708.63	505.43	1.40	PASS
12720.00†	7138.26	635.36	-4986.62	12604.90	6961.86	1322.30	-4973.40	75.60	709.35	514.36	1.38	PASS
12820.00†	7137.96	636.46	-5086.61	12704.89	6961.47	1324.12	-5073.38	75.61	710.07	523.29	1.36	PASS
12920.00†	7137.65	637.56	-5186.60	12804.89	6961.08	1325.94	-5173.36	75.61	710.79	532.23	1.34	PASS
13020.00†	7137.34	638.66	-5286.60	12904.89	6960.68	1327.77	-5273.34	75.62	711.51	541.17	1.32	PASS
13120.00†	7137.04	639.76	-5386.59	13004.89	6960.29	1329.59	-5373.32	75.63	712.24	550.11	1.30	PASS
13220.00†	7136.73	640.86	-5486.58	13104.88	6959.89	1331.41	-5473.30	75.64	712.96	559.06	1.28	PASS
13320.00†	7136.42	641.96	-5586.58	13204.88	6959.50	1333.23	-5573.28	75.65	713.68	568.01	1.26	PASS
13420.00†	7136.12	643.06	-5686.57	13304.88	6959.10	1335.05	-5673.26	75.65	714.40	576.96	1.24	PASS
13520.00†	7135.81	644.16	-5786.56	13404.87	6958.71	1336.88	-5773.24	75.66	715.12	585.91	1.22	PASS
13620.00†	7135.50	645.26	-5886.56	13504.87	6958.31	1338.70	-5873.22	75.67	715.84	594.87	1.20	PASS
13720.00†	7135.19	646.36	-5986.55	13604.87	6957.92	1340.52	-5973.20	75.68	716.56	603.83	1.19	PASS
13820.00†	7134.89	647.46	-6086.54	13704.87	6957.53	1342.34	-6073.18	75.68	717.28	612.79	1.17	PASS
13920.00†	7134.58	648.56	-6186.54	13804.86	6957.13	1344.16	-6173.16	75.69	718.00	621.75	1.15	PASS
14020.00†	7134.27	649.66	-6286.53	13904.86	6956.74	1345.99	-6273.14	75.70	718.72	630.72	1.14	PASS
14120.00†	7133.97	650.76	-6386.52	14004.86	6956.34	1347.81	-6373.12	75.71	719.44	639.68	1.12	PASS
14220.00†	7133.66	651.86	-6486.52	14104.86	6955.95	1349.63	-6473.10	75.71	720.16	648.65	1.11	PASS
14320.00†	7133.35	652.96	-6586.51	14204.85	6955.55	1351.45	-6573.08	75.72	720.89	657.62	1.10	PASS
14420.00†	7133.05	654.06	-6686.51	14304.85	6955.16	1353.27	-6673.06	75.73	721.61	666.60	1.08	PASS
14520.00†	7132.74	655.17	-6786.50	14404.85	6954.77	1355.10	-6773.04	75.73	722.33	675.57	1.07	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)

Closest Approach

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHE FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHE FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHE FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHE FEDERAL 32N-2B-L PWB Offset Wellpath: GREELEY-ROTHE FEDERAL 32N-2B-L PWP (REV-A.0)													
Facility: SEC.01-T05N-R67W Slot: SLOT#14 GREELEY-ROTHE FEDERAL 32N-2B-L (1143'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHE FEDERAL 32N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
14620.00†	7132.43	656.27	-6886.49	14504.85	6954.37	1356.92	-6873.02	75.74	723.05	684.55	1.06	PASS	
14720.00†	7132.12	657.37	-6986.49	14604.84	6953.98	1358.74	-6973.00	75.75	723.77	693.53	1.04	PASS	
14820.00†	7131.82	658.47	-7086.48	14704.84	6953.58	1360.56	-7072.98	75.76	724.49	702.51	1.03	PASS	
14920.00†	7131.51	659.57	-7186.47	14804.84	6953.19	1362.38	-7172.96	75.76	725.21	711.49	1.02	PASS	
15020.00†	7131.20	660.67	-7286.47	14904.83	6952.79	1364.21	-7272.94	75.77	725.93	720.47	1.01	PASS	
15120.00†	7130.90	661.77	-7386.46	15004.83	6952.40	1366.03	-7372.92	75.78	726.65	729.46	1.00	FAIL	
15220.00†	7130.59	662.87	-7486.45	15104.83	6952.01	1367.85	-7472.90	75.79	727.37	738.45	0.98	FAIL	
15320.00†	7130.28	663.97	-7586.45	15204.83	6951.61	1369.67	-7572.88	75.79	728.10	747.43	0.97	FAIL	
15420.00†	7129.98	665.07	-7686.44	15304.82	6951.22	1371.49	-7672.86	75.80	728.82	756.42	0.96	FAIL	
15520.00†	7129.67	666.17	-7786.43	15404.82	6950.82	1373.32	-7772.84	75.81	729.54	765.42	0.95	FAIL	
15620.00†	7129.36	667.27	-7886.43	15504.82	6950.43	1375.14	-7872.82	75.82	730.26	774.41	0.94	FAIL	
15720.00†	7129.05	668.37	-7986.42	15604.82	6950.03	1376.96	-7972.80	75.82	730.98	783.40	0.93	FAIL	
15820.00†	7128.75	669.47	-8086.41	15704.81	6949.64	1378.78	-8072.78	75.83	731.70	792.40	0.92	FAIL	
15920.00†	7128.44	670.57	-8186.41	15804.81	6949.25	1380.60	-8172.76	75.84	732.42	801.39	0.91	FAIL	
16020.00†	7128.13	671.67	-8286.40	15904.81	6948.85	1382.43	-8272.74	75.84	733.14	810.39	0.90	FAIL	
16120.00†	7127.83	672.77	-8386.39	16004.81	6948.46	1384.25	-8372.72	75.85	733.87	819.39	0.90	FAIL	
16220.00†	7127.52	673.87	-8486.39	16104.80	6948.06	1386.07	-8472.70	75.86	734.59	828.39	0.89	FAIL	
16320.00†	7127.21	674.97	-8586.38	16204.80	6947.67	1387.89	-8572.68	75.86	735.31	837.39	0.88	FAIL	
16420.00†	7126.90	676.07	-8686.37	16304.80	6947.27	1389.71	-8672.66	75.87	736.03	846.39	0.87	FAIL	
16520.00†	7126.60	677.17	-8786.37	16404.80	6946.88	1391.54	-8772.64	75.88	736.75	855.39	0.86	FAIL	
16620.00†	7126.29	678.27	-8886.36	16504.79	6946.49	1393.36	-8872.62	75.89	737.47	864.40	0.85	FAIL	
16720.00†	7125.98	679.37	-8986.36	16604.79	6946.09	1395.18	-8972.60	75.89	738.19	873.40	0.85	FAIL	
16820.00†	7125.68	680.47	-9086.35	16704.79	6945.70	1397.00	-9072.58	75.90	738.91	882.41	0.84	FAIL	
16920.00†	7125.37	681.57	-9186.34	16804.78	6945.30	1398.82	-9172.56	75.91	739.63	891.42	0.83	FAIL	
17020.00†	7125.06	682.68	-9286.34	16904.78	6944.91	1400.65	-9272.54	75.92	740.36	900.43	0.82	FAIL	
17120.00†	7124.76	683.78	-9386.33	17004.78	6944.51	1402.47	-9372.52	75.92	741.08	909.44	0.81	FAIL	
17220.00†	7124.45	684.88	-9486.32	17104.78	6944.12	1404.29	-9472.50	75.93	741.80	918.45	0.81	FAIL	
17261.02†	7124.32	685.33	-9527.34	17135.10	6944.00	1404.84	-9502.82	75.93	742.17	921.56	0.81	FAIL	
17320.00†	7124.14	685.98	-9586.32	17135.10	6944.00	1404.84	-9502.82	75.93	745.78	920.28	0.81	FAIL	
17366.24	7124.00	686.49	-9632.55	17135.10	6944.00	1404.84	-9502.82	75.93	751.84	915.37	0.82	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## POSITIONAL UNCERTAINTY - Offset Wellbore: GREELEY-ROTHER FEDERAL 32N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32N-2B-L PWP (REV-A.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## HOLE & CASING SECTIONS - Offset Wellbore: GREELEY-ROTHER FEDERAL 32N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32N-2B-L PWP (REV-A.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	20.00	1750.00	1730.00	21.00	1724.80	36.46	-0.52	99.96	46.69
9.625in Casing Surface	20.00	1750.00	1730.00	21.00	1724.80	36.46	-0.52	99.96	46.69
8.5in Open Hole	1750.00	17135.10	15385.10	1724.80	6944.00	99.96	46.69	446.43	-2896.72

## SURVEY PROGRAM - Offset Wellbore: GREELEY-ROTHER FEDERAL 32N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32N-2B-L PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	1750.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 32N-2B-L PWB
1750.00	17135.10	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 32N-2B-L PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: GREELEY-ROTHER FEDERAL 32N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32N-2B-L PWP (REV-A.0)

MD Reference: PRECISION 462 (20') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	20.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT 2 AWB Offset Wellpath: EX. AUFRECHT 2 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#01 EX. AUFRECHT 2 (1374'FSL & 1370'FEL, CODL/AB) Well: EX. AUFRECHT 2 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	73.00	20.00	119.95	-6296.72	-88.91	6297.86	50.32	127.59	PASS
120.00†	120.00	0.00	0.00	173.00	120.00	119.95	-6296.72	-88.91	6297.86	51.06	125.70	PASS
220.00†	220.00	0.00	0.00	273.00	220.00	119.95	-6296.72	-88.91	6297.86	52.52	122.13	PASS
320.00†	320.00	0.00	0.00	373.00	320.00	119.95	-6296.72	-88.91	6297.86	54.62	117.36	PASS
400.00	400.00	0.00	0.00	453.00	400.00	119.95	-6296.72	-88.91	6297.86	56.68	113.02	PASS
420.00†	420.00	0.04	0.06	473.00	420.00	119.95	-6296.72	-145.53	6297.92	57.22	111.93	PASS
520.00†	519.96	1.38	2.10	572.96	519.96	119.95	-6296.72	-145.52	6299.94	60.23	106.27	PASS
620.00†	619.78	4.65	7.05	672.78	619.78	119.95	-6296.72	-145.49	6304.83	63.58	100.68	PASS
720.00†	719.33	9.82	14.91	772.33	719.33	119.95	-6296.72	-145.45	6312.59	67.14	95.37	PASS
820.00†	818.50	16.91	25.66	871.50	818.50	119.95	-6296.72	-145.40	6323.22	70.88	90.43	PASS
851.46	849.59	19.53	29.64	902.59	849.59	119.95	-6296.72	-145.38	6327.16	72.06	88.98	PASS
920.00†	917.28	25.45	38.62	970.28	917.28	119.95	-6296.72	-145.43	6336.05	74.71	85.91	PASS
1020.00†	1016.05	34.09	51.73	1069.05	1016.05	119.95	-6296.72	-145.51	6349.03	78.63	81.73	PASS
1120.00†	1114.81	42.72	64.83	1167.81	1114.81	119.95	-6296.72	-145.59	6362.02	82.65	77.87	PASS
1220.00†	1213.57	51.36	77.94	1266.57	1213.57	119.95	-6296.72	-145.67	6375.03	86.75	74.30	PASS
1320.00†	1312.33	59.99	91.04	1365.33	1312.33	119.95	-6296.72	-145.75	6388.04	90.90	71.02	PASS
1420.00†	1411.09	68.63	104.15	1464.09	1411.09	119.95	-6296.72	-145.83	6401.07	95.11	67.98	PASS
1520.00†	1509.85	77.26	117.25	1562.85	1509.85	119.95	-6296.72	-145.91	6414.11	99.36	65.18	PASS
1620.00†	1608.61	85.90	130.36	1661.61	1608.61	119.95	-6296.72	-145.98	6427.17	103.64	62.58	PASS
1720.00†	1707.37	94.53	143.46	1760.37	1707.37	119.95	-6296.72	-146.06	6440.23	107.97	60.18	PASS
1820.00†	1806.13	103.17	156.56	1859.13	1806.13	119.95	-6296.72	-146.14	6453.31	112.01	57.97	PASS
1920.00†	1904.89	111.80	169.67	1957.89	1904.89	119.95	-6296.72	-146.22	6466.39	116.28	55.94	PASS
2020.00†	2003.65	120.44	182.77	2056.65	2003.65	119.95	-6296.72	-146.29	6479.49	120.58	54.05	PASS
2120.00†	2102.41	129.07	195.88	2155.41	2102.41	119.95	-6296.72	-146.37	6492.60	124.91	52.27	PASS
2220.00†	2201.18	137.71	208.98	2254.18	2201.18	119.95	-6296.72	-146.45	6505.73	129.26	50.60	PASS
2320.00†	2299.94	146.34	222.09	2352.94	2299.94	119.95	-6296.72	-146.52	6518.86	133.64	49.03	PASS
2420.00†	2398.70	154.98	235.19	2451.70	2398.70	119.95	-6296.72	-146.60	6532.01	138.03	47.56	PASS
2520.00†	2497.46	163.61	248.29	2550.46	2497.46	119.95	-6296.72	-146.67	6545.16	142.45	46.17	PASS
2620.00†	2596.22	172.25	261.40	2649.22	2596.22	119.95	-6296.72	-146.75	6558.33	146.88	44.86	PASS
2720.00†	2694.98	180.88	274.50	2747.98	2694.98	119.95	-6296.72	-146.82	6571.51	151.34	43.62	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT 2 AWB Offset Wellpath: EX. AUFRECHT 2 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#01 EX. AUFRECHT 2 (1374'FSL & 1370'FEL, CODL/AB) Well: EX. AUFRECHT 2 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2846.74	2793.74	119.95	-6296.72	-146.90	6584.70	155.81	42.45	PASS
2920.00†	2892.50	198.15	300.71	2945.50	2892.50	119.95	-6296.72	-146.97	6597.90	160.30	41.34	PASS
3020.00†	2991.26	206.79	313.82	3044.26	2991.26	119.95	-6296.72	-147.04	6611.11	164.80	40.29	PASS
3120.00†	3090.02	215.42	326.92	3143.02	3090.02	119.95	-6296.72	-147.12	6624.33	169.32	39.28	PASS
3220.00†	3188.78	224.06	340.03	3241.78	3188.78	119.95	-6296.72	-147.19	6637.56	173.85	38.33	PASS
3320.00†	3287.55	232.69	353.13	3340.55	3287.55	119.95	-6296.72	-147.26	6650.81	178.40	37.43	PASS
3420.00†	3386.31	241.33	366.23	3439.31	3386.31	119.95	-6296.72	-147.34	6664.06	182.96	36.56	PASS
3520.00†	3485.07	249.96	379.34	3538.07	3485.07	119.95	-6296.72	-147.41	6677.33	187.53	35.74	PASS
3620.00†	3583.83	258.60	392.44	3636.83	3583.83	119.95	-6296.72	-147.48	6690.60	192.12	34.95	PASS
3720.00†	3682.59	267.23	405.55	3735.59	3682.59	119.95	-6296.72	-147.55	6703.89	196.71	34.20	PASS
3820.00†	3781.35	275.87	418.65	3834.35	3781.35	119.95	-6296.72	-147.63	6717.18	201.32	33.48	PASS
3920.00†	3880.11	284.50	431.76	3933.11	3880.11	119.95	-6296.72	-147.70	6730.49	205.95	32.79	PASS
4020.00†	3978.87	293.14	444.86	4031.87	3978.87	119.95	-6296.72	-147.77	6743.81	210.58	32.13	PASS
4120.00†	4077.63	301.77	457.97	4130.63	4077.63	119.95	-6296.72	-147.84	6757.13	215.22	31.50	PASS
4220.00†	4176.39	310.41	471.07	4229.39	4176.39	119.95	-6296.72	-147.91	6770.47	219.88	30.89	PASS
4320.00†	4275.15	319.04	484.17	4328.15	4275.15	119.95	-6296.72	-147.98	6783.82	224.54	30.30	PASS
4420.00†	4373.91	327.68	497.28	4426.91	4373.91	119.95	-6296.72	-148.05	6797.17	229.21	29.74	PASS
4520.00†	4472.68	336.31	510.38	4525.68	4472.68	119.95	-6296.72	-148.12	6810.54	233.89	29.20	PASS
4620.00†	4571.44	344.95	523.49	4624.44	4571.44	119.95	-6296.72	-148.19	6823.92	238.58	28.68	PASS
4720.00†	4670.20	353.58	536.59	4723.20	4670.20	119.95	-6296.72	-148.26	6837.31	243.28	28.18	PASS
4820.00†	4768.96	362.22	549.70	4821.96	4768.96	119.95	-6296.72	-148.33	6850.70	247.99	27.70	PASS
4920.00†	4867.72	370.85	562.80	4920.72	4867.72	119.95	-6296.72	-148.39	6864.11	252.71	27.24	PASS
5020.00†	4966.48	379.49	575.91	5019.48	4966.48	119.95	-6296.72	-148.46	6877.53	257.43	26.79	PASS
5120.00†	5065.24	388.12	589.01	5118.24	5065.24	119.95	-6296.72	-148.53	6890.95	262.16	26.35	PASS
5220.00†	5164.00	396.76	602.11	5217.00	5164.00	119.95	-6296.72	-148.60	6904.39	266.90	25.93	PASS
5320.00†	5262.76	405.39	615.22	5315.76	5262.76	119.95	-6296.72	-148.67	6917.83	271.65	25.53	PASS
5420.00†	5361.52	414.03	628.32	5414.52	5361.52	119.95	-6296.72	-148.73	6931.29	276.40	25.14	PASS
5520.00†	5460.28	422.66	641.43	5513.28	5460.28	119.95	-6296.72	-148.80	6944.75	281.16	24.76	PASS
5620.00†	5559.05	431.30	654.53	5612.05	5559.05	119.95	-6296.72	-148.87	6958.22	285.92	24.39	PASS
5720.00†	5657.81	439.93	667.64	5710.81	5657.81	119.95	-6296.72	-148.93	6971.70	290.69	24.04	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT 2 AWB Offset Wellpath: EX. AUFRECHT 2 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#01 EX. AUFRECHT 2 (1374'FSL & 1370'FEL, CODL/AB) Well: EX. AUFRECHT 2 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5809.57	5756.57	119.95	-6296.72	-149.00	6985.20	295.47	23.70	PASS
5920.00†	5855.33	457.20	693.85	5908.33	5855.33	119.95	-6296.72	-149.07	6998.70	300.26	23.36	PASS
6020.00†	5954.09	465.84	706.95	6007.09	5954.09	119.95	-6296.72	-149.13	7012.21	305.04	23.04	PASS
6120.00†	6052.85	474.47	720.05	6105.85	6052.85	119.95	-6296.72	-149.20	7025.73	309.84	22.73	PASS
6220.00†	6151.61	483.11	733.16	6204.61	6151.61	119.95	-6296.72	-149.26	7039.25	314.64	22.42	PASS
6320.00†	6250.37	491.74	746.26	6303.37	6250.37	119.95	-6296.72	-149.33	7052.79	319.44	22.13	PASS
6420.00†	6349.13	500.38	759.37	6402.13	6349.13	119.95	-6296.72	-149.39	7066.34	324.25	21.84	PASS
6509.39	6437.41	508.10	771.08	6490.41	6437.41	119.95	-6296.72	-149.45	7078.45	328.55	21.59	PASS
6520.00†	6447.90	509.02	772.38	6500.90	6447.90	119.95	-6296.72	-145.73	7079.80	329.06	21.56	PASS
6620.00†	6547.35	517.82	776.00	6600.35	6547.35	119.95	-6296.72	-67.89	7083.90	333.99	21.25	PASS
6720.00†	6646.11	526.74	763.96	6699.11	6646.11	119.95	-6296.72	-28.07	7072.39	339.28	20.89	PASS
6820.00†	6741.77	535.55	736.55	6794.77	6741.77	119.95	-6296.72	-18.53	7045.54	344.77	20.48	PASS
6920.00†	6831.97	544.05	694.45	6884.97	6831.97	119.95	-6296.72	-14.93	7004.03	349.72	20.07	PASS
7020.00†	6914.48	552.02	638.70	6967.48	6914.48	119.95	-6296.72	-13.46	6948.87	354.15	19.66	PASS
7120.00†	6987.27	559.26	570.67	7040.27	6987.27	119.95	-6296.72	-13.17	6881.43	357.96	19.26	PASS
7220.00†	7048.56	565.59	492.04	7101.56	7048.56	119.95	-6296.72	-13.91	6803.37	361.10	18.88	PASS
7320.00†	7096.83	570.87	404.74	7149.83	7096.83	119.95	-6296.72	-16.11	6716.61	363.52	18.51	PASS
7420.00†	7130.89	574.96	310.91	7183.89	7130.89	119.95	-6296.72	-21.51	6623.28	365.20	18.17	PASS
7520.00†	7149.90	577.75	212.88	7202.90	7149.90	119.95	-6296.72	-39.09	6525.68	366.12	17.86	PASS
7594.38	7154.00	578.96	138.67	7207.00	7154.00	119.95	-6296.72	-92.13	6451.73	366.33	17.64	PASS
7620.00†	7153.92	579.24	113.05	7206.92	7153.92	119.95	-6296.72	-92.13	6426.21	366.33	17.57	PASS
7720.00†	7153.61	580.34	13.06	7206.61	7153.61	119.95	-6296.72	-92.09	6326.55	366.35	17.30	PASS
7820.00†	7153.31	581.44	-86.94	7206.31	7153.31	119.95	-6296.72	-92.06	6226.91	366.38	17.03	PASS
7920.00†	7153.00	582.54	-186.93	7206.00	7153.00	119.95	-6296.72	-92.03	6127.28	366.41	16.75	PASS
8020.00†	7152.69	583.64	-286.92	7205.69	7152.69	119.95	-6296.72	-91.99	6027.66	366.45	16.48	PASS
8120.00†	7152.39	584.74	-386.92	7205.39	7152.39	119.95	-6296.72	-91.96	5928.05	366.49	16.20	PASS
8220.00†	7152.08	585.84	-486.91	7205.08	7152.08	119.95	-6296.72	-91.93	5828.46	366.55	15.93	PASS
8320.00†	7151.77	586.94	-586.90	7204.77	7151.77	119.95	-6296.72	-91.89	5728.88	366.61	15.65	PASS
8420.00†	7151.47	588.04	-686.90	7204.47	7151.47	119.95	-6296.72	-91.86	5629.32	366.69	15.38	PASS
8520.00†	7151.16	589.14	-786.89	7204.16	7151.16	119.95	-6296.72	-91.83	5529.77	366.78	15.10	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT 2 AWB Offset Wellpath: EX. AUFRECHT 2 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#01 EX. AUFRECHT 2 (1374'FSL & 1370'FEL, CODL/AB) Well: EX. AUFRECHT 2 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	7203.85	7150.85	119.95	-6296.72	-91.79	5430.24	366.87	14.83	PASS
8720.00†	7150.54	591.34	-986.88	7203.54	7150.54	119.95	-6296.72	-91.76	5330.73	366.98	14.55	PASS
8820.00†	7150.24	592.44	-1086.87	7203.24	7150.24	119.95	-6296.72	-91.73	5231.23	367.11	14.28	PASS
8920.00†	7149.93	593.54	-1186.86	7202.93	7149.93	119.95	-6296.72	-91.69	5131.76	367.25	14.00	PASS
9020.00†	7149.62	594.64	-1286.86	7202.62	7149.62	119.95	-6296.72	-91.66	5032.30	367.40	13.72	PASS
9120.00†	7149.32	595.74	-1386.85	7202.32	7149.32	119.95	-6296.72	-91.63	4932.87	367.57	13.44	PASS
9220.00†	7149.01	596.84	-1486.84	7202.01	7149.01	119.95	-6296.72	-91.60	4833.46	367.76	13.17	PASS
9320.00†	7148.70	597.94	-1586.84	7201.70	7148.70	119.95	-6296.72	-91.56	4734.08	367.98	12.89	PASS
9420.00†	7148.40	599.04	-1686.83	7201.40	7148.40	119.95	-6296.72	-91.53	4634.72	368.21	12.61	PASS
9520.00†	7148.09	600.15	-1786.82	7201.09	7148.09	119.95	-6296.72	-91.50	4535.39	368.47	12.33	PASS
9620.00†	7147.78	601.25	-1886.82	7200.78	7147.78	119.95	-6296.72	-91.46	4436.09	368.75	12.05	PASS
9720.00†	7147.47	602.35	-1986.81	7200.47	7147.47	119.95	-6296.72	-91.43	4336.82	369.06	11.77	PASS
9820.00†	7147.17	603.45	-2086.81	7200.17	7147.17	119.95	-6296.72	-91.40	4237.59	369.41	11.49	PASS
9920.00†	7146.86	604.55	-2186.80	7199.86	7146.86	119.95	-6296.72	-91.36	4138.39	369.78	11.21	PASS
10020.00†	7146.55	605.65	-2286.79	7199.55	7146.55	119.95	-6296.72	-91.33	4039.24	370.20	10.93	PASS
10120.00†	7146.25	606.75	-2386.79	7199.25	7146.25	119.95	-6296.72	-91.30	3940.12	370.66	10.65	PASS
10220.00†	7145.94	607.85	-2486.78	7198.94	7145.94	119.95	-6296.72	-91.26	3841.05	371.16	10.37	PASS
10320.00†	7145.63	608.95	-2586.77	7198.63	7145.63	119.95	-6296.72	-91.23	3742.04	371.71	10.08	PASS
10420.00†	7145.33	610.05	-2686.77	7198.33	7145.33	119.95	-6296.72	-91.20	3643.07	372.31	9.80	PASS
10520.00†	7145.02	611.15	-2786.76	7198.02	7145.02	119.95	-6296.72	-91.16	3544.16	372.98	9.52	PASS
10620.00†	7144.71	612.25	-2886.75	7197.71	7144.71	119.95	-6296.72	-91.13	3445.32	373.71	9.23	PASS
10720.00†	7144.40	613.35	-2986.75	7197.40	7144.40	119.95	-6296.72	-91.10	3346.55	374.51	8.95	PASS
10820.00†	7144.10	614.45	-3086.74	7197.10	7144.10	119.95	-6296.72	-91.06	3247.85	375.39	8.67	PASS
10920.00†	7143.79	615.55	-3186.73	7196.79	7143.79	119.95	-6296.72	-91.03	3149.23	376.36	8.38	PASS
11020.00†	7143.48	616.65	-3286.73	7196.48	7143.48	119.95	-6296.72	-91.00	3050.70	377.44	8.10	PASS
11120.00†	7143.18	617.75	-3386.72	7196.18	7143.18	119.95	-6296.72	-90.96	2952.27	378.62	7.81	PASS
11220.00†	7142.87	618.85	-3486.71	7195.87	7142.87	119.95	-6296.72	-90.93	2853.95	379.92	7.52	PASS
11320.00†	7142.56	619.95	-3586.71	7195.56	7142.56	119.95	-6296.72	-90.90	2755.75	381.36	7.24	PASS
11420.00†	7142.26	621.05	-3686.70	7195.26	7142.26	119.95	-6296.72	-90.87	2657.69	382.95	6.95	PASS
11520.00†	7141.95	622.15	-3786.69	7194.95	7141.95	119.95	-6296.72	-90.83	2559.77	384.71	6.66	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT 2 AWB Offset Wellpath: EX. AUFRECHT 2 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#01 EX. AUFRECHT 2 (1374'FSL & 1370'FEL, CODL/AB) Well: EX. AUFRECHT 2 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11620.00†	7141.64	623.25	-3886.69	7194.64	7141.64	119.95	-6296.72	-90.80	2462.03	386.67	6.38	PASS
11720.00†	7141.33	624.35	-3986.68	7194.33	7141.33	119.95	-6296.72	-90.77	2364.47	388.83	6.09	PASS
11820.00†	7141.03	625.45	-4086.67	7194.03	7141.03	119.95	-6296.72	-90.73	2267.12	391.25	5.80	PASS
11920.00†	7140.72	626.55	-4186.67	7193.72	7140.72	119.95	-6296.72	-90.70	2170.02	393.94	5.52	PASS
12020.00†	7140.41	627.66	-4286.66	7193.41	7140.41	119.95	-6296.72	-90.67	2073.19	396.94	5.23	PASS
12120.00†	7140.11	628.76	-4386.66	7193.11	7140.11	119.95	-6296.72	-90.63	1976.67	400.30	4.94	PASS
12220.00†	7139.80	629.86	-4486.65	7192.80	7139.80	119.95	-6296.72	-90.60	1880.52	404.07	4.66	PASS
12320.00†	7139.49	630.96	-4586.64	7192.49	7139.49	119.95	-6296.72	-90.57	1784.79	408.31	4.38	PASS
12420.00†	7139.19	632.06	-4686.64	7192.19	7139.19	119.95	-6296.72	-90.53	1689.56	413.10	4.10	PASS
12520.00†	7138.88	633.16	-4786.63	7191.88	7138.88	119.95	-6296.72	-90.50	1594.92	418.52	3.82	PASS
12620.00†	7138.57	634.26	-4886.62	7191.57	7138.57	119.95	-6296.72	-90.47	1500.96	424.69	3.54	PASS
12720.00†	7138.26	635.36	-4986.62	7191.26	7138.26	119.95	-6296.72	-90.43	1407.84	431.72	3.26	PASS
12820.00†	7137.96	636.46	-5086.61	7190.96	7137.96	119.95	-6296.72	-90.40	1315.73	439.78	3.00	PASS
12920.00†	7137.65	637.56	-5186.60	7190.65	7137.65	119.95	-6296.72	-90.37	1224.86	449.05	2.73	PASS
13020.00†	7137.34	638.66	-5286.60	7190.34	7137.34	119.95	-6296.72	-90.33	1135.52	459.75	2.47	PASS
13120.00†	7137.04	639.76	-5386.59	7190.04	7137.04	119.95	-6296.72	-90.30	1048.11	472.16	2.22	PASS
13220.00†	7136.73	640.86	-5486.58	7189.73	7136.73	119.95	-6296.72	-90.27	963.15	486.55	1.98	PASS
13320.00†	7136.42	641.96	-5586.58	7189.42	7136.42	119.95	-6296.72	-90.23	881.36	503.25	1.75	PASS
13420.00†	7136.12	643.06	-5686.57	7189.12	7136.12	119.95	-6296.72	-90.20	803.69	522.52	1.54	PASS
13520.00†	7135.81	644.16	-5786.56	7188.81	7135.81	119.95	-6296.72	-90.17	731.47	544.44	1.34	PASS
13620.00†	7135.50	645.26	-5886.56	7188.50	7135.50	119.95	-6296.72	-90.13	666.47	568.68	1.17	PASS
13720.00†	7135.19	646.36	-5986.55	7188.19	7135.19	119.95	-6296.72	-90.10	610.99	594.10	1.03	PASS
13820.00†	7134.89	647.46	-6086.54	7187.89	7134.89	119.95	-6296.72	-90.07	567.84	618.27	0.92	FAIL
13920.00†	7134.58	648.56	-6186.54	7187.58	7134.58	119.95	-6296.72	-90.04	539.97	637.51	0.85	FAIL
14020.00†	7134.27	649.66	-6286.53	7187.27	7134.27	119.95	-6296.72	-90.00	529.81	647.86	0.82	FAIL
14025.00†	7134.26	649.72	-6291.53	7187.50	7134.50	119.95	-6296.72	-90.03	529.79	648.10	0.82	FAIL
14037.23†	7134.22	649.85	-6303.76	7187.22	7134.22	119.95	-6296.72	-90.00	529.95	648.54	0.82	FAIL
14120.00†	7133.97	650.76	-6386.52	7186.97	7133.97	119.95	-6296.72	-89.97	538.35	647.17	0.83	FAIL
14220.00†	7133.66	651.86	-6486.52	7186.66	7133.66	119.95	-6296.72	-89.94	564.76	636.47	0.89	FAIL
14320.00†	7133.35	652.96	-6586.51	7186.35	7133.35	119.95	-6296.72	-89.90	606.70	619.15	0.98	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT 2 AWB Offset Wellpath: EX. AUFRECHT 2 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#01 EX. AUFRECHT 2 (1374'FSL & 1370'FEL, CODL/AB) Well: EX. AUFRECHT 2 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14420.00†	7133.05	654.06	-6686.51	7186.05	7133.05	119.95	-6296.72	-89.87	661.22	598.87	1.10	PASS
14520.00†	7132.74	655.17	-6786.50	7185.74	7132.74	119.95	-6296.72	-89.84	725.49	578.35	1.25	PASS
14620.00†	7132.43	656.27	-6886.49	7185.43	7132.43	119.95	-6296.72	-89.80	797.16	559.08	1.43	PASS
14720.00†	7132.12	657.37	-6986.49	7185.12	7132.12	119.95	-6296.72	-89.77	874.41	541.70	1.61	PASS
14820.00†	7131.82	658.47	-7086.48	7184.82	7131.82	119.95	-6296.72	-89.74	955.88	526.33	1.82	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. AUFRECHT 2 AWB Offset Wellpath: EX. AUFRECHT 2 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. AUFRECHT 2 AWB Offset Wellpath: EX. AUFRECHT 2 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7840.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7840>	EX. AUFRECHT 2 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. AUFRECHT 2 AWB Offset Wellpath: EX. AUFRECHT 2 AWP

MD Reference: Rig on SLOT#01 EX. AUFRECHT 2 (1374'FSL & 1370'FEL, CODL/AB) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 32C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32C-2-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#13 GREELEY-ROTHER FEDERAL 32C-2-L (1163'FSL & 295'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 32C-2-L Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
20.00	20.00	0.00	0.00	19.00	20.00	79.85	-1.08	-0.78	79.85	1.26	262.96	PASS	
120.00†	120.00	0.00	0.00	119.00	120.00	79.85	-1.08	-0.78	79.85	1.89	85.57	PASS	
220.00†	220.00	0.00	0.00	218.57	219.57	79.90	-1.05	-0.75	79.90	2.45	53.14	PASS	
320.00†	320.00	0.00	0.00	316.22	317.19	81.84	0.18	0.13	81.89	3.29	34.72	PASS	
400.00	400.00	0.00	0.00	394.16	395.01	85.40	2.44	1.63	85.58	4.23	25.91	PASS	
420.00†	420.00	0.04	0.06	413.61	414.41	86.57	3.18	-54.53	86.77	4.47	24.47	PASS	
520.00†	519.96	1.38	2.10	510.71	511.10	94.07	7.92	-52.86	93.29	5.55	20.11	PASS	
620.00†	619.78	4.65	7.05	607.54	607.16	104.29	14.40	-52.04	100.71	6.71	17.37	PASS	
720.00†	719.33	9.82	14.91	704.07	702.47	117.21	22.59	-51.91	108.98	7.73	15.96	PASS	
820.00†	818.50	16.91	25.66	800.29	796.91	132.78	32.45	-52.33	118.06	8.75	15.04	PASS	
851.46	849.59	19.53	29.64	830.49	826.41	138.22	35.89	-52.55	121.09	8.94	15.05	PASS	
920.00†	917.28	25.45	38.62	896.93	891.10	151.04	44.01	-53.00	128.41	9.41	15.10	PASS	
1020.00†	1016.05	34.09	51.73	996.30	987.72	170.66	56.44	-53.48	139.56	10.02	15.30	PASS	
1120.00†	1114.81	42.72	64.83	1095.67	1084.34	190.27	68.86	-53.88	150.72	10.69	15.40	PASS	
1220.00†	1213.57	51.36	77.94	1195.04	1180.95	209.89	81.28	-54.24	161.88	11.40	15.43	PASS	
1320.00†	1312.33	59.99	91.04	1294.41	1277.57	229.50	93.71	-54.54	173.06	12.14	15.40	PASS	
1420.00†	1411.09	68.63	104.15	1393.78	1374.19	249.11	106.13	-54.81	184.23	12.90	15.35	PASS	
1520.00†	1509.85	77.26	117.25	1493.15	1470.81	268.73	118.55	-55.05	195.41	13.70	15.26	PASS	
1620.00†	1608.61	85.90	130.36	1592.52	1567.43	288.34	130.98	-55.26	206.59	14.50	15.19	PASS	
1720.00†	1707.37	94.53	143.46	1691.89	1664.05	307.96	143.40	-55.45	217.78	15.33	15.10	PASS	
1820.00†	1806.13	103.17	156.56	1791.26	1760.67	327.57	155.82	-55.62	228.96	15.55	15.37	PASS	
1920.00†	1904.89	111.80	169.67	1890.63	1857.29	347.19	168.25	-55.78	240.15	15.71	15.96	PASS	
2020.00†	2003.65	120.44	182.77	1990.00	1953.91	366.80	180.67	-55.92	251.34	15.91	16.48	PASS	
2120.00†	2102.41	129.07	195.88	2089.37	2050.53	386.41	193.09	-56.05	262.53	16.19	16.91	PASS	
2220.00†	2201.18	137.71	208.98	2188.74	2147.15	406.03	205.51	-56.17	273.73	16.55	17.23	PASS	
2320.00†	2299.94	146.34	222.09	2288.11	2243.77	425.64	217.94	-56.28	284.92	16.98	17.46	PASS	
2420.00†	2398.70	154.98	235.19	2387.48	2340.39	445.26	230.36	-56.38	296.12	17.48	17.61	PASS	
2520.00†	2497.46	163.61	248.29	2486.85	2437.01	464.87	242.78	-56.48	307.31	18.04	17.69	PASS	
2620.00†	2596.22	172.25	261.40	2586.22	2533.63	484.48	255.21	-56.57	318.51	18.66	17.71	PASS	
2720.00†	2694.98	180.88	274.50	2685.59	2630.25	504.10	267.63	-56.65	329.71	19.32	17.67	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 32C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32C-2-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#13 GREELEY-ROTHER FEDERAL 32C-2-L (1163'FSL & 295'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 32C-2-L Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2784.96	2726.87	523.71	280.05	-56.72	340.90	20.04	17.60	PASS
2920.00†	2892.50	198.15	300.71	2884.33	2823.49	543.33	292.48	-56.80	352.10	20.79	17.50	PASS
3020.00†	2991.26	206.79	313.82	2983.70	2920.11	562.94	304.90	-56.86	363.30	21.57	17.38	PASS
3120.00†	3090.02	215.42	326.92	3083.07	3016.73	582.55	317.32	-56.93	374.50	22.39	17.24	PASS
3220.00†	3188.78	224.06	340.03	3182.44	3113.35	602.17	329.75	-56.99	385.70	23.23	17.09	PASS
3320.00†	3287.55	232.69	353.13	3281.81	3209.97	621.78	342.17	-57.04	396.90	24.10	16.93	PASS
3420.00†	3386.31	241.33	366.23	3381.18	3306.59	641.40	354.59	-57.09	408.10	25.00	16.77	PASS
3520.00†	3485.07	249.96	379.34	3480.55	3403.21	661.01	367.02	-57.14	419.30	25.91	16.61	PASS
3620.00†	3583.83	258.60	392.44	3579.92	3499.83	680.63	379.44	-57.19	430.50	26.84	16.44	PASS
3720.00†	3682.59	267.23	405.55	3679.29	3596.45	700.24	391.86	-57.24	441.70	27.79	16.28	PASS
3820.00†	3781.35	275.87	418.65	3778.66	3693.07	719.85	404.29	-57.28	452.91	28.76	16.12	PASS
3920.00†	3880.11	284.50	431.76	3878.03	3789.69	739.47	416.71	-57.32	464.11	29.73	15.97	PASS
4020.00†	3978.87	293.14	444.86	3977.40	3886.31	759.08	429.13	-57.36	475.31	30.72	15.81	PASS
4120.00†	4077.63	301.77	457.97	4076.77	3982.93	778.70	441.56	-57.40	486.51	31.72	15.67	PASS
4220.00†	4176.39	310.41	471.07	4176.14	4079.54	798.31	453.98	-57.43	497.72	32.73	15.52	PASS
4320.00†	4275.15	319.04	484.17	4275.51	4176.16	817.92	466.40	-57.47	508.92	33.75	15.38	PASS
4420.00†	4373.91	327.68	497.28	4374.88	4272.78	837.54	478.83	-57.50	520.12	34.77	15.25	PASS
4520.00†	4472.68	336.31	510.38	4474.25	4369.40	857.15	491.25	-57.53	531.32	35.80	15.12	PASS
4620.00†	4571.44	344.95	523.49	4573.62	4466.02	876.77	503.67	-57.56	542.53	36.84	14.99	PASS
4720.00†	4670.20	353.58	536.59	4672.99	4562.64	896.38	516.10	-57.59	553.73	37.89	14.87	PASS
4820.00†	4768.96	362.22	549.70	4772.36	4659.26	915.99	528.52	-57.62	564.93	38.94	14.76	PASS
4920.00†	4867.72	370.85	562.80	4871.73	4755.88	935.61	540.94	-57.64	576.14	40.00	14.65	PASS
5020.00†	4966.48	379.49	575.91	4971.10	4852.50	955.22	553.37	-57.67	587.34	41.06	14.54	PASS
5120.00†	5065.24	388.12	589.01	5070.47	4949.12	974.84	565.79	-57.69	598.55	42.13	14.43	PASS
5220.00†	5164.00	396.76	602.11	5169.84	5045.74	994.45	578.21	-57.72	609.75	43.20	14.33	PASS
5320.00†	5262.76	405.39	615.22	5269.21	5142.36	1014.07	590.63	-57.74	620.95	44.27	14.24	PASS
5420.00†	5361.52	414.03	628.32	5368.58	5238.98	1033.68	603.06	-57.76	632.16	45.35	14.15	PASS
5520.00†	5460.28	422.66	641.43	5467.95	5335.60	1053.29	615.48	-57.78	643.36	46.43	14.06	PASS
5620.00†	5559.05	431.30	654.53	5567.32	5432.22	1072.91	627.90	-57.80	654.57	47.51	13.97	PASS
5720.00†	5657.81	439.93	667.64	5666.69	5528.84	1092.52	640.33	-57.82	665.77	48.60	13.89	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)

Closest Approach

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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 32C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32C-2-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#13 GREELEY-ROTHER FEDERAL 32C-2-L (1163'FSL & 295'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 32C-2-L Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
5820.00†	5756.57	448.57	680.74	5766.06	5625.46	1112.14	652.75	-57.84	676.98	49.68	13.81	PASS	
5920.00†	5855.33	457.20	693.85	5865.43	5722.08	1131.75	665.17	-57.86	688.18	50.78	13.73	PASS	
6020.00†	5954.09	465.84	706.95	5964.80	5818.70	1151.36	677.60	-57.88	699.38	51.87	13.66	PASS	
6120.00†	6052.85	474.47	720.05	6064.17	5915.32	1170.98	690.02	-57.89	710.59	52.97	13.58	PASS	
6220.00†	6151.61	483.11	733.16	6163.54	6011.94	1190.59	702.44	-57.91	721.79	54.06	13.51	PASS	
6320.00†	6250.37	491.74	746.26	6262.91	6108.56	1210.21	714.87	-57.93	733.00	55.16	13.45	PASS	
6420.00†	6349.13	500.38	759.37	6362.28	6205.18	1229.82	727.29	-57.94	744.20	56.27	13.38	PASS	
6509.39	6437.41	508.10	771.08	6451.11	6291.54	1247.35	738.39	-57.96	754.22	57.25	13.33	PASS	
6520.00†	6447.90	509.02	772.38	6461.66	6301.80	1249.44	739.71	-54.34	755.40	57.37	13.32	PASS	
6620.00†	6547.35	517.82	776.00	6560.54	6397.94	1268.95	752.08	23.26	766.22	58.51	13.24	PASS	
6720.00†	6646.11	526.74	783.96	6655.94	6490.78	1287.82	763.30	63.97	776.77	59.94	13.10	PASS	
6820.00†	6741.77	535.55	796.55	6750.64	6583.44	1306.90	763.66	74.71	787.90	61.12	13.03	PASS	
6920.00†	6831.97	544.05	809.45	6849.52	6679.06	1326.96	749.07	79.69	799.57	62.43	12.94	PASS	
7020.00†	6914.48	552.02	828.70	6953.28	6775.67	1347.61	717.72	82.77	811.47	64.03	12.80	PASS	
7120.00†	6987.27	559.26	847.67	7062.60	6870.54	1368.36	667.83	84.99	823.23	66.00	12.60	PASS	
7220.00†	7048.56	565.59	867.04	7178.06	6960.03	1388.47	597.95	86.72	834.38	68.56	12.29	PASS	
7320.00†	7096.83	570.87	886.74	7299.99	7039.39	1406.99	507.50	88.11	844.37	72.06	11.82	PASS	
7420.00†	7130.89	574.96	906.91	7428.28	7102.99	1422.73	397.46	89.20	852.63	76.49	11.24	PASS	
7520.00†	7149.90	577.75	927.88	7562.16	7144.88	1434.38	271.10	89.97	858.62	81.90	10.57	PASS	
7594.38	7154.00	578.96	938.67	7664.52	7158.88	1439.68	169.95	90.32	861.31	86.25	10.06	PASS	
7620.00†	7153.92	579.24	949.05	7700.15	7160.00	1440.76	134.35	90.40	861.81	87.80	9.89	PASS	
7720.00†	7153.61	580.34	959.06	7801.29	7159.77	1443.13	33.24	90.41	863.05	93.39	9.30	PASS	
7820.00†	7153.31	581.44	-86.94	7901.28	7159.53	1445.47	-66.72	90.41	864.30	99.48	8.74	PASS	
7920.00†	7153.00	582.54	-186.93	8001.28	7159.29	1447.82	-166.68	90.41	865.54	106.04	8.21	PASS	
8020.00†	7152.69	583.64	-286.92	8101.27	7159.05	1450.16	-266.65	90.42	866.78	112.98	7.71	PASS	
8120.00†	7152.39	584.74	-386.92	8201.26	7158.81	1452.50	-366.61	90.42	868.02	120.24	7.26	PASS	
8220.00†	7152.08	585.84	-486.91	8301.25	7158.57	1454.84	-466.58	90.43	869.26	127.76	6.84	PASS	
8320.00†	7151.77	586.94	-586.90	8401.25	7158.33	1457.18	-566.54	90.43	870.50	135.49	6.45	PASS	
8420.00†	7151.47	588.04	-686.90	8501.24	7158.09	1459.52	-666.51	90.43	871.74	143.41	6.10	PASS	
8520.00†	7151.16	589.14	-786.89	8601.23	7157.85	1461.86	-766.47	90.44	872.98	151.48	5.79	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 32C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32C-2-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#13 GREELEY-ROTHER FEDERAL 32C-2-L (1163'FSL & 295'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 32C-2-L Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	8701.22	7157.61	1464.20	-866.44	90.44	874.22	159.68	5.49	PASS
8720.00†	7150.54	591.34	-986.88	8801.21	7157.37	1466.54	-966.40	90.44	875.46	167.99	5.23	PASS
8820.00†	7150.24	592.44	-1086.87	8901.21	7157.13	1468.88	-1066.37	90.45	876.71	176.40	4.99	PASS
8920.00†	7149.93	593.54	-1186.86	9001.20	7156.89	1471.22	-1166.33	90.45	877.95	184.89	4.76	PASS
9020.00†	7149.62	594.64	-1286.86	9101.19	7156.65	1473.56	-1266.30	90.46	879.19	193.45	4.56	PASS
9120.00†	7149.32	595.74	-1386.85	9201.18	7156.41	1475.90	-1366.26	90.46	880.43	202.07	4.37	PASS
9220.00†	7149.01	596.84	-1486.84	9301.18	7156.17	1478.24	-1466.22	90.46	881.67	210.74	4.19	PASS
9320.00†	7148.70	597.94	-1586.84	9401.17	7155.93	1480.58	-1566.19	90.47	882.91	219.47	4.03	PASS
9420.00†	7148.40	599.04	-1686.83	9501.16	7155.69	1482.92	-1666.15	90.47	884.15	228.24	3.88	PASS
9520.00†	7148.09	600.15	-1786.82	9601.15	7155.45	1485.26	-1766.12	90.47	885.39	237.04	3.74	PASS
9620.00†	7147.78	601.25	-1886.82	9701.14	7155.21	1487.61	-1866.08	90.48	886.63	245.88	3.61	PASS
9720.00†	7147.47	602.35	-1986.81	9801.14	7154.97	1489.95	-1966.05	90.48	887.87	254.75	3.49	PASS
9820.00†	7147.17	603.45	-2086.81	9901.13	7154.73	1492.29	-2066.01	90.49	889.12	263.64	3.38	PASS
9920.00†	7146.86	604.55	-2186.80	10001.12	7154.49	1494.63	-2165.98	90.49	890.36	272.56	3.27	PASS
10020.00†	7146.55	605.65	-2286.79	10101.11	7154.25	1496.97	-2265.94	90.49	891.60	281.51	3.17	PASS
10120.00†	7146.25	606.75	-2386.79	10201.11	7154.01	1499.31	-2365.91	90.50	892.84	290.47	3.08	PASS
10220.00†	7145.94	607.85	-2486.78	10301.10	7153.77	1501.65	-2465.87	90.50	894.08	299.45	2.99	PASS
10320.00†	7145.63	608.95	-2586.77	10401.09	7153.53	1503.99	-2565.84	90.50	895.32	308.45	2.91	PASS
10420.00†	7145.33	610.05	-2686.77	10501.08	7153.29	1506.33	-2665.80	90.51	896.56	317.46	2.83	PASS
10520.00†	7145.02	611.15	-2786.76	10601.08	7153.05	1508.67	-2765.76	90.51	897.80	326.48	2.75	PASS
10620.00†	7144.71	612.25	-2886.75	10701.07	7152.81	1511.01	-2865.73	90.51	899.04	335.52	2.68	PASS
10720.00†	7144.40	613.35	-2986.75	10801.06	7152.57	1513.35	-2965.69	90.52	900.29	344.58	2.62	PASS
10820.00†	7144.10	614.45	-3086.74	10901.05	7152.33	1515.69	-3065.66	90.52	901.53	353.64	2.55	PASS
10920.00†	7143.79	615.55	-3186.73	11001.04	7152.09	1518.03	-3165.62	90.53	902.77	362.71	2.49	PASS
11020.00†	7143.48	616.65	-3286.73	11101.04	7151.85	1520.37	-3265.59	90.53	904.01	371.79	2.43	PASS
11120.00†	7143.18	617.75	-3386.72	11201.03	7151.61	1522.71	-3365.55	90.53	905.25	380.88	2.38	PASS
11220.00†	7142.87	618.85	-3486.71	11301.02	7151.37	1525.05	-3465.52	90.54	906.49	389.98	2.33	PASS
11320.00†	7142.56	619.95	-3586.71	11401.01	7151.13	1527.40	-3565.48	90.54	907.73	399.08	2.28	PASS
11420.00†	7142.26	621.05	-3686.70	11501.01	7150.89	1529.74	-3665.45	90.54	908.97	408.20	2.23	PASS
11520.00†	7141.95	622.15	-3786.69	11601.00	7150.65	1532.08	-3765.41	90.55	910.21	417.32	2.18	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 32C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32C-2-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#13 GREELEY-ROTHER FEDERAL 32C-2-L (1163'FSL & 295'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 32C-2-L Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11620.00†	7141.64	623.25	-3886.69	11700.99	7150.41	1534.42	-3865.37	90.55	911.46	426.44	2.14	PASS
11720.00†	7141.33	624.35	-3986.68	11800.98	7150.17	1536.76	-3965.34	90.55	912.70	435.57	2.10	PASS
11820.00†	7141.03	625.45	-4086.67	11900.98	7149.93	1539.10	-4065.30	90.56	913.94	444.71	2.06	PASS
11920.00†	7140.72	626.55	-4186.67	12000.97	7149.69	1541.44	-4165.27	90.56	915.18	453.85	2.02	PASS
12020.00†	7140.41	627.66	-4286.66	12100.96	7149.45	1543.78	-4265.23	90.56	916.42	463.00	1.98	PASS
12120.00†	7140.11	628.76	-4386.66	12200.95	7149.21	1546.12	-4365.20	90.57	917.66	472.15	1.95	PASS
12220.00†	7139.80	629.86	-4486.65	12300.94	7148.97	1548.46	-4465.16	90.57	918.90	481.30	1.91	PASS
12320.00†	7139.49	630.96	-4586.64	12400.94	7148.73	1550.80	-4565.13	90.57	920.14	490.46	1.88	PASS
12420.00†	7139.19	632.06	-4686.64	12500.93	7148.49	1553.14	-4665.09	90.58	921.38	499.62	1.85	PASS
12520.00†	7138.88	633.16	-4786.63	12600.92	7148.25	1555.48	-4765.06	90.58	922.63	508.79	1.81	PASS
12620.00†	7138.57	634.26	-4886.62	12700.91	7148.01	1557.82	-4865.02	90.58	923.87	517.96	1.78	PASS
12720.00†	7138.26	635.36	-4986.62	12800.91	7147.77	1560.16	-4964.99	90.59	925.11	527.13	1.76	PASS
12820.00†	7137.96	636.46	-5086.61	12900.90	7147.53	1562.50	-5064.95	90.59	926.35	536.31	1.73	PASS
12920.00†	7137.65	637.56	-5186.60	13000.89	7147.29	1564.84	-5164.91	90.59	927.59	545.49	1.70	PASS
13020.00†	7137.34	638.66	-5286.60	13100.88	7147.06	1567.19	-5264.88	90.60	928.83	554.67	1.68	PASS
13120.00†	7137.04	639.76	-5386.59	13200.87	7146.82	1569.53	-5364.84	90.60	930.07	563.85	1.65	PASS
13220.00†	7136.73	640.86	-5486.58	13300.87	7146.58	1571.87	-5464.81	90.60	931.31	573.04	1.63	PASS
13320.00†	7136.42	641.96	-5586.58	13400.86	7146.34	1574.21	-5564.77	90.61	932.55	582.23	1.60	PASS
13420.00†	7136.12	643.06	-5686.57	13500.85	7146.10	1576.55	-5664.74	90.61	933.80	591.42	1.58	PASS
13520.00†	7135.81	644.16	-5786.56	13600.84	7145.86	1578.89	-5764.70	90.61	935.04	600.61	1.56	PASS
13620.00†	7135.50	645.26	-5886.56	13700.84	7145.62	1581.23	-5864.67	90.62	936.28	609.81	1.54	PASS
13720.00†	7135.19	646.36	-5986.55	13800.83	7145.38	1583.57	-5964.63	90.62	937.52	619.01	1.52	PASS
13820.00†	7134.89	647.46	-6086.54	13900.82	7145.14	1585.91	-6064.60	90.62	938.76	628.21	1.49	PASS
13920.00†	7134.58	648.56	-6186.54	14000.81	7144.90	1588.25	-6164.56	90.63	940.00	637.41	1.48	PASS
14020.00†	7134.27	649.66	-6286.53	14100.81	7144.66	1590.59	-6264.53	90.63	941.24	646.61	1.46	PASS
14120.00†	7133.97	650.76	-6386.52	14200.80	7144.42	1592.93	-6364.49	90.63	942.48	655.81	1.44	PASS
14220.00†	7133.66	651.86	-6486.52	14300.79	7144.18	1595.27	-6464.45	90.64	943.73	665.02	1.42	PASS
14320.00†	7133.35	652.96	-6586.51	14400.78	7143.94	1597.61	-6564.42	90.64	944.97	674.23	1.40	PASS
14420.00†	7133.05	654.06	-6686.51	14500.77	7143.70	1599.95	-6664.38	90.64	946.21	683.43	1.38	PASS
14520.00†	7132.74	655.17	-6786.50	14600.77	7143.46	1602.29	-6764.35	90.65	947.45	692.64	1.37	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHE FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHE FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHE FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHE FEDERAL 32C-2-L PWB Offset Wellpath: GREELEY-ROTHE FEDERAL 32C-2-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#13 GREELEY-ROTHE FEDERAL 32C-2-L (1163'FSL & 295'FEL, SEC.01) Well: GREELEY-ROTHE FEDERAL 32C-2-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14620.00†	7132.43	656.27	-6886.49	14700.76	7143.22	1604.63	-6864.31	90.65	948.69	701.86	1.35	PASS
14720.00†	7132.12	657.37	-6986.49	14800.75	7142.98	1606.98	-6964.28	90.65	949.93	711.07	1.34	PASS
14820.00†	7131.82	658.47	-7086.48	14900.74	7142.74	1609.32	-7064.24	90.66	951.17	720.28	1.32	PASS
14920.00†	7131.51	659.57	-7186.47	15000.74	7142.50	1611.66	-7164.21	90.66	952.41	729.50	1.31	PASS
15020.00†	7131.20	660.67	-7286.47	15100.73	7142.26	1614.00	-7264.17	90.66	953.65	738.71	1.29	PASS
15120.00†	7130.90	661.77	-7386.46	15200.72	7142.02	1616.34	-7364.14	90.67	954.90	747.93	1.28	PASS
15220.00†	7130.59	662.87	-7486.45	15300.71	7141.78	1618.68	-7464.10	90.67	956.14	757.15	1.26	PASS
15320.00†	7130.28	663.97	-7586.45	15400.70	7141.54	1621.02	-7564.06	90.67	957.38	766.37	1.25	PASS
15420.00†	7129.98	665.07	-7686.44	15500.70	7141.30	1623.36	-7664.03	90.68	958.62	775.59	1.24	PASS
15520.00†	7129.67	666.17	-7786.43	15600.69	7141.06	1625.70	-7763.99	90.68	959.86	784.81	1.22	PASS
15620.00†	7129.36	667.27	-7886.43	15700.68	7140.82	1628.04	-7863.96	90.68	961.10	794.03	1.21	PASS
15720.00†	7129.05	668.37	-7986.42	15800.67	7140.58	1630.38	-7963.92	90.68	962.34	803.26	1.20	PASS
15820.00†	7128.75	669.47	-8086.41	15900.67	7140.34	1632.72	-8063.89	90.69	963.58	812.48	1.19	PASS
15920.00†	7128.44	670.57	-8186.41	16000.66	7140.10	1635.06	-8163.85	90.69	964.83	821.70	1.17	PASS
16020.00†	7128.13	671.67	-8286.40	16100.65	7139.86	1637.40	-8263.82	90.69	966.07	830.93	1.16	PASS
16120.00†	7127.83	672.77	-8386.39	16200.64	7139.62	1639.74	-8363.78	90.70	967.31	840.16	1.15	PASS
16220.00†	7127.52	673.87	-8486.39	16300.64	7139.38	1642.08	-8463.75	90.70	968.55	849.38	1.14	PASS
16320.00†	7127.21	674.97	-8586.38	16400.63	7139.14	1644.42	-8563.71	90.70	969.79	858.61	1.13	PASS
16420.00†	7126.90	676.07	-8686.37	16500.62	7138.90	1646.77	-8663.68	90.71	971.03	867.84	1.12	PASS
16520.00†	7126.60	677.17	-8786.37	16600.61	7138.66	1649.11	-8763.64	90.71	972.27	877.07	1.11	PASS
16620.00†	7126.29	678.27	-8886.36	16700.60	7138.42	1651.45	-8863.60	90.71	973.51	886.30	1.10	PASS
16720.00†	7125.98	679.37	-8986.36	16800.60	7138.18	1653.79	-8963.57	90.72	974.76	895.53	1.09	PASS
16820.00†	7125.68	680.47	-9086.35	16900.59	7137.94	1656.13	-9063.53	90.72	976.00	904.76	1.08	PASS
16920.00†	7125.37	681.57	-9186.34	17000.58	7137.70	1658.47	-9163.50	90.72	977.24	913.99	1.07	PASS
17020.00†	7125.06	682.68	-9286.34	17100.57	7137.46	1660.81	-9263.46	90.72	978.48	923.22	1.06	PASS
17120.00†	7124.76	683.78	-9386.33	17200.57	7137.22	1663.15	-9363.43	90.73	979.72	932.46	1.05	PASS
17220.00†	7124.45	684.88	-9486.32	17292.78	7137.00	1665.31	-9455.62	90.73	980.99	941.28	1.04	PASS
17320.00†	7124.14	685.98	-9586.32	17292.78	7137.00	1665.31	-9455.62	90.73	988.10	940.07	1.05	PASS
17366.24	7124.00	686.49	-9632.55	17292.78	7137.00	1665.31	-9455.62	90.73	994.77	936.35	1.06	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## POSITIONAL UNCERTAINTY - Offset Wellbore: GREELEY-ROTHER FEDERAL 32C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32C-2-L PWP (REV-A.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## HOLE & CASING SECTIONS - Offset Wellbore: GREELEY-ROTHER FEDERAL 32C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32C-2-L PWP (REV-A.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	20.00	1750.00	1730.00	21.00	1720.55	48.67	-0.66	121.70	45.59
9.625in Casing Surface	20.00	1750.00	1730.00	21.00	1720.55	48.67	-0.66	121.70	45.59
8.5in Open Hole	1750.00	17292.78	15542.78	1720.55	7137.00	121.70	45.59	531.92	-2882.40

## SURVEY PROGRAM - Offset Wellbore: GREELEY-ROTHER FEDERAL 32C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32C-2-L PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	1750.00	Custom BHI NaviTrak (IFR1, Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 32C-2-L PWB
1750.00	17292.78	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 32C-2-L PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: GREELEY-ROTHER FEDERAL 32C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 32C-2-L PWP (REV-A.0)

MD Reference: PRECISION 462 (20') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	20.00ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 13N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#21 GREELEY-ROTHER FEDERAL 13N-2B-L (1003'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 13N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	21.00	20.00	-80.15	1.16	179.17	80.16	1.57	131.63	PASS
120.00†	120.00	0.00	0.00	121.00	120.00	-80.15	1.16	179.17	80.16	1.88	85.98	PASS
220.00†	220.00	0.00	0.00	221.00	220.00	-80.15	1.16	179.17	80.16	2.45	53.23	PASS
320.00†	320.00	0.00	0.00	321.00	320.00	-80.15	1.16	179.17	80.16	3.05	37.89	PASS
400.00	400.00	0.00	0.00	401.00	400.00	-80.15	1.16	179.17	80.16	3.54	30.70	PASS
420.00†	420.00	0.04	0.06	421.00	420.00	-80.15	1.16	122.60	80.19	3.66	29.33	PASS
520.00†	519.96	1.38	2.10	520.96	519.96	-80.15	1.16	124.02	81.54	4.36	23.75	PASS
620.00†	619.78	4.65	7.05	620.69	619.69	-80.17	1.23	127.22	85.01	5.25	19.62	PASS
720.00†	719.33	9.82	14.91	719.99	718.96	-80.70	3.61	130.30	91.23	6.14	17.45	PASS
820.00†	818.50	16.91	25.66	819.26	818.04	-82.00	9.34	132.42	100.25	7.03	16.38	PASS
851.46	849.59	19.53	29.64	850.46	849.14	-82.56	11.83	132.89	103.64	7.29	16.23	PASS
920.00†	917.28	25.45	38.62	918.44	916.79	-84.05	18.40	133.46	111.36	7.77	16.21	PASS
1020.00†	1016.05	34.09	51.73	1017.60	1015.12	-86.86	30.79	132.80	122.74	8.52	16.12	PASS
1120.00†	1114.81	42.72	64.83	1116.89	1113.37	-90.04	44.85	131.52	134.26	9.33	15.93	PASS
1220.00†	1213.57	51.36	77.94	1216.19	1211.61	-93.22	58.90	130.44	145.84	10.20	15.68	PASS
1320.00†	1312.33	59.99	91.04	1315.48	1309.85	-96.40	72.95	129.52	157.45	11.11	15.42	PASS
1420.00†	1411.09	68.63	104.15	1414.78	1408.10	-99.58	87.00	128.73	169.10	12.07	15.14	PASS
1520.00†	1509.85	77.26	117.25	1514.07	1506.34	-102.76	101.05	128.04	180.78	13.02	14.92	PASS
1620.00†	1608.61	85.90	130.36	1613.36	1604.58	-105.94	115.10	127.43	192.49	14.00	14.69	PASS
1720.00†	1707.37	94.53	143.46	1712.66	1702.82	-109.12	129.16	126.90	204.21	15.00	14.48	PASS
1820.00†	1806.13	103.17	156.56	1811.95	1801.07	-112.30	143.21	126.42	215.94	15.29	14.76	PASS
1920.00†	1904.89	111.80	169.67	1911.24	1899.31	-115.48	157.26	125.99	227.69	15.41	15.44	PASS
2020.00†	2003.65	120.44	182.77	2010.54	1997.55	-118.66	171.31	125.60	239.45	15.60	16.04	PASS
2120.00†	2102.41	129.07	195.88	2109.83	2095.79	-121.85	185.36	125.25	251.22	15.86	16.53	PASS
2220.00†	2201.18	137.71	208.98	2209.12	2194.04	-125.03	199.41	124.93	263.00	16.20	16.93	PASS
2320.00†	2299.94	146.34	222.09	2308.42	2292.28	-128.21	213.47	124.64	274.79	16.61	17.23	PASS
2420.00†	2398.70	154.98	235.19	2407.71	2390.52	-131.39	227.52	124.37	286.58	17.09	17.45	PASS
2520.00†	2497.46	163.61	248.29	2507.01	2488.77	-134.57	241.57	124.12	298.38	17.62	17.60	PASS
2620.00†	2596.22	172.25	261.40	2606.30	2587.01	-137.75	255.62	123.90	310.19	18.21	17.68	PASS
2720.00†	2694.98	180.88	274.50	2705.59	2685.25	-140.93	269.67	123.68	322.00	18.85	17.71	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 13N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#21 GREELEY-ROTHER FEDERAL 13N-2B-L (1003'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 13N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2804.89	2783.49	-144.11	283.72	123.49	333.81	19.54	17.69	PASS
2920.00†	2892.50	198.15	300.71	2904.18	2881.74	-147.29	297.78	123.31	345.62	20.26	17.64	PASS
3020.00†	2991.26	206.79	313.82	3003.47	2979.98	-150.47	311.83	123.13	357.44	21.02	17.56	PASS
3120.00†	3090.02	215.42	326.92	3102.77	3078.22	-153.65	325.88	122.97	369.27	21.81	17.47	PASS
3220.00†	3188.78	224.06	340.03	3202.06	3176.47	-156.83	339.93	122.82	381.09	22.63	17.35	PASS
3320.00†	3287.55	232.69	353.13	3301.35	3274.71	-160.01	353.98	122.68	392.92	23.47	17.23	PASS
3420.00†	3386.31	241.33	366.23	3400.65	3372.95	-163.20	368.03	122.55	404.75	24.34	17.10	PASS
3520.00†	3485.07	249.96	379.34	3499.94	3471.19	-166.38	382.09	122.43	416.58	25.22	16.96	PASS
3620.00†	3583.83	258.60	392.44	3599.24	3569.44	-169.56	396.14	122.31	428.41	26.13	16.83	PASS
3720.00†	3682.59	267.23	405.55	3698.53	3667.68	-172.74	410.19	122.20	440.25	27.05	16.69	PASS
3820.00†	3781.35	275.87	418.65	3797.82	3765.92	-175.92	424.24	122.09	452.08	27.98	16.55	PASS
3920.00†	3880.11	284.50	431.76	3897.12	3864.17	-179.10	438.29	121.99	463.92	28.93	16.41	PASS
4020.00†	3978.87	293.14	444.86	3996.41	3962.41	-182.28	452.35	121.89	475.76	29.89	16.28	PASS
4120.00†	4077.63	301.77	457.97	4095.70	4060.65	-185.46	466.40	121.80	487.60	30.86	16.15	PASS
4220.00†	4176.39	310.41	471.07	4195.00	4158.89	-188.64	480.45	121.72	499.44	31.84	16.02	PASS
4320.00†	4275.15	319.04	484.17	4294.29	4257.14	-191.82	494.50	121.63	511.29	32.82	15.90	PASS
4420.00†	4373.91	327.68	497.28	4393.58	4355.38	-195.00	508.55	121.55	523.13	33.82	15.78	PASS
4520.00†	4472.68	336.31	510.38	4492.88	4453.62	-198.18	522.60	121.48	534.98	34.82	15.66	PASS
4620.00†	4571.44	344.95	523.49	4592.17	4551.87	-201.37	536.66	121.41	546.82	35.83	15.55	PASS
4720.00†	4670.20	353.58	536.59	4691.46	4650.11	-204.55	550.71	121.34	558.67	36.85	15.44	PASS
4820.00†	4768.96	362.22	549.70	4790.76	4748.35	-207.73	564.76	121.27	570.52	37.87	15.33	PASS
4920.00†	4867.72	370.85	562.80	4890.05	4846.59	-210.91	578.81	121.21	582.36	38.90	15.23	PASS
5020.00†	4966.48	379.49	575.91	4989.35	4944.84	-214.09	592.86	121.15	594.21	39.93	15.13	PASS
5120.00†	5065.24	388.12	589.01	5088.64	5043.08	-217.27	606.91	121.09	606.06	40.97	15.04	PASS
5220.00†	5164.00	396.76	602.11	5187.93	5141.32	-220.45	620.97	121.03	617.91	42.01	14.94	PASS
5320.00†	5262.76	405.39	615.22	5287.23	5239.57	-223.63	635.02	120.98	629.76	43.05	14.85	PASS
5420.00†	5361.52	414.03	628.32	5386.52	5337.81	-226.81	649.07	120.93	641.61	44.10	14.77	PASS
5520.00†	5460.28	422.66	641.43	5485.81	5436.05	-229.99	663.12	120.87	653.47	45.15	14.69	PASS
5620.00†	5559.05	431.30	654.53	5585.11	5534.29	-233.17	677.17	120.83	665.32	46.21	14.61	PASS
5720.00†	5657.81	439.93	667.64	5684.40	5632.54	-236.35	691.22	120.78	677.17	47.27	14.53	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 13N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#21 GREELEY-ROTHER FEDERAL 13N-2B-L (1003'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 13N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5783.69	5730.78	-239.53	705.28	120.73	689.02	48.33	14.46	PASS
5920.00†	5855.33	457.20	693.85	5882.99	5829.02	-242.72	719.33	120.69	700.88	49.39	14.38	PASS
6020.00†	5954.09	465.84	706.95	5982.28	5927.27	-245.90	733.38	120.65	712.73	50.45	14.31	PASS
6120.00†	6052.85	474.47	720.05	6081.58	6025.51	-249.08	747.43	120.61	724.58	51.52	14.25	PASS
6220.00†	6151.61	483.11	733.16	6180.87	6123.75	-252.26	761.48	120.57	736.44	52.59	14.18	PASS
6320.00†	6250.37	491.74	746.26	6280.16	6221.99	-255.44	775.53	120.53	748.29	53.66	14.12	PASS
6420.00†	6349.13	500.38	759.37	6382.64	6323.82	-258.74	785.82	120.81	760.00	54.84	14.03	PASS
6509.39	6437.41	508.10	771.08	6472.69	6413.66	-261.65	781.85	122.02	770.19	55.38	14.07	PASS
6520.00†	6447.90	509.02	772.38	6483.06	6423.95	-261.99	780.58	126.04	771.42	56.25	13.88	PASS
6620.00†	6547.35	517.82	776.00	6578.82	6517.54	-265.03	760.97	-153.26	783.56	57.76	13.72	PASS
6720.00†	6646.11	526.74	763.96	6671.41	6604.25	-267.85	728.88	-110.59	796.46	59.14	13.62	PASS
6820.00†	6741.77	535.55	736.55	6761.33	6683.16	-270.42	685.99	-98.23	809.68	60.52	13.53	PASS
6920.00†	6831.97	544.05	694.45	6849.02	6753.55	-272.72	633.86	-91.87	822.76	61.71	13.48	PASS
7020.00†	6914.48	552.02	638.70	6934.88	6814.91	-274.73	573.92	-87.66	835.24	63.57	13.28	PASS
7120.00†	6987.27	559.26	570.67	7019.27	6866.82	-276.44	507.49	-84.58	846.69	65.85	12.99	PASS
7220.00†	7048.56	565.59	492.04	7102.49	6908.98	-277.83	435.83	-82.25	856.74	68.82	12.57	PASS
7320.00†	7096.83	570.87	404.74	7184.81	6941.15	-278.90	360.12	-80.52	865.06	72.42	12.05	PASS
7420.00†	7130.89	574.96	310.91	7266.49	6963.16	-279.64	281.53	-79.32	871.40	76.20	11.53	PASS
7520.00†	7149.90	577.75	212.88	7347.74	6974.90	-280.05	201.18	-78.59	875.55	81.01	10.89	PASS
7594.38	7154.00	578.96	138.67	7409.39	6976.97	-280.14	139.59	-78.35	877.14	84.51	10.46	PASS
7620.00†	7153.92	579.24	113.05	7435.00	6976.86	-280.14	113.98	-78.36	877.43	85.89	10.29	PASS
7720.00†	7153.61	580.34	13.06	7535.00	6976.44	-280.16	13.98	-78.36	878.55	91.56	9.66	PASS
7820.00†	7153.31	581.44	-86.94	7634.99	6976.02	-280.18	-86.01	-78.37	879.67	97.75	9.06	PASS
7920.00†	7153.00	582.54	-186.93	7734.98	6975.60	-280.21	-186.00	-78.38	880.80	104.37	8.49	PASS
8020.00†	7152.69	583.64	-286.92	7834.98	6975.17	-280.23	-286.00	-78.39	881.92	111.33	7.97	PASS
8120.00†	7152.39	584.74	-386.92	7934.97	6974.75	-280.25	-385.99	-78.39	883.04	118.58	7.49	PASS
8220.00†	7152.08	585.84	-486.91	8034.97	6974.33	-280.27	-485.98	-78.40	884.16	126.07	7.05	PASS
8320.00†	7151.77	586.94	-586.90	8134.96	6973.91	-280.29	-585.97	-78.41	885.28	133.76	6.65	PASS
8420.00†	7151.47	588.04	-686.90	8234.95	6973.49	-280.31	-685.97	-78.41	886.40	141.62	6.29	PASS
8520.00†	7151.16	589.14	-786.89	8334.95	6973.06	-280.33	-785.96	-78.42	887.52	149.61	5.96	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 13N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#21 GREELEY-ROTHER FEDERAL 13N-2B-L (1003'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 13N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	8434.94	6972.64	-280.35	-885.95	-78.43	888.64	157.72	5.66	PASS
8720.00†	7150.54	591.34	-986.88	8534.93	6972.22	-280.37	-985.94	-78.44	889.77	165.93	5.38	PASS
8820.00†	7150.24	592.44	-1086.87	8634.93	6971.80	-280.39	-1085.94	-78.44	890.89	174.22	5.13	PASS
8920.00†	7149.93	593.54	-1186.86	8734.92	6971.38	-280.41	-1185.93	-78.45	892.01	182.59	4.90	PASS
9020.00†	7149.62	594.64	-1286.86	8834.91	6970.96	-280.43	-1285.92	-78.46	893.13	191.03	4.69	PASS
9120.00†	7149.32	595.74	-1386.85	8934.91	6970.53	-280.45	-1385.92	-78.47	894.25	199.52	4.49	PASS
9220.00†	7149.01	596.84	-1486.84	9034.90	6970.11	-280.47	-1485.91	-78.47	895.37	208.07	4.31	PASS
9320.00†	7148.70	597.94	-1586.84	9134.90	6969.69	-280.50	-1585.90	-78.48	896.49	216.65	4.15	PASS
9420.00†	7148.40	599.04	-1686.83	9234.89	6969.27	-280.52	-1685.89	-78.49	897.62	225.28	3.99	PASS
9520.00†	7148.09	600.15	-1786.82	9334.88	6968.85	-280.54	-1785.89	-78.49	898.74	233.94	3.85	PASS
9620.00†	7147.78	601.25	-1886.82	9434.88	6968.42	-280.56	-1885.88	-78.50	899.86	242.63	3.72	PASS
9720.00†	7147.47	602.35	-1986.81	9534.87	6968.00	-280.58	-1985.87	-78.51	900.98	251.35	3.59	PASS
9820.00†	7147.17	603.45	-2086.81	9634.86	6967.58	-280.60	-2085.86	-78.51	902.10	260.09	3.48	PASS
9920.00†	7146.86	604.55	-2186.80	9734.86	6967.16	-280.62	-2185.86	-78.52	903.22	268.86	3.37	PASS
10020.00†	7146.55	605.65	-2286.79	9834.85	6966.74	-280.64	-2285.85	-78.53	904.34	277.64	3.26	PASS
10120.00†	7146.25	606.75	-2386.79	9934.84	6966.31	-280.66	-2385.84	-78.54	905.47	286.45	3.17	PASS
10220.00†	7145.94	607.85	-2486.78	10034.84	6965.89	-280.68	-2485.84	-78.54	906.59	295.27	3.08	PASS
10320.00†	7145.63	608.95	-2586.77	10134.83	6965.47	-280.70	-2585.83	-78.55	907.71	304.11	2.99	PASS
10420.00†	7145.33	610.05	-2686.77	10234.83	6965.05	-280.72	-2685.82	-78.56	908.83	312.96	2.91	PASS
10520.00†	7145.02	611.15	-2786.76	10334.82	6964.63	-280.74	-2785.81	-78.56	909.95	321.83	2.83	PASS
10620.00†	7144.71	612.25	-2886.75	10434.81	6964.21	-280.76	-2885.81	-78.57	911.07	330.70	2.76	PASS
10720.00†	7144.40	613.35	-2986.75	10534.81	6963.78	-280.78	-2985.80	-78.58	912.20	339.59	2.69	PASS
10820.00†	7144.10	614.45	-3086.74	10634.80	6963.36	-280.81	-3085.79	-78.58	913.32	348.49	2.62	PASS
10920.00†	7143.79	615.55	-3186.73	10734.79	6962.94	-280.83	-3185.79	-78.59	914.44	357.40	2.56	PASS
11020.00†	7143.48	616.65	-3286.73	10834.79	6962.52	-280.85	-3285.78	-78.60	915.56	366.32	2.50	PASS
11120.00†	7143.18	617.75	-3386.72	10934.78	6962.10	-280.87	-3385.77	-78.60	916.68	375.24	2.45	PASS
11220.00†	7142.87	618.85	-3486.71	11034.77	6961.67	-280.89	-3485.76	-78.61	917.80	384.18	2.39	PASS
11320.00†	7142.56	619.95	-3586.71	11134.77	6961.25	-280.91	-3585.76	-78.62	918.93	393.12	2.34	PASS
11420.00†	7142.26	621.05	-3686.70	11234.76	6960.83	-280.93	-3685.75	-78.62	920.05	402.06	2.29	PASS
11520.00†	7141.95	622.15	-3786.69	11334.76	6960.41	-280.95	-3785.74	-78.63	921.17	411.02	2.24	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 13N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#21 GREELEY-ROTHER FEDERAL 13N-2B-L (1003'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 13N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11620.00†	7141.64	623.25	-3886.69	11434.75	6959.99	-280.97	-3885.73	-78.64	922.29	419.98	2.20	PASS
11720.00†	7141.33	624.35	-3986.68	11534.74	6959.56	-280.99	-3985.73	-78.65	923.41	428.94	2.15	PASS
11820.00†	7141.03	625.45	-4086.67	11634.74	6959.14	-281.01	-4085.72	-78.65	924.53	437.91	2.11	PASS
11920.00†	7140.72	626.55	-4186.67	11734.73	6958.72	-281.03	-4185.71	-78.66	925.66	446.89	2.07	PASS
12020.00†	7140.41	627.66	-4286.66	11834.72	6958.30	-281.05	-4285.71	-78.67	926.78	455.87	2.03	PASS
12120.00†	7140.11	628.76	-4386.66	11934.72	6957.88	-281.07	-4385.70	-78.67	927.90	464.85	2.00	PASS
12220.00†	7139.80	629.86	-4486.65	12034.71	6957.45	-281.10	-4485.69	-78.68	929.02	473.84	1.96	PASS
12320.00†	7139.49	630.96	-4586.64	12134.71	6957.03	-281.12	-4585.68	-78.69	930.14	482.84	1.93	PASS
12420.00†	7139.19	632.06	-4686.64	12234.70	6956.61	-281.14	-4685.68	-78.69	931.27	491.83	1.89	PASS
12520.00†	7138.88	633.16	-4786.63	12334.69	6956.19	-281.16	-4785.67	-78.70	932.39	500.84	1.86	PASS
12620.00†	7138.57	634.26	-4886.62	12434.69	6955.77	-281.18	-4885.66	-78.70	933.51	509.84	1.83	PASS
12720.00†	7138.26	635.36	-4986.62	12534.68	6955.35	-281.20	-4985.65	-78.71	934.63	518.85	1.80	PASS
12820.00†	7137.96	636.46	-5086.61	12634.67	6954.92	-281.22	-5085.65	-78.72	935.75	527.86	1.77	PASS
12920.00†	7137.65	637.56	-5186.60	12734.67	6954.50	-281.24	-5185.64	-78.72	936.88	536.87	1.75	PASS
13020.00†	7137.34	638.66	-5286.60	12834.66	6954.08	-281.26	-5285.63	-78.73	938.00	545.89	1.72	PASS
13120.00†	7137.04	639.76	-5386.59	12934.65	6953.66	-281.28	-5385.63	-78.74	939.12	554.91	1.69	PASS
13220.00†	7136.73	640.86	-5486.58	13034.65	6953.24	-281.30	-5485.62	-78.74	940.24	563.93	1.67	PASS
13320.00†	7136.42	641.96	-5586.58	13134.64	6952.81	-281.32	-5585.61	-78.75	941.36	572.95	1.64	PASS
13420.00†	7136.12	643.06	-5686.57	13234.64	6952.39	-281.34	-5685.60	-78.76	942.49	581.98	1.62	PASS
13520.00†	7135.81	644.16	-5786.56	13334.63	6951.97	-281.36	-5785.60	-78.76	943.61	591.01	1.60	PASS
13620.00†	7135.50	645.26	-5886.56	13434.62	6951.55	-281.38	-5885.59	-78.77	944.73	600.04	1.58	PASS
13720.00†	7135.19	646.36	-5986.55	13534.62	6951.13	-281.41	-5985.58	-78.78	945.85	609.07	1.55	PASS
13820.00†	7134.89	647.46	-6086.54	13634.61	6950.70	-281.43	-6085.58	-78.78	946.97	618.11	1.53	PASS
13920.00†	7134.58	648.56	-6186.54	13734.60	6950.28	-281.45	-6185.57	-78.79	948.10	627.15	1.51	PASS
14020.00†	7134.27	649.66	-6286.53	13834.60	6949.86	-281.47	-6285.56	-78.80	949.22	636.19	1.49	PASS
14120.00†	7133.97	650.76	-6386.52	13934.59	6949.44	-281.49	-6385.55	-78.80	950.34	645.23	1.47	PASS
14220.00†	7133.66	651.86	-6486.52	14034.58	6949.02	-281.51	-6485.55	-78.81	951.46	654.27	1.45	PASS
14320.00†	7133.35	652.96	-6586.51	14134.58	6948.60	-281.53	-6585.54	-78.81	952.58	663.32	1.44	PASS
14420.00†	7133.05	654.06	-6686.51	14234.57	6948.17	-281.55	-6685.53	-78.82	953.71	672.36	1.42	PASS
14520.00†	7132.74	655.17	-6786.50	14334.57	6947.75	-281.57	-6785.52	-78.83	954.83	681.41	1.40	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 13N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#21 GREELEY-ROTHER FEDERAL 13N-2B-L (1003'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 13N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14620.00†	7132.43	656.27	-6886.49	14434.56	6947.33	-281.59	-6885.52	-78.83	955.95	690.46	1.38	PASS
14720.00†	7132.12	657.37	-6986.49	14534.55	6946.91	-281.61	-6985.51	-78.84	957.07	699.51	1.37	PASS
14820.00†	7131.82	658.47	-7086.48	14634.55	6946.49	-281.63	-7085.50	-78.85	958.19	708.57	1.35	PASS
14920.00†	7131.51	659.57	-7186.47	14734.54	6946.06	-281.65	-7185.50	-78.85	959.32	717.62	1.34	PASS
15020.00†	7131.20	660.67	-7286.47	14834.53	6945.64	-281.67	-7285.49	-78.86	960.44	726.68	1.32	PASS
15120.00†	7130.90	661.77	-7386.46	14934.53	6945.22	-281.70	-7385.48	-78.86	961.56	735.73	1.31	PASS
15220.00†	7130.59	662.87	-7486.45	15034.52	6944.80	-281.72	-7485.47	-78.87	962.68	744.79	1.29	PASS
15320.00†	7130.28	663.97	-7586.45	15134.51	6944.38	-281.74	-7585.47	-78.88	963.80	753.85	1.28	PASS
15420.00†	7129.98	665.07	-7686.44	15234.51	6943.95	-281.76	-7685.46	-78.88	964.93	762.91	1.27	PASS
15520.00†	7129.67	666.17	-7786.43	15334.50	6943.53	-281.78	-7785.45	-78.89	966.05	771.97	1.25	PASS
15620.00†	7129.36	667.27	-7886.43	15434.50	6943.11	-281.80	-7885.44	-78.89	967.17	781.04	1.24	PASS
15720.00†	7129.05	668.37	-7986.42	15534.49	6942.69	-281.82	-7985.44	-78.90	968.29	790.10	1.23	PASS
15820.00†	7128.75	669.47	-8086.41	15634.48	6942.27	-281.84	-8085.43	-78.91	969.42	799.17	1.21	PASS
15920.00†	7128.44	670.57	-8186.41	15734.48	6941.84	-281.86	-8185.42	-78.91	970.54	808.23	1.20	PASS
16020.00†	7128.13	671.67	-8286.40	15834.47	6941.42	-281.88	-8285.42	-78.92	971.66	817.30	1.19	PASS
16120.00†	7127.83	672.77	-8386.39	15934.46	6941.00	-281.90	-8385.41	-78.93	972.78	826.37	1.18	PASS
16220.00†	7127.52	673.87	-8486.39	16034.46	6940.58	-281.92	-8485.40	-78.93	973.91	835.44	1.17	PASS
16320.00†	7127.21	674.97	-8586.38	16134.45	6940.16	-281.94	-8585.39	-78.94	975.03	844.51	1.15	PASS
16420.00†	7126.90	676.07	-8686.37	16234.44	6939.74	-281.96	-8685.39	-78.94	976.15	853.58	1.14	PASS
16520.00†	7126.60	677.17	-8786.37	16334.44	6939.31	-281.98	-8785.38	-78.95	977.27	862.65	1.13	PASS
16620.00†	7126.29	678.27	-8886.36	16434.43	6938.89	-282.01	-8885.37	-78.96	978.39	871.72	1.12	PASS
16720.00†	7125.98	679.37	-8986.36	16534.43	6938.47	-282.03	-8985.37	-78.96	979.52	880.80	1.11	PASS
16820.00†	7125.68	680.47	-9086.35	16634.42	6938.05	-282.05	-9085.36	-78.97	980.64	889.87	1.10	PASS
16920.00†	7125.37	681.57	-9186.34	16734.41	6937.63	-282.07	-9185.35	-78.97	981.76	898.95	1.09	PASS
17020.00†	7125.06	682.68	-9286.34	16834.41	6937.20	-282.09	-9285.34	-78.98	982.88	908.03	1.08	PASS
17120.00†	7124.76	683.78	-9386.33	16934.40	6936.78	-282.11	-9385.34	-78.98	984.01	917.10	1.07	PASS
17220.00†	7124.45	684.88	-9486.32	17034.39	6936.36	-282.13	-9485.33	-78.99	985.13	926.18	1.06	PASS
17320.00†	7124.14	685.98	-9586.32	17134.39	6935.94	-282.15	-9585.32	-79.00	986.25	935.26	1.05	PASS
17366.24	7124.00	686.49	-9632.55	17180.63	6935.74	-282.16	-9631.56	-79.00	986.77	939.46	1.05	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## POSITIONAL UNCERTAINTY - Offset Wellbore: GREELEY-ROTHER FEDERAL 13N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13N-2B-L PWP (REV-A.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## HOLE & CASING SECTIONS - Offset Wellbore: GREELEY-ROTHER FEDERAL 13N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13N-2B-L PWP (REV-A.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	20.00	1750.00	1730.00	19.00	1739.77	-48.86	0.71	-58.05	41.33
9.625in Casing Surface	20.00	1750.00	1730.00	19.00	1739.77	-48.86	0.71	-58.05	41.33
8.5in Open Hole	1750.00	17356.82	15606.82	1739.77	N/A	-58.05	41.33	N/A	N/A

## SURVEY PROGRAM - Offset Wellbore: GREELEY-ROTHER FEDERAL 13N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13N-2B-L PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	1750.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 13N-2B-L PWB
1750.00	17356.82	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 13N-2B-L PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: GREELEY-ROTHER FEDERAL 13N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13N-2B-L PWP (REV-A.0)

MD Reference: PRECISION 462 (20') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	20.00ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHE FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHE FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHE FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHE FEDERAL 13N-2C-L PWB Offset Wellpath: GREELEY-ROTHE FEDERAL 13N-2C-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#22 GREELEY-ROTHE FEDERAL 13N-2C-L (983'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHE FEDERAL 13N-2C-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	21.00	20.00	-100.19	1.39	179.20	100.20	1.57	164.93	PASS
120.00†	120.00	0.00	0.00	121.00	120.00	-100.19	1.39	179.20	100.20	1.88	107.70	PASS
220.00†	220.00	0.00	0.00	221.00	220.00	-100.19	1.39	179.20	100.20	2.45	66.67	PASS
320.00†	320.00	0.00	0.00	321.00	320.00	-100.19	1.39	179.20	100.20	3.05	47.46	PASS
400.00	400.00	0.00	0.00	401.00	400.00	-100.19	1.39	179.20	100.20	3.54	38.46	PASS
420.00†	420.00	0.04	0.06	421.00	420.00	-100.19	1.39	122.62	100.23	3.67	36.74	PASS
520.00†	519.96	1.38	2.10	520.96	519.96	-100.19	1.39	123.76	101.57	4.36	29.66	PASS
620.00†	619.78	4.65	7.05	620.78	619.78	-100.19	1.39	126.39	104.98	5.24	24.33	PASS
720.00†	719.33	9.82	14.91	719.85	718.85	-100.44	2.21	129.76	110.99	6.12	21.32	PASS
820.00†	818.50	16.91	25.66	818.65	817.55	-101.64	6.14	132.38	120.15	7.02	19.68	PASS
851.46	849.59	19.53	29.64	849.71	848.55	-102.22	8.05	133.03	123.66	7.28	19.42	PASS
920.00†	917.28	25.45	38.62	917.40	916.01	-103.83	13.32	134.04	131.74	7.76	19.24	PASS
1020.00†	1016.05	34.09	51.73	1016.18	1014.18	-107.02	23.74	134.16	143.86	8.49	18.99	PASS
1120.00†	1114.81	42.72	64.83	1115.11	1112.14	-111.07	36.99	133.18	156.31	9.27	18.70	PASS
1220.00†	1213.57	51.36	77.94	1214.29	1210.28	-115.24	50.64	132.20	168.85	10.11	18.35	PASS
1320.00†	1312.33	59.99	91.04	1313.46	1308.42	-119.41	64.29	131.36	181.43	11.00	17.98	PASS
1420.00†	1411.09	68.63	104.15	1412.63	1406.56	-123.59	77.94	130.63	194.04	11.92	17.63	PASS
1520.00†	1509.85	77.26	117.25	1511.80	1504.70	-127.76	91.60	129.99	206.68	12.86	17.30	PASS
1620.00†	1608.61	85.90	130.36	1610.98	1602.84	-131.93	105.25	129.42	219.35	13.82	16.98	PASS
1720.00†	1707.37	94.53	143.46	1710.15	1700.98	-136.11	118.90	128.92	232.03	14.79	16.71	PASS
1820.00†	1806.13	103.17	156.56	1809.32	1799.12	-140.28	132.55	128.46	244.73	15.08	16.98	PASS
1920.00†	1904.89	111.80	169.67	1908.50	1897.26	-144.45	146.21	128.06	257.44	15.21	17.70	PASS
2020.00†	2003.65	120.44	182.77	2007.67	1995.40	-148.63	159.86	127.69	270.16	15.40	18.34	PASS
2120.00†	2102.41	129.07	195.88	2106.84	2093.54	-152.80	173.51	127.35	282.90	15.66	18.87	PASS
2220.00†	2201.18	137.71	208.98	2206.01	2191.68	-156.97	187.16	127.04	295.64	16.01	19.28	PASS
2320.00†	2299.94	146.34	222.09	2305.19	2289.82	-161.15	200.82	126.76	308.39	16.42	19.58	PASS
2420.00†	2398.70	154.98	235.19	2404.36	2387.96	-165.32	214.47	126.50	321.15	16.90	19.79	PASS
2520.00†	2497.46	163.61	248.29	2503.53	2486.10	-169.49	228.12	126.26	333.91	17.44	19.92	PASS
2620.00†	2596.22	172.25	261.40	2602.71	2584.24	-173.67	241.77	126.04	346.68	18.03	19.97	PASS
2720.00†	2694.98	180.88	274.50	2701.88	2682.38	-177.84	255.43	125.83	359.45	18.67	19.97	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHE FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHE FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHE FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHE FEDERAL 13N-2C-L PWB Offset Wellpath: GREELEY-ROTHE FEDERAL 13N-2C-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#22 GREELEY-ROTHE FEDERAL 13N-2C-L (983'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHE FEDERAL 13N-2C-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2801.05	2780.52	-182.01	269.08	125.64	372.23	19.36	19.92	PASS
2920.00†	2892.50	198.15	300.71	2900.22	2878.66	-186.19	282.73	125.46	385.01	20.08	19.84	PASS
3020.00†	2991.26	206.79	313.82	2999.40	2976.80	-190.36	296.38	125.29	397.79	20.84	19.72	PASS
3120.00†	3090.02	215.42	326.92	3098.57	3074.94	-194.53	310.04	125.13	410.58	21.63	19.59	PASS
3220.00†	3188.78	224.06	340.03	3197.74	3173.08	-198.71	323.69	124.98	423.37	22.45	19.44	PASS
3320.00†	3287.55	232.69	353.13	3296.92	3271.22	-202.88	337.34	124.84	436.16	23.30	19.28	PASS
3420.00†	3386.31	241.33	366.23	3396.09	3369.36	-207.05	350.99	124.71	448.96	24.17	19.11	PASS
3520.00†	3485.07	249.96	379.34	3495.26	3467.50	-211.23	364.65	124.59	461.76	25.05	18.94	PASS
3620.00†	3583.83	258.60	392.44	3594.43	3565.64	-215.40	378.30	124.47	474.56	25.96	18.77	PASS
3720.00†	3682.59	267.23	405.55	3693.61	3663.78	-219.57	391.95	124.36	487.36	26.88	18.60	PASS
3820.00†	3781.35	275.87	418.65	3792.78	3761.92	-223.75	405.61	124.25	500.16	27.81	18.43	PASS
3920.00†	3880.11	284.50	431.76	3891.95	3860.06	-227.92	419.26	124.15	512.97	28.76	18.26	PASS
4020.00†	3978.87	293.14	444.86	3991.13	3958.20	-232.09	432.91	124.06	525.77	29.72	18.10	PASS
4120.00†	4077.63	301.77	457.97	4090.30	4056.34	-236.27	446.56	123.97	538.58	30.69	17.94	PASS
4220.00†	4176.39	310.41	471.07	4189.47	4154.48	-240.44	460.22	123.88	551.39	31.67	17.79	PASS
4320.00†	4275.15	319.04	484.17	4288.64	4252.62	-244.61	473.87	123.80	564.20	32.65	17.64	PASS
4420.00†	4373.91	327.68	497.28	4387.82	4350.76	-248.79	487.52	123.72	577.01	33.65	17.49	PASS
4520.00†	4472.68	336.31	510.38	4486.99	4448.90	-252.96	501.17	123.64	589.82	34.65	17.35	PASS
4620.00†	4571.44	344.95	523.49	4586.16	4547.04	-257.13	514.83	123.57	602.64	35.66	17.22	PASS
4720.00†	4670.20	353.58	536.59	4685.34	4645.18	-261.31	528.48	123.50	615.45	36.68	17.09	PASS
4820.00†	4768.96	362.22	549.70	4784.51	4743.32	-265.48	542.13	123.44	628.27	37.70	16.96	PASS
4920.00†	4867.72	370.85	562.80	4883.68	4841.46	-269.65	555.78	123.37	641.08	38.73	16.84	PASS
5020.00†	4966.48	379.49	575.91	4982.85	4939.60	-273.83	569.44	123.31	653.90	39.76	16.73	PASS
5120.00†	5065.24	388.12	589.01	5082.03	5037.74	-278.00	583.09	123.25	666.72	40.79	16.62	PASS
5220.00†	5164.00	396.76	602.11	5181.20	5135.88	-282.17	596.74	123.19	679.53	41.83	16.51	PASS
5320.00†	5262.76	405.39	615.22	5280.37	5234.02	-286.35	610.39	123.14	692.35	42.87	16.40	PASS
5420.00†	5361.52	414.03	628.32	5379.55	5332.16	-290.52	624.05	123.09	705.17	43.92	16.30	PASS
5520.00†	5460.28	422.66	641.43	5478.72	5430.30	-294.69	637.70	123.04	717.99	44.97	16.21	PASS
5620.00†	5559.05	431.30	654.53	5577.89	5528.44	-298.87	651.35	122.99	730.81	46.02	16.11	PASS
5720.00†	5657.81	439.93	667.64	5677.06	5626.58	-303.04	665.00	122.94	743.63	47.08	16.02	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 13N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13N-2C-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#22 GREELEY-ROTHER FEDERAL 13N-2C-L (983'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 13N-2C-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5776.24	5724.72	-307.21	678.66	122.89	756.45	48.14	15.93	PASS
5920.00†	5855.33	457.20	693.85	5875.41	5822.86	-311.39	692.31	122.85	769.28	49.20	15.85	PASS
6020.00†	5954.09	465.84	706.95	5974.58	5921.00	-315.56	705.96	122.81	782.10	50.26	15.77	PASS
6120.00†	6052.85	474.47	720.05	6073.76	6019.14	-319.73	719.61	122.77	794.92	51.32	15.69	PASS
6220.00†	6151.61	483.11	733.16	6172.93	6117.28	-323.91	733.27	122.72	807.74	52.39	15.62	PASS
6320.00†	6250.37	491.74	746.26	6272.10	6215.42	-328.08	746.92	122.69	820.57	53.46	15.54	PASS
6420.00†	6349.13	500.38	759.37	6371.27	6313.56	-332.25	760.57	122.65	833.39	54.53	15.47	PASS
6509.39	6437.41	508.10	771.08	6444.90	6386.69	-335.91	767.82	122.82	845.53	55.31	15.47	PASS
6520.00†	6447.90	509.02	772.38	6453.27	6395.05	-336.42	768.13	126.73	847.10	55.34	15.49	PASS
6620.00†	6547.35	517.82	776.00	6531.63	6473.11	-342.19	765.77	-153.56	863.27	56.59	15.44	PASS
6720.00†	6646.11	526.74	763.96	6609.07	6549.27	-349.54	754.18	-111.78	881.67	58.05	15.36	PASS
6820.00†	6741.77	535.55	736.55	6685.85	6622.71	-358.35	733.76	-100.20	901.80	59.12	15.43	PASS
6920.00†	6831.97	544.05	694.45	6762.26	6692.69	-368.48	704.90	-94.51	923.16	60.04	15.55	PASS
7020.00†	6914.48	552.02	638.70	6838.62	6758.51	-379.83	667.99	-90.85	945.26	61.25	15.60	PASS
7120.00†	6987.27	559.26	570.67	6915.27	6819.49	-392.28	623.33	-88.19	967.65	62.93	15.54	PASS
7220.00†	7048.56	565.59	492.04	6992.58	6874.95	-405.73	571.24	-86.19	989.89	65.29	15.32	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: GREELEY-ROTHER FEDERAL 13N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13N-2C-L PWP (REV-A.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## HOLE & CASING SECTIONS - Offset Wellbore: GREELEY-ROTHER FEDERAL 13N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13N-2C-L PWP (REV-A.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	20.00	1750.00	1730.00	19.00	1740.42	-61.07	0.85	-72.53	38.34
9.625in Casing Surface	20.00	1750.00	1730.00	19.00	1740.42	-61.07	0.85	-72.53	38.34
8.5in Open Hole	20.00	17483.28	17463.28	19.00	7022.00	-61.07	0.85	-190.49	-3002.41

## SURVEY PROGRAM - Offset Wellbore: GREELEY-ROTHER FEDERAL 13N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13N-2C-L PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	1750.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 13N-2C-L PWB
1750.00	17483.28	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 13N-2C-L PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: GREELEY-ROTHER FEDERAL 13N-2C-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 13N-2C-L PWP (REV-A.0)

MD Reference: PRECISION 462 (20') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	20.00ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHE FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHE FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHE FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHE FEDERAL 34N-2B-L PWB Offset Wellpath: GREELEY-ROTHE FEDERAL 34N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#23 GREELEY-ROTHE FEDERAL 34N-2B-L (963'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHE FEDERAL 34N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	21.00	20.00	-120.22	1.39	179.34	120.23	1.57	198.23	PASS
120.00†	120.00	0.00	0.00	121.00	120.00	-120.22	1.39	179.34	120.23	1.89	129.19	PASS
220.00†	220.00	0.00	0.00	221.00	220.00	-120.22	1.39	179.34	120.23	2.46	79.96	PASS
320.00†	320.00	0.00	0.00	321.00	320.00	-120.22	1.39	179.34	120.23	3.06	56.94	PASS
400.00	400.00	0.00	0.00	401.00	400.00	-120.22	1.39	179.34	120.23	3.55	46.15	PASS
420.00†	420.00	0.04	0.06	421.00	420.00	-120.22	1.39	122.75	120.27	3.67	44.09	PASS
520.00†	519.96	1.38	2.10	520.96	519.96	-120.22	1.39	123.69	121.61	4.36	35.52	PASS
620.00†	619.78	4.65	7.05	620.78	619.78	-120.22	1.39	125.90	125.00	5.24	29.03	PASS
720.00†	719.33	9.82	14.91	719.92	718.92	-120.26	1.45	129.10	130.78	6.12	25.20	PASS
820.00†	818.50	16.91	25.66	817.18	816.15	-121.54	3.39	132.11	140.25	7.03	22.97	PASS
851.46	849.59	19.53	29.64	847.72	846.65	-122.31	4.57	132.91	144.07	7.31	22.56	PASS
920.00†	917.28	25.45	38.62	914.22	913.02	-124.62	8.08	134.35	153.21	7.82	22.21	PASS
1020.00†	1016.05	34.09	51.73	1011.16	1009.55	-129.49	15.50	135.27	167.67	8.54	22.01	PASS
1120.00†	1114.81	42.72	64.83	1107.81	1105.43	-136.13	25.61	135.07	183.34	9.26	21.98	PASS
1220.00†	1213.57	51.36	77.94	1204.03	1200.43	-144.50	38.35	134.02	200.25	10.01	22.04	PASS
1320.00†	1312.33	59.99	91.04	1302.37	1297.28	-153.88	52.63	132.75	217.82	10.75	22.16	PASS
1420.00†	1411.09	68.63	104.15	1400.71	1394.12	-163.26	66.91	131.66	235.47	11.51	22.23	PASS
1520.00†	1509.85	77.26	117.25	1499.05	1490.96	-172.64	81.19	130.73	253.20	12.30	22.26	PASS
1620.00†	1608.61	85.90	130.36	1597.38	1587.81	-182.02	95.46	129.92	270.98	13.10	22.26	PASS
1720.00†	1707.37	94.53	143.46	1695.72	1684.65	-191.40	109.74	129.20	288.81	13.90	22.25	PASS
1820.00†	1806.13	103.17	156.56	1794.06	1781.49	-200.78	124.02	128.57	306.67	14.15	22.76	PASS
1920.00†	1904.89	111.80	169.67	1892.40	1878.34	-210.16	138.29	128.01	324.57	14.34	23.76	PASS
2020.00†	2003.65	120.44	182.77	1990.74	1975.18	-219.54	152.57	127.51	342.50	14.58	24.64	PASS
2120.00†	2102.41	129.07	195.88	2089.08	2072.02	-228.91	166.85	127.06	360.44	14.90	25.35	PASS
2220.00†	2201.18	137.71	208.98	2187.41	2168.87	-238.29	181.13	126.65	378.41	15.30	25.89	PASS
2320.00†	2299.94	146.34	222.09	2285.75	2265.71	-247.67	195.40	126.28	396.40	15.77	26.28	PASS
2420.00†	2398.70	154.98	235.19	2384.09	2362.55	-257.05	209.68	125.94	414.40	16.30	26.53	PASS
2520.00†	2497.46	163.61	248.29	2482.43	2459.40	-266.43	223.96	125.63	432.41	16.89	26.68	PASS
2620.00†	2596.22	172.25	261.40	2580.77	2556.24	-275.81	238.24	125.35	450.43	17.54	26.73	PASS
2720.00†	2694.98	180.88	274.50	2679.11	2653.08	-285.19	252.51	125.08	468.47	18.23	26.70	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 34N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 34N-2B-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#23 GREELEY-ROTHER FEDERAL 34N-2B-L (963'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 34N-2B-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2777.44	2749.93	-294.57	266.79	124.84	486.51	18.96	26.62	PASS
2920.00†	2892.50	198.15	300.71	2875.78	2846.77	-303.95	281.07	124.61	504.56	19.72	26.50	PASS
3020.00†	2991.26	206.79	313.82	2974.12	2943.61	-313.33	295.34	124.40	522.62	20.52	26.34	PASS
3120.00†	3090.02	215.42	326.92	3072.46	3040.46	-322.70	309.62	124.20	540.68	21.36	26.15	PASS
3220.00†	3188.78	224.06	340.03	3170.80	3137.30	-332.08	323.90	124.02	558.75	22.21	25.95	PASS
3320.00†	3287.55	232.69	353.13	3269.14	3234.14	-341.46	338.18	123.84	576.83	23.09	25.74	PASS
3420.00†	3386.31	241.33	366.23	3367.48	3330.99	-350.84	352.45	123.68	594.91	23.99	25.52	PASS
3520.00†	3485.07	249.96	379.34	3465.81	3427.83	-360.22	366.73	123.53	612.99	24.90	25.30	PASS
3620.00†	3583.83	258.60	392.44	3564.15	3524.68	-369.60	381.01	123.38	631.08	25.84	25.09	PASS
3720.00†	3682.59	267.23	405.55	3662.49	3621.52	-378.98	395.29	123.25	649.17	26.78	24.87	PASS
3820.00†	3781.35	275.87	418.65	3760.83	3718.36	-388.36	409.56	123.12	667.27	27.74	24.66	PASS
3920.00†	3880.11	284.50	431.76	3859.17	3815.21	-397.74	423.84	123.00	685.36	28.71	24.45	PASS
4020.00†	3978.87	293.14	444.86	3957.51	3912.05	-407.11	438.12	122.88	703.47	29.69	24.25	PASS
4120.00†	4077.63	301.77	457.97	4055.84	4008.89	-416.49	452.40	122.77	721.57	30.68	24.05	PASS
4220.00†	4176.39	310.41	471.07	4154.18	4105.74	-425.87	466.67	122.67	739.68	31.68	23.86	PASS
4320.00†	4275.15	319.04	484.17	4252.52	4202.58	-435.25	480.95	122.57	757.78	32.69	23.68	PASS
4420.00†	4373.91	327.68	497.28	4350.86	4299.42	-444.63	495.23	122.47	775.90	33.70	23.50	PASS
4520.00†	4472.68	336.31	510.38	4449.20	4396.27	-454.01	509.50	122.38	794.01	34.72	23.33	PASS
4620.00†	4571.44	344.95	523.49	4547.54	4493.11	-463.39	523.78	122.30	812.12	35.74	23.16	PASS
4720.00†	4670.20	353.58	536.59	4645.87	4589.95	-472.77	538.06	122.21	830.24	36.77	23.00	PASS
4820.00†	4768.96	362.22	549.70	4744.21	4686.80	-482.15	552.34	122.13	848.36	37.81	22.85	PASS
4920.00†	4867.72	370.85	562.80	4842.55	4783.64	-491.53	566.61	122.06	866.48	38.85	22.70	PASS
5020.00†	4966.48	379.49	575.91	4940.89	4880.48	-500.90	580.89	121.99	884.60	39.89	22.56	PASS
5120.00†	5065.24	388.12	589.01	5039.23	4977.33	-510.28	595.17	121.92	902.72	40.94	22.42	PASS
5220.00†	5164.00	396.76	602.11	5137.57	5074.17	-519.66	609.45	121.85	920.84	41.99	22.29	PASS
5320.00†	5262.76	405.39	615.22	5235.91	5171.01	-529.04	623.72	121.78	938.97	43.05	22.16	PASS
5420.00†	5361.52	414.03	628.32	5334.24	5267.86	-538.42	638.00	121.72	957.09	44.11	22.04	PASS
5520.00†	5460.28	422.66	641.43	5432.58	5364.70	-547.80	652.28	121.66	975.22	45.17	21.92	PASS
5620.00†	5559.05	431.30	654.53	5530.92	5461.54	-557.18	666.56	121.60	993.35	46.23	21.80	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## POSITIONAL UNCERTAINTY - Offset Wellbore: GREELEY-ROTHER FEDERAL 34N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 34N-2B-L PWP (REV-A.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## HOLE & CASING SECTIONS - Offset Wellbore: GREELEY-ROTHER FEDERAL 34N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 34N-2B-L PWP (REV-A.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	20.00	1750.00	1730.00	19.00	1738.10	-73.29	0.85	-96.56	36.27
9.625in Casing Surface	20.00	1750.00	1730.00	19.00	1738.10	-73.29	0.85	-96.56	36.27
8.5in Open Hole	1750.00	17160.04	15410.04	1738.10	6936.00	-96.56	36.27	-270.04	-2919.70

## SURVEY PROGRAM - Offset Wellbore: GREELEY-ROTHER FEDERAL 34N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 34N-2B-L PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	1750.00	Custom BHI NaviTrak (IFR1, Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 34N-2B-L PWB
1750.00	17160.04	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 34N-2B-L PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: GREELEY-ROTHER FEDERAL 34N-2B-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 34N-2B-L PWP (REV-A.0)

MD Reference: PRECISION 462 (20') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	20.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. RUDOLPH 2-34 AWB Offset Wellpath: EX. RUDOLPH 2-34 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#04 EX. RUDOLPH 2-34 (732'FSL & 1921'FWL, NB-CD/PR) Well: EX. RUDOLPH 2-34 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	74.00	20.00	-474.79	-8164.00	-93.33	8177.79	50.32	165.67	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. RUDOLPH 2-34 AWB Offset Wellpath: EX. RUDOLPH 2-34 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. RUDOLPH 2-34 AWB Offset Wellpath: EX. RUDOLPH 2-34 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7386.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7386>	EX. RUDOLPH 2-34 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. RUDOLPH 2-34 AWB Offset Wellpath: EX. RUDOLPH 2-34 AWP

MD Reference: Rig on SLOT#04 EX. RUDOLPH 2-34 (732'FSL & 1921'FWL, NB-CD/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. RUDOLPH 2-33 AWB Offset Wellpath: EX. RUDOLPH 2-33 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#03 EX. RUDOLPH 2-33 (740'FSL & 640'FWL, NB-CD/PR) Well: EX. RUDOLPH 2-33 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	46.00	20.00	-623.73	-9372.43	-93.81	9393.16	50.26	190.52	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. RUDOLPH 2-33 AWB Offset Wellpath: EX. RUDOLPH 2-33 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. RUDOLPH 2-33 AWB Offset Wellpath: EX. RUDOLPH 2-33 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7378.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7378>	EX. RUDOLPH 2-33 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. RUDOLPH 2-33 AWB Offset Wellpath: EX. RUDOLPH 2-33 AWP

MD Reference: Rig on SLOT#03 EX. RUDOLPH 2-33 (740'FSL & 640'FWL, NB-CD/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 34C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 34C-2-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#24 GREELEY-ROTHER FEDERAL 34C-2-L (943'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 34C-2-L Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
20.00	20.00	0.00	0.00	21.00	20.00	-140.26	1.70	179.31	140.27	1.57	231.54	PASS	
120.00†	120.00	0.00	0.00	121.00	120.00	-140.26	1.70	179.31	140.27	1.89	150.71	PASS	
220.00†	220.00	0.00	0.00	221.00	220.00	-140.26	1.70	179.31	140.27	2.46	93.26	PASS	
320.00†	320.00	0.00	0.00	321.00	320.00	-140.26	1.70	179.31	140.27	3.06	66.43	PASS	
400.00	400.00	0.00	0.00	401.00	400.00	-140.26	1.70	179.31	140.27	3.55	53.85	PASS	
420.00†	420.00	0.04	0.06	421.00	420.00	-140.26	1.70	122.71	140.31	3.67	51.44	PASS	
520.00†	519.96	1.38	2.10	520.96	519.96	-140.26	1.70	123.52	141.64	4.36	41.39	PASS	
620.00†	619.78	4.65	7.05	620.78	619.78	-140.26	1.70	125.42	145.01	5.23	33.75	PASS	
720.00†	719.33	9.82	14.91	720.33	719.33	-140.26	1.70	128.24	150.66	6.10	29.13	PASS	
820.00†	818.50	16.91	25.66	817.46	816.45	-140.79	2.30	131.42	159.43	7.00	26.25	PASS	
851.46	849.59	19.53	29.64	847.66	846.64	-141.36	2.95	132.32	163.12	7.28	25.67	PASS	
920.00†	917.28	25.45	38.62	913.43	912.34	-143.34	5.20	134.04	172.14	7.80	25.04	PASS	
1020.00†	1016.05	34.09	51.73	1009.28	1007.92	-148.01	10.50	135.51	186.89	8.57	24.46	PASS	
1120.00†	1114.81	42.72	64.83	1104.81	1102.90	-154.77	18.16	135.95	203.28	9.32	24.22	PASS	
1220.00†	1213.57	51.36	77.94	1199.82	1196.98	-163.57	28.14	135.60	221.24	10.09	24.15	PASS	
1320.00†	1312.33	59.99	91.04	1294.11	1289.85	-174.33	40.34	134.63	240.80	10.85	24.27	PASS	
1420.00†	1411.09	68.63	104.15	1391.85	1385.82	-186.55	54.20	133.46	261.24	11.60	24.48	PASS	
1520.00†	1509.85	77.26	117.25	1489.61	1481.82	-198.76	68.05	132.47	281.77	12.36	24.65	PASS	
1620.00†	1608.61	85.90	130.36	1587.37	1577.82	-210.98	81.91	131.60	302.38	13.15	24.74	PASS	
1720.00†	1707.37	94.53	143.46	1685.13	1673.82	-223.20	95.77	130.85	323.04	13.92	24.85	PASS	
1820.00†	1806.13	103.17	156.56	1782.89	1769.82	-235.42	109.63	130.19	343.74	14.19	25.44	PASS	
1920.00†	1904.89	111.80	169.67	1880.65	1865.82	-247.63	123.48	129.60	364.49	14.40	26.58	PASS	
2020.00†	2003.65	120.44	182.77	1978.41	1961.81	-259.85	137.34	129.08	385.27	14.63	27.63	PASS	
2120.00†	2102.41	129.07	195.88	2076.17	2057.81	-272.07	151.20	128.61	406.08	14.94	28.48	PASS	
2220.00†	2201.18	137.71	208.98	2173.93	2153.81	-284.29	165.05	128.18	426.91	15.33	29.15	PASS	
2320.00†	2299.94	146.34	222.09	2271.69	2249.81	-296.50	178.91	127.80	447.76	15.79	29.64	PASS	
2420.00†	2398.70	154.98	235.19	2369.45	2345.81	-308.72	192.77	127.45	468.63	16.32	29.97	PASS	
2520.00†	2497.46	163.61	248.29	2467.21	2441.81	-320.94	206.62	127.13	489.51	16.91	30.18	PASS	
2620.00†	2596.22	172.25	261.40	2564.97	2537.80	-333.16	220.48	126.83	510.41	17.54	30.28	PASS	
2720.00†	2694.98	180.88	274.50	2662.73	2633.80	-345.37	234.34	126.56	531.32	18.23	30.29	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHE FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHE FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHE FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHE FEDERAL 34C-2-L PWB Offset Wellpath: GREELEY-ROTHE FEDERAL 34C-2-L PWP (REV-A.0)

Facility: SEC.01-T05N-R67W Slot: SLOT#24 GREELEY-ROTHE FEDERAL 34C-2-L (943'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHE FEDERAL 34C-2-L Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2760.49	2729.80	-357.59	248.20	126.31	552.24	18.95	30.23	PASS
2920.00†	2892.50	198.15	300.71	2858.25	2825.80	-369.81	262.05	126.08	573.17	19.71	30.12	PASS
3020.00†	2991.26	206.79	313.82	2956.01	2921.80	-382.03	275.91	125.86	594.11	20.51	29.97	PASS
3120.00†	3090.02	215.42	326.92	3053.77	3017.80	-394.24	289.77	125.66	615.05	21.34	29.78	PASS
3220.00†	3188.78	224.06	340.03	3151.53	3113.79	-406.46	303.62	125.47	636.01	22.19	29.58	PASS
3320.00†	3287.55	232.69	353.13	3249.29	3209.79	-418.68	317.48	125.30	656.96	23.06	29.36	PASS
3420.00†	3386.31	241.33	366.23	3347.04	3305.79	-430.90	331.34	125.13	677.93	23.95	29.13	PASS
3520.00†	3485.07	249.96	379.34	3444.80	3401.79	-443.11	345.19	124.98	698.90	24.87	28.90	PASS
3620.00†	3583.83	258.60	392.44	3542.56	3497.79	-455.33	359.05	124.83	719.87	25.79	28.67	PASS
3720.00†	3682.59	267.23	405.55	3640.32	3593.79	-467.55	372.91	124.69	740.85	26.74	28.44	PASS
3820.00†	3781.35	275.87	418.65	3738.08	3689.78	-479.77	386.77	124.56	761.83	27.69	28.21	PASS
3920.00†	3880.11	284.50	431.76	3835.84	3785.78	-491.99	400.62	124.44	782.82	28.66	27.98	PASS
4020.00†	3978.87	293.14	444.86	3933.60	3881.78	-504.20	414.48	124.32	803.80	29.64	27.76	PASS
4120.00†	4077.63	301.77	457.97	4031.36	3977.78	-516.42	428.34	124.21	824.80	30.62	27.55	PASS
4220.00†	4176.39	310.41	471.07	4129.12	4073.78	-528.64	442.19	124.10	845.79	31.62	27.34	PASS
4320.00†	4275.15	319.04	484.17	4226.88	4169.78	-540.86	456.05	124.00	866.79	32.62	27.14	PASS
4420.00†	4373.91	327.68	497.28	4324.64	4265.77	-553.07	469.91	123.91	887.79	33.63	26.94	PASS
4520.00†	4472.68	336.31	510.38	4422.40	4361.77	-565.29	483.77	123.82	908.79	34.65	26.75	PASS
4620.00†	4571.44	344.95	523.49	4520.16	4457.77	-577.51	497.62	123.73	929.79	35.67	26.57	PASS
4720.00†	4670.20	353.58	536.59	4617.92	4553.77	-589.73	511.48	123.65	950.80	36.70	26.40	PASS
4820.00†	4768.96	362.22	549.70	4715.68	4649.77	-601.94	525.34	123.57	971.81	37.73	26.23	PASS
4920.00†	4867.72	370.85	562.80	4813.44	4745.77	-614.16	539.19	123.49	992.82	38.77	26.06	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: GREELEY-ROTHE FEDERAL 34C-2-L PWB Offset Wellpath: GREELEY-ROTHE FEDERAL 34C-2-L PWP (REV-A.0)

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## HOLE & CASING SECTIONS - Offset Wellbore: GREELEY-ROTHER FEDERAL 34C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 34C-2-L PWP (REV-A.0)

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	20.00	1750.00	1730.00	19.00	1737.52	-85.50	1.04	-113.25	32.51
9.625in Casing Surface	20.00	1750.00	1730.00	19.00	1737.52	-85.50	1.04	-113.25	32.51
8.5in Open Hole	1750.00	17388.56	15638.56	1737.52	7163.00	-113.25	32.51	-349.86	-2932.95

## SURVEY PROGRAM - Offset Wellbore: GREELEY-ROTHER FEDERAL 34C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 34C-2-L PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	1750.00	Custom BHI NaviTrak (IFR1, Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 34C-2-L PWB
1750.00	17388.56	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		GREELEY-ROTHER FEDERAL 34C-2-L PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: GREELEY-ROTHER FEDERAL 34C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 34C-2-L PWP (REV-A.0)

MD Reference: PRECISION 462 (20') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	20.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-2 AWB Offset Wellpath: EX. GENESIS 9-2 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#05 EX. GENESIS 9-2 (656'FSL & 673'FEL, JNB CD/PR) Well: EX. GENESIS 9-2 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	7.97	19.97	-436.06	-387.55	-138.37	583.39	50.17	11.84	PASS
120.00†	120.00	0.00	0.00	108.89	120.89	-436.56	-387.00	-138.44	583.40	50.18	11.83	PASS
220.00†	220.00	0.00	0.00	213.49	225.47	-435.68	-387.17	-138.37	582.88	50.20	11.82	PASS
320.00†	320.00	0.00	0.00	313.91	325.81	-432.26	-389.29	-137.99	581.75	50.24	11.79	PASS
400.00	400.00	0.00	0.00	392.83	404.56	-428.27	-392.72	-137.48	581.09	50.29	11.76	PASS
420.00†	420.00	0.04	0.06	413.37	425.02	-426.98	-393.87	166.07	580.99	50.30	11.76	PASS
520.00†	519.96	1.38	2.10	514.20	525.27	-418.91	-401.00	167.18	582.37	50.39	11.76	PASS
620.00†	619.78	4.65	7.05	612.88	623.19	-409.95	-409.28	168.47	587.57	50.55	11.83	PASS
720.00†	719.33	9.82	14.91	727.41	736.62	-397.42	-419.00	170.17	595.34	50.73	11.94	PASS
820.00†	818.50	16.91	25.66	831.06	838.65	-381.79	-428.28	172.04	604.51	50.93	12.08	PASS
851.46	849.59	19.53	29.64	860.64	867.63	-376.76	-431.44	172.65	608.25	51.00	12.14	PASS
920.00†	917.28	25.45	38.62	921.37	926.89	-365.74	-438.80	173.99	617.30	51.13	12.29	PASS
1020.00†	1016.05	34.09	51.73	1001.78	1004.91	-350.55	-450.90	175.90	633.01	51.31	12.55	PASS
1120.00†	1114.81	42.72	64.83	1092.46	1092.32	-332.70	-467.17	178.14	651.52	51.52	12.87	PASS
1220.00†	1213.57	51.36	77.94	1187.93	1183.96	-312.75	-485.00	-179.50	671.08	51.76	13.19	PASS
1320.00†	1312.33	59.99	91.04	1283.62	1275.88	-292.83	-502.60	-177.29	691.54	52.04	13.52	PASS
1420.00†	1411.09	68.63	104.15	1366.55	1355.56	-275.98	-518.28	-175.48	713.61	52.26	13.89	PASS
1520.00†	1509.85	77.26	117.25	1455.62	1440.97	-258.29	-536.31	-173.62	737.89	52.52	14.29	PASS
1620.00†	1608.61	85.90	130.36	1552.97	1534.50	-239.40	-555.59	-171.76	762.77	52.88	14.68	PASS
1720.00†	1707.37	94.53	143.46	1646.87	1624.90	-221.64	-573.79	-170.12	788.17	53.22	15.06	PASS
1820.00†	1806.13	103.17	156.56	1746.84	1721.27	-203.05	-592.77	-168.52	813.93	53.35	15.45	PASS
1920.00†	1904.89	111.80	169.67	1842.94	1813.99	-184.95	-610.38	-167.07	839.52	53.69	15.83	PASS
2020.00†	2003.65	120.44	182.77	1933.57	1901.16	-167.09	-627.58	-165.72	865.94	53.99	16.24	PASS
2120.00†	2102.41	129.07	195.88	2034.25	1997.96	-146.94	-646.58	-164.29	892.65	54.43	16.60	PASS
2220.00†	2201.18	137.71	208.98	2144.48	2104.15	-124.75	-666.10	-162.83	918.73	54.96	16.92	PASS
2320.00†	2299.94	146.34	222.09	2237.56	2193.94	-105.68	-681.52	-161.67	944.06	55.37	17.26	PASS
2420.00†	2398.70	154.98	235.19	2323.07	2276.35	-88.44	-696.52	-160.66	970.73	55.73	17.63	PASS
2520.00†	2497.46	163.61	248.29	2423.04	2372.60	-68.08	-714.20	-159.52	997.83	56.24	17.96	PASS
2620.00†	2596.22	172.25	261.40	2516.61	2462.69	-48.74	-730.54	-158.50	1024.99	56.72	18.29	PASS
2720.00†	2694.98	180.88	274.50	2600.24	2543.18	-31.60	-745.42	-157.64	1052.83	57.11	18.65	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)

Closest Approach

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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-2 AWB Offset Wellpath: EX. GENESIS 9-2 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#05 EX. GENESIS 9-2 (656'FSL & 673'FEL, JNB CD/PR) Well: EX. GENESIS 9-2 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2673.17	2613.20	-17.00	-759.63	-156.92	1082.57	57.40	19.08	PASS
2920.00†	2892.50	198.15	300.71	2761.39	2697.73	0.23	-778.05	-156.10	1113.93	57.87	19.47	PASS
3020.00†	2991.26	206.79	313.82	2859.32	2791.68	19.06	-798.34	-155.26	1145.41	58.47	19.82	PASS
3120.00†	3090.02	215.42	326.92	2961.21	2889.65	38.18	-818.76	-154.46	1176.50	59.12	20.13	PASS
3220.00†	3188.78	224.06	340.03	3053.39	2978.37	55.29	-837.00	-153.79	1207.53	59.69	20.46	PASS
3320.00†	3287.55	232.69	353.13	3167.60	3088.32	76.95	-859.06	-152.98	1238.28	60.51	20.70	PASS
3420.00†	3386.31	241.33	366.23	3284.45	3200.89	100.71	-879.45	-152.14	1267.23	61.36	20.88	PASS
3520.00†	3485.07	249.96	379.34	3389.25	3301.83	123.21	-896.44	-151.38	1295.09	62.10	21.08	PASS
3620.00†	3583.83	258.60	392.44	3487.04	3396.20	143.60	-911.92	-150.72	1322.80	62.79	21.30	PASS
3720.00†	3682.59	267.23	405.55	3585.03	3490.61	164.91	-927.26	-150.05	1350.45	63.50	21.50	PASS
3820.00†	3781.35	275.87	418.65	3662.92	3565.29	183.14	-939.84	-149.48	1378.69	64.04	21.76	PASS
3920.00†	3880.11	284.50	431.76	3740.66	3639.29	202.62	-953.47	-148.88	1408.39	64.58	22.04	PASS
4020.00†	3978.87	293.14	444.86	3829.37	3723.38	225.84	-969.61	-148.16	1438.93	65.27	22.28	PASS
4120.00†	4077.63	301.77	457.97	3905.46	3795.28	246.21	-983.92	-147.55	1470.32	65.83	22.57	PASS
4220.00†	4176.39	310.41	471.07	3976.96	3862.66	265.29	-998.37	-147.00	1503.24	66.34	22.89	PASS
4320.00†	4275.15	319.04	484.17	4086.27	3965.82	293.71	-1020.70	-146.22	1536.55	67.31	23.06	PASS
4420.00†	4373.91	327.68	497.28	4181.97	4056.65	317.15	-1039.60	-145.63	1569.32	68.12	23.27	PASS
4520.00†	4472.68	336.31	510.38	4275.56	4145.87	338.47	-1058.18	-145.13	1602.25	68.91	23.48	PASS
4620.00†	4571.44	344.95	523.49	4370.74	4236.45	360.83	-1076.98	-144.62	1635.22	69.73	23.68	PASS
4720.00†	4670.20	353.58	536.59	4469.16	4330.05	384.44	-1096.18	-144.09	1668.11	70.60	23.86	PASS
4820.00†	4768.96	362.22	549.70	4572.21	4428.22	408.80	-1115.91	-143.58	1700.74	71.53	24.00	PASS
4920.00†	4867.72	370.85	562.80	4669.82	4521.54	430.80	-1134.19	-143.15	1732.97	72.40	24.16	PASS
5020.00†	4966.48	379.49	575.91	4762.26	4610.32	449.72	-1151.69	-142.82	1765.32	73.21	24.34	PASS
5120.00†	5065.24	388.12	589.01	4856.95	4701.43	468.17	-1169.71	-142.53	1797.74	74.05	24.50	PASS
5220.00†	5164.00	396.76	602.11	4939.68	4781.00	484.20	-1185.64	-142.29	1830.41	74.76	24.71	PASS
5320.00†	5262.76	405.39	615.22	5032.29	4869.89	502.51	-1204.10	-142.02	1863.79	75.59	24.88	PASS
5420.00†	5361.52	414.03	628.32	5180.54	5012.90	530.57	-1231.26	-141.64	1895.56	77.03	24.83	PASS
5520.00†	5460.28	422.66	641.43	5293.35	5122.18	551.87	-1249.44	-141.35	1925.20	78.07	24.88	PASS
5620.00†	5559.05	431.30	654.53	5366.76	5193.23	565.76	-1261.61	-141.18	1955.38	78.72	25.06	PASS
5720.00†	5657.81	439.93	667.64	5444.80	5268.57	580.80	-1275.31	-140.99	1986.56	79.43	25.23	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-2 AWB Offset Wellpath: EX. GENESIS 9-2 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#05 EX. GENESIS 9-2 (656'FSL & 673'FEL, JNBCD/PR) Well: EX. GENESIS 9-2 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5643.98	5460.65	621.85	-1308.13	-140.43	2018.21	81.35	25.02	PASS
5920.00†	5855.33	457.20	693.85	5702.25	5517.20	633.44	-1316.05	-140.29	2045.75	81.91	25.18	PASS
6020.00†	5954.09	465.84	706.95	5758.84	5571.90	645.07	-1324.77	-140.14	2075.11	82.44	25.38	PASS
6120.00†	6052.85	474.47	720.05	5819.18	5630.01	657.57	-1335.13	-139.98	2106.21	82.99	25.59	PASS
6220.00†	6151.61	483.11	733.16	5880.61	5689.10	669.75	-1346.70	-139.85	2138.82	83.55	25.81	PASS
6320.00†	6250.37	491.74	746.26	5979.99	5784.71	688.28	-1366.47	-139.67	2172.35	84.52	25.91	PASS
6420.00†	6349.13	500.38	759.37	6099.38	5899.97	709.53	-1389.18	-139.48	2204.94	85.72	25.93	PASS
6509.39	6437.41	508.10	771.08	6186.33	5983.91	725.91	-1404.88	-139.33	2233.36	86.58	26.00	PASS
6520.00†	6447.90	509.02	772.38	6193.74	5991.05	727.34	-1406.23	-135.63	2236.68	86.65	26.02	PASS
6620.00†	6547.35	517.82	776.00	6264.87	6059.49	741.39	-1419.59	-57.82	2260.22	87.36	26.08	PASS
6720.00†	6646.11	526.74	763.96	6351.47	6142.56	759.02	-1436.59	-17.71	2269.34	88.53	25.83	PASS
6820.00†	6741.77	535.55	736.55	6445.38	6232.54	778.33	-1455.26	-7.54	2263.25	90.16	25.29	PASS
6920.00†	6831.97	544.05	694.45	6539.84	6323.19	796.83	-1474.33	-2.95	2241.95	91.65	24.65	PASS
7020.00†	6914.48	552.02	638.70	6706.73	6484.69	824.98	-1505.52	0.28	2203.84	93.74	23.68	PASS
7120.00†	6987.27	559.26	570.67	6791.87	6567.31	839.35	-1520.22	2.85	2150.96	94.85	22.84	PASS
7220.00†	7048.56	565.59	492.04	6953.07	6724.60	864.53	-1544.71	6.36	2083.90	96.42	21.77	PASS
7320.00†	7096.83	570.87	404.74	7017.57	6787.91	873.26	-1553.42	10.39	2005.31	97.04	20.81	PASS
7420.00†	7130.89	574.96	310.91	7074.71	6844.04	880.79	-1561.02	17.05	1918.32	97.48	19.82	PASS
7520.00†	7149.90	577.75	212.88	7130.09	6898.58	887.47	-1567.93	31.01	1824.93	97.79	18.79	PASS
7594.38	7154.00	578.96	138.67	7152.26	6920.46	889.94	-1570.53	52.00	1752.88	97.86	18.03	PASS
7620.00†	7153.92	579.24	113.05	7157.16	6925.30	890.46	-1571.09	52.64	1727.85	97.87	17.78	PASS
7720.00†	7153.61	580.34	13.06	7175.52	6943.44	892.39	-1573.15	55.13	1630.22	97.88	16.77	PASS
7820.00†	7153.31	581.44	-86.94	7193.42	6961.14	894.19	-1575.10	57.67	1532.77	97.92	15.76	PASS
7920.00†	7153.00	582.54	-186.93	7210.90	6978.44	895.90	-1576.94	60.26	1435.54	98.00	14.75	PASS
8020.00†	7152.69	583.64	-286.92	7226.99	6994.37	897.42	-1578.56	62.74	1338.60	98.14	13.73	PASS
8120.00†	7152.39	584.74	-386.92	7241.84	7009.09	898.80	-1579.99	65.11	1242.01	98.37	12.71	PASS
8220.00†	7152.08	585.84	-486.91	7255.59	7022.73	900.05	-1581.28	67.37	1145.90	98.74	11.68	PASS
8320.00†	7151.77	586.94	-586.90	7268.36	7035.40	901.18	-1582.42	69.51	1050.40	99.30	10.65	PASS
8420.00†	7151.47	588.04	-686.90	7280.25	7047.19	902.21	-1583.46	71.55	955.72	100.15	9.60	PASS
8520.00†	7151.16	589.14	-786.89	7291.34	7058.21	903.15	-1584.39	73.49	862.12	101.43	8.55	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-2 AWB Offset Wellpath: EX. GENESIS 9-2 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#05 EX. GENESIS 9-2 (656'FSL & 673'FEL, JNBCD/PR) Well: EX. GENESIS 9-2 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	7301.72	7068.52	904.01	-1585.23	75.32	770.02	103.35	7.49	PASS
8720.00†	7150.54	591.34	-986.88	7311.45	7078.18	904.81	-1586.00	77.06	680.03	106.24	6.44	PASS
8820.00†	7150.24	592.44	-1086.87	7319.47	7086.15	905.45	-1586.62	78.50	593.15	110.58	5.39	PASS
8920.00†	7149.93	593.54	-1186.86	7326.99	7093.63	906.06	-1587.20	79.87	510.98	117.08	4.38	PASS
9020.00†	7149.62	594.64	-1286.86	7334.54	7101.13	906.66	-1587.78	81.24	436.19	126.67	3.46	PASS
9120.00†	7149.32	595.74	-1386.85	7342.10	7108.64	907.27	-1588.37	82.62	373.24	140.13	2.67	PASS
9220.00†	7149.01	596.84	-1486.84	7349.67	7116.17	907.87	-1588.95	84.01	329.00	156.57	2.11	PASS
9320.00†	7148.70	597.94	-1586.84	7357.26	7123.71	908.47	-1589.54	85.40	311.54	170.81	1.83	PASS
9326.07†	7148.68	598.01	-1592.91	7358.55	7124.99	908.57	-1589.64	85.64	311.48	171.44	1.82	PASS
9361.02†	7148.58	598.40	-1627.86	7360.38	7126.81	908.72	-1589.78	85.97	313.41	174.24	1.80	PASS
9420.00†	7148.40	599.04	-1686.83	7364.87	7131.27	909.08	-1590.13	86.80	325.21	175.94	1.85	PASS
9520.00†	7148.09	600.15	-1786.82	7372.50	7138.85	909.68	-1590.72	88.19	366.54	171.74	2.14	PASS
9620.00†	7147.78	601.25	-1886.82	7380.14	7146.45	910.28	-1591.32	89.59	427.58	163.40	2.62	PASS
9720.00†	7147.47	602.35	-1986.81	7387.79	7154.06	910.88	-1591.91	90.99	501.18	154.83	3.25	PASS
9820.00†	7147.17	603.45	-2086.81	7395.47	7161.68	911.48	-1592.51	92.38	582.60	147.44	3.97	PASS
9920.00†	7146.86	604.55	-2186.80	7403.16	7169.33	912.08	-1593.11	93.76	668.99	141.43	4.75	PASS
10020.00†	7146.55	605.65	-2286.79	7410.86	7176.98	912.68	-1593.71	95.14	758.66	136.62	5.58	PASS
10120.00†	7146.25	606.75	-2386.79	7418.59	7184.66	913.28	-1594.31	96.51	850.56	132.78	6.43	PASS
10220.00†	7145.94	607.85	-2486.78	7426.33	7192.35	913.88	-1594.92	97.88	944.05	129.67	7.31	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. GENESIS 9-2 AWB Offset Wellpath: EX. GENESIS 9-2 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

WELLPATH COMPOSITION - Offset Wellbore: EX. GENESIS 9-2 AWB    Offset Wellpath: EX. GENESIS 9-2 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8015.00	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL SURVEYS PROVIDED BY SRC <8015>	EX. GENESIS 9-2 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. GENESIS 9-2 AWB Offset Wellpath: EX. GENESIS 9-2 AWP	
MD Reference: Rig on SLOT#05 EX. GENESIS 9-2 (656'FSL & 673'FEL, JNBCD/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AURFRECHT N 2-16 AWB Offset Wellpath: EX. AURFRECHT N 2-16 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#06 EX. AURFRECHT N 2-16 (660'FSL & 660'FEL, CODL/PR) Well: EX. AURFRECHT N 2-16 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	60.00	20.00	-585.53	-5467.47	-96.11	5498.73	50.29	111.45	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. AURFRECHT N 2-16 AWB Offset Wellpath: EX. AURFRECHT N 2-16 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. AURFRECHT N 2-16 AWB Offset Wellpath: EX. AURFRECHT N 2-16 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7813.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7813>	EX. AURFRECHT N 2-16 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. AURFRECHT N 2-16 AWB Offset Wellpath: EX. AURFRECHT N 2-16 AWP

MD Reference: Rig on SLOT#-6 EX. AURFRECHT N 2-16 (660'FSL & 660'FEL, CODL/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SHURVIEW 33C-3HZ AWP Offset Wellpath: EX. SHURVIEW 33C-3HZ AWP

Facility: SEC.03-T05N-R67W Slot: SLOT#04 EX. SHURVIEW 33C-3HZ (2016'FSL & 1191'FEL, CODL/PR) Well: EX. SHURVIEW 33C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	16.00	20.00	845.11	-10967.71	-85.59	11000.22	50.17	223.55	PASS
120.00†	120.00	0.00	0.00	129.69	133.69	845.14	-10967.60	-85.59	11000.12	50.17	223.51	PASS
220.00	220.00	0.00	0.00	202.33	206.33	845.15	-10967.60	-85.59	11000.12	50.19	223.46	PASS
320.00†	320.00	0.00	0.00	345.13	349.13	845.22	-10967.42	-85.59	10999.97	50.21	223.35	PASS
400.00	400.00	0.00	0.00	398.35	402.35	845.37	-10967.33	-85.59	10999.86	50.23	223.26	PASS
420.00†	420.00	0.04	0.06	411.66	415.66	845.43	-10967.32	-142.21	10999.92	50.23	223.24	PASS
520.00†	519.96	1.38	2.10	519.39	523.39	845.86	-10967.30	-142.19	11001.86	50.28	223.08	PASS
620.00†	619.78	4.65	7.05	583.46	587.46	846.01	-10967.38	-142.14	11006.68	50.35	222.85	PASS
720.00†	719.33	9.82	14.91	729.69	733.69	845.98	-10967.66	-142.10	11014.36	50.44	222.58	PASS
820.00†	818.50	16.91	25.66	832.97	836.97	845.85	-10967.51	-142.01	11024.40	50.55	222.33	PASS
851.46	849.59	19.53	29.64	863.65	867.65	845.84	-10967.46	-141.98	11028.12	50.58	222.27	PASS
920.00†	917.28	25.45	38.62	926.70	930.70	845.83	-10967.36	-142.01	11036.53	50.63	222.20	PASS
1020.00†	1016.05	34.09	51.73	4036.10	3932.20	323.18	-10583.99	-146.11	11032.05	58.59	191.44	PASS
1120.00†	1114.81	42.72	64.83	4049.43	3944.83	320.55	-10580.65	-146.13	11018.74	58.83	190.41	PASS
1220.00†	1213.57	51.36	77.94	4067.37	3961.89	317.14	-10576.27	-146.16	11006.19	59.10	189.31	PASS
1320.00†	1312.33	59.99	91.04	4085.42	3979.10	313.84	-10571.98	-146.18	10994.37	59.37	188.22	PASS
1420.00†	1411.09	68.63	104.15	4103.57	3996.47	310.66	-10567.78	-146.21	10983.30	59.65	187.13	PASS
1520.00†	1509.85	77.26	117.25	4121.82	4013.99	307.60	-10563.67	-146.23	10972.96	59.94	186.05	PASS
1620.00†	1608.61	85.90	130.36	4144.73	4036.05	303.93	-10558.67	-146.26	10963.36	60.24	184.92	PASS
1720.00†	1707.37	94.53	143.46	4176.80	4066.99	299.00	-10551.84	-146.30	10954.41	60.59	183.70	PASS
1820.00†	1806.13	103.17	156.56	4209.01	4098.13	294.24	-10545.16	-146.34	10946.08	60.63	182.66	PASS
1920.00†	1904.89	111.80	169.67	4261.73	4149.20	286.62	-10534.50	-146.40	10938.31	60.97	181.49	PASS
2020.00†	2003.65	120.44	182.77	4438.87	4320.22	257.94	-10498.35	-146.63	10930.31	61.94	178.50	PASS
2120.00†	2102.41	129.07	195.88	4943.72	4802.53	162.47	-10384.24	-147.35	10919.28	64.90	170.10	PASS
2220.00†	2201.18	137.71	208.98	4975.28	4832.67	156.99	-10376.67	-147.40	10907.84	65.23	169.04	PASS
2320.00†	2299.94	146.34	222.09	5005.58	4861.68	151.86	-10369.56	-147.44	10897.04	65.57	167.99	PASS
2420.00†	2398.70	154.98	235.19	5035.17	4890.06	146.94	-10362.79	-147.48	10886.88	65.91	166.95	PASS
2520.00†	2497.46	163.61	248.29	5064.84	4918.58	142.10	-10356.17	-147.52	10877.36	66.27	165.91	PASS
2620.00†	2596.22	172.25	261.40	5184.50	5033.52	122.13	-10329.60	-147.68	10867.94	67.13	163.60	PASS
2720.00†	2694.98	180.88	274.50	5223.18	5070.69	115.58	-10321.12	-147.73	10858.89	67.57	162.41	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)

Closest Approach

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

CLEARANCE DATA - Offset Wellbore: EX. SHURVIEW 33C-3HZ AWB Offset Wellpath: EX. SHURVIEW 33C-3HZ AWP												
Facility: SEC.03-T05N-R67W		Slot: SLOT#04 EX. SHURVIEW 33C-3HZ (2016'FSL & 1191'FEL, CODL/PR)		Well: EX. SHURVIEW 33C-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station						
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	5805.78	5628.55	21.09	-10182.85	-148.50	10848.74	71.17	153.96	PASS
2920.00†	2892.50	198.15	300.71	5823.32	5645.30	18.46	-10178.34	-148.52	10836.09	71.53	153.00	PASS
3020.00†	2991.26	206.79	313.82	5840.63	5661.88	15.98	-10174.01	-148.54	10824.19	71.90	152.04	PASS
3120.00†	3090.02	215.42	326.92	5852.38	5673.16	14.36	-10171.15	-148.56	10813.08	72.23	151.17	PASS
3220.00†	3188.78	224.06	340.03	5864.17	5684.52	12.81	-10168.38	-148.57	10802.77	72.58	150.30	PASS
3320.00†	3287.55	232.69	353.13	5876.02	5695.95	11.31	-10165.68	-148.58	10793.28	72.93	149.44	PASS
3420.00†	3386.31	241.33	366.23	5887.91	5707.46	9.87	-10163.06	-148.60	10784.59	73.29	148.58	PASS
3520.00†	3485.07	249.96	379.34	5899.85	5719.04	8.49	-10160.53	-148.61	10776.72	73.65	147.73	PASS
3620.00†	3583.83	258.60	392.44	5911.82	5730.69	7.17	-10158.08	-148.62	10769.67	74.02	146.89	PASS
3720.00†	3682.59	267.23	405.55	5923.84	5742.41	5.91	-10155.71	-148.63	10763.43	74.40	146.06	PASS
3820.00†	3781.35	275.87	418.65	5959.52	5777.27	2.43	-10148.94	-148.67	10757.91	74.89	145.00	PASS
3920.00†	3880.11	284.50	431.76	5997.84	5814.77	-1.03	-10141.88	-148.71	10752.96	75.41	143.93	PASS
4020.00†	3978.87	293.14	444.86	6029.64	5845.94	-3.69	-10136.19	-148.73	10748.62	75.89	142.97	PASS
4120.00†	4077.63	301.77	457.97	6058.03	5873.82	-5.95	-10131.31	-148.76	10744.94	76.34	142.06	PASS
4220.00†	4176.39	310.41	471.07	6086.48	5901.79	-8.12	-10126.59	-148.78	10741.92	76.80	141.16	PASS
4320.00†	4275.15	319.04	484.17	6113.47	5928.36	-10.06	-10122.30	-148.81	10739.58	77.26	140.29	PASS
4420.00†	4373.91	327.68	497.28	6139.77	5954.31	-11.76	-10118.29	-148.83	10737.93	77.71	139.44	PASS
4520.00†	4472.68	336.31	510.38	6166.14	5980.35	-13.26	-10114.46	-148.85	10736.97	78.17	138.61	PASS
4620.00†	4571.44	344.95	523.49	6196.39	6010.27	-14.77	-10110.27	-148.87	10736.69	78.64	137.77	PASS
4720.00†	4670.20	353.58	536.59	6231.59	6045.11	-16.43	-10105.60	-148.90	10737.02	79.13	136.91	PASS
4820.00†	4768.96	362.22	549.70	6266.59	6079.80	-17.99	-10101.17	-148.92	10737.96	79.62	136.06	PASS
4920.00†	4867.72	370.85	562.80	6292.66	6105.66	-19.14	-10098.04	-148.94	10739.56	80.08	135.29	PASS
5020.00†	4966.48	379.49	575.91	6318.72	6131.52	-20.29	-10095.08	-148.96	10741.84	80.55	134.53	PASS
5120.00†	5065.24	388.12	589.01	6344.77	6157.40	-21.44	-10092.30	-148.97	10744.81	81.01	133.79	PASS
5220.00†	5164.00	396.76	602.11	6366.05	6178.55	-22.38	-10090.18	-148.99	10748.49	81.46	133.09	PASS
5320.00†	5262.76	405.39	615.22	6385.50	6197.91	-23.18	-10088.38	-149.00	10752.92	81.91	132.42	PASS
5420.00†	5361.52	414.03	628.32	6404.96	6217.27	-23.94	-10086.73	-149.01	10758.09	82.35	131.76	PASS
5520.00†	5460.28	422.66	641.43	6424.41	6236.65	-24.65	-10085.23	-149.03	10764.01	82.80	131.12	PASS
5620.00†	5559.05	431.30	654.53	6443.28	6255.47	-25.29	-10083.91	-149.04	10770.68	83.24	130.49	PASS
5720.00†	5657.81	439.93	667.64	6461.10	6273.25	-25.86	-10082.80	-149.05	10778.10	83.68	129.89	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SHURVIEW 33C-3HZ AWB Offset Wellpath: EX. SHURVIEW 33C-3HZ AWP

Facility: SEC.03-T05N-R67W Slot: SLOT#04 EX. SHURVIEW 33C-3HZ (2016'FSL & 1191'FEL, CODL/PR) Well: EX. SHURVIEW 33C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	6478.92	6291.03	-26.37	-10081.82	-149.06	10786.29	84.12	129.31	PASS
5920.00†	5855.33	457.20	693.85	6496.72	6308.80	-26.84	-10080.99	-149.07	10795.23	84.56	128.74	PASS
6020.00†	5954.09	465.84	706.95	6514.50	6326.57	-27.27	-10080.29	-149.08	10804.92	84.99	128.18	PASS
6120.00†	6052.85	474.47	720.05	6549.28	6361.32	-28.02	-10079.19	-149.10	10815.33	85.50	127.55	PASS
6220.00†	6151.61	483.11	733.16	6596.42	6408.44	-28.98	-10077.91	-149.13	10826.24	86.05	126.85	PASS
6320.00†	6250.37	491.74	746.26	6638.32	6450.32	-29.75	-10076.98	-149.15	10837.65	86.58	126.21	PASS
6420.00†	6349.13	500.38	759.37	6696.09	6508.07	-30.67	-10075.88	-149.18	10849.42	87.16	125.49	PASS
6509.39	6437.41	508.10	771.08	6701.21	6513.19	-30.76	-10075.82	-149.18	10860.54	87.50	125.12	PASS
6520.00†	6447.90	509.02	772.38	6701.82	6513.80	-30.77	-10075.81	-145.46	10861.82	87.55	125.07	PASS
6620.00†	6547.35	517.82	776.00	6707.58	6519.56	-30.87	-10075.80	-67.55	10865.70	88.00	124.46	PASS
6720.00†	6646.11	526.74	763.96	6713.31	6525.29	-30.96	-10075.83	-27.65	10854.80	88.86	123.13	PASS
6820.00†	6741.77	535.55	736.55	6718.88	6530.86	-31.06	-10075.91	-18.00	10829.35	90.05	121.21	PASS
6920.00†	6831.97	544.05	694.45	6724.19	6536.16	-31.15	-10076.03	-14.24	10789.89	90.96	119.55	PASS
7020.00†	6914.48	552.02	638.70	6729.11	6541.08	-31.23	-10076.18	-12.55	10737.24	91.69	118.00	PASS
7120.00†	6987.27	559.26	570.67	6733.53	6545.49	-31.31	-10076.35	-11.93	10672.53	92.27	116.55	PASS
7220.00†	7048.56	565.59	492.04	6737.14	6549.10	-31.37	-10076.50	-12.15	10597.17	92.69	115.20	PASS
7320.00†	7096.83	570.87	404.74	6739.77	6551.73	-31.42	-10076.63	-13.36	10512.80	92.98	113.92	PASS
7420.00†	7130.89	574.96	310.91	6741.75	6553.70	-31.45	-10076.73	-16.44	10421.33	93.16	112.72	PASS
7520.00†	7149.90	577.75	212.88	6743.00	6554.95	-31.47	-10076.80	-25.32	10324.86	93.24	111.57	PASS
7594.38	7154.00	578.96	138.67	6743.43	6555.38	-31.48	-10076.83	-51.87	10251.21	93.27	110.74	PASS
7620.00†	7153.92	579.24	113.05	6743.50	6555.45	-31.48	-10076.83	-51.88	10225.70	93.28	110.46	PASS
7720.00†	7153.61	580.34	13.06	6743.78	6555.73	-31.48	-10076.85	-51.89	10126.11	93.30	109.35	PASS
7820.00†	7153.31	581.44	-86.94	6744.07	6556.02	-31.49	-10076.87	-51.91	10026.52	93.33	108.25	PASS
7920.00†	7153.00	582.54	-186.93	6744.37	6556.32	-31.49	-10076.88	-51.92	9926.95	93.36	107.14	PASS
8020.00†	7152.69	583.64	-286.92	6744.67	6556.62	-31.50	-10076.90	-51.94	9827.38	93.39	106.02	PASS
8120.00†	7152.39	584.74	-386.92	6744.98	6556.93	-31.50	-10076.92	-51.95	9727.82	93.44	104.90	PASS
8220.00†	7152.08	585.84	-486.91	6745.29	6557.24	-31.51	-10076.94	-51.97	9628.27	93.48	103.77	PASS
8320.00†	7151.77	586.94	-586.90	6745.61	6557.56	-31.51	-10076.96	-51.98	9528.73	93.54	102.64	PASS
8420.00†	7151.47	588.04	-686.90	6745.94	6557.89	-31.52	-10076.98	-52.00	9429.20	93.59	101.51	PASS
8520.00†	7151.16	589.14	-786.89	6746.27	6558.22	-31.52	-10077.00	-52.02	9329.68	93.66	100.36	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SHURVIEW 33C-3HZ AWP Offset Wellpath: EX. SHURVIEW 33C-3HZ AWP

Facility: SEC.03-T05N-R67W Slot: SLOT#04 EX. SHURVIEW 33C-3HZ (2016'FSL & 1191'FEL, CODL/PR) Well: EX. SHURVIEW 33C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	6746.61	6558.56	-31.53	-10077.02	-52.03	9230.17	93.73	99.22	PASS
8720.00†	7150.54	591.34	-986.88	6746.96	6558.90	-31.53	-10077.04	-52.05	9130.67	93.81	98.07	PASS
8820.00†	7150.24	592.44	-1086.87	6747.31	6559.26	-31.54	-10077.07	-52.07	9031.18	93.89	96.91	PASS
8920.00†	7149.93	593.54	-1186.86	6747.68	6559.62	-31.55	-10077.09	-52.09	8931.70	93.99	95.74	PASS
9020.00†	7149.62	594.64	-1286.86	6748.04	6559.99	-31.55	-10077.11	-52.10	8832.24	94.09	94.58	PASS
9120.00†	7149.32	595.74	-1386.85	6748.42	6560.36	-31.56	-10077.14	-52.12	8732.78	94.20	93.40	PASS
9220.00†	7149.01	596.84	-1486.84	6748.81	6560.75	-31.56	-10077.16	-52.14	8633.34	94.31	92.22	PASS
9320.00†	7148.70	597.94	-1586.84	6749.20	6561.14	-31.57	-10077.19	-52.16	8533.91	94.44	91.04	PASS
9420.00†	7148.40	599.04	-1686.83	6749.61	6561.54	-31.57	-10077.22	-52.18	8434.49	94.58	89.85	PASS
9520.00†	7148.09	600.15	-1786.82	6750.02	6561.96	-31.58	-10077.25	-52.20	8335.09	94.72	88.65	PASS
9620.00†	7147.78	601.25	-1886.82	6750.44	6562.38	-31.59	-10077.28	-52.22	8235.70	94.88	87.45	PASS
9720.00†	7147.47	602.35	-1986.81	6750.87	6562.81	-31.59	-10077.31	-52.25	8136.33	95.04	86.24	PASS
9820.00†	7147.17	603.45	-2086.81	6751.31	6563.25	-31.60	-10077.34	-52.27	8036.97	95.22	85.03	PASS
9920.00†	7146.86	604.55	-2186.80	6751.77	6563.70	-31.61	-10077.37	-52.29	7937.63	95.41	83.81	PASS
10020.00†	7146.55	605.65	-2286.79	6752.23	6564.16	-31.61	-10077.40	-52.31	7838.30	95.61	82.59	PASS
10120.00†	7146.25	606.75	-2386.79	6752.70	6564.63	-31.62	-10077.44	-52.34	7738.99	95.82	81.36	PASS
10220.00†	7145.94	607.85	-2486.78	6753.19	6565.12	-31.63	-10077.48	-52.36	7639.70	96.05	80.12	PASS
10320.00†	7145.63	608.95	-2586.77	6753.69	6565.61	-31.64	-10077.51	-52.39	7540.42	96.29	78.88	PASS
10420.00†	7145.33	610.05	-2686.77	6754.20	6566.13	-31.64	-10077.55	-52.41	7441.17	96.55	77.63	PASS
10520.00†	7145.02	611.15	-2786.76	6754.72	6566.65	-31.65	-10077.59	-52.44	7341.93	96.82	76.38	PASS
10620.00†	7144.71	612.25	-2886.75	6755.26	6567.18	-31.66	-10077.64	-52.47	7242.72	97.11	75.13	PASS
10720.00†	7144.40	613.35	-2986.75	6755.81	6567.73	-31.67	-10077.68	-52.49	7143.52	97.41	73.86	PASS
10820.00†	7144.10	614.45	-3086.74	6756.38	6568.30	-31.68	-10077.72	-52.52	7044.35	97.74	72.59	PASS
10920.00†	7143.79	615.55	-3186.73	6756.96	6568.88	-31.68	-10077.77	-52.55	6945.20	98.08	71.32	PASS
11020.00†	7143.48	616.65	-3286.73	6757.56	6569.47	-31.69	-10077.82	-52.58	6846.08	98.44	70.04	PASS
11120.00†	7143.18	617.75	-3386.72	6758.17	6570.08	-31.70	-10077.87	-52.61	6746.98	98.82	68.76	PASS
11220.00†	7142.87	618.85	-3486.71	6758.80	6570.71	-31.71	-10077.93	-52.64	6647.91	99.23	67.47	PASS
11320.00†	7142.56	619.95	-3586.71	6759.45	6571.36	-31.72	-10077.98	-52.68	6548.86	99.66	66.18	PASS
11420.00†	7142.26	621.05	-3686.70	6760.12	6572.02	-31.73	-10078.04	-52.71	6449.84	100.11	64.88	PASS
11520.00†	7141.95	622.15	-3786.69	6760.81	6572.71	-31.74	-10078.10	-52.75	6350.86	100.59	63.58	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SHURVIEW 33C-3HZ AWB Offset Wellpath: EX. SHURVIEW 33C-3HZ AWP

Facility: SEC.03-T05N-R67W Slot: SLOT#04 EX. SHURVIEW 33C-3HZ (2016'FSL & 1191'FEL, CODL/PR) Well: EX. SHURVIEW 33C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
11620.00†	7141.64	623.25	-3886.69	6761.51	6573.41	-31.75	-10078.16	-52.78	6251.90	101.09	62.27	PASS
11720.00†	7141.33	624.35	-3986.68	6762.24	6574.14	-31.76	-10078.23	-52.82	6152.98	101.62	60.96	PASS
11820.00†	7141.03	625.45	-4086.67	6762.99	6574.89	-31.77	-10078.30	-52.86	6054.09	102.19	59.65	PASS
11920.00†	7140.72	626.55	-4186.67	6763.77	6575.66	-31.78	-10078.37	-52.90	5955.24	102.78	58.33	PASS
12020.00†	7140.41	627.66	-4286.66	6764.57	6576.45	-31.79	-10078.45	-52.94	5856.42	103.41	57.01	PASS
12120.00†	7140.11	628.76	-4386.66	6765.39	6577.27	-31.80	-10078.53	-52.98	5757.65	104.08	55.69	PASS
12220.00†	7139.80	629.86	-4486.65	6766.24	6578.12	-31.81	-10078.61	-53.02	5658.91	104.78	54.37	PASS
12320.00†	7139.49	630.96	-4586.64	6767.12	6579.00	-31.82	-10078.70	-53.07	5560.22	105.52	53.04	PASS
12420.00†	7139.19	632.06	-4686.64	6768.03	6579.90	-31.83	-10078.79	-53.11	5461.58	106.30	51.71	PASS
12520.00†	7138.88	633.16	-4786.63	6768.97	6580.83	-31.84	-10078.88	-53.16	5362.98	107.13	50.39	PASS
12620.00†	7138.57	634.26	-4886.62	6769.94	6581.80	-31.86	-10078.98	-53.21	5264.44	108.01	49.06	PASS
12720.00†	7138.26	635.36	-4986.62	6770.95	6582.80	-31.87	-10079.09	-53.26	5165.95	108.93	47.73	PASS
12820.00†	7137.96	636.46	-5086.61	6771.99	6583.84	-31.88	-10079.20	-53.31	5067.52	109.90	46.40	PASS
12920.00†	7137.65	637.56	-5186.60	6773.08	6584.92	-31.89	-10079.32	-53.37	4969.14	110.94	45.07	PASS
13020.00†	7137.34	638.66	-5286.60	6774.20	6586.03	-31.91	-10079.45	-53.43	4870.83	112.03	43.75	PASS
13120.00†	7137.04	639.76	-5386.59	6775.36	6587.19	-31.92	-10079.58	-53.49	4772.59	113.18	42.43	PASS
13220.00†	7136.73	640.86	-5486.58	6776.57	6588.39	-31.93	-10079.72	-53.55	4674.42	114.40	41.11	PASS
13320.00†	7136.42	641.96	-5586.58	6777.83	6589.64	-31.95	-10079.87	-53.61	4576.33	115.69	39.79	PASS
13420.00†	7136.12	643.06	-5686.57	6779.15	6591.55	-31.97	-10080.10	-53.71	4478.32	117.06	38.48	PASS
13520.00†	7135.81	644.16	-5786.56	6781.84	6593.62	-31.99	-10080.36	-53.82	4380.39	118.51	37.18	PASS
13620.00†	7135.50	645.26	-5886.56	6784.03	6595.79	-32.01	-10080.63	-53.93	4282.55	120.05	35.88	PASS
13720.00†	7135.19	646.36	-5986.55	6786.30	6598.04	-32.02	-10080.92	-54.05	4184.81	121.68	34.59	PASS
13820.00†	7134.89	647.46	-6086.54	6788.68	6600.40	-32.04	-10081.23	-54.17	4087.16	123.40	33.31	PASS
13920.00†	7134.58	648.56	-6186.54	6791.16	6602.86	-32.05	-10081.56	-54.30	3989.63	125.23	32.03	PASS
14020.00†	7134.27	649.66	-6286.53	6793.75	6605.43	-32.05	-10081.91	-54.44	3892.22	127.18	30.77	PASS
14120.00†	7133.97	650.76	-6386.52	6796.47	6608.12	-32.06	-10082.29	-54.58	3794.93	129.24	29.52	PASS
14220.00†	7133.66	651.86	-6486.52	6799.32	6610.94	-32.06	-10082.70	-54.73	3697.77	131.44	28.28	PASS
14320.00†	7133.35	652.96	-6586.51	6802.30	6613.89	-32.05	-10083.13	-54.88	3600.76	133.77	27.06	PASS
14420.00†	7133.05	654.06	-6686.51	6805.44	6617.00	-32.04	-10083.60	-55.05	3503.90	136.26	25.84	PASS
14520.00†	7132.74	655.17	-6786.50	6808.74	6620.25	-32.02	-10084.11	-55.22	3407.21	138.90	24.65	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SHURVIEW 33C-3HZ AWB Offset Wellpath: EX. SHURVIEW 33C-3HZ AWP

Facility: SEC.03-T05N-R67W Slot: SLOT#04 EX. SHURVIEW 33C-3HZ (2016'FSL & 1191'FEL, CODL/PR) Well: EX. SHURVIEW 33C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
14620.00†	7132.43	656.27	-6886.49	6812.21	6623.69	-31.99	-10084.65	-55.41	3310.70	141.72	23.47	PASS
14720.00†	7132.12	657.37	-6986.49	6815.87	6627.30	-31.96	-10085.24	-55.60	3214.39	144.74	22.31	PASS
14820.00†	7131.82	658.47	-7086.48	6819.74	6631.11	-31.91	-10085.88	-55.80	3118.29	147.95	21.17	PASS
14920.00†	7131.51	659.57	-7186.47	6824.18	6635.49	-31.85	-10086.63	-56.04	3022.42	151.40	20.05	PASS
15020.00†	7131.20	660.67	-7286.47	6829.00	6640.23	-31.79	-10087.47	-56.30	2926.80	155.08	18.95	PASS
15120.00†	7130.90	661.77	-7386.46	6834.05	6645.20	-31.74	-10088.37	-56.57	2831.46	159.04	17.88	PASS
15220.00†	7130.59	662.87	-7486.45	6839.35	6650.41	-31.69	-10089.33	-56.86	2736.41	163.28	16.83	PASS
15320.00†	7130.28	663.97	-7586.45	6844.90	6655.86	-31.64	-10090.36	-57.16	2641.69	167.85	15.80	PASS
15420.00†	7129.98	665.07	-7686.44	6850.73	6661.59	-31.60	-10091.47	-57.48	2547.33	172.77	14.80	PASS
15520.00†	7129.67	666.17	-7786.43	6856.87	6667.61	-31.56	-10092.67	-57.82	2453.38	178.09	13.83	PASS
15620.00†	7129.36	667.27	-7886.43	6863.33	6673.94	-31.54	-10093.97	-58.18	2359.87	183.83	12.88	PASS
15720.00†	7129.05	668.37	-7986.42	6869.58	6680.05	-31.52	-10095.25	-58.53	2266.85	190.05	11.97	PASS
15820.00†	7128.75	669.47	-8086.41	6876.14	6686.46	-31.50	-10096.65	-58.90	2174.40	196.80	11.09	PASS
15920.00†	7128.44	670.57	-8186.41	6883.12	6693.28	-31.49	-10098.18	-59.30	2082.57	204.13	10.23	PASS
16020.00†	7128.13	671.67	-8286.40	6890.57	6700.54	-31.48	-10099.86	-59.73	1991.46	212.12	9.42	PASS
16120.00†	7127.83	672.77	-8386.39	6898.53	6708.28	-31.48	-10101.72	-60.19	1901.14	220.85	8.63	PASS
16220.00†	7127.52	673.87	-8486.39	6907.04	6716.53	-31.49	-10103.77	-60.69	1811.74	230.38	7.89	PASS
16320.00†	7127.21	674.97	-8586.38	6912.95	6722.25	-31.51	-10105.25	-61.03	1723.39	240.82	7.17	PASS
16420.00†	7126.90	676.07	-8686.37	6919.36	6728.44	-31.55	-10106.93	-61.41	1636.30	252.26	6.50	PASS
16520.00†	7126.60	677.17	-8786.37	6926.35	6735.17	-31.61	-10108.84	-61.83	1550.65	264.84	5.87	PASS
16620.00†	7126.29	678.27	-8886.36	6933.99	6742.49	-31.71	-10111.01	-62.28	1466.68	278.67	5.27	PASS
16720.00†	7125.98	679.37	-8986.36	6942.38	6750.49	-31.85	-10113.51	-62.79	1384.67	293.87	4.72	PASS
16820.00†	7125.68	680.47	-9086.35	6951.81	6759.45	-32.05	-10116.46	-63.36	1304.97	310.58	4.21	PASS
16920.00†	7125.37	681.57	-9186.34	6962.78	6769.81	-32.34	-10120.07	-64.03	1227.98	328.91	3.74	PASS
17020.00†	7125.06	682.68	-9286.34	6974.95	6781.22	-32.71	-10124.28	-64.78	1154.19	348.91	3.31	PASS
17120.00†	7124.76	683.78	-9386.33	6988.52	6793.84	-33.19	-10129.24	-65.62	1084.19	370.58	2.93	PASS
17220.00†	7124.45	684.88	-9486.32	7005.66	6809.65	-33.94	-10135.82	-66.69	1018.65	393.88	2.59	PASS
17320.00†	7124.14	685.98	-9586.32	7024.70	6827.09	-35.03	-10143.38	-67.89	958.33	418.53	2.29	PASS
17366.24	7124.00	686.49	-9632.55	7033.95	6835.52	-35.65	-10147.14	-68.48	932.47	430.24	2.17	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. SHURVIEW 33C-3HZ AWB Offset Wellpath: EX. SHURVIEW 33C-3HZ AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. SHURVIEW 33C-3HZ AWB Offset Wellpath: EX. SHURVIEW 33C-3HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	1217.00	BHI Generic gyro - continuous (Standard)	MS GYRODATA SURVEYS <17-1217>	EX. SHURVIEW 33C-3HZ AWB
1217.00	7632.00	BHI NaviTrak (Standard)	8 3/4" NAVIGAMMA VERTICAL & CURVE <1360'-7632'>	EX. SHURVIEW 33C-3HZ AWB
7632.00	11623.00	BHI OnTrak (Standard)	6 1/8" ONTRAK CODELL LATERAL <7724-11623>	EX. SHURVIEW 33C-3HZ AWB
11623.00	11689.00	Blind Drilling (std)	Projection to bit	EX. SHURVIEW 33C-3HZ AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. SHURVIEW 33C-3HZ AWB Offset Wellpath: EX. SHURVIEW 33C-3HZ AWP

MD Reference: Rig on SLOT#04 EX. SHURVIEW 33C-3HZ (2016'FSL & 1191'FEL, CODL/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HERTZKE 1-34 AWB Offset Wellpath: EX. HERTZKE 1-34 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#26 EX. HERTZKE1-34 (766'FSL & 1975'FWL, CODL/SI) Well: EX. HERTZKE 1-34 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	25.00	20.00	-453.02	-2904.25	-98.87	2939.37	2.29	2215.13	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. HERTZKE 1-34 AWB Offset Wellpath: EX. HERTZKE 1-34 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. HERTZKE 1-34 AWB Offset Wellpath: EX. HERTZKE 1-34 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7342.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7342>	EX. HERTZKE 1-34 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. HERTZKE 1-34 AWB Offset Wellpath: EX. HERTZKE 1-34 AWP

MD Reference: Rig on SLOT#26 EX. HERTZKE1-34 (766'FSL & 1975'FWL, CODL/SI) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HERTZKE 1-33 AWB Offset Wellpath: EX. HERTZKE 1-33 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#25 EX. HERTZKE 1-33 (660'FSL & 641'FWL, CODL/SI) Well: EX. HERTZKE 1-33 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	48.00	20.00	-581.43	-4227.07	-97.83	4266.87	2.96	2138.39	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. HERTZKE 1-33 AWB Offset Wellpath: EX. HERTZKE 1-33 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. HERTZKE 1-33 AWB Offset Wellpath: EX. HERTZKE 1-33 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7334.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7334>	EX. HERTZKE 1-33 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. HERTZKE 1-33 AWB Offset Wellpath: EX. HERTZKE 1-33 AWP

MD Reference: Rig on SLOT#25 EX. HERTZKE 1-33 (660'FSL & 641'FWL, CODL/SI) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. E JOHNSON FEDERAL 2-23 AWB Offset Wellpath: EX. E JOHNSON FEDERAL 2-23 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#04 EX. E. JOHNSON FEDERAL 2-23 (2129'FNL & 498'FWL, CODL/SI) Well: EX. E JOHNSON FEDERAL 2-23 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	42.00	20.00	2585.73	-8984.24	-73.94	9348.94	50.25	189.65	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. E JOHNSON FEDERAL 2-23 AWB Offset Wellpath: EX. E JOHNSON FEDERAL 2-23 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. E JOHNSON FEDERAL 2-23 AWB Offset Wellpath: EX. E JOHNSON FEDERAL 2-23 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7347.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7347>	EX. E JOHNSON FEDERAL 2-23 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. E JOHNSON FEDERAL 2-23 AWB Offset Wellpath: EX. E JOHNSON FEDERAL 2-23 AWP

MD Reference: Rig on SLOT#04 EX. E. JOHNSON FEDERAL 2-23 (2129'FNL & 498'FWL, CODL/SI) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 3 AWB Offset Wellpath: EX. GENESIS 3 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#01 EX. GENESIS 3 (660'FSL & 660'FEL, CODL/PR) Well: EX. GENESIS 3 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	7.00	20.00	-430.60	-346.07	-141.21	552.43	50.18	11.20	PASS
120.00†	120.00	0.00	0.00	107.00	120.00	-430.60	-346.07	-141.21	552.43	50.44	11.15	PASS
220.00†	220.00	0.00	0.00	207.00	220.00	-430.60	-346.07	-141.21	552.43	51.43	10.93	PASS
320.00†	320.00	0.00	0.00	307.00	320.00	-430.60	-346.07	-141.21	552.43	53.14	10.57	PASS
400.00	400.00	0.00	0.00	387.00	400.00	-430.60	-346.07	-141.21	552.43	54.94	10.22	PASS
420.00†	420.00	0.04	0.06	407.00	420.00	-430.60	-346.07	162.17	552.49	55.43	10.13	PASS
520.00†	519.96	1.38	2.10	506.96	519.96	-430.60	-346.07	162.24	554.82	58.21	9.68	PASS
620.00†	619.78	4.65	7.05	606.78	619.78	-430.60	-346.07	162.39	560.47	61.38	9.26	PASS
720.00†	719.33	9.82	14.91	706.33	719.33	-430.60	-346.07	162.62	569.45	64.82	8.90	PASS
820.00†	818.50	16.91	25.66	805.50	818.50	-430.60	-346.07	162.93	581.76	68.46	8.60	PASS
851.46	849.59	19.53	29.64	836.59	849.59	-430.60	-346.07	163.04	586.32	69.64	8.52	PASS
920.00†	917.28	25.45	38.62	904.28	917.28	-430.60	-346.07	163.34	596.63	72.20	8.36	PASS
1020.00†	1016.05	34.09	51.73	1003.05	1016.05	-430.60	-346.07	163.76	611.70	76.06	8.13	PASS
1120.00†	1114.81	42.72	64.83	1101.81	1114.81	-430.60	-346.07	164.16	626.79	80.02	7.92	PASS
1220.00†	1213.57	51.36	77.94	1200.57	1213.57	-430.60	-346.07	164.54	641.92	84.06	7.71	PASS
1320.00†	1312.33	59.99	91.04	1299.33	1312.33	-430.60	-346.07	164.91	657.07	88.17	7.52	PASS
1420.00†	1411.09	68.63	104.15	1398.09	1411.09	-430.60	-346.07	165.25	672.25	92.33	7.35	PASS
1520.00†	1509.85	77.26	117.25	1496.85	1509.85	-430.60	-346.07	165.59	687.45	96.54	7.18	PASS
1620.00†	1608.61	85.90	130.36	1595.61	1608.61	-430.60	-346.07	165.90	702.67	100.79	7.03	PASS
1720.00†	1707.37	94.53	143.46	1694.37	1707.37	-430.60	-346.07	166.21	717.91	105.08	6.89	PASS
1820.00†	1806.13	103.17	156.56	1793.13	1806.13	-430.60	-346.07	166.50	733.17	109.10	6.76	PASS
1920.00†	1904.89	111.80	169.67	1891.89	1904.89	-430.60	-346.07	166.78	748.45	113.36	6.64	PASS
2020.00†	2003.65	120.44	182.77	1990.65	2003.65	-430.60	-346.07	167.05	763.75	117.65	6.53	PASS
2120.00†	2102.41	129.07	195.88	2089.41	2102.41	-430.60	-346.07	167.31	779.06	121.96	6.42	PASS
2220.00†	2201.18	137.71	208.98	2188.18	2201.18	-430.60	-346.07	167.56	794.39	126.31	6.32	PASS
2320.00†	2299.94	146.34	222.09	2286.94	2299.94	-430.60	-346.07	167.80	809.73	130.67	6.22	PASS
2420.00†	2398.70	154.98	235.19	2385.70	2398.70	-430.60	-346.07	168.03	825.08	135.06	6.14	PASS
2520.00†	2497.46	163.61	248.29	2484.46	2497.46	-430.60	-346.07	168.25	840.45	139.47	6.05	PASS
2620.00†	2596.22	172.25	261.40	2583.22	2596.22	-430.60	-346.07	168.46	855.82	143.90	5.97	PASS
2720.00†	2694.98	180.88	274.50	2681.98	2694.98	-430.60	-346.07	168.67	871.21	148.35	5.90	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 3 AWB Offset Wellpath: EX. GENESIS 3 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#01 EX. GENESIS 3 (660'FSL & 660'FEL, CODL/PR) Well: EX. GENESIS 3 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2780.74	2793.74	-430.60	-346.07	168.87	886.61	152.82	5.82	PASS
2920.00†	2892.50	198.15	300.71	2879.50	2892.50	-430.60	-346.07	169.06	902.02	157.30	5.76	PASS
3020.00†	2991.26	206.79	313.82	2978.26	2991.26	-430.60	-346.07	169.25	917.44	161.80	5.69	PASS
3120.00†	3090.02	215.42	326.92	3077.02	3090.02	-430.60	-346.07	169.43	932.87	166.31	5.63	PASS
3220.00†	3188.78	224.06	340.03	3175.78	3188.78	-430.60	-346.07	169.60	948.31	170.84	5.57	PASS
3320.00†	3287.55	232.69	353.13	3274.55	3287.55	-430.60	-346.07	169.77	963.76	175.38	5.51	PASS
3420.00†	3386.31	241.33	366.23	3373.31	3386.31	-430.60	-346.07	169.93	979.21	179.94	5.46	PASS
3520.00†	3485.07	249.96	379.34	3472.07	3485.07	-430.60	-346.07	170.09	994.67	184.51	5.41	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. GENESIS 3 AWB Offset Wellpath: EX. GENESIS 3 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. GENESIS 3 AWB Offset Wellpath: EX. GENESIS 3 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7268.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7268>	EX. GENESIS 3 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. GENESIS 3 AWB Offset Wellpath: EX. GENESIS 3 AWP

MD Reference: Rig on SLOT#01 EX. GENESIS 3 (660'FSL & 660'FEL, CODL/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-1-20 PWB Offset Wellpath: EX. GENESIS 9-1-20 PWP

Facility: SEC.01-T05N-R67W Slot: SLOT#03 EX. GENESIS 9-1-20 (725'FSL & 378'FEL, XX) Well: EX. GENESIS 9-1-20 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	4.00	20.00	-359.56	-81.28	-167.26	368.63	50.17	7.47	PASS
120.00†	120.00	0.00	0.00	104.00	120.00	-359.56	-81.28	-167.26	368.63	50.23	7.46	PASS
220.00†	220.00	0.00	0.00	204.00	220.00	-359.56	-81.28	-167.26	368.63	50.29	7.45	PASS
320.00†	320.00	0.00	0.00	304.00	320.00	-359.56	-81.28	-167.26	368.63	50.36	7.44	PASS
400.00	400.00	0.00	0.00	384.00	400.00	-359.56	-81.28	-167.26	368.63	50.42	7.43	PASS
420.00†	420.00	0.04	0.06	404.00	420.00	-359.56	-81.28	136.13	368.68	50.43	7.43	PASS
520.00†	519.96	1.38	2.10	503.96	519.96	-359.56	-81.28	136.37	370.45	50.52	7.46	PASS
620.00†	619.78	4.65	7.05	603.78	619.78	-359.56	-81.28	136.93	374.76	50.63	7.53	PASS
720.00†	719.33	9.82	14.91	703.33	719.33	-359.56	-81.28	137.80	381.70	50.76	7.65	PASS
820.00†	818.50	16.91	25.66	802.50	818.50	-359.56	-81.28	138.94	391.36	50.89	7.82	PASS
851.46	849.59	19.53	29.64	833.59	849.59	-359.56	-81.28	139.34	394.99	50.93	7.89	PASS
920.00†	917.28	25.45	38.62	901.28	917.28	-359.56	-81.28	140.33	403.25	51.00	8.04	PASS
1020.00†	1016.05	34.09	51.73	1000.05	1016.05	-359.56	-81.28	141.71	415.51	51.12	8.27	PASS
1120.00†	1114.81	42.72	64.83	1101.92	1117.90	-358.60	-82.82	143.28	427.63	51.30	8.48	PASS
1220.00†	1213.57	51.36	77.94	1203.05	1218.88	-355.76	-87.39	145.21	439.43	51.50	8.68	PASS
1320.00†	1312.33	59.99	91.04	1303.21	1318.64	-351.08	-94.89	147.47	451.21	51.72	8.87	PASS
1420.00†	1411.09	68.63	104.15	1402.16	1416.84	-344.66	-105.21	150.00	463.32	51.96	9.07	PASS
1520.00†	1509.85	77.26	117.25	1499.70	1513.17	-336.58	-118.19	152.76	476.14	52.21	9.27	PASS
1620.00†	1608.61	85.90	130.36	1595.64	1607.36	-326.95	-133.66	155.71	490.05	52.47	9.50	PASS
1720.00†	1707.37	94.53	143.46	1689.81	1699.16	-315.88	-151.45	158.79	505.44	52.75	9.74	PASS
1820.00†	1806.13	103.17	156.56	1783.73	1790.24	-303.75	-170.91	161.91	522.57	52.74	10.03	PASS
1920.00†	1904.89	111.80	169.67	1877.88	1881.53	-291.57	-190.48	164.86	541.26	52.97	10.34	PASS
2020.00†	2003.65	120.44	182.77	1972.03	1972.81	-279.39	-210.05	167.62	561.36	53.23	10.68	PASS
2120.00†	2102.41	129.07	195.88	2066.18	2064.10	-267.21	-229.61	170.20	582.71	53.51	11.02	PASS
2220.00†	2201.18	137.71	208.98	2160.33	2155.38	-255.03	-249.18	172.60	605.19	53.81	11.38	PASS
2320.00†	2299.94	146.34	222.09	2254.49	2246.68	-242.85	-268.75	174.84	628.67	54.14	11.75	PASS
2420.00†	2398.70	154.98	235.19	2348.65	2337.98	-230.67	-288.31	176.92	653.04	54.49	12.13	PASS
2520.00†	2497.46	163.61	248.29	2442.80	2429.26	-218.49	-307.87	178.86	678.21	54.87	12.51	PASS
2620.00†	2596.22	172.25	261.40	2536.96	2520.55	-206.32	-327.43	-179.34	704.10	55.26	12.89	PASS
2720.00†	2694.98	180.88	274.50	2631.11	2611.84	-194.14	-346.99	-177.65	730.62	55.68	13.28	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-1-20 PWB Offset Wellpath: EX. GENESIS 9-1-20 PWP

Facility: SEC.01-T05N-R67W Slot: SLOT#03 EX. GENESIS 9-1-20 (725'FSL & 378'FEL, XX) Well: EX. GENESIS 9-1-20 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2725.26	2703.13	-181.96	-366.55	-176.09	757.71	56.12	13.66	PASS
2920.00†	2892.50	198.15	300.71	2819.41	2794.42	-169.78	-386.11	-174.62	785.31	56.58	14.04	PASS
3020.00†	2991.26	206.79	313.82	2913.57	2885.71	-157.61	-405.67	-173.26	813.37	57.06	14.42	PASS
3120.00†	3090.02	215.42	326.92	3007.72	2977.00	-145.43	-425.23	-171.98	841.85	57.56	14.80	PASS
3220.00†	3188.78	224.06	340.03	3101.87	3068.29	-133.25	-444.78	-170.78	870.70	58.07	15.17	PASS
3320.00†	3287.55	232.69	353.13	3196.02	3159.58	-121.07	-464.34	-169.66	899.88	58.61	15.53	PASS
3420.00†	3386.31	241.33	366.23	3290.18	3250.87	-108.90	-483.90	-168.61	929.37	59.16	15.89	PASS
3520.00†	3485.07	249.96	379.34	3384.33	3342.16	-96.72	-503.46	-167.62	959.14	59.73	16.24	PASS
3620.00†	3583.83	258.60	392.44	3478.48	3433.45	-84.54	-523.02	-166.69	989.16	60.31	16.58	PASS
3720.00†	3682.59	267.23	405.55	3572.63	3524.74	-72.37	-542.58	-165.81	1019.41	60.91	16.92	PASS
3820.00†	3781.35	275.87	418.65	3666.79	3616.03	-60.19	-562.14	-164.98	1049.87	61.53	17.25	PASS
3920.00†	3880.11	284.50	431.76	3760.94	3707.32	-48.01	-581.70	-164.20	1080.52	62.16	17.57	PASS
4020.00†	3978.87	293.14	444.86	3855.09	3798.61	-35.83	-601.26	-163.46	1111.35	62.80	17.89	PASS
4120.00†	4077.63	301.77	457.97	3949.24	3889.90	-23.66	-620.82	-162.76	1142.34	63.46	18.19	PASS
4220.00†	4176.39	310.41	471.07	4043.40	3981.19	-11.48	-640.38	-162.09	1173.47	64.13	18.49	PASS
4320.00†	4275.15	319.04	484.17	4137.55	4072.48	0.70	-659.94	-161.46	1204.75	64.81	18.78	PASS
4420.00†	4373.91	327.68	497.28	4231.70	4163.77	12.88	-679.50	-160.87	1236.15	65.51	19.06	PASS
4520.00†	4472.68	336.31	510.38	4325.85	4255.06	25.05	-699.06	-160.29	1267.67	66.22	19.34	PASS
4620.00†	4571.44	344.95	523.49	4420.01	4346.35	37.23	-718.62	-159.75	1299.30	66.94	19.61	PASS
4720.00†	4670.20	353.58	536.59	4514.16	4437.64	49.41	-738.18	-159.24	1331.03	67.68	19.87	PASS
4820.00†	4768.96	362.22	549.70	4608.31	4528.93	61.59	-757.74	-158.74	1362.86	68.42	20.12	PASS
4920.00†	4867.72	370.85	562.80	4702.46	4620.22	73.76	-777.30	-158.27	1394.77	69.17	20.36	PASS
5020.00†	4966.48	379.49	575.91	4796.62	4711.51	85.94	-796.86	-157.82	1426.77	69.94	20.60	PASS
5120.00†	5065.24	388.12	589.01	4890.77	4802.80	98.12	-816.42	-157.39	1458.84	70.71	20.83	PASS
5220.00†	5164.00	396.76	602.11	4984.92	4894.09	110.29	-835.98	-156.98	1490.98	71.50	21.05	PASS
5320.00†	5262.76	405.39	615.22	5079.07	4985.38	122.47	-855.54	-156.58	1523.19	72.29	21.27	PASS
5420.00†	5361.52	414.03	628.32	5173.23	5076.67	134.65	-875.10	-156.21	1555.46	73.10	21.48	PASS
5520.00†	5460.28	422.66	641.43	5267.38	5167.96	146.83	-894.66	-155.84	1587.80	73.91	21.68	PASS
5620.00†	5559.05	431.30	654.53	5361.53	5259.25	159.00	-914.22	-155.49	1620.18	74.73	21.88	PASS
5720.00†	5657.81	439.93	667.64	5484.33	5378.50	174.50	-939.11	-155.07	1652.31	75.87	21.97	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-1-20 PWB Offset Wellpath: EX. GENESIS 9-1-20 PWP

Facility: SEC.01-T05N-R67W Slot: SLOT#03 EX. GENESIS 9-1-20 (725'FSL & 378'FEL, XX) Well: EX. GENESIS 9-1-20 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5655.93	5546.83	192.02	-967.26	-154.71	1680.98	77.42	21.90	PASS
5920.00†	5855.33	457.20	693.85	5832.49	5721.79	204.46	-987.23	-154.59	1705.21	78.82	21.82	PASS
6020.00†	5954.09	465.84	706.95	6012.84	5901.65	211.26	-998.15	-154.72	1724.80	80.06	21.73	PASS
6120.00†	6052.85	474.47	720.05	6164.07	6052.85	212.47	-1000.09	-155.01	1739.98	81.03	21.65	PASS
6220.00†	6151.61	483.11	733.16	6262.83	6151.61	212.47	-1000.09	-155.22	1754.25	81.81	21.62	PASS
6320.00†	6250.37	491.74	746.26	6361.59	6250.37	212.47	-1000.09	-155.43	1768.54	82.60	21.59	PASS
6420.00†	6349.13	500.38	759.37	6460.35	6349.13	212.47	-1000.09	-155.64	1782.86	83.40	21.55	PASS
6509.39	6437.41	508.10	771.08	6548.63	6437.41	212.47	-1000.09	-155.83	1795.67	84.11	21.52	PASS
6520.00†	6447.90	509.02	772.38	6559.13	6447.90	212.47	-1000.09	-152.11	1797.11	84.19	21.52	PASS
6620.00†	6547.35	517.82	776.00	6658.57	6547.35	212.47	-1000.09	-74.40	1802.15	85.10	21.35	PASS
6720.00†	6646.11	526.74	763.96	6757.33	6646.11	212.47	-1000.09	-34.96	1791.82	86.48	20.88	PASS
6820.00†	6741.77	535.55	736.55	6852.99	6741.77	212.47	-1000.09	-26.06	1766.44	88.18	20.19	PASS
6920.00†	6831.97	544.05	694.45	6943.19	6831.97	212.47	-1000.09	-23.46	1726.68	89.53	19.43	PASS
7020.00†	6914.48	552.02	638.70	7025.70	6914.48	212.47	-1000.09	-23.48	1673.60	90.66	18.60	PASS
7120.00†	6987.27	559.26	570.67	7098.49	6987.27	212.47	-1000.09	-25.42	1608.59	91.62	17.69	PASS
7220.00†	7048.56	565.59	492.04	7159.78	7048.56	212.47	-1000.09	-29.55	1533.35	92.42	16.71	PASS
7320.00†	7096.83	570.87	404.74	7208.05	7096.83	212.47	-1000.09	-36.95	1449.83	93.10	15.69	PASS
7420.00†	7130.89	574.96	310.91	7242.11	7130.89	212.47	-1000.09	-49.82	1360.20	93.70	14.62	PASS
7520.00†	7149.90	577.75	212.88	7251.21	7139.99	212.47	-1000.09	-69.52	1266.82	94.27	13.53	PASS
7594.38	7154.00	578.96	138.67	7251.21	7139.99	212.47	-1000.09	-88.41	1196.36	94.72	12.72	PASS
7620.00†	7153.92	579.24	113.05	7251.21	7139.99	212.47	-1000.09	-88.41	1172.09	94.88	12.44	PASS
7720.00†	7153.61	580.34	13.06	7251.21	7139.99	212.47	-1000.09	-88.41	1077.95	95.67	11.34	PASS
7820.00†	7153.31	581.44	-86.94	7251.21	7139.99	212.47	-1000.09	-88.41	984.97	96.75	10.25	PASS
7920.00†	7153.00	582.54	-186.93	7251.21	7139.99	212.47	-1000.09	-88.41	893.51	98.23	9.15	PASS
8020.00†	7152.69	583.64	-286.92	7251.21	7139.99	212.47	-1000.09	-88.41	804.08	100.29	8.07	PASS
8120.00†	7152.39	584.74	-386.92	7251.21	7139.99	212.47	-1000.09	-88.41	717.44	103.15	7.00	PASS
8220.00†	7152.08	585.84	-486.91	7251.21	7139.99	212.47	-1000.09	-88.41	634.75	107.11	5.96	PASS
8320.00†	7151.77	586.94	-586.90	7251.21	7139.99	212.47	-1000.09	-88.41	557.76	112.48	4.98	PASS
8420.00†	7151.47	588.04	-686.90	7251.21	7139.99	212.47	-1000.09	-88.41	489.16	119.45	4.11	PASS
8520.00†	7151.16	589.14	-786.89	7251.21	7139.99	212.47	-1000.09	-88.41	432.97	127.66	3.40	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-1-20 PWB Offset Wellpath: EX. GENESIS 9-1-20 PWP

Facility: SEC.01-T05N-R67W Slot: SLOT#03 EX. GENESIS 9-1-20 (725'FSL & 378'FEL, XX) Well: EX. GENESIS 9-1-20 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8620.00†	7150.85	590.24	-886.88	7251.21	7139.99	212.47	-1000.09	-88.41	394.52	135.58	2.92	PASS
8720.00†	7150.54	591.34	-986.88	7251.21	7139.99	212.47	-1000.09	-88.41	379.25	140.55	2.71	PASS
8743.73†	7150.47	591.60	-1010.60	7251.21	7139.99	212.47	-1000.09	-88.41	379.43	141.04	2.70	PASS
8820.00†	7150.24	592.44	-1086.87	7251.21	7139.99	212.47	-1000.09	-88.41	389.90	140.66	2.78	PASS
8920.00†	7149.93	593.54	-1186.86	7251.21	7139.99	212.47	-1000.09	-88.41	424.50	136.75	3.12	PASS
9020.00†	7149.62	594.64	-1286.86	7251.21	7139.99	212.47	-1000.09	-88.41	477.90	131.17	3.66	PASS
9120.00†	7149.32	595.74	-1386.85	7251.21	7139.99	212.47	-1000.09	-88.41	544.59	125.66	4.35	PASS
9220.00†	7149.01	596.84	-1486.84	7251.21	7139.99	212.47	-1000.09	-88.41	620.29	120.91	5.15	PASS
9320.00†	7148.70	597.94	-1586.84	7251.21	7139.99	212.47	-1000.09	-88.41	702.10	117.04	6.03	PASS
9420.00†	7148.40	599.04	-1686.83	7251.21	7139.99	212.47	-1000.09	-88.41	788.12	113.93	6.95	PASS
9520.00†	7148.09	600.15	-1786.82	7251.21	7139.99	212.47	-1000.09	-88.41	877.11	111.43	7.91	PASS
9620.00†	7147.78	601.25	-1886.82	7251.21	7139.99	212.47	-1000.09	-88.41	968.24	109.42	8.90	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. GENESIS 9-1-20 PWB Offset Wellpath: EX. GENESIS 9-1-20 PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. GENESIS 9-1-20 PWB Offset Wellpath: EX. GENESIS 9-1-20 PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7251.21	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL PWP SURVEYS PROVIDED BY SRC <7251.21>	EX. GENESIS 9-1-20 PWB



**Clearance Report**  
**GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)**  
**Closest Approach**  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. GENESIS 9-1-20 PWB Offset Wellpath: EX. GENESIS 9-1-20 PWP	
MD Reference: Rig on SLOT#03 EX. GENESIS 9-1-20 (725'FSL & 378'FEL, XX) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. E JOHNSON FEDERAL 2-24 AWB Offset Wellpath: EX. E JOHNSON FEDERAL 2-24 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#05 EX. E. JOHNSON FEDERAL 2-24 (2074'FNL & 1707'FWL, CODL/PR) Well: EX. E JOHNSON FEDERAL 2-24 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	37.00	20.00	2614.44	-7698.06	-71.24	8129.91	50.24	164.95	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. E JOHNSON FEDERAL 2-24 AWB Offset Wellpath: EX. E JOHNSON FEDERAL 2-24 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. E JOHNSON FEDERAL 2-24 AWB Offset Wellpath: EX. E JOHNSON FEDERAL 2-24 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7386.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7386>	EX. E JOHNSON FEDERAL 2-24 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. E JOHNSON FEDERAL 2-24 AWB Offset Wellpath: EX. E JOHNSON FEDERAL 2-24 AWP

MD Reference: Rig on SLOT#05 E. JOHNSON FEDERAL 2-24 (2074'FNL & 1707'FWL, CODL/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HSR KNOX 16-3 AWB Offset Wellpath: EX.HSR KNOX 16-3 AWP

Facility: SEC.03-T05N-R67W Slot: SLOT#07 EX. HSR KNOX 16-3 (527'FSL & 831'FEL, NB-CD/AB) Well: EX. HSR KNOX 16-3 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	-4.00	20.00	-644.92	-10987.32	-93.36	11006.23	25.57	447.34	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. HSR KNOX 16-3 AWB Offset Wellpath: EX.HSR KNOX 16-3 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. HSR KNOX 16-3 AWB Offset Wellpath: EX.HSR KNOX 16-3 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7301.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7301>	EX. HSR KNOX 16-3 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. HSR KNOX 16-3 AWB Offset Wellpath: EX.HSR KNOX 16-3 AWP

MD Reference: Rig on SLOT#07 EX. HSR KNOX 9-3 (527'FSL & 831'FEL, NB-CD/AB) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SKYWAY 4-11 AWB Offset Wellpath: EX. SKYWAY 4-11 AWP

Facility: SEC.11-T05N-R67W Slot: SLOT#03 EX. SKYWAY 4-11 (470'FNL & 604'FWL, NB-CD/PR) Well: EX. SKYWAY 4-11 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	48.00	20.00	-1647.39	-9521.50	-99.82	9662.96	50.27	195.97	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. SKYWAY 4-11 AWB Offset Wellpath: EX. SKYWAY 4-11 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. SKYWAY 4-11 AWB Offset Wellpath: EX. SKYWAY 4-11 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7794.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7794>	EX. SKYWAY 4-11 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. SKYWAY 4-11 AWB Offset Wellpath: EX. SKYWAY 4-11 AWP

MD Reference: Rig on SLOT#03 EX. SKYWAY 4-11 (470'FNL & 604'FWL, NB-CD/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. BRANDONDI 1 AWB Offset Wellpath: EX. BRANDONDI 1 AWP

Facility: SEC.06-T05N-R66W Slot: SLOT#01 EX. BRANDONDI 1 (682'FSL & 666'FWL, NB-CD/SI) Well: EX. BRANDONDI 1 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	-1.00	20.00	-434.95	976.73	114.00	1069.20	25.57	43.42	PASS
120.00†	120.00	0.00	0.00	99.00	120.00	-434.95	976.73	114.00	1069.20	50.37	21.62	PASS
220.00†	220.00	0.00	0.00	199.00	220.00	-434.95	976.73	114.00	1069.20	51.31	21.22	PASS
320.00†	320.00	0.00	0.00	299.00	320.00	-434.95	976.73	114.00	1069.20	52.96	20.54	PASS
400.00	400.00	0.00	0.00	379.00	400.00	-434.95	976.73	114.00	1069.20	54.76	19.86	PASS
420.00†	420.00	0.04	0.06	399.00	420.00	-434.95	976.73	57.39	1069.16	55.22	19.69	PASS
520.00†	519.96	1.38	2.10	498.96	519.96	-434.95	976.73	57.52	1067.85	57.95	18.72	PASS
620.00†	619.78	4.65	7.05	598.78	619.78	-434.95	976.73	57.85	1064.67	61.06	17.70	PASS
720.00†	719.33	9.82	14.91	698.33	719.33	-434.95	976.73	58.36	1059.68	64.45	16.68	PASS
820.00†	818.50	16.91	25.66	797.50	818.50	-434.95	976.73	59.07	1052.95	68.04	15.68	PASS
851.46	849.59	19.53	29.64	828.59	849.59	-434.95	976.73	59.33	1050.49	69.22	15.38	PASS
920.00†	917.28	25.45	38.62	896.28	917.28	-434.95	976.73	59.84	1045.00	71.78	14.74	PASS
1020.00†	1016.05	34.09	51.73	995.05	1016.05	-434.95	976.73	60.58	1037.13	75.65	13.87	PASS
1120.00†	1114.81	42.72	64.83	1093.81	1114.81	-434.95	976.73	61.33	1029.43	79.62	13.08	PASS
1220.00†	1213.57	51.36	77.94	1192.57	1213.57	-434.95	976.73	62.10	1021.92	83.69	12.34	PASS
1320.00†	1312.33	59.99	91.04	1291.33	1312.33	-434.95	976.73	62.87	1014.60	87.83	11.67	PASS
1420.00†	1411.09	68.63	104.15	1390.09	1411.09	-434.95	976.73	63.66	1007.47	92.03	11.05	PASS
1520.00†	1509.85	77.26	117.25	1488.85	1509.85	-434.95	976.73	64.46	1000.54	96.29	10.49	PASS
1620.00†	1608.61	85.90	130.36	1587.61	1608.61	-434.95	976.73	65.26	993.80	100.60	9.96	PASS
1720.00†	1707.37	94.53	143.46	1686.37	1707.37	-434.95	976.73	66.08	987.27	104.95	9.48	PASS
1820.00†	1806.13	103.17	156.56	1785.13	1806.13	-434.95	976.73	66.91	980.94	109.00	9.05	PASS
1920.00†	1904.89	111.80	169.67	1883.89	1904.89	-434.95	976.73	67.75	974.83	113.27	8.65	PASS
2020.00†	2003.65	120.44	182.77	1982.65	2003.65	-434.95	976.73	68.60	968.93	117.56	8.29	PASS
2120.00†	2102.41	129.07	195.88	2081.41	2102.41	-434.95	976.73	69.46	963.25	121.89	7.94	PASS
2220.00†	2201.18	137.71	208.98	2180.18	2201.18	-434.95	976.73	70.33	957.80	126.23	7.62	PASS
2320.00†	2299.94	146.34	222.09	2278.94	2299.94	-434.95	976.73	71.21	952.57	130.61	7.33	PASS
2420.00†	2398.70	154.98	235.19	2377.70	2398.70	-434.95	976.73	72.10	947.58	135.00	7.05	PASS
2520.00†	2497.46	163.61	248.29	2476.46	2497.46	-434.95	976.73	72.99	942.81	139.42	6.79	PASS
2620.00†	2596.22	172.25	261.40	2575.22	2596.22	-434.95	976.73	73.90	938.29	143.85	6.55	PASS
2720.00†	2694.98	180.88	274.50	2673.98	2694.98	-434.95	976.73	74.81	934.01	148.31	6.32	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

CLEARANCE DATA - Offset Wellbore: EX. BRANDONDI 1 AWB Offset Wellpath: EX. BRANDONDI 1 AWP												
Facility: SEC.06-T05N-R66W Slot: SLOT#01 EX. BRANDONDI 1 (682'FSL & 666'FWL, NB-CD/SI) Well: EX. BRANDONDI 1 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2772.74	2793.74	-434.95	976.73	75.74	929.97	152.78	6.11	PASS
2920.00†	2892.50	198.15	300.71	2871.50	2892.50	-434.95	976.73	76.67	926.19	157.27	5.91	PASS
3020.00†	2991.26	206.79	313.82	2970.26	2991.26	-434.95	976.73	77.60	922.65	161.78	5.72	PASS
3120.00†	3090.02	215.42	326.92	3069.02	3090.02	-434.95	976.73	78.55	919.37	166.30	5.55	PASS
3220.00†	3188.78	224.06	340.03	3167.78	3188.78	-434.95	976.73	79.50	916.34	170.84	5.38	PASS
3320.00†	3287.55	232.69	353.13	3266.55	3287.55	-434.95	976.73	80.45	913.58	175.40	5.23	PASS
3420.00†	3386.31	241.33	366.23	3365.31	3386.31	-434.95	976.73	81.42	911.08	179.96	5.08	PASS
3520.00†	3485.07	249.96	379.34	3464.07	3485.07	-434.95	976.73	82.38	908.84	184.54	4.94	PASS
3620.00†	3583.83	258.60	392.44	3562.83	3583.83	-434.95	976.73	83.35	906.86	189.14	4.81	PASS
3720.00†	3682.59	267.23	405.55	3661.59	3682.59	-434.95	976.73	84.33	905.16	193.74	4.69	PASS
3820.00†	3781.35	275.87	418.65	3760.35	3781.35	-434.95	976.73	85.31	903.72	198.36	4.57	PASS
3920.00†	3880.11	284.50	431.76	3859.11	3880.11	-434.95	976.73	86.29	902.56	202.99	4.46	PASS
4020.00†	3978.87	293.14	444.86	3957.87	3978.87	-434.95	976.73	87.27	901.67	207.63	4.35	PASS
4120.00†	4077.63	301.77	457.97	4056.63	4077.63	-434.95	976.73	88.25	901.04	212.28	4.26	PASS
4220.00†	4176.39	310.41	471.07	4155.39	4176.39	-434.95	976.73	89.24	900.70	216.95	4.16	PASS
4295.62†	4251.08	316.94	480.98	4230.94	4251.94	-434.95	976.73	89.99	900.62	220.52	4.09	PASS
4320.00†	4275.15	319.04	484.17	4254.15	4275.15	-434.95	976.73	90.22	900.62	221.62	4.07	PASS
4420.00†	4373.91	327.68	497.28	4352.91	4373.91	-434.95	976.73	91.21	900.82	226.30	3.99	PASS
4520.00†	4472.68	336.31	510.38	4451.68	4472.68	-434.95	976.73	92.20	901.29	230.99	3.91	PASS
4620.00†	4571.44	344.95	523.49	4550.44	4571.44	-434.95	976.73	93.18	902.04	235.69	3.84	PASS
4720.00†	4670.20	353.58	536.59	4649.20	4670.20	-434.95	976.73	94.16	903.06	240.40	3.76	PASS
4820.00†	4768.96	362.22	549.70	4747.96	4768.96	-434.95	976.73	95.14	904.34	245.12	3.70	PASS
4920.00†	4867.72	370.85	562.80	4846.72	4867.72	-434.95	976.73	96.12	905.90	249.84	3.63	PASS
5020.00†	4966.48	379.49	575.91	4945.48	4966.48	-434.95	976.73	97.09	907.73	254.57	3.57	PASS
5120.00†	5065.24	388.12	589.01	5044.24	5065.24	-434.95	976.73	98.06	909.82	259.31	3.52	PASS
5220.00†	5164.00	396.76	602.11	5143.00	5164.00	-434.95	976.73	99.02	912.18	264.06	3.46	PASS
5320.00†	5262.76	405.39	615.22	5241.76	5262.76	-434.95	976.73	99.98	914.81	268.81	3.41	PASS
5420.00†	5361.52	414.03	628.32	5340.52	5361.52	-434.95	976.73	100.94	917.69	273.57	3.36	PASS
5520.00†	5460.28	422.66	641.43	5439.28	5460.28	-434.95	976.73	101.88	920.83	278.34	3.31	PASS
5620.00†	5559.05	431.30	654.53	5538.05	5559.05	-434.95	976.73	102.82	924.23	283.11	3.27	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. BRANDONDI 1 AWB Offset Wellpath: EX. BRANDONDI 1 AWP

Facility: SEC.06-T05N-R66W Slot: SLOT#01 EX. BRANDONDI 1 (682'FSL & 666'FWL, NB-CD/SI) Well: EX. BRANDONDI 1 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5720.00†	5657.81	439.93	667.64	5636.81	5657.81	-434.95	976.73	103.76	927.88	287.89	3.23	PASS
5820.00†	5756.57	448.57	680.74	5735.57	5756.57	-434.95	976.73	104.69	931.78	292.67	3.19	PASS
5920.00†	5855.33	457.20	693.85	5834.33	5855.33	-434.95	976.73	105.60	935.93	297.46	3.15	PASS
6020.00†	5954.09	465.84	706.95	5933.09	5954.09	-434.95	976.73	106.51	940.32	302.26	3.12	PASS
6120.00†	6052.85	474.47	720.05	6031.85	6052.85	-434.95	976.73	107.42	944.95	307.06	3.08	PASS
6220.00†	6151.61	483.11	733.16	6130.61	6151.61	-434.95	976.73	108.31	949.82	311.86	3.05	PASS
6320.00†	6250.37	491.74	746.26	6229.37	6250.37	-434.95	976.73	109.19	954.92	316.67	3.02	PASS
6420.00†	6349.13	500.38	759.37	6328.13	6349.13	-434.95	976.73	110.07	960.25	321.48	2.99	PASS
6509.39	6437.41	508.10	771.08	6416.41	6437.41	-434.95	976.73	110.84	965.21	325.79	2.97	PASS
6520.00†	6447.90	509.02	772.38	6426.90	6447.90	-434.95	976.73	114.70	965.83	326.30	2.96	PASS
6620.00†	6547.35	517.82	776.00	6526.35	6547.35	-434.95	976.73	-166.40	973.68	331.17	2.94	PASS
6720.00†	6646.11	526.74	763.96	6625.11	6646.11	-434.95	976.73	-126.02	984.95	336.12	2.93	PASS
6753.07†	6678.21	529.68	756.57	6657.21	6678.21	-434.95	976.73	-121.53	989.43	337.76	2.93	PASS
6820.00†	6741.77	535.55	736.55	6720.77	6741.77	-434.95	976.73	-116.28	999.78	340.83	2.94	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. BRANDONDI 1 AWB Offset Wellpath: EX. BRANDONDI 1 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. BRANDONDI 1 AWB Offset Wellpath: EX. BRANDONDI 1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7254.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7254>	EX. BRANDONDI 1 AWB



**Clearance Report**  
**GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)**  
**Closest Approach**  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. BRANDONDI 1 AWB Offset Wellpath: EX. BRANDONDI 1 AWP	
MD Reference: Rig on SLOT#01 EX. BRANDONDI 1 (682'FSL & 666'FWL, NB-CD/SI) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHE FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHE FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHE FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHE FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-1 PWB Offset Wellpath: EX. GENESIS 9-1 PWP

Facility: SEC.01-T05N-R67W Slot: SLOT#02 EX. GENESIS 9-1 (750'FSL & 377'FEL, XX) Well: EX. GENESIS 9-1 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	4.00	20.00	-334.06	-70.15	-168.14	341.34	50.17	6.92	PASS
120.00†	120.00	0.00	0.00	104.00	120.00	-334.06	-70.15	-168.14	341.34	50.22	6.91	PASS
220.00†	220.00	0.00	0.00	204.00	220.00	-334.06	-70.15	-168.14	341.34	50.27	6.90	PASS
320.00†	320.00	0.00	0.00	304.00	320.00	-334.06	-70.15	-168.14	341.34	50.33	6.89	PASS
400.00	400.00	0.00	0.00	384.00	400.00	-334.06	-70.15	-168.14	341.34	50.38	6.89	PASS
420.00†	420.00	0.04	0.06	404.00	420.00	-334.06	-70.15	135.25	341.39	50.39	6.89	PASS
520.00†	519.96	1.38	2.10	503.96	519.96	-334.06	-70.15	135.51	343.13	50.46	6.91	PASS
620.00†	619.78	4.65	7.05	603.78	619.78	-334.06	-70.15	136.14	347.39	50.57	6.98	PASS
720.00†	719.33	9.82	14.91	703.33	719.33	-334.06	-70.15	137.10	354.24	50.68	7.11	PASS
820.00†	818.50	16.91	25.66	802.82	818.82	-334.05	-70.15	138.35	363.81	50.80	7.28	PASS
851.46	849.59	19.53	29.64	837.90	853.90	-333.81	-70.20	138.88	367.20	50.86	7.34	PASS
920.00†	917.28	25.45	38.62	914.41	930.38	-331.82	-70.61	140.24	373.82	50.95	7.46	PASS
1020.00†	1016.05	34.09	51.73	1026.14	1041.91	-325.32	-71.95	142.40	380.97	51.06	7.59	PASS
1120.00†	1114.81	42.72	64.83	1137.70	1152.92	-314.59	-74.17	144.82	385.28	51.16	7.66	PASS
1220.00†	1213.57	51.36	77.94	1248.74	1262.91	-299.71	-77.24	147.53	386.99	51.24	7.68	PASS
1320.00†	1312.33	59.99	91.04	1358.94	1371.40	-280.82	-81.14	150.57	386.39	51.33	7.65	PASS
1420.00†	1411.09	68.63	104.15	1467.99	1477.96	-258.13	-85.83	153.98	383.84	51.45	7.58	PASS
1520.00†	1509.85	77.26	117.25	1575.60	1582.16	-231.86	-91.26	157.79	379.82	51.62	7.48	PASS
1620.00†	1608.61	85.90	130.36	1675.70	1678.31	-204.61	-96.89	161.74	375.36	51.96	7.34	PASS
1720.00†	1707.37	94.53	143.46	1772.13	1770.87	-178.12	-102.36	165.64	372.56	52.41	7.22	PASS
1820.00†	1806.13	103.17	156.56	1868.55	1863.42	-151.64	-107.83	169.57	371.64	52.58	7.15	PASS
1920.00†	1904.89	111.80	169.67	1964.97	1955.97	-125.15	-113.31	173.50	372.60	53.01	7.11	PASS
2020.00†	2003.65	120.44	182.77	2061.39	2048.52	-98.67	-118.78	177.40	375.43	53.46	7.10	PASS
2120.00†	2102.41	129.07	195.88	2157.81	2141.07	-72.18	-124.25	178.78	380.10	53.95	7.13	PASS
2220.00†	2201.18	137.71	208.98	2254.24	2233.63	-45.70	-129.72	175.06	386.54	54.46	7.18	PASS
2320.00†	2299.94	146.34	222.09	2350.66	2326.19	-19.22	-135.19	171.47	394.65	54.99	7.26	PASS
2420.00†	2398.70	154.98	235.19	2447.09	2418.74	7.26	-140.66	168.02	404.33	55.54	7.36	PASS
2520.00†	2497.46	163.61	248.29	2543.52	2511.30	33.74	-146.13	164.74	415.49	56.11	7.49	PASS
2620.00†	2596.22	172.25	261.40	2639.94	2603.86	60.22	-151.60	161.63	427.99	56.69	7.63	PASS
2720.00†	2694.98	180.88	274.50	2736.37	2696.41	86.71	-157.07	158.70	441.74	57.28	7.80	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-1 PWB Offset Wellpath: EX. GENESIS 9-1 PWP

Facility: SEC.01-T05N-R67W Slot: SLOT#02 EX. GENESIS 9-1 (750'FSL & 377'FEL, XX) Well: EX. GENESIS 9-1 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2832.79	2788.97	113.19	-162.55	-155.94	456.60	57.89	7.97	PASS
2920.00†	2892.50	198.15	300.71	2929.22	2881.53	139.67	-168.02	-153.35	472.49	58.51	8.16	PASS
3020.00†	2991.26	206.79	313.82	3025.65	2974.08	166.15	-173.49	-150.93	489.30	59.13	8.36	PASS
3120.00†	3090.02	215.42	326.92	3122.07	3066.64	192.63	-178.96	-148.66	506.93	59.77	8.57	PASS
3220.00†	3188.78	224.06	340.03	3218.50	3159.20	219.11	-184.43	-146.55	525.31	60.42	8.79	PASS
3320.00†	3287.55	232.69	353.13	3314.92	3251.75	245.60	-189.90	-144.57	544.36	61.09	9.00	PASS
3420.00†	3386.31	241.33	366.23	3411.35	3344.31	272.08	-195.37	-142.73	564.01	61.76	9.23	PASS
3520.00†	3485.07	249.96	379.34	3507.78	3436.87	298.56	-200.84	-141.01	584.21	62.45	9.45	PASS
3620.00†	3583.83	258.60	392.44	3604.20	3529.43	325.04	-206.31	-139.40	604.88	63.15	9.68	PASS
3720.00†	3682.59	267.23	405.55	3700.63	3621.98	351.52	-211.78	-137.90	626.00	63.86	9.90	PASS
3820.00†	3781.35	275.87	418.65	3797.05	3714.54	378.00	-217.26	-136.49	647.51	64.58	10.13	PASS
3920.00†	3880.11	284.50	431.76	3893.48	3807.10	404.49	-222.73	-135.17	669.38	65.32	10.35	PASS
4020.00†	3978.87	293.14	444.86	3989.91	3899.65	430.97	-228.20	-133.94	691.58	66.06	10.57	PASS
4120.00†	4077.63	301.77	457.97	4086.33	3992.21	457.45	-233.67	-132.78	714.07	66.82	10.79	PASS
4220.00†	4176.39	310.41	471.07	4182.76	4084.77	483.93	-239.14	-131.69	736.82	67.60	11.01	PASS
4320.00†	4275.15	319.04	484.17	4279.18	4177.32	510.41	-244.61	-130.66	759.82	68.38	11.22	PASS
4420.00†	4373.91	327.68	497.28	4375.61	4269.88	536.89	-250.08	-129.69	783.03	69.18	11.43	PASS
4520.00†	4472.68	336.31	510.38	4472.04	4362.44	563.38	-255.55	-128.78	806.45	69.98	11.63	PASS
4620.00†	4571.44	344.95	523.49	4568.46	4454.99	589.86	-261.02	-127.92	830.06	70.80	11.83	PASS
4720.00†	4670.20	353.58	536.59	4664.89	4547.55	616.34	-266.49	-127.11	853.83	71.63	12.03	PASS
4820.00†	4768.96	362.22	549.70	4761.31	4640.11	642.82	-271.97	-126.34	877.76	72.47	12.22	PASS
4920.00†	4867.72	370.85	562.80	4857.74	4732.66	669.30	-277.44	-125.61	901.84	73.32	12.41	PASS
5020.00†	4966.48	379.49	575.91	4954.16	4825.22	695.78	-282.91	-124.92	926.04	74.18	12.59	PASS
5120.00†	5065.24	388.12	589.01	5050.59	4917.78	722.27	-288.38	-124.26	950.37	75.05	12.77	PASS
5220.00†	5164.00	396.76	602.11	5147.02	5010.33	748.75	-293.85	-123.63	974.81	75.93	12.95	PASS
5320.00†	5262.76	405.39	615.22	5243.44	5102.89	775.23	-299.32	-123.04	999.36	76.82	13.12	PASS
5420.00†	5361.52	414.03	628.32	5339.87	5195.45	801.71	-304.79	-122.47	1024.00	77.71	13.29	PASS
5520.00†	5460.28	422.66	641.43	5457.69	5309.01	832.43	-311.14	-121.90	1047.94	78.89	13.40	PASS
5620.00†	5559.05	431.30	654.53	5582.24	5430.33	859.95	-316.82	-121.55	1069.50	80.10	13.46	PASS
5720.00†	5657.81	439.93	667.64	5708.40	5554.36	882.53	-321.49	-121.45	1088.56	81.26	13.51	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-1 PWB Offset Wellpath: EX. GENESIS 9-1 PWP

Facility: SEC.01-T05N-R67W Slot: SLOT#02 EX. GENESIS 9-1 (750'FSL & 377'FEL, XX) Well: EX. GENESIS 9-1 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5835.73	5680.44	899.89	-325.07	-121.60	1105.06	82.35	13.53	PASS
5920.00†	5855.33	457.20	693.85	5963.72	5807.84	911.78	-327.53	-121.98	1118.98	83.38	13.53	PASS
6020.00†	5954.09	465.84	706.95	6091.87	5935.82	918.10	-328.84	-122.58	1130.37	84.34	13.51	PASS
6120.00†	6052.85	474.47	720.05	6208.91	6052.85	919.20	-329.06	-123.32	1139.49	85.21	13.48	PASS
6220.00†	6151.61	483.11	733.16	6307.67	6151.61	919.20	-329.06	-123.97	1148.26	86.05	13.45	PASS
6320.00†	6250.37	491.74	746.26	6406.43	6250.37	919.20	-329.06	-124.60	1157.17	86.89	13.42	PASS
6420.00†	6349.13	500.38	759.37	6505.19	6349.13	919.20	-329.06	-125.23	1166.23	87.73	13.39	PASS
6509.39	6437.41	508.10	771.08	6593.47	6437.41	919.20	-329.06	-125.79	1174.45	88.49	13.37	PASS
6520.00†	6447.90	509.02	772.38	6603.97	6447.90	919.20	-329.06	-122.17	1175.35	88.57	13.37	PASS
6620.00†	6547.35	517.82	776.00	6703.41	6547.35	919.20	-329.06	-44.75	1175.70	89.41	13.25	PASS
6720.00†	6646.11	526.74	763.96	6802.17	6646.11	919.20	-329.06	-4.56	1161.34	90.36	12.95	PASS
6820.00†	6741.77	535.55	736.55	6897.83	6741.77	919.20	-329.06	6.23	1132.57	91.55	12.46	PASS
6920.00†	6831.97	544.05	694.45	6988.03	6831.97	919.20	-329.06	12.16	1090.10	92.63	11.85	PASS
7020.00†	6914.48	552.02	638.70	7070.54	6914.48	919.20	-329.06	17.45	1035.08	93.53	11.14	PASS
7120.00†	6987.27	559.26	570.67	7143.33	6987.27	919.20	-329.06	23.77	969.06	94.22	10.36	PASS
7220.00†	7048.56	565.59	492.04	7204.62	7048.56	919.20	-329.06	32.48	894.01	94.71	9.50	PASS
7320.00†	7096.83	570.87	404.74	7252.89	7096.83	919.20	-329.06	44.97	812.28	95.05	8.60	PASS
7420.00†	7130.89	574.96	310.91	7286.95	7130.89	919.20	-329.06	61.58	726.69	95.31	7.67	PASS
7520.00†	7149.90	577.75	212.88	7305.97	7149.90	919.20	-329.06	79.34	640.54	95.61	6.74	PASS
7594.38	7154.00	578.96	138.67	7310.06	7154.00	919.20	-329.06	90.25	578.39	95.98	6.06	PASS
7620.00†	7153.92	579.24	113.05	7309.98	7153.92	919.20	-329.06	90.23	557.71	96.17	5.83	PASS
7720.00†	7153.61	580.34	13.06	7309.68	7153.61	919.20	-329.06	90.18	481.53	97.42	4.97	PASS
7820.00†	7153.31	581.44	-86.94	7309.37	7153.31	919.20	-329.06	90.13	415.58	99.88	4.18	PASS
7920.00†	7153.00	582.54	-186.93	7309.06	7153.00	919.20	-329.06	90.08	365.43	103.93	3.53	PASS
8020.00†	7152.69	583.64	-286.92	7308.75	7152.69	919.20	-329.06	90.02	338.19	109.21	3.11	PASS
8065.43†	7152.55	584.14	-332.35	7307.51	7151.45	919.20	-329.06	89.81	335.08	111.63	3.01	PASS
8107.30†	7152.43	584.60	-374.21	7308.49	7152.43	919.20	-329.06	89.98	337.63	113.53	2.99	PASS
8120.00†	7152.39	584.74	-386.92	7308.45	7152.39	919.20	-329.06	89.97	339.43	114.03	2.99	PASS
8220.00†	7152.08	585.84	-486.91	7308.14	7152.08	919.20	-329.06	89.92	368.84	116.58	3.18	PASS
8320.00†	7151.77	586.94	-586.90	7307.83	7151.77	919.20	-329.06	89.87	420.57	116.80	3.62	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-1 PWB Offset Wellpath: EX. GENESIS 9-1 PWP

Facility: SEC.01-T05N-R67W Slot: SLOT#02 EX. GENESIS 9-1 (750'FSL & 377'FEL, XX) Well: EX. GENESIS 9-1 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8420.00†	7151.47	588.04	-686.90	7307.53	7151.47	919.20	-329.06	89.81	487.55	115.77	4.23	PASS
8520.00†	7151.16	589.14	-786.89	7307.22	7151.16	919.20	-329.06	89.76	564.40	114.35	4.96	PASS
8620.00†	7150.85	590.24	-886.88	7306.91	7150.85	919.20	-329.06	89.71	647.59	112.95	5.76	PASS
8720.00†	7150.54	591.34	-986.88	7306.61	7150.54	919.20	-329.06	89.66	734.99	111.70	6.62	PASS
8820.00†	7150.24	592.44	-1086.87	7306.30	7150.24	919.20	-329.06	89.60	825.25	110.63	7.50	PASS
8920.00†	7149.93	593.54	-1186.86	7305.99	7149.93	919.20	-329.06	89.55	917.54	109.73	8.41	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. GENESIS 9-1 PWB Offset Wellpath: EX. GENESIS 9-1 PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. GENESIS 9-1 PWB Offset Wellpath: EX. GENESIS 9-1 PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8177.06	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL PWP SURVEYS PROVIDED BY SRC <8177.06>	EX. GENESIS 9-1 PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. GENESIS 9-1 PWB Offset Wellpath: EX. GENESIS 9-1 PWP

MD Reference: Rig on SLOT#02 EX. GENESIS 9-1 (750'FSL & 377'FEL, XX) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: BOOMERANG 34N-6C-M PWB Offset Wellpath: BOOMERANG 34N-6C-M PWP

Facility: SEC.05-T05N-R66W Slot: SLOT#12 BOOMERANG 34N-6C-M (1511'FNL & 2327'FWL, SEC.05) Well: BOOMERANG 34N-6C-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	15521.99	7049.74	1748.83	427.36	13.73	7256.60	143.18	51.02	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: BOOMERANG 34N-6C-M PWB Offset Wellpath: BOOMERANG 34N-6C-M PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: BOOMERANG 34N-6C-M PWB Offset Wellpath: BOOMERANG 34N-6C-M PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	15521.99	ISCWSA MWD, Rev. 4 (Standard)	MWD PWP SURVEYS FROM COGCC <100-15521.99>	BOOMERANG 34N-6C-M PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: BOOMERANG 34N-6C-M PWB Offset Wellpath: BOOMERANG 34N-6C-M PWP

MD Reference: Rig on SLOT#12 BOOMERANG 34N-6C-M (1511'FNL & 2327'FWL, SEC.05) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT 1 AWB Offset Wellpath: EX. AUFRECHT 1 AWP

Facility: SEC.02-T05N-R67W Slot: SLOT#01 EX. AUFRECHT 1 (1368'FNL & 1287'FEL, J-CDL/PR) Well: EX. AUFRECHT 1 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	37.00	20.00	2781.63	-6286.58	-66.13	6874.48	50.24	139.48	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. AUFRECHT 1 AWB Offset Wellpath: EX. AUFRECHT 1 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. AUFRECHT 1 AWB Offset Wellpath: EX. AUFRECHT 1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8033.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <8033>	EX. AUFRECHT 1 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. AUFRECHT 1 AWB Offset Wellpath: EX. AUFRECHT 1 AWP

MD Reference: Rig on SLOT#01 EX. AUFRECHT 1 (1368'FNL & 1287'FEL, J-CDL/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-1-39 PWB Offset Wellpath: EX. GENESIS 9-1-39 PWP

Facility: SEC.01-T05N-R67W Slot: SLOT#04 EX. GENESIS 9-1-39 (700'FSL & 378'FEL, XX) Well: EX. GENESIS 9-1-39 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	4.00	20.00	-385.06	-81.28	-168.08	393.55	50.17	7.98	PASS
120.00†	120.00	0.00	0.00	104.00	120.00	-385.06	-81.28	-168.08	393.55	50.30	7.96	PASS
220.00†	220.00	0.00	0.00	204.00	220.00	-385.06	-81.28	-168.08	393.55	50.43	7.94	PASS
320.00†	320.00	0.00	0.00	304.00	320.00	-385.06	-81.28	-168.08	393.55	50.56	7.92	PASS
400.00	400.00	0.00	0.00	384.00	400.00	-385.06	-81.28	-168.08	393.55	50.67	7.90	PASS
420.00†	420.00	0.04	0.06	404.00	420.00	-385.06	-81.28	135.31	393.59	50.70	7.89	PASS
520.00†	519.96	1.38	2.10	503.96	519.96	-385.06	-81.28	135.53	395.34	50.85	7.91	PASS
620.00†	619.78	4.65	7.05	603.78	619.78	-385.06	-81.28	136.07	399.59	51.03	7.96	PASS
720.00†	719.33	9.82	14.91	703.33	719.33	-385.06	-81.28	136.89	406.43	51.21	8.07	PASS
820.00†	818.50	16.91	25.66	802.50	818.50	-385.06	-81.28	137.97	415.95	51.41	8.23	PASS
851.46	849.59	19.53	29.64	833.59	849.59	-385.06	-81.28	138.36	419.52	51.47	8.29	PASS
920.00†	917.28	25.45	38.62	901.28	917.28	-385.06	-81.28	139.31	427.66	51.59	8.43	PASS
1020.00†	1016.05	34.09	51.73	1000.05	1016.05	-385.06	-81.28	140.64	439.74	51.77	8.64	PASS
1120.00†	1114.81	42.72	64.83	1098.81	1114.81	-385.06	-81.28	141.90	452.05	51.95	8.85	PASS
1220.00†	1213.57	51.36	77.94	1197.57	1213.57	-385.06	-81.28	143.08	464.55	52.14	9.06	PASS
1320.00†	1312.33	59.99	91.04	1296.33	1312.33	-385.06	-81.28	144.21	477.25	52.34	9.27	PASS
1420.00†	1411.09	68.63	104.15	1395.09	1411.09	-385.06	-81.28	145.28	490.12	52.55	9.48	PASS
1520.00†	1509.85	77.26	117.25	1493.85	1509.85	-385.06	-81.28	146.29	503.15	52.75	9.70	PASS
1620.00†	1608.61	85.90	130.36	1592.61	1608.61	-385.06	-81.28	147.26	516.32	52.97	9.91	PASS
1720.00†	1707.37	94.53	143.46	1691.37	1707.37	-385.06	-81.28	148.17	529.64	53.19	10.12	PASS
1820.00†	1806.13	103.17	156.56	1790.13	1806.13	-385.06	-81.28	149.04	543.08	53.10	10.35	PASS
1920.00†	1904.89	111.80	169.67	1888.89	1904.89	-385.06	-81.28	149.87	556.64	53.23	10.58	PASS
2020.00†	2003.65	120.44	182.77	1987.65	2003.65	-385.06	-81.28	150.66	570.31	53.38	10.81	PASS
2120.00†	2102.41	129.07	195.88	2086.41	2102.41	-385.06	-81.28	151.41	584.08	53.53	11.04	PASS
2220.00†	2201.18	137.71	208.98	2185.18	2201.18	-385.06	-81.28	152.13	597.95	53.70	11.27	PASS
2320.00†	2299.94	146.34	222.09	2305.75	2321.72	-383.17	-80.78	153.01	610.40	54.00	11.44	PASS
2420.00†	2398.70	154.98	235.19	2430.97	2446.72	-376.07	-78.87	154.01	618.83	54.27	11.54	PASS
2520.00†	2497.46	163.61	248.29	2556.61	2571.69	-363.65	-75.53	155.12	623.20	54.49	11.57	PASS
2620.00†	2596.22	172.25	261.40	2682.17	2695.90	-345.96	-70.78	156.37	623.56	54.66	11.54	PASS
2720.00†	2694.98	180.88	274.50	2807.19	2818.66	-323.15	-64.65	157.76	619.97	54.79	11.45	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-1-39 PWB Offset Wellpath: EX. GENESIS 9-1-39 PWP

Facility: SEC.01-T05N-R67W Slot: SLOT#04 EX. GENESIS 9-1-39 (700'FSL & 378'FEL, XX) Well: EX. GENESIS 9-1-39 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2820.00†	2793.74	189.52	287.61	2928.74	2936.91	-296.04	-57.37	159.31	612.60	54.91	11.29	PASS
2920.00†	2892.50	198.15	300.71	3027.33	3032.41	-272.40	-51.02	160.65	603.91	55.36	11.04	PASS
3020.00†	2991.26	206.79	313.82	3125.91	3127.90	-248.75	-44.67	162.03	595.56	55.83	10.79	PASS
3120.00†	3090.02	215.42	326.92	3224.49	3223.39	-225.11	-38.32	163.45	587.58	56.32	10.55	PASS
3220.00†	3188.78	224.06	340.03	3323.07	3318.89	-201.46	-31.96	164.90	579.97	56.84	10.32	PASS
3320.00†	3287.55	232.69	353.13	3421.65	3414.38	-177.82	-25.61	166.40	572.76	57.38	10.09	PASS
3420.00†	3386.31	241.33	366.23	3520.24	3509.88	-154.17	-19.26	167.92	565.95	57.95	9.88	PASS
3520.00†	3485.07	249.96	379.34	3618.82	3605.37	-130.53	-12.91	169.49	559.56	58.54	9.66	PASS
3620.00†	3583.83	258.60	392.44	3717.40	3700.86	-106.88	-6.56	171.09	553.60	59.16	9.46	PASS
3720.00†	3682.59	267.23	405.55	3815.98	3796.36	-83.24	-0.21	172.72	548.10	59.81	9.26	PASS
3820.00†	3781.35	275.87	418.65	3914.56	3891.85	-59.59	6.14	174.38	543.05	60.48	9.07	PASS
3920.00†	3880.11	284.50	431.76	4013.15	3987.34	-35.95	12.50	176.07	538.49	61.18	8.89	PASS
4020.00†	3978.87	293.14	444.86	4111.73	4082.84	-12.30	18.85	177.78	534.41	61.90	8.72	PASS
4120.00†	4077.63	301.77	457.97	4210.31	4178.33	11.34	25.20	179.53	530.83	62.65	8.56	PASS
4220.00†	4176.39	310.41	471.07	4308.89	4273.82	34.99	31.55	178.71	527.76	63.43	8.40	PASS
4320.00†	4275.15	319.04	484.17	4407.48	4369.32	58.63	37.90	176.93	525.20	64.23	8.26	PASS
4420.00†	4373.91	327.68	497.28	4506.06	4464.81	82.28	44.25	175.14	523.18	65.06	8.12	PASS
4520.00†	4472.68	336.31	510.38	4604.64	4560.30	105.92	50.61	173.33	521.68	65.92	7.99	PASS
4620.00†	4571.44	344.95	523.49	4703.22	4655.80	129.57	56.96	171.51	520.73	66.79	7.87	PASS
4720.00†	4670.20	353.58	536.59	4801.80	4751.29	153.21	63.31	169.69	520.31	67.70	7.76	PASS
4820.00†	4768.96	362.22	549.70	4896.08	4842.68	175.57	69.32	167.97	520.61	68.64	7.65	PASS
4920.00†	4867.72	370.85	562.80	4985.39	4929.80	194.53	74.41	166.56	522.94	69.58	7.58	PASS
5020.00†	4966.48	379.49	575.91	5075.19	5017.98	210.94	78.82	165.40	527.40	70.48	7.55	PASS
5120.00†	5065.24	388.12	589.01	5165.32	5106.96	224.72	82.52	164.50	533.83	71.33	7.55	PASS
5220.00†	5164.00	396.76	602.11	5255.58	5196.49	235.81	85.50	163.88	542.08	72.13	7.58	PASS
5320.00†	5262.76	405.39	615.22	5345.81	5286.30	244.16	87.74	163.53	552.07	72.89	7.64	PASS
5420.00†	5361.52	414.03	628.32	5435.82	5376.11	249.77	89.25	163.44	563.73	73.61	7.72	PASS
5520.00†	5460.28	422.66	641.43	5525.44	5465.68	252.64	90.02	163.59	577.05	74.28	7.83	PASS
5620.00†	5559.05	431.30	654.53	5618.80	5559.05	253.07	90.13	163.95	591.87	74.95	7.96	PASS
5720.00†	5657.81	439.93	667.64	5717.57	5657.81	253.07	90.13	164.36	606.98	75.69	8.09	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-1-39 PWB Offset Wellpath: EX. GENESIS 9-1-39 PWP

Facility: SEC.01-T05N-R67W Slot: SLOT#04 EX. GENESIS 9-1-39 (700'FSL & 378'FEL, XX) Well: EX. GENESIS 9-1-39 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
5820.00†	5756.57	448.57	680.74	5816.33	5756.57	253.07	90.13	-164.75	622.12	76.43	8.21	PASS
5920.00†	5855.33	457.20	693.85	5915.09	5855.33	253.07	90.13	-165.12	637.29	77.17	8.33	PASS
6020.00†	5954.09	465.84	706.95	6013.85	5954.09	253.07	90.13	-165.48	652.48	77.92	8.44	PASS
6120.00†	6052.85	474.47	720.05	6112.61	6052.85	253.07	90.13	-165.81	667.70	78.68	8.55	PASS
6220.00†	6151.61	483.11	733.16	6211.37	6151.61	253.07	90.13	-166.14	682.93	79.44	8.66	PASS
6320.00†	6250.37	491.74	746.26	6310.13	6250.37	253.07	90.13	-166.45	698.19	80.21	8.77	PASS
6420.00†	6349.13	500.38	759.37	6408.89	6349.13	253.07	90.13	-166.74	713.47	80.99	8.88	PASS
6509.39	6437.41	508.10	771.08	6497.17	6437.41	253.07	90.13	-166.99	727.14	81.68	8.97	PASS
6520.00†	6447.90	509.02	772.38	6507.66	6447.90	253.07	90.13	-163.26	728.68	81.76	8.98	PASS
6620.00†	6547.35	517.82	776.00	6607.11	6547.35	253.07	90.13	-85.70	735.19	82.66	8.96	PASS
6720.00†	6646.11	526.74	763.96	6705.87	6646.11	253.07	90.13	-47.00	727.28	84.09	8.71	PASS
6820.00†	6741.77	535.55	736.55	6801.53	6741.77	253.07	90.13	-39.53	705.44	85.78	8.28	PASS
6920.00†	6831.97	544.05	694.45	6891.73	6831.97	253.07	90.13	-39.19	670.72	86.97	7.77	PASS
7020.00†	6914.48	552.02	638.70	6974.24	6914.48	253.07	90.13	-42.55	624.74	87.91	7.16	PASS
7120.00†	6987.27	559.26	570.67	7047.03	6987.27	253.07	90.13	-49.04	569.80	88.70	6.47	PASS
7220.00†	7048.56	565.59	492.04	7108.32	7048.56	253.07	90.13	-58.47	509.12	89.44	5.73	PASS
7320.00†	7096.83	570.87	404.74	7156.58	7096.83	253.07	90.13	-69.75	447.18	90.38	4.98	PASS
7420.00†	7130.89	574.96	310.91	7190.65	7130.89	253.07	90.13	-80.40	390.33	91.84	4.28	PASS
7520.00†	7149.90	577.75	212.88	7209.66	7149.90	253.07	90.13	-87.71	347.11	94.09	3.71	PASS
7594.38	7154.00	578.96	138.67	7210.76	7151.00	253.07	90.13	-89.50	329.49	96.02	3.45	PASS
7620.00†	7153.92	579.24	113.05	7210.76	7151.00	253.07	90.13	-89.50	326.98	96.68	3.40	PASS
7638.75†	7153.86	579.44	94.30	7210.76	7151.00	253.07	90.13	-89.50	326.41	97.16	3.38	PASS
7663.65†	7153.79	579.72	69.40	7210.76	7151.00	253.07	90.13	-89.50	327.32	97.75	3.37	PASS
7720.00†	7153.61	580.34	13.06	7210.76	7151.00	253.07	90.13	-89.50	336.23	98.77	3.42	PASS
7820.00†	7153.31	581.44	-86.94	7210.76	7151.00	253.07	90.13	-89.50	373.08	99.65	3.76	PASS
7920.00†	7153.00	582.54	-186.93	7210.76	7151.00	253.07	90.13	-89.50	430.49	99.56	4.35	PASS
8020.00†	7152.69	583.64	-286.92	7210.76	7151.00	253.07	90.13	-89.50	501.45	99.04	5.09	PASS
8120.00†	7152.39	584.74	-386.92	7210.76	7151.00	253.07	90.13	-89.50	581.02	98.44	5.94	PASS
8220.00†	7152.08	585.84	-486.91	7210.76	7151.00	253.07	90.13	-89.50	666.12	97.87	6.85	PASS
8320.00†	7151.77	586.94	-586.90	7210.76	7151.00	253.07	90.13	-89.50	754.88	97.38	7.80	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. GENESIS 9-1-39 PWB Offset Wellpath: EX. GENESIS 9-1-39 PWP

Facility: SEC.01-T05N-R67W Slot: SLOT#04 EX. GENESIS 9-1-39 (700'FSL & 378'FEL, XX) Well: EX. GENESIS 9-1-39 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8420.00†	7151.47	588.04	-686.90	7210.76	7151.00	253.07	90.13	-89.50	846.16	96.97	8.78	PASS
8520.00†	7151.16	589.14	-786.89	7210.76	7151.00	253.07	90.13	-89.50	939.21	96.63	9.78	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. GENESIS 9-1-39 PWB Offset Wellpath: EX. GENESIS 9-1-39 PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. GENESIS 9-1-39 PWB Offset Wellpath: EX. GENESIS 9-1-39 PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7210.76	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL PWP SURVEYS PROVIDED BY SRC <7210.76>	EX. GENESIS 9-1-39 PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. GENESIS 9-1-39 PWB Offset Wellpath: EX. GENESIS 9-1-39 PWP

MD Reference: Rig on SLOT#04 EX. GENESIS 9-1-39 (700'FSL & 378'FEL, XX) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SHURVIEW 13N-3HX AWB Offset Wellpath: EX. SHURVIEW 13N-3HX AWP

Facility: SEC.03-T05N-R67W   Slot: SLOT#03 EX. SHURVIEW 13N-3HZ (1999'FSL & 1164'FEL, NBRR/PR)   Well: EX. SHURVIEW 13N-3HZ   Threshold Value=1.00   † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	16.00	20.00	828.30	-10942.97	-85.67	10974.27	50.17	223.02	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. SHURVIEW 13N-3HX AWB Offset Wellpath: EX. SHURVIEW 13N-3HX AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. SHURVIEW 13N-3HX AWB Offset Wellpath: EX. SHURVIEW 13N-3HX AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	1217.00	BHI Generic gyro - continuous (Standard)	MS GYRODATA SURVEYS <17-1217>	EX. SHURVIEW 13N-3HX AWB
1217.00	7455.00	BHI NaviTrak (Standard)	8 3/4" VERTICAL CURVE SECTION <1333-7455>	EX. SHURVIEW 13N-3HX AWB
7455.00	11258.00	BHI OnTrak (Standard)	6 1/8" LATERAL SECTION <7553-11325>	EX. SHURVIEW 13N-3HX AWB
11258.00	11325.00	Blind Drilling (std)	Projection to bit	EX. SHURVIEW 13N-3HX AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. SHURVIEW 13N-3HX AWB Offset Wellpath: EX. SHURVIEW 13N-3HX AWP

MD Reference: Rig on SLOT#03 EX. SHURVIEW 13N-3HZ (1999'FSL & 1164'FEL, NBRR/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HSR KNOX 9-3 AWB Offset Wellpath: EX. HSR KNOX 9-3 AWP

Facility: SEC.03-T05N-R67W Slot: SLOT#02 EX. HSR-KNOX 9-3 (1981'FSL & 701'FEL, JNBCE/SI) Well: EX. HSR KNOX 9-3 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	18.00	20.00	812.30	-10917.07	-85.75	10947.24	50.20	222.30	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. HSR KNOX 9-3 AWB Offset Wellpath: EX. HSR KNOX 9-3 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. HSR KNOX 9-3 AWB Offset Wellpath: EX. HSR KNOX 9-3 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7795.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7795>	EX. HSR KNOX 9-3 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. HSR KNOX 9-3 AWB Offset Wellpath: EX. HSR KNOX 9-3 AWP

MD Reference: Rig on SLOT#02 EX. HSR-KNOX 9-3 (1981'FSL & 701'FEL, JNBCE/SI) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SWAFFORD 11-11 AWB Offset Wellpath: EX. SWAFFORD 11-11 AWP

Facility: SEC.11-T05N-R67W Slot: SLOT#05 EX. SWAFFORD 11-11 (307'FNL & 993'FEL, NB-CD/PR) Well: EX. SWAFFORD 11-11 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	73.00	20.00	-1545.43	-5859.16	-104.78	6059.55	50.32	122.76	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. SWAFFORD 11-11 AWB Offset Wellpath: EX. SWAFFORD 11-11 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. SWAFFORD 11-11 AWB Offset Wellpath: EX. SWAFFORD 11-11 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7356.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7356>	EX. SWAFFORD 11-11 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. SWAFFORD 11-11 AWB Offset Wellpath: EX. SWAFFORD 11-11 AWP

MD Reference: Rig on SLOT#05 EX. SWAFFORD 11-11 (307'FNL & 993'FEL, NB-CD/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. ARTIST 11-12 AWB Offset Wellpath: EX. ARTIST 11-12 AWP

Facility: SEC.11-T05N-R67W Slot: SLOT#01 EX. ARTIST 11-12 (458'FNL & 1774'FEL, CODL/PR) Well: EX. ARTIST 11-12 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	90.00	20.00	-1682.58	-6631.59	-104.24	6841.71	50.35	138.51	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. ARTIST 11-12 AWB Offset Wellpath: EX. ARTIST 11-12 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. ARTIST 11-12 AWB Offset Wellpath: EX. ARTIST 11-12 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7358.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7358>	EX. ARTIST 11-12 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. ARTIST 11-12 AWB Offset Wellpath: EX. ARTIST 11-12 AWP

MD Reference: Rig on SLOT#01 EX. ARTIST 11-12 (458'FNL & 1774'FEL, CODL/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SHURVIEW USX N 03-08D AWB Offset Wellpath: EX. SHURVIEW USX N 03-08D AWP

Facility: SEC.03-T05N-R67W Slot: SLOT#05 EX. SHURVIEW USX N 03-08D (2130'FNL & 1940'FEL, NB-CD/SI) Well: EX. SHURVIEW USX N 03-08D Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	3047.38	2978.25	2449.93	-10806.25	-77.23	11468.59	54.81	212.99	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. SHURVIEW USX N 03-08D AWB Offset Wellpath: EX. SHURVIEW USX N 03-08D AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. SHURVIEW USX N 03-08D AWB Offset Wellpath: EX. SHURVIEW USX N 03-08D AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7523.00	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL SURVEYS PROVIDED BY SRC <374-7523>	EX. SHURVIEW USX N 03-08D AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. SHURVIEW USX N 03-08D AWB Offset Wellpath: EX. SHURVIEW USX N 03-08D AWP

MD Reference: Rig on SLOT#05 EX. SHURVIEW USX N 03-08D (2130'FNL & 1940'FEL, NB-CD/SI) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. PHILLIPS 1 AWB Offset Wellpath: EX. PHILLIPS 1 AWP

Facility: SEC.10-T05N-R67W   Slot: SLOT#02 EX. PHILLIPS 1 (650'FNL & 643'FEL, CODL/PR)   Well: EX. PHILLIPS 1   Threshold Value=1.00   † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	23.00	20.00	-1850.87	-10826.36	-99.70	10983.43	50.21	222.99	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. PHILLIPS 1 AWB Offset Wellpath: EX. PHILLIPS 1 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. PHILLIPS 1 AWB Offset Wellpath: EX. PHILLIPS 1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7272.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7272>	EX. PHILLIPS 1 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. PHILLIPS 1 AWB Offset Wellpath: EX. PHILLIPS 1 AWP

MD Reference: Rig on SLOT#02 EX. PHILLIPS 1 (650'FNL & 643'FEL, CODL/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HIGH POINTE LLC 10E-402 PWB Offset Wellpath: EX. HIGH POINTE LLC 10E-402 PWP

Facility: SEC.10-T05N-R67W Slot: SLOT#01 EX. HIGH POINTE LLC 10E-402 (739'FNL & 425'FWL, XX) Well: EX. HIGH POINTE LLC 10E-402 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	11542.31	7155.01	-1337.31	-10620.09	-97.18	12864.02	67.96	191.98	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. HIGH POINTE LLC 10E-402 PWB Offset Wellpath: EX. HIGH POINTE LLC 10E-402 PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. HIGH POINTE LLC 10E-402 PWB Offset Wellpath: EX. HIGH POINTE LLC 10E-402 PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	11542.31	ISWWSA MWD, Rev. 4 (SAG)	MWD PWP SURVEYS PROVIDED BY SRC <800-11542.31>	EX. HIGH POINTE LLC 10E-402 PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. HIGH POINTE LLC 10E-402 PWB Offset Wellpath: EX. HIGH POINTE LLC 10E-402 PWP

MD Reference: Rig on SLOT#01 EX. HIGH POINTE LLC 10E-402 (739'FNL & 425'FWL, XX) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. KNOX 32-3 AWB Offset Wellpath: EX. KNOX 32-3 AWP

Facility: SEC.03-T05N-R67W Slot: SLOT#02 EX. KNOX 32-3 (2270'FNL & 1839'FEL, JSND/SI) Well: EX. KNOX 32-3 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	-2.00	20.00	2462.86	-11381.25	-77.79	11644.68	25.57	473.29	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. KNOX 32-3 AWB Offset Wellpath: EX. KNOX 32-3 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. KNOX 32-3 AWB Offset Wellpath: EX. KNOX 32-3 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7878.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7878>	EX. KNOX 32-3 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. KNOX 32-3 AWB Offset Wellpath: EX. KNOX 32-3 AWP

MD Reference: Rig on SLOT#02 EX. KNOX 32-3 (2270'FNL & 1839'FEL, JSND/SI) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. HERTZKE N 1-7 AWB Offset Wellpath: EX. HERTZKE N 1-7 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#04 EX. HERTZKE N 1-7 (2072'FNL & 1816'FEL, CODL/SI) Well: EX. HERTZKE N 1-7 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	-5.00	20.00	2276.71	-1542.00	-34.11	2749.76	25.57	111.73	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. HERTZKE N 1-7 AWB Offset Wellpath: EX. HERTZKE N 1-7 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. HERTZKE N 1-7 AWB Offset Wellpath: EX. HERTZKE N 1-7 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7301.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7301>	EX. HERTZKE N 1-7 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. HERTZKE N 1-7 AWB Offset Wellpath: EX. HERTZKE N 1-7 AWP

MD Reference: Rig on SLOT#04 EX. HERTZKE N 1-7 (2072'FNL & 1816'FEL, CODL/SI) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: BOOMERANG 34C-6-M PWB Offset Wellpath: BOOMERANG 34C-6-M PWP

Facility: SEC.05-T05N-R66W Slot: SLOT#10 BOOMERANG 34C-6-M (1496'FNL & 2327'FWL, SEC.05) Well: BOOMERANG 34C-6-M Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	15647.29	7177.16	2101.39	424.04	11.41	7471.32	151.88	49.50	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: BOOMERANG 34C-6-M PWB Offset Wellpath: BOOMERANG 34C-6-M PWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: BOOMERANG 34C-6-M PWB Offset Wellpath: BOOMERANG 34C-6-M PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	15647.29	ISCWSA MWD, Rev. 4 (Standard)	MWD PWP SURVEYS FROM COGCC <100-15647.29>	BOOMERANG 34C-6-M PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: BOOMERANG 34C-6-M PWB Offset Wellpath: BOOMERANG 34C-6-M PWP

MD Reference: Rig on SLOT#10 BOOMERANG 34C-6-M (1496'FNL & 2327'FWL, SEC.05) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



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GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. ROTH 1-14 AWB Offset Wellpath: EX. ROTH 1-14 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#06 EX. ROTH 1-14 (2257'FNL & 505'FEL, NB-CD/PR) Well: EX. ROTH 1-14 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	-20.00	49.00	2099.56	-248.01	-6.74	2114.36	25.56	85.91	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. ROTH 1-14 AWB Offset Wellpath: EX. ROTH 1-14 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. ROTH 1-14 AWB Offset Wellpath: EX. ROTH 1-14 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7250.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7250>	EX. ROTH 1-14 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. ROTH 1-14 AWB Offset Wellpath: EX. ROTH 1-14 AWP

MD Reference: Rig on SLOT#06 EX. ROTH 1-14 (2257'FNL & 505'FEL, NB-CD/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: Aufrecht N2-7 AWB Offset Wellpath: Aufrecht N2-7 AWP

Facility: SEC.02-T5N-R67W Slot: Slot #3 Aufrecht N 2-7 Well: Aufrecht N 2-7 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	33.21	17.21	3681.52	-6419.97	-60.17	7400.65	50.14	150.35	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: Aufrecht N2-7 AWB Offset Wellpath: Aufrecht N2-7 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## HOLE & CASING SECTIONS - Offset Wellbore: Aufrecht N2-7 AWB Offset Wellpath: Aufrecht N2-7 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	12.00	635.00	623.00	-12.00	610.99	2244.76	-3913.32	2245.08	-3914.35
8.625in Casing Surface	12.00	635.00	623.00	-12.00	610.99	2244.76	-3913.32	2245.08	-3914.35
7.875in Open Hole	12.00	7573.00	7561.00	-12.00	7320.77	2244.76	-3913.32	1825.34	-3938.22

## WELLPATH COMPOSITION - Offset Wellbore: Aufrecht N2-7 AWB Offset Wellpath: Aufrecht N2-7 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
12.00	7573.00	BHI MTC (Collar, pre-2000) (Standard)	Log #1 <683-7573>	Aufrecht N2-7 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: Aufrecht N2-7 AWB Offset Wellpath: Aufrecht N2-7 AWP

MD Reference: Patterson 188 (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	12.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: Aufrecht N 2-8 AWB Offset Wellpath: Aufrecht N 2-8 AWP

Facility: SEC.02-T5N-R67W Slot: Slot #4 Aufrecht N 2-8 Well: Aufrecht N 2-8 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	2822.51	2711.66	3279.41	-6024.72	-61.44	7368.64	53.34	140.46	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: Aufrecht N 2-8 AWB Offset Wellpath: Aufrecht N 2-8 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## HOLE & CASING SECTIONS - Offset Wellbore: Aufrecht N 2-8 AWB Offset Wellpath: Aufrecht N 2-8 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	12.00	634.00	622.00	-12.00	609.99	2253.65	-3913.32	2254.56	-3913.02
8.625in Casing Surface	12.00	634.00	622.00	-12.00	609.99	2253.65	-3913.32	2254.56	-3913.02
7.875in Open Hole	12.00	7660.00	7648.00	-12.00	7306.20	2253.65	-3913.32	1813.57	-3503.93

## WELLPATH COMPOSITION - Offset Wellbore: Aufrecht N 2-8 AWB Offset Wellpath: Aufrecht N 2-8 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
12.00	7660.00	BHI MTC (Collar, pre-2000) (Standard)	Log #1 <634-7660>	Aufrecht N 2-8 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: Aufrecht N 2-8 AWB Offset Wellpath: Aufrecht N 2-8 AWP

MD Reference: Patterson 188 (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	12.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SKYWAY 3-11 AWB Offset Wellpath: EX. SKYWAY 3-11 AWP

Facility: SEC.11-T05N-R67W Slot: SLOT#02 EX. SKYWAY 3-11 (489'FNL 7 627'FWL, NB-CD/PR0 Well: EX. SKYWAY 3-11 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	48.00	20.00	-1668.53	-9491.99	-99.97	9637.53	50.18	195.79	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. SKYWAY 3-11 AWB Offset Wellpath: EX. SKYWAY 3-11 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. SKYWAY 3-11 AWB Offset Wellpath: EX. SKYWAY 3-11 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8003.00	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL SURVEYS FROM COGCC <500-8003>	EX. SKYWAY 3-11 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. SKYWAY 3-11 AWB Offset Wellpath: EX. SKYWAY 3-11 AWP

MD Reference: Rig on SLOT#02 EX. SKYWAY 3-11 (489'FNL 7 627'FWL, NB-CD/PR0 (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SHURVIEW USX N 03-17D AWB Offset Wellpath: EX. SHURVIEW USX N 03-17D AWP

Facility: SEC.03-T05N-R67W Slot: SLOT#06 EX. SHURVIEW USX N 03-17D (2085'FNL & 1928'FEL, NB-CD/SI) Well: EX. SHURVIEW USX N 03-17D Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	1.35	19.35	2441.02	-11425.81	-77.94	11683.65	50.17	237.43	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. SHURVIEW USX N 03-17D AWB Offset Wellpath: EX. SHURVIEW USX N 03-17D AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. SHURVIEW USX N 03-17D AWB Offset Wellpath: EX. SHURVIEW USX N 03-17D AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7425.00	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL SURVEYS PROVIDED BY SRC <343-7425>	EX. SHURVIEW USX N 03-17D AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. SHURVIEW USX N 03-17D AWB Offset Wellpath: EX. SHURVIEW USX N 03-17D AWP

MD Reference: Rig on SLOT#06 EX. SHURVIEW USX N 03-17D (2085'FNL & 1928'FEL, NB-CD/SI) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SKYWAY FEDERAL 31-11 AWB Offset Wellpath: EX. SKYWAY FEDERAL 31-11 AWP

Facility: SEC.11-T05N-R67W Slot: SLOT#04 EX. SKYWAY FEDERAL 31-11 (450'FNL & 582'FWL, NB-CD/PR) Well: EX. SKYWAY FEDERAL 31-11 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	76.45	58.45	-1631.39	-9537.21	-99.71	9675.81	50.18	196.60	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. SKYWAY FEDERAL 31-11 AWB Offset Wellpath: EX. SKYWAY FEDERAL 31-11 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. SKYWAY FEDERAL 31-11 AWB Offset Wellpath: EX. SKYWAY FEDERAL 31-11 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7442.00	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL SURVEYS PROVIDED BY SRC <7442>	EX. SKYWAY FEDERAL 31-11 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. SKYWAY FEDERAL 31-11 AWB Offset Wellpath: EX. SKYWAY FEDERAL 31-11 AWP

MD Reference: Rig on SLOT#04 EX. SKYWAY FEDERAL 31-11 (450'FNL & 582'FWL, NB-CD/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SKYWAY 18-11 AWB Offset Wellpath: EX. SKYWAY 18-11 AWP

Facility: SEC.11-T05N-R67W Slot: SLOT#01 EX. SKYWAY 18-11 (507'FNL & 650'FWL, NB-CD/PR) Well: EX. SKYWAY 18-11 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	41.74	13.74	-1681.68	-9470.85	-100.07	9618.99	50.17	195.46	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. SKYWAY 18-11 AWB Offset Wellpath: EX. SKYWAY 18-11 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. SKYWAY 18-11 AWB Offset Wellpath: EX. SKYWAY 18-11 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7919.00	ISCWSA MWD, Rev. 4 (Standard)	STRATA DIRECTIONAL SURVEYS PROVIDED BY SRC <7919>	EX. SKYWAY 18-11 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. SKYWAY 18-11 AWB Offset Wellpath: EX. SKYWAY 18-11 AWP

MD Reference: Rig on SLOT#01 EX. SKYWAY 18-11 (507'FNL & 650'FWL, NB-CD/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. ROTH 1-15 AWB Offset Wellpath: EX. ROTH 1-15 AWP

Facility: SEC.01-T05N-R67W Slot: SLOT#07 EX. ROTH 1-15 (963'FNL & 978'FEL, CODL/PR) Well: EX. ROTH 1-15 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	-20.00	21.00	3338.24	-718.77	-12.15	3414.74	25.57	138.76	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. ROTH 1-15 AWB Offset Wellpath: EX. ROTH 1-15 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. ROTH 1-15 AWB Offset Wellpath: EX. ROTH 1-15 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7336.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7336>	EX. ROTH 1-15 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. ROTH 1-15 AWB Offset Wellpath: EX. ROTH 1-15 AWP

MD Reference: Rig on SLOT#07 EX. ROTH 1-15 (963'FNL & 978'FEL, CODL/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SHURVIEW USX N 03-02D AWB Offset Wellpath: EX. SHURVIEW USX N 03-02D AWP

Facility: SEC.03-T05N-R67W Slot: SLOT#09 EX. SHURVIEW USX N 03-02D (2108'FNL & 1934'FEL, NB-CD/SI) Well: EX. SHURVIEW USX N 03-02D Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	3.29	20.29	2419.16	-11436.95	-78.06	11690.00	50.17	237.56	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. SHURVIEW USX N 03-02D AWB Offset Wellpath: EX. SHURVIEW USX N 03-02D AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. SHURVIEW USX N 03-02D AWB Offset Wellpath: EX. SHURVIEW USX N 03-02D AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7530.00	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL SURVEYS PROVIDED BY SRC <7530>	EX. SHURVIEW USX N 03-02D AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. SHURVIEW USX N 03-02D AWB Offset Wellpath: EX. SHURVIEW USX N 03-02D AWP

MD Reference: Rig on SLOT#09 EX. SHURVIEW USX N 03-02D (2108'FNL & 1934'FEL, NB-CD/SI) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SHUR VIEW 20-3 AWB Offset Wellpath: EX. SHUR VIEW 20-3 AWP

Facility: SEC.03-T05N-R67W Slot: SLOT#08 EX. SHUR VIEW 20-3 (1317'FSL & 1498'FEL, NB-CD/SI) Well: EX. SHUR VIEW 20-3 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	-12.00	20.00	142.19	-11404.60	-89.29	11405.48	25.57	463.56	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. SHUR VIEW 20-3 AWB Offset Wellpath: EX. SHUR VIEW 20-3 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. SHUR VIEW 20-3 AWB Offset Wellpath: EX. SHUR VIEW 20-3 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7305.00	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL SURVEYS PROVIDED BY SRC <7305>	EX. SHUR VIEW 20-3 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. SHUR VIEW 20-3 AWB Offset Wellpath: EX. SHUR VIEW 20-3 AWP

MD Reference: Rig on SLOT#08 EX. SHUR VIEW 20-3 (1317'FSL & 1498'FEL, NB-CD/SI) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. SHEEP 2-12 AWB Offset Wellpath: EX. SHEEP 2-12 AWP

Facility: SEC.12-T05N-R67W Slot: SLOT#02 EX. SHEEP 2-12 (2297'FSL & 1448'FEL, NB-CD/PR) Well: EX. SHEEP 2-12 Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	19.18	21.18	-4165.87	-1131.68	-164.80	4316.85	50.18	87.70	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. SHEEP 2-12 AWB Offset Wellpath: EX. SHEEP 2-12 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. SHEEP 2-12 AWB Offset Wellpath: EX. SHEEP 2-12 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7880.00	ISCWSA MWD, Rev. 4 (Standard)	WINSERVE MWD SURVEYS PROVIDED BY SRC <805-7880>	EX. SHEEP 2-12 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. SHEEP 2-12 AWB Offset Wellpath: EX. SHEEP 2-12 AWP

MD Reference: Rig on SLOT#02 EX. SHEEP 2-12 (2297'FSL & 1448'FEL, NB-CD/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. DETIENNE 1-12 AWB Offset Wellpath: EX. DETIENNE 1-12 AWP

Facility: SEC.12-T05N-R67W Slot: SLOT#01 EX. DETIENNE 1-12 (1960'FNL & 604'FEL, NB-CD/PR) Well: EX. DETIENNE 1-12 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	14.89	18.89	-3044.55	-284.57	-174.66	3057.82	50.17	62.12	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. DETIENNE 1-12 AWB Offset Wellpath: EX. DETIENNE 1-12 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. DETIENNE 1-12 AWB Offset Wellpath: EX. DETIENNE 1-12 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7439.00	ISCWSA MWD, Rev. 4 (Standard)	STRATA DIRECTIONAL TECHNOLOGY LLC MWD SURVEYS PROVIDED BY SRC <214-7439>	EX. DETIENNE 1-12 AWB
7439.00	7484.00	Blind Drilling (std)	Projection to bit	EX. DETIENNE 1-12 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. DETIENNE 1-12 AWB Offset Wellpath: EX. DETIENNE 1-12 AWP

MD Reference: Rig on SLOT#01 EX. DETIENNE 1-12 (1960'FNL & 604'FEL, NB-CD/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12C-2-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12C-2-L PWB
Facility	SEC.01-T05N-R67W		

## CLEARANCE DATA - Offset Wellbore: EX. UPRC 7-4H6 AWB Offset Wellpath: EX. UPRC 7-4H6 AWP

Facility: SEC.07-T5N-R66W Slot: SLOT#02 EX. UPRC 7-4H6 (671'FNL & 646'FWL, NB-CD/PR) Well: EX. UPRC 7-4H6 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
20.00	20.00	0.00	0.00	12.65	20.65	-1944.30	887.69	155.46	2137.36	50.17	43.42	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. UPRC 7-4H6 AWB Offset Wellpath: EX. UPRC 7-4H6 AWP

Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

## WELLPATH COMPOSITION - Offset Wellbore: EX. UPRC 7-4H6 AWB Offset Wellpath: EX. UPRC 7-4H6 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7100.00	BHI Generic gyro - continuous (Standard)	GYRO SURVEY PROVIDED BY SRC <100-7100>	EX. UPRC 7-4H6 AWB
7100.00	7342.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7342>	EX. UPRC 7-4H6 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. UPRC 7-4H6 AWB Offset Wellpath: EX. UPRC 7-4H6 AWP

MD Reference: Rig on SLOT#02 UPRC 7-4H6 (671'FNL & 646'FWL, NB-CD/PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft