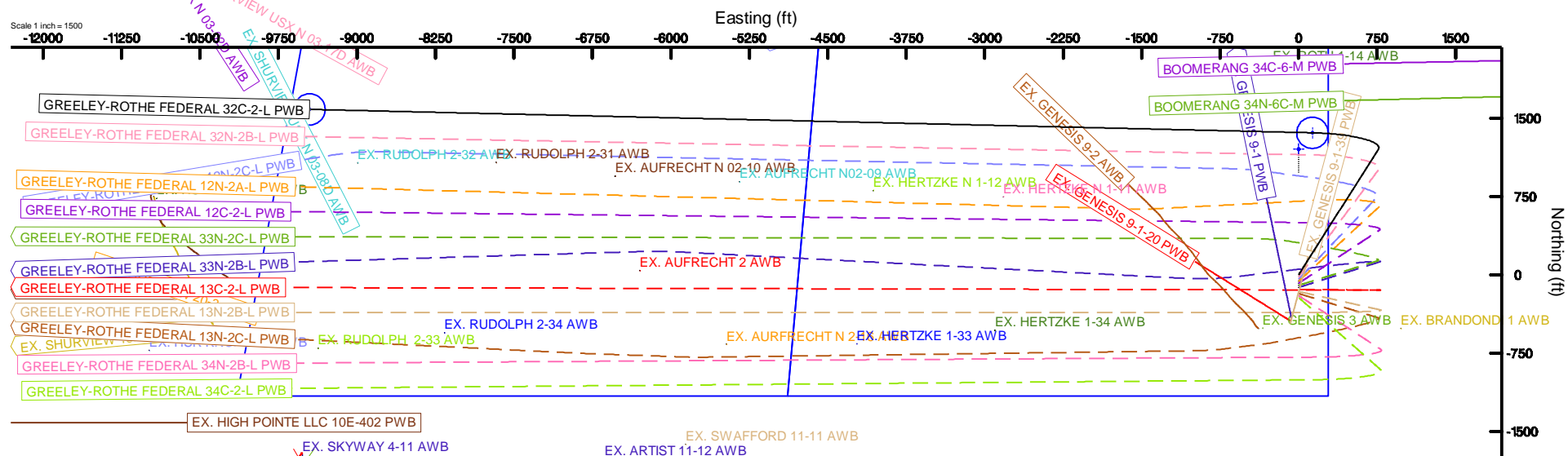
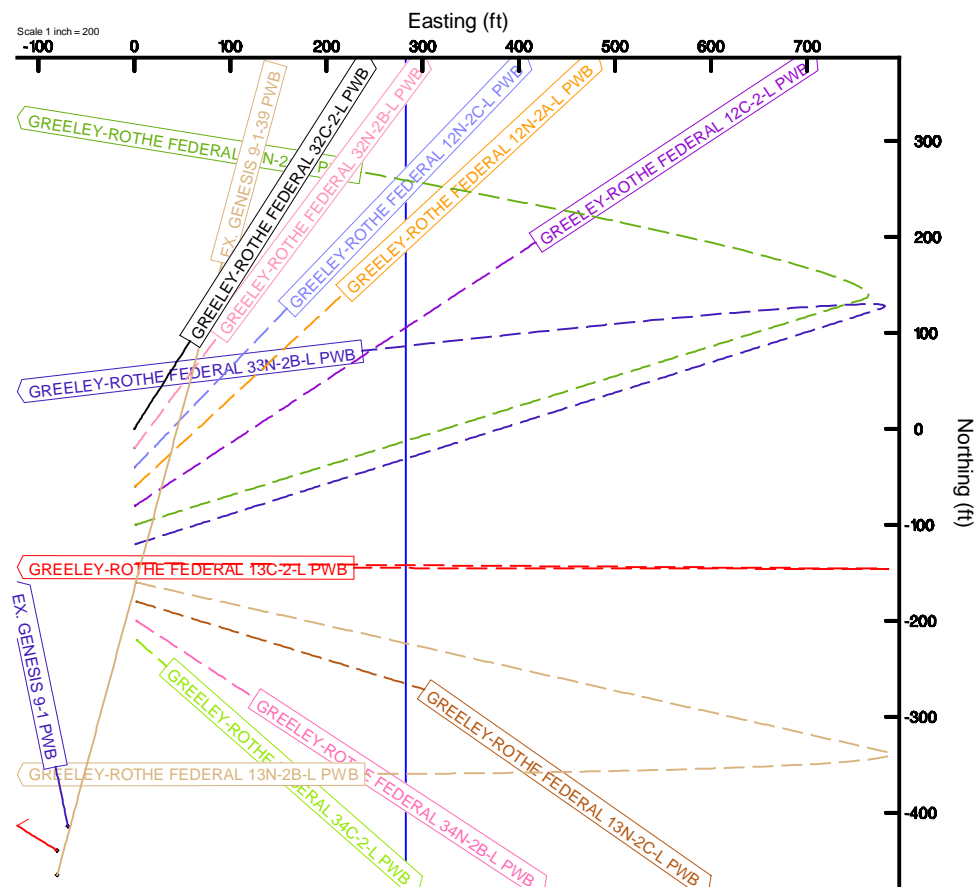


Location:	COLORADO	Slot:	SLOT#13 GREELEY-ROTHER FEDERAL 32C-2-L (1163FSL & 295FEL, SEC.01)
Field:	WELD COUNTY (NAD83,TRUE NORTH)	Well:	GREELEY-ROTHER FEDERAL 32C-2-L
Facility:	SEC.01-T05N-R67W	Wellbore:	GREELEY-ROTHER FEDERAL 32C-2-L PWB





Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 1 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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 2:12:57 PM
Convergence at slot	0.43° East	Database/Source file	WellArchitectDB/GREELEY-ROTHER FEDERAL 12N-2A-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	-1264.88	0.62	3185555.62	1398212.57	40°25'28.492"N	104°50'00.632"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#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 2 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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 12N-2A-L PWB Ref 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	0.00	0.00	144.22	155.58
9.625in Casing Surface	20.00	1750.00	1730.00	20.00	1731.53	0.00	0.00	144.22	155.58
8.5in Open Hole	1750.00	17063.18	15313.18	1731.53	6819.00	144.22	155.58	904.55	-9589.30

SURVEY PROGRAM - Ref Wellbore: GREELEY-ROTHER FEDERAL 12N-2A-L PWB Ref 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



Clearance Report

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

Closest Approach

Page 3 of 170



REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

CALCULATION RANGE & CUTOFF		
From: 20.00ft MD	To: 17063.18ft MD	C-C Cutoff: 1000.00 ft

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#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	10296.18	85.00	10296.52	10296.18	0.18	10296.18	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	11541.05	110.96	11541.09	11541.09	0.21	11541.09	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	12820.00	159.79	12820.00	12820.00	0.27	12820.00	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	14011.50	182.92	14011.68	14011.50	0.28	14011.50	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	16474.66	243.68	16474.66	16474.66	0.32	16474.66	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	15152.42	282.87	15152.42	15154.20	0.41	15154.20	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	20.04	17020.00	17020.00	0.44	17020.00	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	40.08	16992.21	16992.21	0.54	16992.21	FAIL
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	39.77	9020.00	17063.18	0.59	17063.18	FAIL
SEC.01-T05N-R67W	SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01)	GREELEY-ROTHER FEDERAL 12C-2-L	GREELEY-ROTHER FEDERAL 12C-2-L PWB	GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)	20.00	19.74	9020.00	17063.18	0.62	17063.18	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	59.81	13520.00	17063.18	0.78	17063.18	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	60.12	16920.00	16960.73	0.93	16960.73	FAIL
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	9033.51	170.62	9033.51	9046.26	1.02	9046.26	PASS
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	79.85	9020.00	17063.18	1.11	17063.18	PASS
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	13749.38	716.17	13749.38	13779.73	1.13	13779.73	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	99.89	9020.00	17063.18	1.28	17063.18	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	7790.17	151.31	7790.17	7801.62	1.39	7801.62	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	119.93	17063.18	17063.18	1.56	17063.18	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	139.97	8920.00	17063.18	1.78	17063.18	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	15597.50	1360.54	15597.50	15684.41	1.89	15684.41	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	16805.00	1541.67	16805.00	16901.60	1.99	16901.60	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	160.01	8920.00	17063.18	2.09	17063.18	PASS
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	16505.00	1677.01	16505.00	16600.01	2.21	16600.01	PASS
		EX. SHURVIEW 33C-3HZ	EX. SHURVIEW 33C-3HZ AWB	EX. SHURVIEW 33C-3HZ AWP	17063.18	1089.94	17063.18	17063.18	2.29	17063.18	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.03-T05N-R67W	SLOT#04 EX. SHURVIEW 33C-3HZ (2016'FSL & 1191'FEL, CODL/PR)										
SEC.02-T05N-R67W	SLOT#06 EX. AUFRECHT N 2-16 (660'FSL & 660'FEL, CODL/PR)	EX. AUFRECHT N 2-16	EX. AURFRECHT N 2-16 AWB	EX. AURFRECHT N 2-16 AWP	12903.13	1399.28	12903.13	13020.00	2.35	13020.00	PASS



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 4 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

CALCULATION RANGE & CUTOFF

From: 20.00ft MD	To: 17063.18ft 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#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	15220.00	1740.04	15220.00	15320.00	2.48	15320.00	PASS
SEC.01-T05N-R67W	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	10345.00	1198.41	10345.00	10457.25	2.52	10457.25	PASS
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	11665.00	1362.07	11665.00	11785.27	2.53	11785.27	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	7110.00	978.99	7110.00	7110.70	2.61	7110.70	PASS
SEC.02-T05N-R67W	SLOT#01 EX. AUFRECHT 1 (1368'FNL & 1287'FEL, J-CODL/PR)	EX. AUFRECHT 1	EX. AUFRECHT 1 AWB	EX. AUFRECHT 1 AWP	13807.50	1944.83	13807.50	13977.24	3.05	13977.24	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	17063.18	2101.48	17063.18	17063.18	3.15	17063.18	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	17063.18	1630.67	17063.18	17063.18	3.19	17063.18	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	567.80	7920.00	7996.45	3.19	7996.45	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	16926.09	2568.94	16926.09	17063.18	3.28	17063.18	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	17063.18	1595.40	17063.18	17063.18	3.45	17063.18	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	17063.18	1332.25	17063.18	17063.18	3.58	17063.18	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	7120.00	1350.93	7120.00	7152.86	3.60	7152.86	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	7646.25	1325.81	7646.25	7796.66	3.64	7796.66	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	9049.92	1566.70	9049.92	9238.92	3.72	9238.92	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	387.85	8520.00	8529.75	3.72	8529.75	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	2795.00	997.61	2795.00	6587.05	3.77	6587.05	PASS
SEC.02-T5N-R67W	Slot #3 Aufrecht N 2-7	Aufrecht N 2-7	Aufrecht N2-7 AWB	Aufrecht N2-7 AWP	14013.59	1456.41	14013.59	14139.89	3.77	14139.89	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	13270.00	2369.29	13270.00	13563.64	3.83	13563.64	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	17063.18	2361.66	17063.18	17063.18	3.85	17063.18	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	14032.50	2527.00	14032.50	14347.79	3.86	14347.79	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	17063.18	3038.29	17063.18	17063.18	4.08	17063.18	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	17063.18	2507.94	17063.18	17063.18	4.18	17063.18	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	12605.94	1454.64	12605.94	12820.00	4.21	17063.18	PASS
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	17063.18	2400.60	17063.18	17063.18	5.09	17063.18	PASS
	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	20.00	412.83	7420.00	7475.99	5.55	7475.99	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 5 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

CALCULATION RANGE & CUTOFF

From: 20.00ft MD	To: 17063.18ft 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.11-T05N-R67W	SLOT#02 EX. SKYWAY 3-11 (489'FNL & 762'FWL, NB-CD/PR)	EX. SKYWAY 3-11	EX. SKYWAY 3-11 AWB	EX. SKYWAY 3-11 AWP	15546.56	2723.88	15546.56	15936.28	5.75	15936.28	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	17063.18	3289.98	17063.18	17063.18	6.35	17063.18	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	8052.50	2587.43	8052.50	8651.42	6.66	8651.42	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	16198.59	3381.06	16198.59	16759.42	6.81	16759.42	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	17063.18	3253.86	17063.18	17063.18	7.06	17063.18	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	17063.18	2061.46	17063.18	17063.18	9.47	17063.18	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	9058.60	2510.24	9058.60	10093.44	13.74	10093.44	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	7907.50	2570.35	7907.50	9109.38	18.81	9109.38	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	420.00	2154.19	420.00	8873.70	29.69	8873.70	PASS



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 6 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	808.94	-2822.86	-74.01	2936.48	50.21	59.60	PASS
120.00†	120.00	0.00	0.00	123.00	120.00	808.94	-2822.86	-74.01	2936.48	50.59	59.15	PASS
220.00†	220.00	0.00	0.00	223.00	220.00	808.94	-2822.86	-74.01	2936.48	51.70	57.86	PASS
320.00†	320.00	0.00	0.00	323.00	320.00	808.94	-2822.86	-74.01	2936.48	53.49	55.88	PASS
350.00	350.00	0.00	0.00	353.00	350.00	808.94	-2822.86	-74.01	2936.48	54.17	55.17	PASS
420.00†	419.99	0.58	0.63	422.99	419.99	808.94	-2822.86	-121.19	2936.92	55.86	53.48	PASS
520.00†	519.90	3.43	3.70	522.90	519.90	808.94	-2822.86	-121.22	2939.10	58.69	50.90	PASS
620.00†	619.60	8.64	9.32	622.60	619.60	808.94	-2822.86	-121.28	2943.08	61.87	48.31	PASS
720.00†	718.97	16.22	17.50	721.97	718.97	808.94	-2822.86	-121.36	2948.91	65.30	45.82	PASS
820.00†	817.89	26.15	28.21	820.89	817.89	808.94	-2822.86	-121.47	2956.58	68.93	43.49	PASS
890.85	887.64	34.60	37.33	890.64	887.64	808.94	-2822.86	-121.56	2963.16	71.58	41.95	PASS
920.00†	916.27	38.32	41.34	919.27	916.27	808.94	-2822.86	-121.65	2966.06	72.69	41.34	PASS
1020.00†	1014.50	51.08	55.11	1017.50	1014.50	808.94	-2822.86	-121.96	2976.08	76.57	39.35	PASS
1120.00†	1112.72	63.84	68.87	1115.72	1112.72	808.94	-2822.86	-122.26	2986.18	80.56	37.50	PASS
1220.00†	1210.94	76.60	82.63	1213.94	1210.94	808.94	-2822.86	-122.56	2996.37	84.63	35.80	PASS
1320.00†	1309.17	89.36	96.40	1312.17	1309.17	808.94	-2822.86	-122.85	3006.64	88.78	34.23	PASS
1420.00†	1407.39	102.11	110.16	1410.39	1407.39	808.94	-2822.86	-123.15	3016.99	92.99	32.77	PASS
1520.00†	1505.61	114.87	123.93	1508.61	1505.61	808.94	-2822.86	-123.44	3027.42	97.25	31.43	PASS
1620.00†	1603.84	127.63	137.69	1606.84	1603.84	808.94	-2822.86	-123.74	3037.93	101.55	30.19	PASS
1720.00†	1702.06	140.39	151.45	1705.06	1702.06	808.94	-2822.86	-124.03	3048.53	105.89	29.04	PASS
1820.00†	1800.28	153.15	165.22	1803.28	1800.28	808.94	-2822.86	-124.31	3059.19	109.93	28.00	PASS
1920.00†	1898.51	165.91	178.98	1901.51	1898.51	808.94	-2822.86	-124.60	3069.94	114.17	27.05	PASS
2020.00†	1996.73	178.66	192.74	1999.73	1996.73	808.94	-2822.86	-124.88	3080.77	118.44	26.16	PASS
2120.00†	2094.95	191.42	206.51	2097.95	2094.95	808.94	-2822.86	-125.17	3091.67	122.74	25.33	PASS
2220.00†	2193.18	204.18	220.27	2196.18	2193.18	808.94	-2822.86	-125.45	3102.64	127.06	24.55	PASS
2320.00†	2291.40	216.94	234.04	2294.40	2291.40	808.94	-2822.86	-125.72	3113.69	131.41	23.82	PASS
2420.00†	2389.62	229.70	247.80	2392.62	2389.62	808.94	-2822.86	-126.00	3124.82	135.78	23.13	PASS
2520.00†	2487.85	242.45	261.56	2490.85	2487.85	808.94	-2822.86	-126.27	3136.01	140.17	22.48	PASS
2620.00†	2586.07	255.21	275.33	2589.07	2586.07	808.94	-2822.86	-126.55	3147.28	144.58	21.87	PASS
2720.00†	2684.29	267.97	289.09	2687.29	2684.29	808.94	-2822.86	-126.82	3158.62	149.01	21.29	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 7 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2785.51	2782.51	808.94	-2822.86	-127.08	3170.03	153.45	20.75	PASS
2920.00†	2880.74	293.49	316.62	2883.74	2880.74	808.94	-2822.86	-127.35	3181.51	157.92	20.23	PASS
3020.00†	2978.96	306.25	330.38	2981.96	2978.96	808.94	-2822.86	-127.62	3193.06	162.40	19.74	PASS
3120.00†	3077.18	319.00	344.15	3080.18	3077.18	808.94	-2822.86	-127.88	3204.68	166.90	19.28	PASS
3220.00†	3175.41	331.76	357.91	3178.41	3175.41	808.94	-2822.86	-128.14	3216.36	171.41	18.84	PASS
3320.00†	3273.63	344.52	371.67	3276.63	3273.63	808.94	-2822.86	-128.40	3228.12	175.94	18.42	PASS
3420.00†	3371.85	357.28	385.44	3374.85	3371.85	808.94	-2822.86	-128.66	3239.93	180.48	18.02	PASS
3520.00†	3470.08	370.04	399.20	3473.08	3470.08	808.94	-2822.86	-128.91	3251.82	185.04	17.64	PASS
3620.00†	3568.30	382.80	412.96	3571.30	3568.30	808.94	-2822.86	-129.17	3263.77	189.61	17.27	PASS
3720.00†	3666.52	395.55	426.73	3669.52	3666.52	808.94	-2822.86	-129.42	3275.78	194.19	16.93	PASS
3820.00†	3764.75	408.31	440.49	3767.75	3764.75	808.94	-2822.86	-129.67	3287.85	198.78	16.60	PASS
3920.00†	3862.97	421.07	454.26	3865.97	3862.97	808.94	-2822.86	-129.92	3299.99	203.39	16.28	PASS
4020.00†	3961.19	433.83	468.02	3964.19	3961.19	808.94	-2822.86	-130.16	3312.19	208.00	15.97	PASS
4120.00†	4059.42	446.59	481.78	4062.42	4059.42	808.94	-2822.86	-130.41	3324.45	212.63	15.68	PASS
4220.00†	4157.64	459.34	495.55	4160.64	4157.64	808.94	-2822.86	-130.65	3336.77	217.27	15.40	PASS
4320.00†	4255.86	472.10	509.31	4258.86	4255.86	808.94	-2822.86	-130.89	3349.15	221.92	15.14	PASS
4420.00†	4354.09	484.86	523.08	4357.09	4354.09	808.94	-2822.86	-131.13	3361.59	226.57	14.88	PASS
4520.00†	4452.31	497.62	536.84	4455.31	4452.31	808.94	-2822.86	-131.37	3374.09	231.24	14.63	PASS
4620.00†	4550.53	510.38	550.60	4553.53	4550.53	808.94	-2822.86	-131.60	3386.65	235.92	14.40	PASS
4720.00†	4648.75	523.14	564.37	4651.75	4648.75	808.94	-2822.86	-131.84	3399.26	240.60	14.17	PASS
4820.00†	4746.98	535.89	578.13	4749.98	4746.98	808.94	-2822.86	-132.07	3411.93	245.30	13.95	PASS
4920.00†	4845.20	548.65	591.89	4848.20	4845.20	808.94	-2822.86	-132.30	3424.66	250.00	13.73	PASS
5020.00†	4943.42	561.41	605.66	4946.42	4943.42	808.94	-2822.86	-132.53	3437.44	254.71	13.53	PASS
5120.00†	5041.65	574.17	619.42	5044.65	5041.65	808.94	-2822.86	-132.76	3450.28	259.43	13.33	PASS
5220.00†	5139.87	586.93	633.19	5142.87	5139.87	808.94	-2822.86	-132.98	3463.17	264.15	13.14	PASS
5320.00†	5238.09	599.68	646.95	5241.09	5238.09	808.94	-2822.86	-133.21	3476.11	268.89	12.96	PASS
5420.00†	5336.32	612.44	660.71	5339.32	5336.32	808.94	-2822.86	-133.43	3489.11	273.63	12.78	PASS
5520.00†	5434.54	625.20	674.48	5437.54	5434.54	808.94	-2822.86	-133.65	3502.16	278.37	12.61	PASS
5620.00†	5532.76	637.96	688.24	5535.76	5532.76	808.94	-2822.86	-133.87	3515.26	283.12	12.44	PASS
5720.00†	5630.99	650.72	702.00	5633.99	5630.99	808.94	-2822.86	-134.09	3528.41	287.88	12.28	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 8 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5732.21	5729.21	808.94	-2822.86	-134.30	3541.62	292.65	12.13	PASS
5920.00†	5827.43	676.23	729.53	5830.43	5827.43	808.94	-2822.86	-134.52	3554.87	297.42	11.98	PASS
6020.00†	5925.66	688.99	743.30	5928.66	5925.66	808.94	-2822.86	-134.73	3568.17	302.19	11.83	PASS
6120.00†	6023.88	701.75	757.06	6026.88	6023.88	808.94	-2822.86	-134.94	3581.52	306.98	11.69	PASS
6220.00†	6122.10	714.51	770.82	6125.10	6122.10	808.94	-2822.86	-135.15	3594.92	311.76	11.55	PASS
6237.28	6139.07	716.71	773.20	6142.07	6139.07	808.94	-2822.86	-135.19	3597.24	312.59	11.53	PASS
6320.00†	6220.86	727.06	779.25	6223.86	6220.86	808.94	-2822.86	-92.57	3603.04	316.61	11.40	PASS
6420.00†	6319.82	738.83	772.25	6322.82	6319.82	808.94	-2822.86	-36.68	3595.79	321.79	11.20	PASS
6520.00†	6416.56	749.52	749.77	6419.56	6416.56	808.94	-2822.86	-18.45	3573.12	327.23	10.94	PASS
6620.00†	6508.72	758.88	712.36	6511.72	6508.72	808.94	-2822.86	-11.33	3535.57	332.31	10.66	PASS
6720.00†	6594.01	766.68	660.94	6597.01	6594.01	808.94	-2822.86	-7.53	3484.06	336.89	10.36	PASS
6820.00†	6670.34	772.71	596.78	6673.34	6670.34	808.94	-2822.86	-4.99	3419.83	340.91	10.05	PASS
6920.00†	6735.84	776.83	521.46	6738.84	6735.84	808.94	-2822.86	-2.83	3344.47	344.27	9.73	PASS
7020.00†	6788.88	778.95	436.83	6791.88	6788.88	808.94	-2822.86	-0.38	3259.83	346.94	9.41	PASS
7120.00†	6828.16	779.00	344.98	6831.16	6828.16	808.94	-2822.86	3.54	3167.98	348.86	9.10	PASS
7220.00†	6852.71	776.99	248.17	6855.71	6852.71	808.94	-2822.86	13.64	3071.20	350.03	8.79	PASS
7320.00†	6861.94	772.97	148.78	6864.94	6861.94	808.94	-2822.86	76.87	2971.86	350.46	8.50	PASS
7332.14	6862.00	772.35	136.65	6865.00	6862.00	808.94	-2822.86	93.90	2959.74	350.47	8.46	PASS
7420.00†	6861.61	767.75	48.92	6864.61	6861.61	808.94	-2822.86	93.78	2872.08	350.45	8.21	PASS
7520.00†	6861.17	762.51	-50.94	6864.17	6861.17	808.94	-2822.86	93.65	2772.31	350.44	7.92	PASS
7620.00†	6860.73	757.28	-150.80	6863.73	6860.73	808.94	-2822.86	93.52	2672.56	350.44	7.64	PASS
7720.00†	6860.29	752.05	-250.67	6863.29	6860.29	808.94	-2822.86	93.39	2572.82	350.44	7.35	PASS
7820.00†	6859.85	746.81	-350.53	6862.85	6859.85	808.94	-2822.86	93.26	2473.11	350.45	7.07	PASS
7920.00†	6859.40	741.58	-450.39	6862.40	6859.40	808.94	-2822.86	93.12	2373.43	350.47	6.78	PASS
8020.00†	6858.96	736.35	-550.25	6861.96	6858.96	808.94	-2822.86	92.99	2273.77	350.50	6.50	PASS
8120.00†	6858.52	731.11	-650.11	6861.52	6858.52	808.94	-2822.86	92.86	2174.14	350.55	6.21	PASS
8220.00†	6858.08	725.88	-749.98	6861.08	6858.08	808.94	-2822.86	92.73	2074.55	350.61	5.93	PASS
8320.00†	6857.64	720.65	-849.84	6860.64	6857.64	808.94	-2822.86	92.60	1975.00	350.69	5.64	PASS
8420.00†	6857.20	715.41	-949.70	6860.20	6857.20	808.94	-2822.86	92.46	1875.49	350.80	5.36	PASS
8520.00†	6856.75	710.18	-1049.56	6859.75	6856.75	808.94	-2822.86	92.33	1776.05	350.95	5.07	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 9 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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, CDD/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†	6856.31	704.95	-1149.42	6859.31	6856.31	808.94	-2822.86	92.20	1676.66	351.13	4.78	PASS
8720.00†	6855.87	699.71	-1249.29	6858.87	6855.87	808.94	-2822.86	92.07	1577.36	351.37	4.50	PASS
8820.00†	6855.43	694.48	-1349.15	6858.43	6855.43	808.94	-2822.86	91.94	1478.15	351.68	4.21	PASS
8832.14	6855.38	693.84	-1361.28	6858.38	6855.38	808.94	-2822.86	91.92	1466.11	351.72	4.17	PASS
8920.00†	6854.99	690.59	-1449.07	6857.99	6854.99	808.94	-2822.86	92.34	1378.88	352.03	3.92	PASS
9020.00†	6854.55	690.17	-1549.06	6857.55	6854.55	808.94	-2822.86	93.17	1279.33	352.36	3.64	PASS
9058.60	6854.38	690.94	-1587.65	6857.38	6854.38	808.94	-2822.86	93.68	1240.83	352.47	3.53	PASS
9120.00†	6854.10	692.58	-1649.03	6857.10	6854.10	808.94	-2822.86	93.50	1179.59	352.66	3.35	PASS
9220.00†	6853.66	695.24	-1748.99	6856.66	6853.66	808.94	-2822.86	93.20	1079.87	353.01	3.06	PASS
9320.00†	6853.22	697.91	-1848.96	6856.22	6853.22	808.94	-2822.86	92.91	980.21	353.47	2.78	PASS
9420.00†	6852.78	700.58	-1948.92	6855.78	6852.78	808.94	-2822.86	92.61	880.63	354.08	2.49	PASS
9520.00†	6852.34	703.25	-2048.88	6855.34	6852.34	808.94	-2822.86	92.31	781.16	354.91	2.20	PASS
9620.00†	6851.89	705.92	-2148.85	6854.89	6851.89	808.94	-2822.86	92.02	681.84	356.07	1.92	PASS
9720.00†	6851.45	708.59	-2248.81	6854.45	6851.45	808.94	-2822.86	91.72	582.76	357.78	1.63	PASS
9820.00†	6851.01	711.26	-2348.77	6854.01	6851.01	808.94	-2822.86	91.42	484.05	360.46	1.34	PASS
9920.00†	6850.57	713.92	-2448.74	6853.57	6850.57	808.94	-2822.86	91.12	386.00	364.99	1.06	PASS
10020.00†	6850.13	716.59	-2548.70	6853.13	6850.13	808.94	-2822.86	90.82	289.30	373.48	0.77	FAIL
10120.00†	6849.68	719.26	-2648.66	6852.68	6849.68	808.94	-2822.86	90.53	195.93	391.81	0.50	FAIL
10220.00†	6849.24	721.93	-2748.63	6852.24	6849.24	808.94	-2822.86	90.23	114.37	436.62	0.26	FAIL
10296.18†	6848.91	723.96	-2824.78	6851.91	6848.91	808.94	-2822.86	90.00	85.00	474.44	0.18	FAIL
10296.52†	6848.90	723.97	-2825.12	6852.13	6849.13	808.94	-2822.86	90.15	85.00	474.43	0.18	FAIL
10320.00†	6848.80	724.60	-2848.59	6851.80	6848.80	808.94	-2822.86	89.93	88.18	468.13	0.19	FAIL
10420.00†	6848.36	727.27	-2948.55	6851.36	6848.36	808.94	-2822.86	89.63	149.90	406.65	0.37	FAIL
10520.00†	6847.92	729.94	-3048.52	6850.92	6847.92	808.94	-2822.86	89.33	239.09	377.25	0.63	FAIL
10620.00†	6847.48	732.60	-3148.48	6850.48	6847.48	808.94	-2822.86	89.04	334.45	365.19	0.92	FAIL
10720.00†	6847.03	735.27	-3248.44	6850.03	6847.03	808.94	-2822.86	88.74	431.91	359.46	1.20	PASS
10820.00†	6846.59	737.94	-3348.41	6849.59	6846.59	808.94	-2822.86	88.44	530.32	356.40	1.49	PASS
10920.00†	6846.15	740.61	-3448.37	6849.15	6846.15	808.94	-2822.86	88.14	629.23	354.61	1.78	PASS
11020.00†	6845.71	743.28	-3548.33	6848.71	6845.71	808.94	-2822.86	87.85	728.44	353.50	2.06	PASS
11120.00†	6845.27	745.95	-3648.30	6848.27	6845.27	808.94	-2822.86	87.55	827.84	352.78	2.35	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 10 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
11220.00†	6844.82	748.62	-3748.26	6847.82	6844.82	808.94	-2822.86	87.25	927.36	352.29	2.64	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 11 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	868.11	-4066.50	-77.95	4158.13	50.26	84.33	PASS
120.00†	120.00	0.00	0.00	146.00	120.00	868.11	-4066.50	-77.95	4158.13	50.81	83.41	PASS
220.00†	220.00	0.00	0.00	246.00	220.00	868.11	-4066.50	-77.95	4158.13	52.08	81.33	PASS
320.00†	320.00	0.00	0.00	346.00	320.00	868.11	-4066.50	-77.95	4158.13	54.01	78.37	PASS
350.00	350.00	0.00	0.00	376.00	350.00	868.11	-4066.50	-77.95	4158.13	54.69	77.38	PASS
420.00†	419.99	0.58	0.63	445.99	419.99	868.11	-4066.50	-125.12	4158.62	56.49	74.88	PASS
520.00†	519.90	3.43	3.70	545.90	519.90	868.11	-4066.50	-125.13	4161.03	59.40	71.19	PASS
620.00†	619.60	8.64	9.32	645.60	619.60	868.11	-4066.50	-125.14	4165.46	62.65	67.52	PASS
720.00†	718.97	16.22	17.50	744.97	718.97	868.11	-4066.50	-125.16	4171.90	66.13	64.00	PASS
820.00†	817.89	26.15	28.21	843.89	817.89	868.11	-4066.50	-125.19	4180.38	69.80	60.72	PASS
890.85	887.64	34.60	37.33	913.64	887.64	868.11	-4066.50	-125.21	4187.62	72.47	58.55	PASS
920.00†	916.27	38.32	41.34	942.27	916.27	868.11	-4066.50	-125.27	4190.81	73.59	57.69	PASS
1020.00†	1014.50	51.08	55.11	1040.50	1014.50	868.11	-4066.50	-125.47	4201.81	77.49	54.89	PASS
1120.00†	1112.72	63.84	68.87	1138.72	1112.72	868.11	-4066.50	-125.68	4212.85	81.49	52.30	PASS
1220.00†	1210.94	76.60	82.63	1236.94	1210.94	868.11	-4066.50	-125.88	4223.96	85.58	49.91	PASS
1320.00†	1309.17	89.36	96.40	1335.17	1309.17	868.11	-4066.50	-126.09	4235.11	89.73	47.70	PASS
1420.00†	1407.39	102.11	110.16	1433.39	1407.39	868.11	-4066.50	-126.29	4246.32	93.94	45.66	PASS
1520.00†	1505.61	114.87	123.93	1531.61	1505.61	868.11	-4066.50	-126.49	4257.59	98.21	43.77	PASS
1620.00†	1603.84	127.63	137.69	1629.84	1603.84	868.11	-4066.50	-126.69	4268.90	102.51	42.03	PASS
1720.00†	1702.06	140.39	151.45	1728.06	1702.06	868.11	-4066.50	-126.89	4280.27	106.86	40.41	PASS
1820.00†	1800.28	153.15	165.22	1826.28	1800.28	868.11	-4066.50	-127.09	4291.69	110.90	38.94	PASS
1920.00†	1898.51	165.91	178.98	1924.51	1898.51	868.11	-4066.50	-127.28	4303.16	115.14	37.60	PASS
2020.00†	1996.73	178.66	192.74	2022.73	1996.73	868.11	-4066.50	-127.48	4314.68	119.41	36.34	PASS
2120.00†	2094.95	191.42	206.51	2120.95	2094.95	868.11	-4066.50	-127.67	4326.26	123.71	35.17	PASS
2220.00†	2193.18	204.18	220.27	2219.18	2193.18	868.11	-4066.50	-127.87	4337.88	128.04	34.06	PASS
2320.00†	2291.40	216.94	234.04	2317.40	2291.40	868.11	-4066.50	-128.06	4349.56	132.39	33.03	PASS
2420.00†	2389.62	229.70	247.80	2415.62	2389.62	868.11	-4066.50	-128.25	4361.28	136.76	32.05	PASS
2520.00†	2487.85	242.45	261.56	2513.85	2487.85	868.11	-4066.50	-128.44	4373.05	141.16	31.13	PASS
2620.00†	2586.07	255.21	275.33	2612.07	2586.07	868.11	-4066.50	-128.63	4384.87	145.57	30.26	PASS
2720.00†	2684.29	267.97	289.09	2710.29	2684.29	868.11	-4066.50	-128.82	4396.74	150.00	29.45	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 12 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2808.51	2782.51	868.11	-4066.50	-129.01	4408.66	154.45	28.67	PASS
2920.00†	2880.74	293.49	316.62	2906.74	2880.74	868.11	-4066.50	-129.20	4420.62	158.92	27.94	PASS
3020.00†	2978.96	306.25	330.38	3004.96	2978.96	868.11	-4066.50	-129.38	4432.64	163.40	27.24	PASS
3120.00†	3077.18	319.00	344.15	3103.18	3077.18	868.11	-4066.50	-129.57	4444.70	167.90	26.58	PASS
3220.00†	3175.41	331.76	357.91	3201.41	3175.41	868.11	-4066.50	-129.75	4456.80	172.41	25.95	PASS
3320.00†	3273.63	344.52	371.67	3299.63	3273.63	868.11	-4066.50	-129.94	4468.95	176.94	25.35	PASS
3420.00†	3371.85	357.28	385.44	3397.85	3371.85	868.11	-4066.50	-130.12	4481.15	181.49	24.78	PASS
3520.00†	3470.08	370.04	399.20	3496.08	3470.08	868.11	-4066.50	-130.30	4493.39	186.04	24.24	PASS
3620.00†	3568.30	382.80	412.96	3594.30	3568.30	868.11	-4066.50	-130.48	4505.68	190.61	23.72	PASS
3720.00†	3666.52	395.55	426.73	3692.52	3666.52	868.11	-4066.50	-130.66	4518.01	195.20	23.23	PASS
3820.00†	3764.75	408.31	440.49	3790.75	3764.75	868.11	-4066.50	-130.84	4530.39	199.79	22.75	PASS
3920.00†	3862.97	421.07	454.26	3888.97	3862.97	868.11	-4066.50	-131.01	4542.81	204.40	22.30	PASS
4020.00†	3961.19	433.83	468.02	3987.19	3961.19	868.11	-4066.50	-131.19	4555.27	209.01	21.86	PASS
4120.00†	4059.42	446.59	481.78	4085.42	4059.42	868.11	-4066.50	-131.37	4567.78	213.64	21.45	PASS
4220.00†	4157.64	459.34	495.55	4183.64	4157.64	868.11	-4066.50	-131.54	4580.32	218.28	21.05	PASS
4320.00†	4255.86	472.10	509.31	4281.86	4255.86	868.11	-4066.50	-131.71	4592.92	222.93	20.66	PASS
4420.00†	4354.09	484.86	523.08	4380.09	4354.09	868.11	-4066.50	-131.89	4605.55	227.59	20.30	PASS
4520.00†	4452.31	497.62	536.84	4478.31	4452.31	868.11	-4066.50	-132.06	4618.22	232.26	19.94	PASS
4620.00†	4550.53	510.38	550.60	4576.53	4550.53	868.11	-4066.50	-132.23	4630.94	236.94	19.60	PASS
4720.00†	4648.75	523.14	564.37	4674.75	4648.75	868.11	-4066.50	-132.40	4643.70	241.62	19.27	PASS
4820.00†	4746.98	535.89	578.13	4772.98	4746.98	868.11	-4066.50	-132.57	4656.50	246.32	18.96	PASS
4920.00†	4845.20	548.65	591.89	4871.20	4845.20	868.11	-4066.50	-132.74	4669.33	251.02	18.65	PASS
5020.00†	4943.42	561.41	605.66	4969.42	4943.42	868.11	-4066.50	-132.90	4682.21	255.73	18.36	PASS
5120.00†	5041.65	574.17	619.42	5067.65	5041.65	868.11	-4066.50	-133.07	4695.13	260.45	18.07	PASS
5220.00†	5139.87	586.93	633.19	5165.87	5139.87	868.11	-4066.50	-133.23	4708.09	265.18	17.80	PASS
5320.00†	5238.09	599.68	646.95	5264.09	5238.09	868.11	-4066.50	-133.40	4721.09	269.91	17.53	PASS
5420.00†	5336.32	612.44	660.71	5362.32	5336.32	868.11	-4066.50	-133.56	4734.12	274.65	17.28	PASS
5520.00†	5434.54	625.20	674.48	5460.54	5434.54	868.11	-4066.50	-133.73	4747.20	279.40	17.03	PASS
5620.00†	5532.76	637.96	688.24	5558.76	5532.76	868.11	-4066.50	-133.89	4760.31	284.15	16.79	PASS
5720.00†	5630.99	650.72	702.00	5656.99	5630.99	868.11	-4066.50	-134.05	4773.46	288.91	16.56	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 13 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5755.21	5729.21	868.11	-4066.50	-134.21	4786.64	293.68	16.34	PASS
5920.00†	5827.43	676.23	729.53	5853.43	5827.43	868.11	-4066.50	-134.37	4799.87	298.45	16.12	PASS
6020.00†	5925.66	688.99	743.30	5951.66	5925.66	868.11	-4066.50	-134.53	4813.13	303.23	15.91	PASS
6120.00†	6023.88	701.75	757.06	6049.88	6023.88	868.11	-4066.50	-134.68	4826.43	308.01	15.70	PASS
6220.00†	6122.10	714.51	770.82	6148.10	6122.10	868.11	-4066.50	-134.84	4839.76	312.80	15.51	PASS
6237.28	6139.07	716.71	773.20	6165.07	6139.07	868.11	-4066.50	-134.87	4842.07	313.63	15.47	PASS
6320.00†	6220.86	727.06	779.25	6246.86	6220.86	868.11	-4066.50	-92.21	4847.80	317.65	15.29	PASS
6420.00†	6319.82	738.83	772.25	6345.82	6319.82	868.11	-4066.50	-36.26	4840.47	322.82	15.02	PASS
6520.00†	6416.56	749.52	749.77	6442.56	6416.56	868.11	-4066.50	-17.98	4817.73	328.25	14.71	PASS
6620.00†	6508.72	758.88	712.36	6534.72	6508.72	868.11	-4066.50	-10.77	4780.10	333.33	14.37	PASS
6720.00†	6594.01	766.68	660.94	6620.01	6594.01	868.11	-4066.50	-6.88	4728.53	337.91	14.02	PASS
6820.00†	6670.34	772.71	596.78	6696.34	6670.34	868.11	-4066.50	-4.20	4664.26	341.93	13.67	PASS
6920.00†	6735.84	776.83	521.46	6761.84	6735.84	868.11	-4066.50	-1.84	4588.87	345.29	13.32	PASS
7020.00†	6788.88	778.95	436.83	6814.88	6788.88	868.11	-4066.50	0.93	4504.22	347.96	12.97	PASS
7120.00†	6828.16	779.00	344.98	6854.16	6828.16	868.11	-4066.50	5.45	4412.38	349.88	12.63	PASS
7220.00†	6852.71	776.99	248.17	6878.71	6852.71	868.11	-4066.50	17.02	4315.63	351.05	12.32	PASS
7320.00†	6861.94	772.97	148.78	6887.94	6861.94	868.11	-4066.50	78.71	4216.36	351.49	12.02	PASS
7332.14	6862.00	772.35	136.65	6888.00	6862.00	868.11	-4066.50	93.36	4204.24	351.49	11.98	PASS
7420.00†	6861.61	767.75	48.92	6887.61	6861.61	868.11	-4066.50	93.29	4116.64	351.48	11.73	PASS
7520.00†	6861.17	762.51	-50.94	6887.17	6861.17	868.11	-4066.50	93.21	4016.95	351.48	11.45	PASS
7620.00†	6860.73	757.28	-150.80	6886.73	6860.73	868.11	-4066.50	93.13	3917.26	351.48	11.17	PASS
7720.00†	6860.29	752.05	-250.67	6886.29	6860.29	868.11	-4066.50	93.05	3817.60	351.48	10.88	PASS
7820.00†	6859.85	746.81	-350.53	6885.85	6859.85	868.11	-4066.50	92.97	3717.95	351.50	10.60	PASS
7920.00†	6859.40	741.58	-450.39	6885.40	6859.40	868.11	-4066.50	92.89	3618.32	351.52	10.31	PASS
8020.00†	6858.96	736.35	-550.25	6884.96	6858.96	868.11	-4066.50	92.81	3518.72	351.56	10.03	PASS
8120.00†	6858.52	731.11	-650.11	6884.52	6858.52	868.11	-4066.50	92.73	3419.13	351.60	9.74	PASS
8220.00†	6858.08	725.88	-749.98	6884.08	6858.08	868.11	-4066.50	92.65	3319.57	351.66	9.46	PASS
8320.00†	6857.64	720.65	-849.84	6883.64	6857.64	868.11	-4066.50	92.57	3220.04	351.74	9.17	PASS
8420.00†	6857.20	715.41	-949.70	6883.20	6857.20	868.11	-4066.50	92.49	3120.54	351.83	8.89	PASS
8520.00†	6856.75	710.18	-1049.56	6882.75	6856.75	868.11	-4066.50	92.41	3021.07	351.93	8.60	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 14 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	6856.31	704.95	-1149.42	6882.31	6856.31	868.11	-4066.50	92.33	2921.64	352.07	8.31	PASS
8720.00†	6855.87	699.71	-1249.29	6881.87	6855.87	868.11	-4066.50	92.25	2822.24	352.23	8.03	PASS
8820.00†	6855.43	694.48	-1349.15	6881.43	6855.43	868.11	-4066.50	92.17	2722.89	352.41	7.74	PASS
8832.14	6855.38	693.84	-1361.28	6881.38	6855.38	868.11	-4066.50	92.16	2710.83	352.44	7.71	PASS
8920.00†	6854.99	690.59	-1449.07	6880.99	6854.99	868.11	-4066.50	92.82	2623.45	352.61	7.45	PASS
9020.00†	6854.55	690.17	-1549.06	6880.55	6854.55	868.11	-4066.50	94.40	2523.72	352.77	7.17	PASS
9058.60	6854.38	690.94	-1587.65	6880.38	6854.38	868.11	-4066.50	95.65	2485.17	352.81	7.06	PASS
9120.00†	6854.10	692.58	-1649.03	6880.10	6854.10	868.11	-4066.50	95.51	2423.84	352.88	6.88	PASS
9220.00†	6853.66	695.24	-1748.99	6879.66	6853.66	868.11	-4066.50	95.28	2323.95	353.00	6.59	PASS
9320.00†	6853.22	697.91	-1848.96	6879.22	6853.22	868.11	-4066.50	95.06	2224.07	353.13	6.31	PASS
9420.00†	6852.78	700.58	-1948.92	6878.78	6852.78	868.11	-4066.50	94.83	2124.20	353.28	6.02	PASS
9520.00†	6852.34	703.25	-2048.88	6878.34	6852.34	868.11	-4066.50	94.60	2024.34	353.46	5.74	PASS
9620.00†	6851.89	705.92	-2148.85	6877.89	6851.89	868.11	-4066.50	94.38	1924.50	353.66	5.45	PASS
9720.00†	6851.45	708.59	-2248.81	6877.45	6851.45	868.11	-4066.50	94.15	1824.68	353.89	5.16	PASS
9820.00†	6851.01	711.26	-2348.77	6877.01	6851.01	868.11	-4066.50	93.92	1724.87	354.17	4.88	PASS
9920.00†	6850.57	713.92	-2448.74	6876.57	6850.57	868.11	-4066.50	93.70	1625.09	354.48	4.59	PASS
10020.00†	6850.13	716.59	-2548.70	6876.13	6850.13	868.11	-4066.50	93.47	1525.34	354.86	4.31	PASS
10120.00†	6849.68	719.26	-2648.66	6875.68	6849.68	868.11	-4066.50	93.24	1425.63	355.31	4.02	PASS
10220.00†	6849.24	721.93	-2748.63	6875.24	6849.24	868.11	-4066.50	93.01	1325.96	355.85	3.73	PASS
10320.00†	6848.80	724.60	-2848.59	6874.80	6848.80	868.11	-4066.50	92.79	1226.34	356.51	3.44	PASS
10420.00†	6848.36	727.27	-2948.55	6874.36	6848.36	868.11	-4066.50	92.56	1126.78	357.34	3.16	PASS
10520.00†	6847.92	729.94	-3048.52	6873.92	6847.92	868.11	-4066.50	92.33	1027.32	358.38	2.87	PASS
10620.00†	6847.48	732.60	-3148.48	6873.48	6847.48	868.11	-4066.50	92.10	927.97	359.73	2.58	PASS
10720.00†	6847.03	735.27	-3248.44	6873.03	6847.03	868.11	-4066.50	91.87	828.77	361.52	2.29	PASS
10820.00†	6846.59	737.94	-3348.41	6872.59	6846.59	868.11	-4066.50	91.65	729.80	363.96	2.01	PASS
10920.00†	6846.15	740.61	-3448.37	6872.15	6846.15	868.11	-4066.50	91.42	631.14	367.39	1.72	PASS
11020.00†	6845.71	743.28	-3548.33	6871.71	6845.71	868.11	-4066.50	91.19	532.99	372.45	1.43	PASS
11120.00†	6845.27	745.95	-3648.30	6871.27	6845.27	868.11	-4066.50	90.96	435.68	380.31	1.15	PASS
11220.00†	6844.82	748.62	-3748.26	6870.82	6844.82	868.11	-4066.50	90.73	339.93	393.37	0.86	FAIL
11320.00†	6844.38	751.29	-3848.22	6870.38	6844.38	868.11	-4066.50	90.51	247.57	417.09	0.59	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 15 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
11420.00†	6843.94	753.95	-3948.19	6869.94	6843.94	868.11	-4066.50	90.28	164.41	463.60	0.35	FAIL
11520.00†	6843.50	756.62	-4048.15	6869.50	6843.50	868.11	-4066.50	90.05	112.99	528.01	0.21	FAIL
11541.05†	6843.40	757.18	-4069.19	6869.32	6843.32	868.11	-4066.50	89.96	110.96	531.57	0.21	FAIL
11541.09†	6843.40	757.19	-4069.23	6869.40	6843.40	868.11	-4066.50	90.00	110.96	531.57	0.21	FAIL
11620.00†	6843.06	759.29	-4148.11	6869.06	6843.06	868.11	-4066.50	89.82	136.02	491.34	0.28	FAIL
11720.00†	6842.61	761.96	-4248.08	6868.61	6842.61	868.11	-4066.50	89.59	210.33	430.64	0.49	FAIL
11820.00†	6842.17	764.63	-4348.04	6868.17	6842.17	868.11	-4066.50	89.36	299.96	399.12	0.75	FAIL
11920.00†	6841.73	767.30	-4448.00	6867.73	6841.73	868.11	-4066.50	89.14	394.60	382.63	1.03	PASS
12020.00†	6841.29	769.97	-4547.97	6867.29	6841.29	868.11	-4066.50	88.91	491.37	373.19	1.32	PASS
12120.00†	6840.85	772.63	-4647.93	6866.85	6840.85	868.11	-4066.50	88.68	589.22	367.37	1.61	PASS
12220.00†	6840.40	775.30	-4747.89	6866.40	6840.40	868.11	-4066.50	88.45	687.69	363.58	1.89	PASS
12320.00†	6839.96	777.97	-4847.86	6865.96	6839.96	868.11	-4066.50	88.22	786.54	360.99	2.18	PASS
12420.00†	6839.52	780.64	-4947.82	6865.52	6839.52	868.11	-4066.50	88.00	885.65	359.17	2.47	PASS
12520.00†	6839.08	783.31	-5047.78	6865.08	6839.08	868.11	-4066.50	87.77	984.94	357.85	2.76	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 16 of 170



REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 17 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	951.03	-5343.00	-79.91	5426.98	50.31	109.96	PASS
120.00†	120.00	0.00	0.00	168.00	120.00	951.03	-5343.00	-79.91	5426.98	51.01	108.42	PASS
220.00†	220.00	0.00	0.00	268.00	220.00	951.03	-5343.00	-79.91	5426.98	52.44	105.41	PASS
320.00†	320.00	0.00	0.00	368.00	320.00	951.03	-5343.00	-79.91	5426.98	54.51	101.34	PASS
350.00	350.00	0.00	0.00	398.00	350.00	951.03	-5343.00	-79.91	5426.98	55.18	100.08	PASS
420.00†	419.99	0.58	0.63	467.99	419.99	951.03	-5343.00	-127.08	5427.49	57.09	96.69	PASS
520.00†	519.90	3.43	3.70	567.90	519.90	951.03	-5343.00	-127.07	5430.02	60.08	91.84	PASS
620.00†	619.60	8.64	9.32	667.60	619.60	951.03	-5343.00	-127.06	5434.65	63.39	87.04	PASS
720.00†	718.97	16.22	17.50	766.97	718.97	951.03	-5343.00	-127.05	5441.40	66.92	82.48	PASS
820.00†	817.89	26.15	28.21	865.89	817.89	951.03	-5343.00	-127.03	5450.26	70.62	78.23	PASS
890.85	887.64	34.60	37.33	935.64	887.64	951.03	-5343.00	-127.01	5457.82	73.32	75.41	PASS
920.00†	916.27	38.32	41.34	964.27	916.27	951.03	-5343.00	-127.06	5461.15	74.45	74.30	PASS
1020.00†	1014.50	51.08	55.11	1062.50	1014.50	951.03	-5343.00	-127.21	5472.61	78.37	70.69	PASS
1120.00†	1112.72	63.84	68.87	1160.72	1112.72	951.03	-5343.00	-127.37	5484.11	82.39	67.34	PASS
1220.00†	1210.94	76.60	82.63	1258.94	1210.94	951.03	-5343.00	-127.52	5495.64	86.48	64.25	PASS
1320.00†	1309.17	89.36	96.40	1357.17	1309.17	951.03	-5343.00	-127.67	5507.22	90.64	61.40	PASS
1420.00†	1407.39	102.11	110.16	1455.39	1407.39	951.03	-5343.00	-127.82	5518.84	94.86	58.76	PASS
1520.00†	1505.61	114.87	123.93	1553.61	1505.61	951.03	-5343.00	-127.98	5530.50	99.13	56.33	PASS
1620.00†	1603.84	127.63	137.69	1651.84	1603.84	951.03	-5343.00	-128.13	5542.19	103.44	54.07	PASS
1720.00†	1702.06	140.39	151.45	1750.06	1702.06	951.03	-5343.00	-128.28	5553.93	107.79	51.98	PASS
1820.00†	1800.28	153.15	165.22	1848.28	1800.28	951.03	-5343.00	-128.43	5565.70	111.83	50.08	PASS
1920.00†	1898.51	165.91	178.98	1946.51	1898.51	951.03	-5343.00	-128.58	5577.51	116.08	48.34	PASS
2020.00†	1996.73	178.66	192.74	2044.73	1996.73	951.03	-5343.00	-128.73	5589.36	120.36	46.71	PASS
2120.00†	2094.95	191.42	206.51	2142.95	2094.95	951.03	-5343.00	-128.87	5601.25	124.66	45.18	PASS
2220.00†	2193.18	204.18	220.27	2241.18	2193.18	951.03	-5343.00	-129.02	5613.18	128.99	43.75	PASS
2320.00†	2291.40	216.94	234.04	2339.40	2291.40	951.03	-5343.00	-129.17	5625.14	133.34	42.41	PASS
2420.00†	2389.62	229.70	247.80	2437.62	2389.62	951.03	-5343.00	-129.32	5637.14	137.72	41.14	PASS
2520.00†	2487.85	242.45	261.56	2535.85	2487.85	951.03	-5343.00	-129.46	5649.17	142.11	39.95	PASS
2620.00†	2586.07	255.21	275.33	2634.07	2586.07	951.03	-5343.00	-129.61	5661.25	146.53	38.82	PASS
2720.00†	2684.29	267.97	289.09	2732.29	2684.29	951.03	-5343.00	-129.75	5673.36	150.96	37.75	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 18 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2830.51	2782.51	951.03	-5343.00	-129.89	5685.50	155.41	36.75	PASS
2920.00†	2880.74	293.49	316.62	2928.74	2880.74	951.03	-5343.00	-130.04	5697.68	159.88	35.79	PASS
3020.00†	2978.96	306.25	330.38	3026.96	2978.96	951.03	-5343.00	-130.18	5709.90	164.36	34.89	PASS
3120.00†	3077.18	319.00	344.15	3125.18	3077.18	951.03	-5343.00	-130.32	5722.15	168.87	34.02	PASS
3220.00†	3175.41	331.76	357.91	3223.41	3175.41	951.03	-5343.00	-130.46	5734.44	173.38	33.21	PASS
3320.00†	3273.63	344.52	371.67	3321.63	3273.63	951.03	-5343.00	-130.60	5746.76	177.91	32.43	PASS
3420.00†	3371.85	357.28	385.44	3419.85	3371.85	951.03	-5343.00	-130.75	5759.12	182.46	31.68	PASS
3520.00†	3470.08	370.04	399.20	3518.08	3470.08	951.03	-5343.00	-130.89	5771.52	187.01	30.98	PASS
3620.00†	3568.30	382.80	412.96	3616.30	3568.30	951.03	-5343.00	-131.02	5783.94	191.58	30.30	PASS
3720.00†	3666.52	395.55	426.73	3714.52	3666.52	951.03	-5343.00	-131.16	5796.40	196.17	29.65	PASS
3820.00†	3764.75	408.31	440.49	3812.75	3764.75	951.03	-5343.00	-131.30	5808.90	200.76	29.03	PASS
3920.00†	3862.97	421.07	454.26	3910.97	3862.97	951.03	-5343.00	-131.44	5821.43	205.37	28.44	PASS
4020.00†	3961.19	433.83	468.02	4009.19	3961.19	951.03	-5343.00	-131.57	5833.99	209.99	27.87	PASS
4120.00†	4059.42	446.59	481.78	4107.42	4059.42	951.03	-5343.00	-131.71	5846.58	214.62	27.33	PASS
4220.00†	4157.64	459.34	495.55	4205.64	4157.64	951.03	-5343.00	-131.85	5859.21	219.26	26.81	PASS
4320.00†	4255.86	472.10	509.31	4303.86	4255.86	951.03	-5343.00	-131.98	5871.87	223.91	26.30	PASS
4420.00†	4354.09	484.86	523.08	4402.09	4354.09	951.03	-5343.00	-132.12	5884.57	228.57	25.82	PASS
4520.00†	4452.31	497.62	536.84	4500.31	4452.31	951.03	-5343.00	-132.25	5897.29	233.24	25.36	PASS
4620.00†	4550.53	510.38	550.60	4598.53	4550.53	951.03	-5343.00	-132.38	5910.05	237.92	24.91	PASS
4720.00†	4648.75	523.14	564.37	4696.75	4648.75	951.03	-5343.00	-132.52	5922.84	242.60	24.48	PASS
4820.00†	4746.98	535.89	578.13	4794.98	4746.98	951.03	-5343.00	-132.65	5935.66	247.30	24.07	PASS
4920.00†	4845.20	548.65	591.89	4893.20	4845.20	951.03	-5343.00	-132.78	5948.51	252.00	23.67	PASS
5020.00†	4943.42	561.41	605.66	4991.42	4943.42	951.03	-5343.00	-132.91	5961.40	256.72	23.28	PASS
5120.00†	5041.65	574.17	619.42	5089.65	5041.65	951.03	-5343.00	-133.04	5974.32	261.44	22.91	PASS
5220.00†	5139.87	586.93	633.19	5187.87	5139.87	951.03	-5343.00	-133.17	5987.26	266.16	22.55	PASS
5320.00†	5238.09	599.68	646.95	5286.09	5238.09	951.03	-5343.00	-133.30	6000.24	270.90	22.20	PASS
5420.00†	5336.32	612.44	660.71	5384.32	5336.32	951.03	-5343.00	-133.43	6013.25	275.64	21.87	PASS
5520.00†	5434.54	625.20	674.48	5482.54	5434.54	951.03	-5343.00	-133.56	6026.29	280.39	21.54	PASS
5620.00†	5532.76	637.96	688.24	5580.76	5532.76	951.03	-5343.00	-133.69	6039.36	285.14	21.23	PASS
5720.00†	5630.99	650.72	702.00	5678.99	5630.99	951.03	-5343.00	-133.81	6052.46	289.90	20.93	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 19 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5777.21	5729.21	951.03	-5343.00	-133.94	6065.58	294.67	20.63	PASS
5920.00†	5827.43	676.23	729.53	5875.43	5827.43	951.03	-5343.00	-134.07	6078.74	299.44	20.35	PASS
6020.00†	5925.66	688.99	743.30	5973.66	5925.66	951.03	-5343.00	-134.19	6091.93	304.22	20.07	PASS
6120.00†	6023.88	701.75	757.06	6071.88	6023.88	951.03	-5343.00	-134.32	6105.15	309.00	19.80	PASS
6220.00†	6122.10	714.51	770.82	6170.10	6122.10	951.03	-5343.00	-134.44	6118.39	313.79	19.54	PASS
6237.28	6139.07	716.71	773.20	6187.07	6139.07	951.03	-5343.00	-134.46	6120.68	314.62	19.50	PASS
6320.00†	6220.86	727.06	779.25	6268.86	6220.86	951.03	-5343.00	-91.79	6126.34	318.64	19.27	PASS
6420.00†	6319.82	738.83	772.25	6367.82	6319.82	951.03	-5343.00	-35.80	6118.92	323.81	18.94	PASS
6520.00†	6416.56	749.52	749.77	6464.56	6416.56	951.03	-5343.00	-17.47	6096.09	329.23	18.55	PASS
6620.00†	6508.72	758.88	712.36	6556.72	6508.72	951.03	-5343.00	-10.21	6058.40	334.30	18.16	PASS
6720.00†	6594.01	766.68	660.94	6642.01	6594.01	951.03	-5343.00	-6.23	6006.76	338.89	17.76	PASS
6820.00†	6670.34	772.71	596.78	6718.34	6670.34	951.03	-5343.00	-3.43	5942.45	342.90	17.36	PASS
6920.00†	6735.84	776.83	521.46	6783.84	6735.84	951.03	-5343.00	-0.90	5867.04	346.27	16.98	PASS
7020.00†	6788.88	778.95	436.83	6836.88	6788.88	951.03	-5343.00	2.16	5782.39	348.93	16.60	PASS
7120.00†	6828.16	779.00	344.98	6876.16	6828.16	951.03	-5343.00	7.23	5690.58	350.86	16.25	PASS
7220.00†	6852.71	776.99	248.17	6900.71	6852.71	951.03	-5343.00	20.06	5593.88	352.03	15.92	PASS
7320.00†	6861.94	772.97	148.78	6909.94	6861.94	951.03	-5343.00	80.04	5494.66	352.47	15.62	PASS
7332.14	6862.00	772.35	136.65	6910.00	6862.00	951.03	-5343.00	92.97	5482.56	352.48	15.58	PASS
7420.00†	6861.61	767.75	48.92	6909.61	6861.61	951.03	-5343.00	92.92	5395.03	352.47	15.34	PASS
7520.00†	6861.17	762.51	-50.94	6909.17	6861.17	951.03	-5343.00	92.87	5295.41	352.47	15.05	PASS
7620.00†	6860.73	757.28	-150.80	6908.73	6860.73	951.03	-5343.00	92.81	5195.81	352.47	14.77	PASS
7720.00†	6860.29	752.05	-250.67	6908.29	6860.29	951.03	-5343.00	92.76	5096.22	352.49	14.49	PASS
7820.00†	6859.85	746.81	-350.53	6907.85	6859.85	951.03	-5343.00	92.70	4996.64	352.51	14.20	PASS
7920.00†	6859.40	741.58	-450.39	6907.40	6859.40	951.03	-5343.00	92.65	4897.09	352.54	13.92	PASS
8020.00†	6858.96	736.35	-550.25	6906.96	6858.96	951.03	-5343.00	92.60	4797.55	352.58	13.63	PASS
8120.00†	6858.52	731.11	-650.11	6906.52	6858.52	951.03	-5343.00	92.54	4698.03	352.63	13.35	PASS
8220.00†	6858.08	725.88	-749.98	6906.08	6858.08	951.03	-5343.00	92.49	4598.54	352.69	13.06	PASS
8320.00†	6857.64	720.65	-849.84	6905.64	6857.64	951.03	-5343.00	92.43	4499.06	352.77	12.78	PASS
8420.00†	6857.20	715.41	-949.70	6905.20	6857.20	951.03	-5343.00	92.38	4399.61	352.86	12.49	PASS
8520.00†	6856.75	710.18	-1049.56	6904.75	6856.75	951.03	-5343.00	92.32	4300.18	352.97	12.21	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 20 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	6856.31	704.95	-1149.42	6904.31	6856.31	951.03	-5343.00	92.27	4200.79	353.09	11.92	PASS
8720.00†	6855.87	699.71	-1249.29	6903.87	6855.87	951.03	-5343.00	92.22	4101.42	353.24	11.63	PASS
8820.00†	6855.43	694.48	-1349.15	6903.43	6855.43	951.03	-5343.00	92.16	4002.08	353.41	11.35	PASS
8832.14	6855.38	693.84	-1361.28	6903.38	6855.38	951.03	-5343.00	92.15	3990.02	353.43	11.31	PASS
8920.00†	6854.99	690.59	-1449.07	6902.99	6854.99	951.03	-5343.00	92.85	3902.63	353.57	11.06	PASS
9020.00†	6854.55	690.17	-1549.06	6902.55	6854.55	951.03	-5343.00	94.56	3802.89	353.70	10.77	PASS
9058.60	6854.38	690.94	-1587.65	6902.38	6854.38	951.03	-5343.00	95.94	3764.34	353.74	10.66	PASS
9120.00†	6854.10	692.58	-1649.03	6902.10	6854.10	951.03	-5343.00	95.84	3703.00	353.79	10.49	PASS
9220.00†	6853.66	695.24	-1748.99	6901.66	6853.66	951.03	-5343.00	95.69	3603.09	353.88	10.20	PASS
9320.00†	6853.22	697.91	-1848.96	6901.22	6853.22	951.03	-5343.00	95.53	3503.20	353.98	9.91	PASS
9420.00†	6852.78	700.58	-1948.92	6900.78	6852.78	951.03	-5343.00	95.37	3403.30	354.09	9.63	PASS
9520.00†	6852.34	703.25	-2048.88	6900.34	6852.34	951.03	-5343.00	95.21	3303.42	354.21	9.34	PASS
9620.00†	6851.89	705.92	-2148.85	6899.89	6851.89	951.03	-5343.00	95.06	3203.54	354.34	9.06	PASS
9720.00†	6851.45	708.59	-2248.81	6899.45	6851.45	951.03	-5343.00	94.90	3103.67	354.48	8.77	PASS
9820.00†	6851.01	711.26	-2348.77	6899.01	6851.01	951.03	-5343.00	94.74	3003.81	354.64	8.48	PASS
9920.00†	6850.57	713.92	-2448.74	6898.57	6850.57	951.03	-5343.00	94.59	2903.96	354.82	8.20	PASS
10020.00†	6850.13	716.59	-2548.70	6898.13	6850.13	951.03	-5343.00	94.43	2804.11	355.01	7.91	PASS
10120.00†	6849.68	719.26	-2648.66	6897.68	6849.68	951.03	-5343.00	94.27	2704.28	355.22	7.63	PASS
10220.00†	6849.24	721.93	-2748.63	6897.24	6849.24	951.03	-5343.00	94.11	2604.47	355.46	7.34	PASS
10320.00†	6848.80	724.60	-2848.59	6896.80	6848.80	951.03	-5343.00	93.96	2504.66	355.73	7.05	PASS
10420.00†	6848.36	727.27	-2948.55	6896.36	6848.36	951.03	-5343.00	93.80	2404.88	356.02	6.77	PASS
10520.00†	6847.92	729.94	-3048.52	6895.92	6847.92	951.03	-5343.00	93.64	2305.11	356.35	6.48	PASS
10620.00†	6847.48	732.60	-3148.48	6895.48	6847.48	951.03	-5343.00	93.48	2205.36	356.73	6.19	PASS
10720.00†	6847.03	735.27	-3248.44	6895.03	6847.03	951.03	-5343.00	93.32	2105.64	357.15	5.91	PASS
10820.00†	6846.59	737.94	-3348.41	6894.59	6846.59	951.03	-5343.00	93.17	2005.94	357.63	5.62	PASS
10920.00†	6846.15	740.61	-3448.37	6894.15	6846.15	951.03	-5343.00	93.01	1906.27	358.19	5.33	PASS
11020.00†	6845.71	743.28	-3548.33	6893.71	6845.71	951.03	-5343.00	92.85	1806.65	358.82	5.04	PASS
11120.00†	6845.27	745.95	-3648.30	6893.27	6845.27	951.03	-5343.00	92.69	1707.06	359.56	4.76	PASS
11220.00†	6844.82	748.62	-3748.26	6892.82	6844.82	951.03	-5343.00	92.53	1607.53	360.42	4.47	PASS
11320.00†	6844.38	751.29	-3848.22	6892.38	6844.38	951.03	-5343.00	92.38	1508.06	361.44	4.18	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 21 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
11420.00†	6843.94	753.95	-3948.19	6891.94	6843.94	951.03	-5343.00	92.22	1408.66	362.65	3.89	PASS
11520.00†	6843.50	756.62	-4048.15	6891.50	6843.50	951.03	-5343.00	92.06	1309.36	364.11	3.60	PASS
11620.00†	6843.06	759.29	-4148.11	6891.06	6843.06	951.03	-5343.00	91.90	1210.17	365.87	3.31	PASS
11720.00†	6842.61	761.96	-4248.08	6890.61	6842.61	951.03	-5343.00	91.74	1111.12	368.05	3.02	PASS
11820.00†	6842.17	764.63	-4348.04	6890.17	6842.17	951.03	-5343.00	91.58	1012.27	370.78	2.73	PASS
11920.00†	6841.73	767.30	-4448.00	6889.73	6841.73	951.03	-5343.00	91.43	913.66	374.24	2.44	PASS
12020.00†	6841.29	769.97	-4547.97	6889.29	6841.29	951.03	-5343.00	91.27	815.39	378.72	2.16	PASS
12120.00†	6840.85	772.63	-4647.93	6888.85	6840.85	951.03	-5343.00	91.11	717.59	384.67	1.87	PASS
12220.00†	6840.40	775.30	-4747.89	6888.40	6840.40	951.03	-5343.00	90.95	620.50	392.79	1.58	PASS
12320.00†	6839.96	777.97	-4847.86	6887.96	6839.96	951.03	-5343.00	90.79	524.51	404.22	1.30	PASS
12420.00†	6839.52	780.64	-4947.82	6887.52	6839.52	951.03	-5343.00	90.63	430.34	421.02	1.02	PASS
12520.00†	6839.08	783.31	-5047.78	6887.08	6839.08	951.03	-5343.00	90.48	339.53	446.88	0.76	FAIL
12620.00†	6838.64	785.98	-5147.75	6886.64	6838.64	951.03	-5343.00	90.32	255.67	488.12	0.52	FAIL
12720.00†	6838.19	788.65	-5247.71	6886.19	6838.19	951.03	-5343.00	90.16	188.28	548.99	0.34	FAIL
12820.00†	6837.75	791.32	-5347.68	6885.75	6837.75	951.03	-5343.00	90.00	159.79	590.75	0.27	FAIL
12920.00†	6837.31	793.98	-5447.64	6885.31	6837.31	951.03	-5343.00	89.84	188.72	549.11	0.34	FAIL
13020.00†	6836.87	796.65	-5547.60	6884.87	6836.87	951.03	-5343.00	89.68	256.31	488.66	0.52	FAIL
13120.00†	6836.43	799.32	-5647.57	6884.43	6836.43	951.03	-5343.00	89.52	340.26	447.70	0.76	FAIL
13220.00†	6835.98	801.99	-5747.53	6883.98	6835.98	951.03	-5343.00	89.37	431.12	422.01	1.02	PASS
13320.00†	6835.54	804.66	-5847.49	6883.54	6835.54	951.03	-5343.00	89.21	525.30	405.31	1.30	PASS
13420.00†	6835.10	807.33	-5947.46	6883.10	6835.10	951.03	-5343.00	89.05	621.31	393.95	1.58	PASS
13520.00†	6834.66	810.00	-6047.42	6882.66	6834.66	951.03	-5343.00	88.89	718.40	385.90	1.86	PASS
13620.00†	6834.22	812.66	-6147.38	6882.22	6834.22	951.03	-5343.00	88.73	816.20	380.01	2.15	PASS
13720.00†	6833.77	815.33	-6247.35	6881.77	6833.77	951.03	-5343.00	88.57	914.47	375.59	2.44	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 22 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 23 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	1005.97	-6533.73	-81.25	6610.71	50.33	133.90	PASS
120.00†	120.00	0.00	0.00	178.00	120.00	1005.97	-6533.73	-81.25	6610.71	51.11	131.82	PASS
220.00†	220.00	0.00	0.00	278.00	220.00	1005.97	-6533.73	-81.25	6610.71	52.60	127.99	PASS
320.00†	320.00	0.00	0.00	378.00	320.00	1005.97	-6533.73	-81.25	6610.71	54.73	122.93	PASS
350.00	350.00	0.00	0.00	408.00	350.00	1005.97	-6533.73	-81.25	6610.71	55.45	121.32	PASS
420.00†	419.99	0.58	0.63	477.99	419.99	1005.97	-6533.73	-128.42	6611.25	57.36	117.21	PASS
520.00†	519.90	3.43	3.70	577.90	519.90	1005.97	-6533.73	-128.40	6613.85	60.39	111.28	PASS
620.00†	619.60	8.64	9.32	677.60	619.60	1005.97	-6533.73	-128.38	6618.62	63.73	105.44	PASS
720.00†	718.97	16.22	17.50	776.97	718.97	1005.97	-6533.73	-128.35	6625.57	67.28	99.89	PASS
820.00†	817.89	26.15	28.21	875.89	817.89	1005.97	-6533.73	-128.30	6634.69	71.00	94.72	PASS
890.85	887.64	34.60	37.33	945.64	887.64	1005.97	-6533.73	-128.26	6642.46	73.71	91.29	PASS
920.00†	916.27	38.32	41.34	974.27	916.27	1005.97	-6533.73	-128.30	6645.89	74.84	89.95	PASS
1020.00†	1014.50	51.08	55.11	1072.50	1014.50	1005.97	-6533.73	-128.42	6657.67	78.77	85.56	PASS
1120.00†	1112.72	63.84	68.87	1170.72	1112.72	1005.97	-6533.73	-128.55	6669.47	82.79	81.49	PASS
1220.00†	1210.94	76.60	82.63	1268.94	1210.94	1005.97	-6533.73	-128.67	6681.31	86.89	77.74	PASS
1320.00†	1309.17	89.36	96.40	1367.17	1309.17	1005.97	-6533.73	-128.80	6693.18	91.06	74.28	PASS
1420.00†	1407.39	102.11	110.16	1465.39	1407.39	1005.97	-6533.73	-128.92	6705.09	95.28	71.08	PASS
1520.00†	1505.61	114.87	123.93	1563.61	1505.61	1005.97	-6533.73	-129.04	6717.02	99.55	68.12	PASS
1620.00†	1603.84	127.63	137.69	1661.84	1603.84	1005.97	-6533.73	-129.17	6728.99	103.86	65.39	PASS
1720.00†	1702.06	140.39	151.45	1760.06	1702.06	1005.97	-6533.73	-129.29	6740.98	108.21	62.85	PASS
1820.00†	1800.28	153.15	165.22	1858.28	1800.28	1005.97	-6533.73	-129.41	6753.01	112.25	60.53	PASS
1920.00†	1898.51	165.91	178.98	1956.51	1898.51	1005.97	-6533.73	-129.53	6765.07	116.50	58.42	PASS
2020.00†	1996.73	178.66	192.74	2054.73	1996.73	1005.97	-6533.73	-129.65	6777.16	120.78	56.44	PASS
2120.00†	2094.95	191.42	206.51	2152.95	2094.95	1005.97	-6533.73	-129.78	6789.27	125.09	54.58	PASS
2220.00†	2193.18	204.18	220.27	2251.18	2193.18	1005.97	-6533.73	-129.90	6801.42	129.42	52.84	PASS
2320.00†	2291.40	216.94	234.04	2349.40	2291.40	1005.97	-6533.73	-130.01	6813.60	133.77	51.20	PASS
2420.00†	2389.62	229.70	247.80	2447.62	2389.62	1005.97	-6533.73	-130.13	6825.81	138.15	49.66	PASS
2520.00†	2487.85	242.45	261.56	2545.85	2487.85	1005.97	-6533.73	-130.25	6838.05	142.54	48.21	PASS
2620.00†	2586.07	255.21	275.33	2644.07	2586.07	1005.97	-6533.73	-130.37	6850.32	146.96	46.83	PASS
2720.00†	2684.29	267.97	289.09	2742.29	2684.29	1005.97	-6533.73	-130.49	6862.61	151.39	45.54	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 24 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2840.51	2782.51	1005.97	-6533.73	-130.61	6874.94	155.85	44.31	PASS
2920.00†	2880.74	293.49	316.62	2938.74	2880.74	1005.97	-6533.73	-130.73	6887.30	160.31	43.15	PASS
3020.00†	2978.96	306.25	330.38	3036.96	2978.96	1005.97	-6533.73	-130.84	6899.68	164.80	42.04	PASS
3120.00†	3077.18	319.00	344.15	3135.18	3077.18	1005.97	-6533.73	-130.96	6912.09	169.30	40.99	PASS
3220.00†	3175.41	331.76	357.91	3233.41	3175.41	1005.97	-6533.73	-131.07	6924.54	173.82	40.00	PASS
3320.00†	3273.63	344.52	371.67	3331.63	3273.63	1005.97	-6533.73	-131.19	6937.01	178.35	39.05	PASS
3420.00†	3371.85	357.28	385.44	3429.85	3371.85	1005.97	-6533.73	-131.31	6949.50	182.89	38.14	PASS
3520.00†	3470.08	370.04	399.20	3528.08	3470.08	1005.97	-6533.73	-131.42	6962.03	187.45	37.28	PASS
3620.00†	3568.30	382.80	412.96	3626.30	3568.30	1005.97	-6533.73	-131.54	6974.59	192.02	36.45	PASS
3720.00†	3666.52	395.55	426.73	3724.52	3666.52	1005.97	-6533.73	-131.65	6987.17	196.61	35.66	PASS
3820.00†	3764.75	408.31	440.49	3822.75	3764.75	1005.97	-6533.73	-131.76	6999.78	201.20	34.91	PASS
3920.00†	3862.97	421.07	454.26	3920.97	3862.97	1005.97	-6533.73	-131.88	7012.42	205.81	34.19	PASS
4020.00†	3961.19	433.83	468.02	4019.19	3961.19	1005.97	-6533.73	-131.99	7025.08	210.43	33.49	PASS
4120.00†	4059.42	446.59	481.78	4117.42	4059.42	1005.97	-6533.73	-132.10	7037.77	215.06	32.83	PASS
4220.00†	4157.64	459.34	495.55	4215.64	4157.64	1005.97	-6533.73	-132.21	7050.49	219.70	32.19	PASS
4320.00†	4255.86	472.10	509.31	4313.86	4255.86	1005.97	-6533.73	-132.32	7063.24	224.35	31.58	PASS
4420.00†	4354.09	484.86	523.08	4412.09	4354.09	1005.97	-6533.73	-132.44	7076.01	229.01	30.99	PASS
4520.00†	4452.31	497.62	536.84	4510.31	4452.31	1005.97	-6533.73	-132.55	7088.81	233.68	30.42	PASS
4620.00†	4550.53	510.38	550.60	4608.53	4550.53	1005.97	-6533.73	-132.66	7101.64	238.36	29.88	PASS
4720.00†	4648.75	523.14	564.37	4706.75	4648.75	1005.97	-6533.73	-132.77	7114.49	243.05	29.35	PASS
4820.00†	4746.98	535.89	578.13	4804.98	4746.98	1005.97	-6533.73	-132.88	7127.37	247.74	28.85	PASS
4920.00†	4845.20	548.65	591.89	4903.20	4845.20	1005.97	-6533.73	-132.99	7140.28	252.45	28.36	PASS
5020.00†	4943.42	561.41	605.66	5001.42	4943.42	1005.97	-6533.73	-133.10	7153.21	257.16	27.89	PASS
5120.00†	5041.65	574.17	619.42	5099.65	5041.65	1005.97	-6533.73	-133.20	7166.17	261.88	27.44	PASS
5220.00†	5139.87	586.93	633.19	5197.87	5139.87	1005.97	-6533.73	-133.31	7179.15	266.61	27.00	PASS
5320.00†	5238.09	599.68	646.95	5296.09	5238.09	1005.97	-6533.73	-133.42	7192.16	271.34	26.57	PASS
5420.00†	5336.32	612.44	660.71	5394.32	5336.32	1005.97	-6533.73	-133.53	7205.19	276.08	26.16	PASS
5520.00†	5434.54	625.20	674.48	5492.54	5434.54	1005.97	-6533.73	-133.63	7218.25	280.83	25.77	PASS
5620.00†	5532.76	637.96	688.24	5590.76	5532.76	1005.97	-6533.73	-133.74	7231.34	285.59	25.38	PASS
5720.00†	5630.99	650.72	702.00	5688.99	5630.99	1005.97	-6533.73	-133.85	7244.44	290.35	25.01	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 25 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
5820.00†	5729.21	663.48	715.77	5787.21	5729.21	1005.97	-6533.73	-133.95	7257.58	295.11	24.65	PASS
5920.00†	5827.43	676.23	729.53	5885.43	5827.43	1005.97	-6533.73	-134.06	7270.74	299.89	24.30	PASS
6020.00†	5925.66	688.99	743.30	5983.66	5925.66	1005.97	-6533.73	-134.16	7283.92	304.67	23.96	PASS
6120.00†	6023.88	701.75	757.06	6081.88	6023.88	1005.97	-6533.73	-134.27	7297.13	309.45	23.63	PASS
6220.00†	6122.10	714.51	770.82	6180.10	6122.10	1005.97	-6533.73	-134.37	7310.36	314.24	23.31	PASS
6237.28	6139.07	716.71	773.20	6197.07	6139.07	1005.97	-6533.73	-134.39	7312.65	315.07	23.26	PASS
6320.00†	6220.86	727.06	779.25	6278.86	6220.86	1005.97	-6533.73	-91.70	7318.29	319.09	22.98	PASS
6420.00†	6319.82	738.83	772.25	6377.82	6319.82	1005.97	-6533.73	-35.70	7310.85	324.26	22.59	PASS
6520.00†	6416.56	749.52	749.77	6474.56	6416.56	1005.97	-6533.73	-17.34	7288.00	329.68	22.15	PASS
6620.00†	6508.72	758.88	712.36	6566.72	6508.72	1005.97	-6533.73	-10.05	7250.29	334.75	21.70	PASS
6720.00†	6594.01	766.68	660.94	6652.01	6594.01	1005.97	-6533.73	-6.05	7198.64	339.33	21.26	PASS
6820.00†	6670.34	772.71	596.78	6728.34	6670.34	1005.97	-6533.73	-3.22	7134.32	343.34	20.82	PASS
6920.00†	6735.84	776.83	521.46	6793.84	6735.84	1005.97	-6533.73	-0.63	7058.90	346.71	20.40	PASS
7020.00†	6788.88	778.95	436.83	6846.88	6788.88	1005.97	-6533.73	2.51	6974.25	349.38	20.00	PASS
7120.00†	6828.16	779.00	344.98	6886.16	6828.16	1005.97	-6533.73	7.71	6882.45	351.30	19.63	PASS
7220.00†	6852.71	776.99	248.17	6910.71	6852.71	1005.97	-6533.73	20.85	6785.76	352.48	19.29	PASS
7320.00†	6861.94	772.97	148.78	6919.94	6861.94	1005.97	-6533.73	80.32	6686.57	352.92	18.98	PASS
7332.14	6862.00	772.35	136.65	6920.00	6862.00	1005.97	-6533.73	92.89	6674.47	352.92	18.95	PASS
7420.00†	6861.61	767.75	48.92	6919.61	6861.61	1005.97	-6533.73	92.85	6586.95	352.92	18.70	PASS
7520.00†	6861.17	762.51	-50.94	6919.17	6861.17	1005.97	-6533.73	92.81	6487.35	352.92	18.42	PASS
7620.00†	6860.73	757.28	-150.80	6918.73	6860.73	1005.97	-6533.73	92.76	6387.76	352.92	18.13	PASS
7720.00†	6860.29	752.05	-250.67	6918.29	6860.29	1005.97	-6533.73	92.72	6288.19	352.94	17.85	PASS
7820.00†	6859.85	746.81	-350.53	6917.85	6859.85	1005.97	-6533.73	92.68	6188.63	352.96	17.57	PASS
7920.00†	6859.40	741.58	-450.39	6917.40	6859.40	1005.97	-6533.73	92.63	6089.08	352.99	17.28	PASS
8020.00†	6858.96	736.35	-550.25	6916.96	6858.96	1005.97	-6533.73	92.59	5989.54	353.03	17.00	PASS
8120.00†	6858.52	731.11	-650.11	6916.52	6858.52	1005.97	-6533.73	92.54	5890.03	353.08	16.71	PASS
8220.00†	6858.08	725.88	-749.98	6916.08	6858.08	1005.97	-6533.73	92.50	5790.53	353.14	16.43	PASS
8320.00†	6857.64	720.65	-849.84	6915.64	6857.64	1005.97	-6533.73	92.46	5691.04	353.21	16.14	PASS
8420.00†	6857.20	715.41	-949.70	6915.20	6857.20	1005.97	-6533.73	92.41	5591.58	353.29	15.86	PASS
8520.00†	6856.75	710.18	-1049.56	6914.75	6856.75	1005.97	-6533.73	92.37	5492.13	353.39	15.57	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 26 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	6856.31	704.95	-1149.42	6914.31	6856.31	1005.97	-6533.73	92.33	5392.71	353.50	15.28	PASS
8720.00†	6855.87	699.71	-1249.29	6913.87	6855.87	1005.97	-6533.73	92.28	5293.31	353.63	15.00	PASS
8820.00†	6855.43	694.48	-1349.15	6913.43	6855.43	1005.97	-6533.73	92.24	5193.93	353.77	14.71	PASS
8832.14	6855.38	693.84	-1361.28	6913.38	6855.38	1005.97	-6533.73	92.24	5181.86	353.79	14.67	PASS
8920.00†	6854.99	690.59	-1449.07	6912.99	6854.99	1005.97	-6533.73	93.02	5094.43	353.91	14.42	PASS
9020.00†	6854.55	690.17	-1549.06	6912.55	6854.55	1005.97	-6533.73	95.04	4994.66	354.02	14.13	PASS
9058.60	6854.38	690.94	-1587.65	6912.38	6854.38	1005.97	-6533.73	96.82	4956.09	354.05	14.02	PASS
9120.00†	6854.10	692.58	-1649.03	6912.10	6854.10	1005.97	-6533.73	96.74	4894.74	354.09	13.85	PASS
9220.00†	6853.66	695.24	-1748.99	6911.66	6853.66	1005.97	-6533.73	96.60	4794.81	354.16	13.56	PASS
9320.00†	6853.22	697.91	-1848.96	6911.22	6853.22	1005.97	-6533.73	96.47	4694.89	354.23	13.28	PASS
9420.00†	6852.78	700.58	-1948.92	6910.78	6852.78	1005.97	-6533.73	96.33	4594.97	354.31	12.99	PASS
9520.00†	6852.34	703.25	-2048.88	6910.34	6852.34	1005.97	-6533.73	96.19	4495.05	354.39	12.71	PASS
9620.00†	6851.89	705.92	-2148.85	6909.89	6851.89	1005.97	-6533.73	96.06	4395.13	354.48	12.42	PASS
9720.00†	6851.45	708.59	-2248.81	6909.45	6851.45	1005.97	-6533.73	95.92	4295.22	354.58	12.14	PASS
9820.00†	6851.01	711.26	-2348.77	6909.01	6851.01	1005.97	-6533.73	95.78	4195.32	354.69	11.85	PASS
9920.00†	6850.57	713.92	-2448.74	6908.57	6850.57	1005.97	-6533.73	95.65	4095.42	354.81	11.56	PASS
10020.00†	6850.13	716.59	-2548.70	6908.13	6850.13	1005.97	-6533.73	95.51	3995.52	354.93	11.28	PASS
10120.00†	6849.68	719.26	-2648.66	6907.68	6849.68	1005.97	-6533.73	95.37	3895.63	355.06	10.99	PASS
10220.00†	6849.24	721.93	-2748.63	6907.24	6849.24	1005.97	-6533.73	95.23	3795.74	355.21	10.71	PASS
10320.00†	6848.80	724.60	-2848.59	6906.80	6848.80	1005.97	-6533.73	95.10	3695.86	355.37	10.42	PASS
10420.00†	6848.36	727.27	-2948.55	6906.36	6848.36	1005.97	-6533.73	94.96	3595.99	355.53	10.13	PASS
10520.00†	6847.92	729.94	-3048.52	6905.92	6847.92	1005.97	-6533.73	94.82	3496.12	355.72	9.85	PASS
10620.00†	6847.48	732.60	-3148.48	6905.48	6847.48	1005.97	-6533.73	94.68	3396.26	355.92	9.56	PASS
10720.00†	6847.03	735.27	-3248.44	6905.03	6847.03	1005.97	-6533.73	94.55	3296.41	356.13	9.27	PASS
10820.00†	6846.59	737.94	-3348.41	6904.59	6846.59	1005.97	-6533.73	94.41	3196.57	356.37	8.99	PASS
10920.00†	6846.15	740.61	-3448.37	6904.15	6846.15	1005.97	-6533.73	94.27	3096.74	356.63	8.70	PASS
11020.00†	6845.71	743.28	-3548.33	6903.71	6845.71	1005.97	-6533.73	94.13	2996.93	356.91	8.41	PASS
11120.00†	6845.27	745.95	-3648.30	6903.27	6845.27	1005.97	-6533.73	94.00	2897.12	357.21	8.12	PASS
11220.00†	6844.82	748.62	-3748.26	6902.82	6844.82	1005.97	-6533.73	93.86	2797.33	357.55	7.84	PASS
11320.00†	6844.38	751.29	-3848.22	6902.38	6844.38	1005.97	-6533.73	93.72	2697.55	357.92	7.55	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 27 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
11420.00†	6843.94	753.95	-3948.19	6901.94	6843.94	1005.97	-6533.73	93.58	2597.79	358.34	7.26	PASS
11520.00†	6843.50	756.62	-4048.15	6901.50	6843.50	1005.97	-6533.73	93.45	2498.05	358.79	6.97	PASS
11620.00†	6843.06	759.29	-4148.11	6901.06	6843.06	1005.97	-6533.73	93.31	2398.33	359.30	6.69	PASS
11720.00†	6842.61	761.96	-4248.08	6900.61	6842.61	1005.97	-6533.73	93.17	2298.64	359.87	6.40	PASS
11820.00†	6842.17	764.63	-4348.04	6900.17	6842.17	1005.97	-6533.73	93.03	2198.97	360.51	6.11	PASS
11920.00†	6841.73	767.30	-4448.00	6899.73	6841.73	1005.97	-6533.73	92.89	2099.33	361.23	5.82	PASS
12020.00†	6841.29	769.97	-4547.97	6899.29	6841.29	1005.97	-6533.73	92.75	1999.73	362.05	5.53	PASS
12120.00†	6840.85	772.63	-4647.93	6898.85	6840.85	1005.97	-6533.73	92.62	1900.17	362.98	5.24	PASS
12220.00†	6840.40	775.30	-4747.89	6898.40	6840.40	1005.97	-6533.73	92.48	1800.67	364.05	4.95	PASS
12320.00†	6839.96	777.97	-4847.86	6897.96	6839.96	1005.97	-6533.73	92.34	1701.21	365.28	4.66	PASS
12420.00†	6839.52	780.64	-4947.82	6897.52	6839.52	1005.97	-6533.73	92.20	1601.83	366.71	4.37	PASS
12520.00†	6839.08	783.31	-5047.78	6897.08	6839.08	1005.97	-6533.73	92.06	1502.53	368.39	4.08	PASS
12620.00†	6838.64	785.98	-5147.75	6896.64	6838.64	1005.97	-6533.73	91.93	1403.33	370.36	3.79	PASS
12720.00†	6838.19	788.65	-5247.71	6896.19	6838.19	1005.97	-6533.73	91.79	1304.25	372.72	3.50	PASS
12820.00†	6837.75	791.32	-5347.68	6895.75	6837.75	1005.97	-6533.73	91.65	1205.32	375.56	3.21	PASS
12920.00†	6837.31	793.98	-5447.64	6895.31	6837.31	1005.97	-6533.73	91.51	1106.58	379.01	2.92	PASS
13020.00†	6836.87	796.65	-5547.60	6894.87	6836.87	1005.97	-6533.73	91.37	1008.09	383.28	2.63	PASS
13120.00†	6836.43	799.32	-5647.57	6894.43	6836.43	1005.97	-6533.73	91.23	909.94	388.63	2.34	PASS
13220.00†	6835.98	801.99	-5747.53	6893.98	6835.98	1005.97	-6533.73	91.10	812.23	395.46	2.06	PASS
13320.00†	6835.54	804.66	-5847.49	6893.54	6835.54	1005.97	-6533.73	90.96	715.15	404.37	1.77	PASS
13420.00†	6835.10	807.33	-5947.46	6893.10	6835.10	1005.97	-6533.73	90.82	619.01	416.28	1.49	PASS
13520.00†	6834.66	810.00	-6047.42	6892.66	6834.66	1005.97	-6533.73	90.68	524.31	432.71	1.21	PASS
13620.00†	6834.22	812.66	-6147.38	6892.22	6834.22	1005.97	-6533.73	90.54	432.00	456.20	0.95	FAIL
13720.00†	6833.77	815.33	-6247.35	6891.77	6833.77	1005.97	-6533.73	90.40	344.03	490.98	0.70	FAIL
13820.00†	6833.33	818.00	-6347.31	6891.33	6833.33	1005.97	-6533.73	90.27	264.73	542.95	0.49	FAIL
13920.00†	6832.89	820.67	-6447.27	6890.89	6832.89	1005.97	-6533.73	90.13	204.47	610.23	0.33	FAIL
14011.50†	6832.49	823.11	-6538.74	6891.01	6833.01	1005.97	-6533.73	90.16	182.92	645.72	0.28	FAIL
14011.68†	6832.49	823.12	-6538.92	6890.49	6832.49	1005.97	-6533.73	90.00	182.92	645.71	0.28	FAIL
14020.00†	6832.45	823.34	-6547.24	6890.45	6832.45	1005.97	-6533.73	89.99	183.13	645.42	0.28	FAIL
14120.00†	6832.01	826.01	-6647.20	6890.01	6832.01	1005.97	-6533.73	89.85	212.75	600.36	0.35	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 28 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT N 02-10 AWP 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
14220.00†	6831.57	828.68	-6747.16	6889.57	6831.57	1005.97	-6533.73	89.71	277.47	535.02	0.52	FAIL
14320.00†	6831.12	831.34	-6847.13	6889.12	6831.12	1005.97	-6533.73	89.57	358.77	486.73	0.74	FAIL
14420.00†	6830.68	834.01	-6947.09	6888.68	6830.68	1005.97	-6533.73	89.43	447.70	454.45	0.99	FAIL
14520.00†	6830.24	836.68	-7047.05	6888.24	6830.24	1005.97	-6533.73	89.30	540.52	432.51	1.25	PASS
14620.00†	6829.80	839.35	-7147.02	6887.80	6829.80	1005.97	-6533.73	89.16	635.52	417.05	1.52	PASS
14720.00†	6829.36	842.02	-7246.98	6887.36	6829.36	1005.97	-6533.73	89.02	731.85	405.78	1.80	PASS
14820.00†	6828.91	844.69	-7346.94	6886.91	6828.91	1005.97	-6533.73	88.88	829.06	397.31	2.09	PASS
14920.00†	6828.47	847.36	-7446.91	6886.47	6828.47	1005.97	-6533.73	88.74	926.85	390.80	2.37	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

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

OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. AUFRECHT N 02-10 AWP 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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 29 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	1132.43	-8994.28	-82.82	9065.29	50.19	184.14	PASS
120.00†	120.00	0.00	0.00	111.00	120.00	1132.43	-8994.28	-82.82	9065.29	50.48	183.06	PASS
220.00†	220.00	0.00	0.00	211.00	220.00	1132.43	-8994.28	-82.82	9065.29	51.50	179.37	PASS
320.00†	320.00	0.00	0.00	311.00	320.00	1132.43	-8994.28	-82.82	9065.29	53.23	173.44	PASS
350.00	350.00	0.00	0.00	341.00	350.00	1132.43	-8994.28	-82.82	9065.29	53.90	171.22	PASS
420.00†	419.99	0.58	0.63	410.99	419.99	1132.43	-8994.28	-129.99	9065.84	55.54	166.10	PASS
520.00†	519.90	3.43	3.70	510.90	519.90	1132.43	-8994.28	-129.97	9068.53	58.33	158.07	PASS
620.00†	619.60	8.64	9.32	610.60	619.60	1132.43	-8994.28	-129.93	9073.46	61.48	149.92	PASS
720.00†	718.97	16.22	17.50	709.97	718.97	1132.43	-8994.28	-129.88	9080.64	64.89	142.02	PASS
820.00†	817.89	26.15	28.21	808.89	817.89	1132.43	-8994.28	-129.80	9090.06	68.51	134.57	PASS
890.85	887.64	34.60	37.33	878.64	887.64	1132.43	-8994.28	-129.74	9098.09	71.16	129.59	PASS
920.00†	916.27	38.32	41.34	907.27	916.27	1132.43	-8994.28	-129.76	9101.62	72.26	127.65	PASS
1020.00†	1014.50	51.08	55.11	1005.50	1014.50	1132.43	-8994.28	-129.85	9113.76	76.12	121.25	PASS
1120.00†	1112.72	63.84	68.87	1103.72	1112.72	1132.43	-8994.28	-129.94	9125.93	80.09	115.32	PASS
1220.00†	1210.94	76.60	82.63	1201.94	1210.94	1132.43	-8994.28	-130.03	9138.11	84.15	109.84	PASS
1320.00†	1309.17	89.36	96.40	1300.17	1309.17	1132.43	-8994.28	-130.12	9150.32	88.28	104.79	PASS
1420.00†	1407.39	102.11	110.16	1398.39	1407.39	1132.43	-8994.28	-130.21	9162.55	92.47	100.12	PASS
1520.00†	1505.61	114.87	123.93	1496.61	1505.61	1132.43	-8994.28	-130.30	9174.80	96.71	95.81	PASS
1620.00†	1603.84	127.63	137.69	1594.84	1603.84	1132.43	-8994.28	-130.39	9187.08	101.00	91.83	PASS
1720.00†	1702.06	140.39	151.45	1693.06	1702.06	1132.43	-8994.28	-130.47	9199.38	105.33	88.13	PASS
1820.00†	1800.28	153.15	165.22	1791.28	1800.28	1132.43	-8994.28	-130.56	9211.69	109.36	84.77	PASS
1920.00†	1898.51	165.91	178.98	1889.51	1898.51	1132.43	-8994.28	-130.65	9224.04	113.60	81.70	PASS
2020.00†	1996.73	178.66	192.74	1987.73	1996.73	1132.43	-8994.28	-130.74	9236.40	117.87	78.83	PASS
2120.00†	2094.95	191.42	206.51	2085.95	2094.95	1132.43	-8994.28	-130.82	9248.78	122.17	76.14	PASS
2220.00†	2193.18	204.18	220.27	2184.18	2193.18	1132.43	-8994.28	-130.91	9261.19	126.49	73.62	PASS
2320.00†	2291.40	216.94	234.04	2282.40	2291.40	1132.43	-8994.28	-131.00	9273.61	130.83	71.26	PASS
2420.00†	2389.62	229.70	247.80	2380.62	2389.62	1132.43	-8994.28	-131.08	9286.06	135.20	69.04	PASS
2520.00†	2487.85	242.45	261.56	2478.85	2487.85	1132.43	-8994.28	-131.17	9298.53	139.59	66.95	PASS
2620.00†	2586.07	255.21	275.33	2577.07	2586.07	1132.43	-8994.28	-131.26	9311.02	144.00	64.97	PASS
2720.00†	2684.29	267.97	289.09	2675.29	2684.29	1132.43	-8994.28	-131.34	9323.53	148.43	63.11	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 30 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2773.51	2782.51	1132.43	-8994.28	-131.43	9336.06	152.88	61.35	PASS
2920.00†	2880.74	293.49	316.62	2871.74	2880.74	1132.43	-8994.28	-131.51	9348.61	157.35	59.68	PASS
3020.00†	2978.96	306.25	330.38	2969.96	2978.96	1132.43	-8994.28	-131.60	9361.19	161.83	58.10	PASS
3120.00†	3077.18	319.00	344.15	3068.18	3077.18	1132.43	-8994.28	-131.68	9373.78	166.33	56.59	PASS
3220.00†	3175.41	331.76	357.91	3166.41	3175.41	1132.43	-8994.28	-131.77	9386.40	170.84	55.17	PASS
3320.00†	3273.63	344.52	371.67	3264.63	3273.63	1132.43	-8994.28	-131.85	9399.03	175.37	53.81	PASS
3420.00†	3371.85	357.28	385.44	3362.85	3371.85	1132.43	-8994.28	-131.94	9411.69	179.91	52.52	PASS
3520.00†	3470.08	370.04	399.20	3461.08	3470.08	1132.43	-8994.28	-132.02	9424.37	184.47	51.28	PASS
3620.00†	3568.30	382.80	412.96	3559.30	3568.30	1132.43	-8994.28	-132.10	9437.06	189.04	50.11	PASS
3720.00†	3666.52	395.55	426.73	3657.52	3666.52	1132.43	-8994.28	-132.19	9449.78	193.62	48.98	PASS
3820.00†	3764.75	408.31	440.49	3755.75	3764.75	1132.43	-8994.28	-132.27	9462.52	198.22	47.91	PASS
3920.00†	3862.97	421.07	454.26	3853.97	3862.97	1132.43	-8994.28	-132.35	9475.27	202.82	46.88	PASS
4020.00†	3961.19	433.83	468.02	3952.19	3961.19	1132.43	-8994.28	-132.44	9488.05	207.44	45.89	PASS
4120.00†	4059.42	446.59	481.78	4050.42	4059.42	1132.43	-8994.28	-132.52	9500.85	212.07	44.95	PASS
4220.00†	4157.64	459.34	495.55	4148.64	4157.64	1132.43	-8994.28	-132.60	9513.66	216.71	44.04	PASS
4320.00†	4255.86	472.10	509.31	4246.86	4255.86	1132.43	-8994.28	-132.68	9526.50	221.36	43.17	PASS
4420.00†	4354.09	484.86	523.08	4345.09	4354.09	1132.43	-8994.28	-132.77	9539.36	226.02	42.34	PASS
4520.00†	4452.31	497.62	536.84	4443.31	4452.31	1132.43	-8994.28	-132.85	9552.23	230.69	41.53	PASS
4620.00†	4550.53	510.38	550.60	4541.53	4550.53	1132.43	-8994.28	-132.93	9565.13	235.36	40.76	PASS
4720.00†	4648.75	523.14	564.37	4639.75	4648.75	1132.43	-8994.28	-133.01	9578.04	240.05	40.02	PASS
4820.00†	4746.98	535.89	578.13	4737.98	4746.98	1132.43	-8994.28	-133.09	9590.98	244.75	39.30	PASS
4920.00†	4845.20	548.65	591.89	4836.20	4845.20	1132.43	-8994.28	-133.17	9603.93	249.45	38.61	PASS
5020.00†	4943.42	561.41	605.66	4934.42	4943.42	1132.43	-8994.28	-133.25	9616.90	254.16	37.94	PASS
5120.00†	5041.65	574.17	619.42	5032.65	5041.65	1132.43	-8994.28	-133.34	9629.89	258.88	37.30	PASS
5220.00†	5139.87	586.93	633.19	5130.87	5139.87	1132.43	-8994.28	-133.42	9642.90	263.61	36.68	PASS
5320.00†	5238.09	599.68	646.95	5229.09	5238.09	1132.43	-8994.28	-133.50	9655.93	268.35	36.08	PASS
5420.00†	5336.32	612.44	660.71	5327.32	5336.32	1132.43	-8994.28	-133.57	9668.98	273.09	35.50	PASS
5520.00†	5434.54	625.20	674.48	5425.54	5434.54	1132.43	-8994.28	-133.66	9682.05	277.84	34.93	PASS
5620.00†	5532.76	637.96	688.24	5523.76	5532.76	1132.43	-8994.28	-133.73	9695.13	282.59	34.39	PASS
5720.00†	5630.99	650.72	702.00	5621.99	5630.99	1132.43	-8994.28	-133.81	9708.24	287.35	33.87	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 31 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5720.21	5729.21	1132.43	-8994.28	-133.89	9721.36	292.12	33.36	PASS
5920.00†	5827.43	676.23	729.53	5818.43	5827.43	1132.43	-8994.28	-133.97	9734.50	296.89	32.86	PASS
6020.00†	5925.66	688.99	743.30	5916.66	5925.66	1132.43	-8994.28	-134.05	9747.66	301.67	32.39	PASS
6120.00†	6023.88	701.75	757.06	6014.88	6023.88	1132.43	-8994.28	-134.13	9760.84	306.45	31.92	PASS
6220.00†	6122.10	714.51	770.82	6113.10	6122.10	1132.43	-8994.28	-134.21	9774.04	311.24	31.47	PASS
6237.28	6139.07	716.71	773.20	6130.07	6139.07	1132.43	-8994.28	-134.22	9776.32	312.07	31.40	PASS
6320.00†	6220.86	727.06	779.25	6211.86	6220.86	1132.43	-8994.28	-91.51	9781.93	316.09	31.01	PASS
6420.00†	6319.82	738.83	772.25	6310.82	6319.82	1132.43	-8994.28	-35.48	9774.45	321.26	30.49	PASS
6520.00†	6416.56	749.52	749.77	6407.56	6416.56	1132.43	-8994.28	-17.10	9751.56	326.68	29.91	PASS
6620.00†	6508.72	758.88	712.36	6499.72	6508.72	1132.43	-8994.28	-9.77	9713.82	331.74	29.34	PASS
6720.00†	6594.01	766.68	660.94	6585.01	6594.01	1132.43	-8994.28	-5.73	9662.14	336.32	28.79	PASS
6820.00†	6670.34	772.71	596.78	6661.34	6670.34	1132.43	-8994.28	-2.83	9597.80	340.34	28.26	PASS
6920.00†	6735.84	776.83	521.46	6726.84	6735.84	1132.43	-8994.28	-0.16	9522.38	343.71	27.76	PASS
7020.00†	6788.88	778.95	436.83	6779.88	6788.88	1132.43	-8994.28	3.11	9437.73	346.37	27.30	PASS
7120.00†	6828.16	779.00	344.98	6819.16	6828.16	1132.43	-8994.28	8.56	9345.94	348.30	26.89	PASS
7220.00†	6852.71	776.99	248.17	6843.71	6852.71	1132.43	-8994.28	22.22	9249.28	349.47	26.52	PASS
7320.00†	6861.94	772.97	148.78	6852.94	6861.94	1132.43	-8994.28	80.79	9150.12	349.92	26.20	PASS
7332.14	6862.00	772.35	136.65	6853.00	6862.00	1132.43	-8994.28	92.75	9138.03	349.92	26.17	PASS
7420.00†	6861.61	767.75	48.92	6852.61	6861.61	1132.43	-8994.28	92.72	9050.55	349.92	25.92	PASS
7520.00†	6861.17	762.51	-50.94	6852.17	6861.17	1132.43	-8994.28	92.69	8950.98	349.92	25.63	PASS
7620.00†	6860.73	757.28	-150.80	6851.73	6860.73	1132.43	-8994.28	92.66	8851.43	349.93	25.34	PASS
7720.00†	6860.29	752.05	-250.67	6851.29	6860.29	1132.43	-8994.28	92.63	8751.88	349.94	25.06	PASS
7820.00†	6859.85	746.81	-350.53	6850.85	6859.85	1132.43	-8994.28	92.60	8652.35	349.96	24.77	PASS
7920.00†	6859.40	741.58	-450.39	6850.40	6859.40	1132.43	-8994.28	92.57	8552.82	350.00	24.48	PASS
8020.00†	6858.96	736.35	-550.25	6849.96	6858.96	1132.43	-8994.28	92.54	8453.31	350.04	24.20	PASS
8120.00†	6858.52	731.11	-650.11	6849.52	6858.52	1132.43	-8994.28	92.51	8353.81	350.08	23.91	PASS
8220.00†	6858.08	725.88	-749.98	6849.08	6858.08	1132.43	-8994.28	92.48	8254.32	350.14	23.62	PASS
8320.00†	6857.64	720.65	-849.84	6848.64	6857.64	1132.43	-8994.28	92.45	8154.84	350.21	23.33	PASS
8420.00†	6857.20	715.41	-949.70	6848.20	6857.20	1132.43	-8994.28	92.42	8055.38	350.29	23.04	PASS
8520.00†	6856.75	710.18	-1049.56	6847.75	6856.75	1132.43	-8994.28	92.39	7955.93	350.38	22.75	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 32 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	6856.31	704.95	-1149.42	6847.31	6856.31	1132.43	-8994.28	92.36	7856.49	350.48	22.46	PASS
8720.00†	6855.87	699.71	-1249.29	6846.87	6855.87	1132.43	-8994.28	92.33	7757.07	350.59	22.17	PASS
8820.00†	6855.43	694.48	-1349.15	6846.43	6855.43	1132.43	-8994.28	92.30	7657.66	350.72	21.88	PASS
8832.14	6855.38	693.84	-1361.28	6846.38	6855.38	1132.43	-8994.28	92.30	7645.59	350.73	21.84	PASS
8920.00†	6854.99	690.59	-1449.07	6845.99	6854.99	1132.43	-8994.28	93.15	7558.14	350.84	21.58	PASS
9020.00†	6854.55	690.17	-1549.06	6845.55	6854.55	1132.43	-8994.28	95.47	7458.34	350.93	21.29	PASS
9058.60	6854.38	690.94	-1587.65	6845.38	6854.38	1132.43	-8994.28	97.66	7419.77	350.95	21.18	PASS
9120.00†	6854.10	692.58	-1649.03	6845.10	6854.10	1132.43	-8994.28	97.60	7358.41	350.98	21.01	PASS
9220.00†	6853.66	695.24	-1748.99	6844.66	6853.66	1132.43	-8994.28	97.50	7258.46	351.03	20.72	PASS
9320.00†	6853.22	697.91	-1848.96	6844.22	6853.22	1132.43	-8994.28	97.39	7158.52	351.09	20.43	PASS
9420.00†	6852.78	700.58	-1948.92	6843.78	6852.78	1132.43	-8994.28	97.29	7058.58	351.15	20.14	PASS
9520.00†	6852.34	703.25	-2048.88	6843.34	6852.34	1132.43	-8994.28	97.19	6958.64	351.21	19.85	PASS
9620.00†	6851.89	705.92	-2148.85	6842.89	6851.89	1132.43	-8994.28	97.09	6858.70	351.27	19.56	PASS
9720.00†	6851.45	708.59	-2248.81	6842.45	6851.45	1132.43	-8994.28	96.98	6758.77	351.35	19.27	PASS
9820.00†	6851.01	711.26	-2348.77	6842.01	6851.01	1132.43	-8994.28	96.88	6658.84	351.42	18.98	PASS
9920.00†	6850.57	713.92	-2448.74	6841.57	6850.57	1132.43	-8994.28	96.78	6558.91	351.50	18.70	PASS
10020.00†	6850.13	716.59	-2548.70	6841.13	6850.13	1132.43	-8994.28	96.68	6458.98	351.58	18.41	PASS
10120.00†	6849.68	719.26	-2648.66	6840.68	6849.68	1132.43	-8994.28	96.57	6359.05	351.67	18.12	PASS
10220.00†	6849.24	721.93	-2748.63	6840.24	6849.24	1132.43	-8994.28	96.47	6259.13	351.77	17.83	PASS
10320.00†	6848.80	724.60	-2848.59	6839.80	6848.80	1132.43	-8994.28	96.37	6159.20	351.86	17.54	PASS
10420.00†	6848.36	727.27	-2948.55	6839.36	6848.36	1132.43	-8994.28	96.27	6059.28	351.97	17.25	PASS
10520.00†	6847.92	729.94	-3048.52	6838.92	6847.92	1132.43	-8994.28	96.16	5959.37	352.08	16.96	PASS
10620.00†	6847.48	732.60	-3148.48	6838.48	6847.48	1132.43	-8994.28	96.06	5859.45	352.20	16.67	PASS
10720.00†	6847.03	735.27	-3248.44	6838.03	6847.03	1132.43	-8994.28	95.96	5759.54	352.32	16.38	PASS
10820.00†	6846.59	737.94	-3348.41	6837.59	6846.59	1132.43	-8994.28	95.86	5659.63	352.45	16.09	PASS
10920.00†	6846.15	740.61	-3448.37	6837.15	6846.15	1132.43	-8994.28	95.75	5559.73	352.58	15.80	PASS
11020.00†	6845.71	743.28	-3548.33	6836.71	6845.71	1132.43	-8994.28	95.65	5459.83	352.73	15.51	PASS
11120.00†	6845.27	745.95	-3648.30	6836.27	6845.27	1132.43	-8994.28	95.55	5359.93	352.88	15.22	PASS
11220.00†	6844.82	748.62	-3748.26	6835.82	6844.82	1132.43	-8994.28	95.44	5260.04	353.04	14.93	PASS
11320.00†	6844.38	751.29	-3848.22	6835.38	6844.38	1132.43	-8994.28	95.34	5160.15	353.21	14.64	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 33 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
11420.00†	6843.94	753.95	-3948.19	6834.94	6843.94	1132.43	-8994.28	95.24	5060.26	353.39	14.35	PASS
11520.00†	6843.50	756.62	-4048.15	6834.50	6843.50	1132.43	-8994.28	95.14	4960.38	353.58	14.06	PASS
11620.00†	6843.06	759.29	-4148.11	6834.06	6843.06	1132.43	-8994.28	95.03	4860.51	353.78	13.76	PASS
11720.00†	6842.61	761.96	-4248.08	6833.61	6842.61	1132.43	-8994.28	94.93	4760.64	353.99	13.47	PASS
11820.00†	6842.17	764.63	-4348.04	6833.17	6842.17	1132.43	-8994.28	94.83	4660.77	354.22	13.18	PASS
11920.00†	6841.73	767.30	-4448.00	6832.73	6841.73	1132.43	-8994.28	94.72	4560.91	354.46	12.89	PASS
12020.00†	6841.29	769.97	-4547.97	6832.29	6841.29	1132.43	-8994.28	94.62	4461.06	354.71	12.60	PASS
12120.00†	6840.85	772.63	-4647.93	6831.85	6840.85	1132.43	-8994.28	94.52	4361.21	354.98	12.31	PASS
12220.00†	6840.40	775.30	-4747.89	6831.40	6840.40	1132.43	-8994.28	94.41	4261.37	355.27	12.02	PASS
12320.00†	6839.96	777.97	-4847.86	6830.96	6839.96	1132.43	-8994.28	94.31	4161.54	355.58	11.72	PASS
12420.00†	6839.52	780.64	-4947.82	6830.52	6839.52	1132.43	-8994.28	94.21	4061.72	355.91	11.43	PASS
12520.00†	6839.08	783.31	-5047.78	6830.08	6839.08	1132.43	-8994.28	94.10	3961.90	356.25	11.14	PASS
12620.00†	6838.64	785.98	-5147.75	6829.64	6838.64	1132.43	-8994.28	94.00	3862.10	356.63	10.85	PASS
12720.00†	6838.19	788.65	-5247.71	6829.19	6838.19	1132.43	-8994.28	93.90	3762.30	357.03	10.56	PASS
12820.00†	6837.75	791.32	-5347.68	6828.75	6837.75	1132.43	-8994.28	93.79	3662.52	357.46	10.26	PASS
12920.00†	6837.31	793.98	-5447.64	6828.31	6837.31	1132.43	-8994.28	93.69	3562.75	357.92	9.97	PASS
13020.00†	6836.87	796.65	-5547.60	6827.87	6836.87	1132.43	-8994.28	93.59	3462.99	358.42	9.68	PASS
13120.00†	6836.43	799.32	-5647.57	6827.43	6836.43	1132.43	-8994.28	93.48	3363.25	358.95	9.39	PASS
13220.00†	6835.98	801.99	-5747.53	6826.98	6835.98	1132.43	-8994.28	93.38	3263.52	359.53	9.09	PASS
13320.00†	6835.54	804.66	-5847.49	6826.54	6835.54	1132.43	-8994.28	93.27	3163.81	360.16	8.80	PASS
13420.00†	6835.10	807.33	-5947.46	6826.10	6835.10	1132.43	-8994.28	93.17	3064.12	360.83	8.51	PASS
13520.00†	6834.66	810.00	-6047.42	6825.66	6834.66	1132.43	-8994.28	93.07	2964.44	361.57	8.21	PASS
13620.00†	6834.22	812.66	-6147.38	6825.22	6834.22	1132.43	-8994.28	92.96	2864.80	362.38	7.92	PASS
13720.00†	6833.77	815.33	-6247.35	6824.77	6833.77	1132.43	-8994.28	92.86	2765.17	363.26	7.63	PASS
13820.00†	6833.33	818.00	-6347.31	6824.33	6833.33	1132.43	-8994.28	92.76	2665.58	364.22	7.33	PASS
13920.00†	6832.89	820.67	-6447.27	6823.89	6832.89	1132.43	-8994.28	92.65	2566.01	365.28	7.04	PASS
14020.00†	6832.45	823.34	-6547.24	6823.45	6832.45	1132.43	-8994.28	92.55	2466.48	366.45	6.74	PASS
14120.00†	6832.01	826.01	-6647.20	6823.01	6832.01	1132.43	-8994.28	92.45	2366.99	367.75	6.45	PASS
14220.00†	6831.57	828.68	-6747.16	6822.57	6831.57	1132.43	-8994.28	92.34	2267.55	369.18	6.15	PASS
14320.00†	6831.12	831.34	-6847.13	6822.12	6831.12	1132.43	-8994.28	92.24	2168.16	370.78	5.86	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 34 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
14420.00†	6830.68	834.01	-6947.09	6821.68	6830.68	1132.43	-8994.28	92.13	2068.82	372.57	5.56	PASS
14520.00†	6830.24	836.68	-7047.05	6821.24	6830.24	1132.43	-8994.28	92.03	1969.55	374.57	5.27	PASS
14620.00†	6829.80	839.35	-7147.02	6820.80	6829.80	1132.43	-8994.28	91.93	1870.36	376.84	4.97	PASS
14720.00†	6829.36	842.02	-7246.98	6820.36	6829.36	1132.43	-8994.28	91.82	1771.27	379.41	4.68	PASS
14820.00†	6828.91	844.69	-7346.94	6819.91	6828.91	1132.43	-8994.28	91.72	1672.27	382.33	4.38	PASS
14920.00†	6828.47	847.36	-7446.91	6819.47	6828.47	1132.43	-8994.28	91.62	1573.41	385.69	4.09	PASS
15020.00†	6828.03	850.03	-7546.87	6819.03	6828.03	1132.43	-8994.28	91.51	1474.70	389.57	3.79	PASS
15120.00†	6827.59	852.69	-7646.83	6818.59	6827.59	1132.43	-8994.28	91.41	1376.17	394.08	3.50	PASS
15220.00†	6827.15	855.36	-7746.80	6818.15	6827.15	1132.43	-8994.28	91.30	1277.88	399.38	3.20	PASS
15320.00†	6826.70	858.03	-7846.76	6817.70	6826.70	1132.43	-8994.28	91.20	1179.87	405.65	2.91	PASS
15420.00†	6826.26	860.70	-7946.72	6817.26	6826.26	1132.43	-8994.28	91.10	1082.22	413.15	2.62	PASS
15520.00†	6825.82	863.37	-8046.69	6816.82	6825.82	1132.43	-8994.28	90.99	985.05	422.24	2.34	PASS
15620.00†	6825.38	866.04	-8146.65	6816.38	6825.38	1132.43	-8994.28	90.89	888.50	433.41	2.05	PASS
15720.00†	6824.94	868.71	-8246.61	6815.94	6824.94	1132.43	-8994.28	90.78	792.81	447.36	1.77	PASS
15820.00†	6824.49	871.37	-8346.58	6815.49	6824.49	1132.43	-8994.28	90.68	698.33	465.12	1.50	PASS
15920.00†	6824.05	874.04	-8446.54	6815.05	6824.05	1132.43	-8994.28	90.58	605.62	488.19	1.24	PASS
16020.00†	6823.61	876.71	-8546.50	6814.61	6823.61	1132.43	-8994.28	90.47	515.65	518.84	0.99	FAIL
16120.00†	6823.17	879.38	-8646.47	6814.17	6823.17	1132.43	-8994.28	90.37	430.12	560.25	0.77	FAIL
16220.00†	6822.73	882.05	-8746.43	6813.73	6822.73	1132.43	-8994.28	90.26	352.30	615.85	0.57	FAIL
16320.00†	6822.28	884.72	-8846.39	6813.28	6822.28	1132.43	-8994.28	90.16	288.50	684.41	0.42	FAIL
16420.00†	6821.84	887.39	-8946.36	6812.84	6821.84	1132.43	-8994.28	90.06	249.68	744.10	0.33	FAIL
16474.66†	6821.60	888.85	-9001.00	6812.85	6821.85	1132.43	-8994.28	90.06	243.68	755.77	0.32	FAIL
16475.34†	6821.60	888.86	-9001.68	6812.60	6821.60	1132.43	-8994.28	90.00	243.68	755.77	0.32	FAIL
16520.00†	6821.40	890.06	-9046.32	6812.40	6821.40	1132.43	-8994.28	89.95	247.90	749.00	0.33	FAIL
16620.00†	6820.96	892.72	-9146.28	6811.96	6820.96	1132.43	-8994.28	89.85	283.84	695.18	0.41	FAIL
16720.00†	6820.52	895.39	-9246.25	6811.52	6820.52	1132.43	-8994.28	89.75	345.94	627.78	0.55	FAIL
16820.00†	6820.07	898.06	-9346.21	6811.07	6820.07	1132.43	-8994.28	89.64	422.83	571.75	0.74	FAIL
16920.00†	6819.63	900.73	-9446.17	6810.63	6819.63	1132.43	-8994.28	89.54	507.83	529.71	0.96	FAIL
17020.00†	6819.19	903.40	-9546.14	6810.19	6819.19	1132.43	-8994.28	89.43	597.50	498.54	1.20	PASS
17063.18	6819.00	904.55	-9589.31	6810.00	6819.00	1132.43	-8994.28	89.39	637.17	486.90	1.31	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 35 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 36 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
20.00	20.00	0.00	0.00	43.00	20.00	1136.33	-7671.84	-81.58	7755.54	50.26	157.32	PASS
120.00†	120.00	0.00	0.00	143.00	120.00	1136.33	-7671.84	-81.58	7755.54	50.78	155.67	PASS
220.00†	220.00	0.00	0.00	243.00	220.00	1136.33	-7671.84	-81.58	7755.54	52.03	151.86	PASS
320.00†	320.00	0.00	0.00	343.00	320.00	1136.33	-7671.84	-81.58	7755.54	53.94	146.37	PASS
350.00	350.00	0.00	0.00	373.00	350.00	1136.33	-7671.84	-81.58	7755.54	54.62	144.52	PASS
420.00†	419.99	0.58	0.63	442.99	419.99	1136.33	-7671.84	-128.74	7756.07	56.41	139.87	PASS
520.00†	519.90	3.43	3.70	542.90	519.90	1136.33	-7671.84	-128.73	7758.69	59.31	132.96	PASS
620.00†	619.60	8.64	9.32	642.60	619.60	1136.33	-7671.84	-128.70	7763.50	62.55	126.04	PASS
720.00†	718.97	16.22	17.50	741.97	718.97	1136.33	-7671.84	-128.65	7770.49	66.03	119.40	PASS
820.00†	817.89	26.15	28.21	840.89	817.89	1136.33	-7671.84	-128.59	7779.67	69.70	113.17	PASS
890.85	887.64	34.60	37.33	910.64	887.64	1136.33	-7671.84	-128.54	7787.50	72.37	109.05	PASS
920.00†	916.27	38.32	41.34	939.27	916.27	1136.33	-7671.84	-128.57	7790.94	73.49	107.41	PASS
1020.00†	1014.50	51.08	55.11	1037.50	1014.50	1136.33	-7671.84	-128.67	7802.78	77.38	102.09	PASS
1120.00†	1112.72	63.84	68.87	1135.72	1112.72	1136.33	-7671.84	-128.78	7814.65	81.38	97.17	PASS
1220.00†	1210.94	76.60	82.63	1233.94	1210.94	1136.33	-7671.84	-128.89	7826.55	85.46	92.62	PASS
1320.00†	1309.17	89.36	96.40	1332.17	1309.17	1136.33	-7671.84	-128.99	7838.47	89.61	88.42	PASS
1420.00†	1407.39	102.11	110.16	1430.39	1407.39	1136.33	-7671.84	-129.10	7850.42	93.81	84.54	PASS
1520.00†	1505.61	114.87	123.93	1528.61	1505.61	1136.33	-7671.84	-129.20	7862.40	98.07	80.96	PASS
1620.00†	1603.84	127.63	137.69	1626.84	1603.84	1136.33	-7671.84	-129.31	7874.40	102.37	77.64	PASS
1720.00†	1702.06	140.39	151.45	1725.06	1702.06	1136.33	-7671.84	-129.41	7886.43	106.71	74.57	PASS
1820.00†	1800.28	153.15	165.22	1823.28	1800.28	1136.33	-7671.84	-129.52	7898.49	110.75	71.77	PASS
1920.00†	1898.51	165.91	178.98	1921.51	1898.51	1136.33	-7671.84	-129.62	7910.57	114.99	69.21	PASS
2020.00†	1996.73	178.66	192.74	2019.73	1996.73	1136.33	-7671.84	-129.72	7922.68	119.26	66.82	PASS
2120.00†	2094.95	191.42	206.51	2117.95	2094.95	1136.33	-7671.84	-129.83	7934.81	123.56	64.58	PASS
2220.00†	2193.18	204.18	220.27	2216.18	2193.18	1136.33	-7671.84	-129.93	7946.97	127.89	62.48	PASS
2320.00†	2291.40	216.94	234.04	2314.40	2291.40	1136.33	-7671.84	-130.03	7959.15	132.24	60.51	PASS
2420.00†	2389.62	229.70	247.80	2412.62	2389.62	1136.33	-7671.84	-130.13	7971.36	136.61	58.65	PASS
2520.00†	2487.85	242.45	261.56	2510.85	2487.85	1136.33	-7671.84	-130.24	7983.60	141.01	56.90	PASS
2620.00†	2586.07	255.21	275.33	2609.07	2586.07	1136.33	-7671.84	-130.34	7995.86	145.42	55.25	PASS
2720.00†	2684.29	267.97	289.09	2707.29	2684.29	1136.33	-7671.84	-130.44	8008.15	149.85	53.69	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 37 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2805.51	2782.51	1136.33	-7671.84	-130.54	8020.46	154.30	52.21	PASS
2920.00†	2880.74	293.49	316.62	2903.74	2880.74	1136.33	-7671.84	-130.64	8032.80	158.77	50.82	PASS
3020.00†	2978.96	306.25	330.38	3001.96	2978.96	1136.33	-7671.84	-130.74	8045.16	163.25	49.49	PASS
3120.00†	3077.18	319.00	344.15	3100.18	3077.18	1136.33	-7671.84	-130.84	8057.54	167.75	48.23	PASS
3220.00†	3175.41	331.76	357.91	3198.41	3175.41	1136.33	-7671.84	-130.94	8069.96	172.27	47.03	PASS
3320.00†	3273.63	344.52	371.67	3296.63	3273.63	1136.33	-7671.84	-131.04	8082.39	176.80	45.90	PASS
3420.00†	3371.85	357.28	385.44	3394.85	3371.85	1136.33	-7671.84	-131.14	8094.85	181.34	44.81	PASS
3520.00†	3470.08	370.04	399.20	3493.08	3470.08	1136.33	-7671.84	-131.24	8107.34	185.90	43.77	PASS
3620.00†	3568.30	382.80	412.96	3591.30	3568.30	1136.33	-7671.84	-131.34	8119.84	190.47	42.79	PASS
3720.00†	3666.52	395.55	426.73	3689.52	3666.52	1136.33	-7671.84	-131.44	8132.38	195.05	41.84	PASS
3820.00†	3764.75	408.31	440.49	3787.75	3764.75	1136.33	-7671.84	-131.53	8144.93	199.65	40.94	PASS
3920.00†	3862.97	421.07	454.26	3885.97	3862.97	1136.33	-7671.84	-131.63	8157.51	204.26	40.07	PASS
4020.00†	3961.19	433.83	468.02	3984.19	3961.19	1136.33	-7671.84	-131.73	8170.12	208.87	39.24	PASS
4120.00†	4059.42	446.59	481.78	4082.42	4059.42	1136.33	-7671.84	-131.82	8182.74	213.50	38.45	PASS
4220.00†	4157.64	459.34	495.55	4180.64	4157.64	1136.33	-7671.84	-131.92	8195.39	218.14	37.69	PASS
4320.00†	4255.86	472.10	509.31	4278.86	4255.86	1136.33	-7671.84	-132.02	8208.07	222.79	36.96	PASS
4420.00†	4354.09	484.86	523.08	4377.09	4354.09	1136.33	-7671.84	-132.11	8220.77	227.45	36.25	PASS
4520.00†	4452.31	497.62	536.84	4475.31	4452.31	1136.33	-7671.84	-132.21	8233.49	232.12	35.58	PASS
4620.00†	4550.53	510.38	550.60	4573.53	4550.53	1136.33	-7671.84	-132.31	8246.23	236.80	34.92	PASS
4720.00†	4648.75	523.14	564.37	4671.75	4648.75	1136.33	-7671.84	-132.40	8259.00	241.49	34.30	PASS
4820.00†	4746.98	535.89	578.13	4769.98	4746.98	1136.33	-7671.84	-132.50	8271.79	246.19	33.69	PASS
4920.00†	4845.20	548.65	591.89	4868.20	4845.20	1136.33	-7671.84	-132.59	8284.60	250.89	33.11	PASS
5020.00†	4943.42	561.41	605.66	4966.42	4943.42	1136.33	-7671.84	-132.69	8297.44	255.60	32.55	PASS
5120.00†	5041.65	574.17	619.42	5064.65	5041.65	1136.33	-7671.84	-132.78	8310.30	260.32	32.01	PASS
5220.00†	5139.87	586.93	633.19	5162.87	5139.87	1136.33	-7671.84	-132.87	8323.18	265.05	31.48	PASS
5320.00†	5238.09	599.68	646.95	5261.09	5238.09	1136.33	-7671.84	-132.97	8336.08	269.78	30.98	PASS
5420.00†	5336.32	612.44	660.71	5359.32	5336.32	1136.33	-7671.84	-133.06	8349.00	274.53	30.49	PASS
5520.00†	5434.54	625.20	674.48	5457.54	5434.54	1136.33	-7671.84	-133.15	8361.95	279.27	30.02	PASS
5620.00†	5532.76	637.96	688.24	5555.76	5532.76	1136.33	-7671.84	-133.25	8374.92	284.03	29.56	PASS
5720.00†	5630.99	650.72	702.00	5653.99	5630.99	1136.33	-7671.84	-133.34	8387.91	288.79	29.11	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 38 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5752.21	5729.21	1136.33	-7671.84	-133.43	8400.92	293.56	28.68	PASS
5920.00†	5827.43	676.23	729.53	5850.43	5827.43	1136.33	-7671.84	-133.52	8413.96	298.33	28.27	PASS
6020.00†	5925.66	688.99	743.30	5948.66	5925.66	1136.33	-7671.84	-133.62	8427.01	303.11	27.86	PASS
6120.00†	6023.88	701.75	757.06	6046.88	6023.88	1136.33	-7671.84	-133.71	8440.09	307.89	27.47	PASS
6220.00†	6122.10	714.51	770.82	6145.10	6122.10	1136.33	-7671.84	-133.80	8453.19	312.68	27.09	PASS
6237.28	6139.07	716.71	773.20	6162.07	6139.07	1136.33	-7671.84	-133.81	8455.46	313.51	27.03	PASS
6320.00†	6220.86	727.06	779.25	6243.86	6220.86	1136.33	-7671.84	-91.11	8460.99	317.53	26.70	PASS
6420.00†	6319.82	738.83	772.25	6342.82	6319.82	1136.33	-7671.84	-35.09	8453.44	322.70	26.25	PASS
6520.00†	6416.56	749.52	749.77	6439.56	6416.56	1136.33	-7671.84	-16.70	8430.48	328.11	25.75	PASS
6620.00†	6508.72	758.88	712.36	6531.72	6508.72	1136.33	-7671.84	-9.36	8392.68	333.17	25.24	PASS
6720.00†	6594.01	766.68	660.94	6617.01	6594.01	1136.33	-7671.84	-5.27	8340.97	337.75	24.75	PASS
6820.00†	6670.34	772.71	596.78	6693.34	6670.34	1136.33	-7671.84	-2.31	8276.61	341.76	24.27	PASS
6920.00†	6735.84	776.83	521.46	6758.84	6735.84	1136.33	-7671.84	0.47	8201.18	345.13	23.81	PASS
7020.00†	6788.88	778.95	436.83	6811.88	6788.88	1136.33	-7671.84	3.92	8116.54	347.80	23.38	PASS
7120.00†	6828.16	779.00	344.98	6851.16	6828.16	1136.33	-7671.84	9.73	8024.78	349.73	22.99	PASS
7220.00†	6852.71	776.99	248.17	6875.71	6852.71	1136.33	-7671.84	24.20	7928.16	350.91	22.64	PASS
7320.00†	6861.94	772.97	148.78	6884.94	6861.94	1136.33	-7671.84	81.47	7829.06	351.35	22.33	PASS
7332.14	6862.00	772.35	136.65	6885.00	6862.00	1136.33	-7671.84	92.55	7816.97	351.35	22.29	PASS
7420.00†	6861.61	767.75	48.92	6884.61	6861.61	1136.33	-7671.84	92.52	7729.55	351.35	22.04	PASS
7520.00†	6861.17	762.51	-50.94	6884.17	6861.17	1136.33	-7671.84	92.49	7630.06	351.36	21.76	PASS
7620.00†	6860.73	757.28	-150.80	6883.73	6860.73	1136.33	-7671.84	92.45	7530.58	351.37	21.47	PASS
7720.00†	6860.29	752.05	-250.67	6883.29	6860.29	1136.33	-7671.84	92.42	7431.11	351.40	21.19	PASS
7820.00†	6859.85	746.81	-350.53	6882.85	6859.85	1136.33	-7671.84	92.39	7331.66	351.43	20.90	PASS
7920.00†	6859.40	741.58	-450.39	6882.40	6859.40	1136.33	-7671.84	92.36	7232.23	351.47	20.62	PASS
8020.00†	6858.96	736.35	-550.25	6881.96	6858.96	1136.33	-7671.84	92.32	7132.81	351.52	20.33	PASS
8120.00†	6858.52	731.11	-650.11	6881.52	6858.52	1136.33	-7671.84	92.29	7033.41	351.58	20.04	PASS
8220.00†	6858.08	725.88	-749.98	6881.08	6858.08	1136.33	-7671.84	92.26	6934.02	351.66	19.76	PASS
8320.00†	6857.64	720.65	-849.84	6880.64	6857.64	1136.33	-7671.84	92.22	6834.65	351.75	19.47	PASS
8420.00†	6857.20	715.41	-949.70	6880.20	6857.20	1136.33	-7671.84	92.19	6735.30	351.85	19.18	PASS
8520.00†	6856.75	710.18	-1049.56	6879.75	6856.75	1136.33	-7671.84	92.16	6635.97	351.96	18.89	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 39 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	6856.31	704.95	-1149.42	6879.31	6856.31	1136.33	-7671.84	92.13	6536.66	352.09	18.60	PASS
8720.00†	6855.87	699.71	-1249.29	6878.87	6855.87	1136.33	-7671.84	92.09	6437.38	352.24	18.31	PASS
8820.00†	6855.43	694.48	-1349.15	6878.43	6855.43	1136.33	-7671.84	92.06	6338.11	352.40	18.02	PASS
8832.14	6855.38	693.84	-1361.28	6878.38	6855.38	1136.33	-7671.84	92.06	6326.06	352.42	17.98	PASS
8920.00†	6854.99	690.59	-1449.07	6877.99	6854.99	1136.33	-7671.84	92.71	6238.72	352.56	17.73	PASS
9020.00†	6854.55	690.17	-1549.06	6877.55	6854.55	1136.33	-7671.84	94.24	6139.01	352.69	17.44	PASS
9058.60	6854.38	690.94	-1587.65	6877.38	6854.38	1136.33	-7671.84	95.44	6100.46	352.72	17.33	PASS
9120.00†	6854.10	692.58	-1649.03	6877.10	6854.10	1136.33	-7671.84	95.38	6039.13	352.77	17.15	PASS
9220.00†	6853.66	695.24	-1748.99	6876.66	6853.66	1136.33	-7671.84	95.30	5939.25	352.86	16.86	PASS
9320.00†	6853.22	697.91	-1848.96	6876.22	6853.22	1136.33	-7671.84	95.21	5839.36	352.95	16.58	PASS
9420.00†	6852.78	700.58	-1948.92	6875.78	6852.78	1136.33	-7671.84	95.12	5739.48	353.05	16.29	PASS
9520.00†	6852.34	703.25	-2048.88	6875.34	6852.34	1136.33	-7671.84	95.03	5639.61	353.15	16.00	PASS
9620.00†	6851.89	705.92	-2148.85	6874.89	6851.89	1136.33	-7671.84	94.94	5539.74	353.27	15.71	PASS
9720.00†	6851.45	708.59	-2248.81	6874.45	6851.45	1136.33	-7671.84	94.85	5439.87	353.39	15.42	PASS
9820.00†	6851.01	711.26	-2348.77	6874.01	6851.01	1136.33	-7671.84	94.76	5340.01	353.51	15.13	PASS
9920.00†	6850.57	713.92	-2448.74	6873.57	6850.57	1136.33	-7671.84	94.67	5240.15	353.65	14.85	PASS
10020.00†	6850.13	716.59	-2548.70	6873.13	6850.13	1136.33	-7671.84	94.59	5140.30	353.79	14.56	PASS
10120.00†	6849.68	719.26	-2648.66	6872.68	6849.68	1136.33	-7671.84	94.50	5040.46	353.95	14.27	PASS
10220.00†	6849.24	721.93	-2748.63	6872.24	6849.24	1136.33	-7671.84	94.41	4940.62	354.11	13.98	PASS
10320.00†	6848.80	724.60	-2848.59	6871.80	6848.80	1136.33	-7671.84	94.32	4840.79	354.29	13.69	PASS
10420.00†	6848.36	727.27	-2948.55	6871.36	6848.36	1136.33	-7671.84	94.23	4740.97	354.48	13.40	PASS
10520.00†	6847.92	729.94	-3048.52	6870.92	6847.92	1136.33	-7671.84	94.14	4641.15	354.68	13.11	PASS
10620.00†	6847.48	732.60	-3148.48	6870.48	6847.48	1136.33	-7671.84	94.05	4541.34	354.90	12.82	PASS
10720.00†	6847.03	735.27	-3248.44	6870.03	6847.03	1136.33	-7671.84	93.96	4441.54	355.13	12.53	PASS
10820.00†	6846.59	737.94	-3348.41	6869.59	6846.59	1136.33	-7671.84	93.87	4341.75	355.37	12.24	PASS
10920.00†	6846.15	740.61	-3448.37	6869.15	6846.15	1136.33	-7671.84	93.78	4241.97	355.63	11.95	PASS
11020.00†	6845.71	743.28	-3548.33	6868.71	6845.71	1136.33	-7671.84	93.69	4142.19	355.92	11.66	PASS
11120.00†	6845.27	745.95	-3648.30	6868.27	6845.27	1136.33	-7671.84	93.61	4042.43	356.22	11.37	PASS
11220.00†	6844.82	748.62	-3748.26	6867.82	6844.82	1136.33	-7671.84	93.52	3942.69	356.55	11.08	PASS
11320.00†	6844.38	751.29	-3848.22	6867.38	6844.38	1136.33	-7671.84	93.43	3842.95	356.90	10.79	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 40 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
11420.00†	6843.94	753.95	-3948.19	6866.94	6843.94	1136.33	-7671.84	93.34	3743.23	357.27	10.50	PASS
11520.00†	6843.50	756.62	-4048.15	6866.50	6843.50	1136.33	-7671.84	93.25	3643.53	357.68	10.20	PASS
11620.00†	6843.06	759.29	-4148.11	6866.06	6843.06	1136.33	-7671.84	93.16	3543.84	358.12	9.91	PASS
11720.00†	6842.61	761.96	-4248.08	6865.61	6842.61	1136.33	-7671.84	93.07	3444.17	358.60	9.62	PASS
11820.00†	6842.17	764.63	-4348.04	6865.17	6842.17	1136.33	-7671.84	92.98	3344.52	359.11	9.33	PASS
11920.00†	6841.73	767.30	-4448.00	6864.73	6841.73	1136.33	-7671.84	92.89	3244.89	359.67	9.04	PASS
12020.00†	6841.29	769.97	-4547.97	6864.29	6841.29	1136.33	-7671.84	92.80	3145.28	360.28	8.75	PASS
12120.00†	6840.85	772.63	-4647.93	6863.85	6840.85	1136.33	-7671.84	92.71	3045.70	360.94	8.45	PASS
12220.00†	6840.40	775.30	-4747.89	6863.40	6840.40	1136.33	-7671.84	92.62	2946.15	361.66	8.16	PASS
12320.00†	6839.96	777.97	-4847.86	6862.96	6839.96	1136.33	-7671.84	92.53	2846.63	362.46	7.87	PASS
12420.00†	6839.52	780.64	-4947.82	6862.52	6839.52	1136.33	-7671.84	92.45	2747.14	363.33	7.57	PASS
12520.00†	6839.08	783.31	-5047.78	6862.08	6839.08	1136.33	-7671.84	92.36	2647.69	364.28	7.28	PASS
12620.00†	6838.64	785.98	-5147.75	6861.64	6838.64	1136.33	-7671.84	92.27	2548.29	365.33	6.99	PASS
12720.00†	6838.19	788.65	-5247.71	6861.19	6838.19	1136.33	-7671.84	92.18	2448.93	366.50	6.69	PASS
12820.00†	6837.75	791.32	-5347.68	6860.75	6837.75	1136.33	-7671.84	92.09	2349.63	367.79	6.40	PASS
12920.00†	6837.31	793.98	-5447.64	6860.31	6837.31	1136.33	-7671.84	92.00	2250.39	369.23	6.10	PASS
13020.00†	6836.87	796.65	-5547.60	6859.87	6836.87	1136.33	-7671.84	91.91	2151.22	370.84	5.81	PASS
13120.00†	6836.43	799.32	-5647.57	6859.43	6836.43	1136.33	-7671.84	91.82	2052.13	372.64	5.52	PASS
13220.00†	6835.98	801.99	-5747.53	6858.98	6835.98	1136.33	-7671.84	91.73	1953.14	374.67	5.22	PASS
13320.00†	6835.54	804.66	-5847.49	6858.54	6835.54	1136.33	-7671.84	91.64	1854.25	376.96	4.93	PASS
13420.00†	6835.10	807.33	-5947.46	6858.10	6835.10	1136.33	-7671.84	91.55	1755.49	379.57	4.63	PASS
13520.00†	6834.66	810.00	-6047.42	6857.66	6834.66	1136.33	-7671.84	91.46	1656.87	382.55	4.34	PASS
13620.00†	6834.22	812.66	-6147.38	6857.22	6834.22	1136.33	-7671.84	91.37	1558.44	385.97	4.04	PASS
13720.00†	6833.77	815.33	-6247.35	6856.77	6833.77	1136.33	-7671.84	91.28	1460.21	389.92	3.75	PASS
13820.00†	6833.33	818.00	-6347.31	6856.33	6833.33	1136.33	-7671.84	91.19	1362.24	394.52	3.46	PASS
13920.00†	6832.89	820.67	-6447.27	6855.89	6832.89	1136.33	-7671.84	91.10	1264.60	399.92	3.17	PASS
14020.00†	6832.45	823.34	-6547.24	6855.45	6832.45	1136.33	-7671.84	91.01	1167.35	406.31	2.88	PASS
14120.00†	6832.01	826.01	-6647.20	6855.01	6832.01	1136.33	-7671.84	90.92	1070.60	413.96	2.59	PASS
14220.00†	6831.57	828.68	-6747.16	6854.57	6831.57	1136.33	-7671.84	90.84	974.51	423.21	2.30	PASS
14320.00†	6831.12	831.34	-6847.13	6854.12	6831.12	1136.33	-7671.84	90.75	879.30	434.54	2.03	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 41 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
14420.00†	6830.68	834.01	-6947.09	6853.68	6830.68	1136.33	-7671.84	90.66	785.28	448.63	1.75	PASS
14520.00†	6830.24	836.68	-7047.05	6853.24	6830.24	1136.33	-7671.84	90.57	692.93	466.41	1.49	PASS
14620.00†	6829.80	839.35	-7147.02	6852.80	6829.80	1136.33	-7671.84	90.48	603.02	489.23	1.23	PASS
14720.00†	6829.36	842.02	-7246.98	6852.36	6829.36	1136.33	-7671.84	90.39	516.84	518.88	1.00	FAIL
14820.00†	6828.91	844.69	-7346.94	6851.91	6828.91	1136.33	-7671.84	90.30	436.59	557.38	0.78	FAIL
14920.00†	6828.47	847.36	-7446.91	6851.47	6828.47	1136.33	-7671.84	90.21	366.20	605.54	0.60	FAIL
15020.00†	6828.03	850.03	-7546.87	6851.03	6828.03	1136.33	-7671.84	90.12	312.39	657.66	0.47	FAIL
15120.00†	6827.59	852.69	-7646.83	6850.59	6827.59	1136.33	-7671.84	90.03	284.74	693.25	0.41	FAIL
15152.42†	6827.44	853.56	-7679.24	6849.65	6826.65	1136.33	-7671.84	89.84	282.87	696.44	0.41	FAIL
15154.20†	6827.44	853.61	-7681.02	6850.44	6827.44	1136.33	-7671.84	90.00	282.88	696.50	0.41	FAIL
15220.00†	6827.15	855.36	-7746.80	6850.15	6827.15	1136.33	-7671.84	89.94	290.80	687.48	0.42	FAIL
15320.00†	6826.70	858.03	-7846.76	6849.70	6826.70	1136.33	-7671.84	89.85	328.71	646.28	0.51	FAIL
15420.00†	6826.26	860.70	-7946.72	6849.26	6826.26	1136.33	-7671.84	89.76	389.28	596.29	0.65	FAIL
15520.00†	6825.82	863.37	-8046.69	6848.82	6825.82	1136.33	-7671.84	89.67	463.70	552.62	0.84	FAIL
15620.00†	6825.38	866.04	-8146.65	6848.38	6825.38	1136.33	-7671.84	89.58	546.36	518.15	1.05	PASS
15720.00†	6824.94	868.71	-8246.61	6847.94	6824.94	1136.33	-7671.84	89.49	634.03	491.54	1.29	PASS
15820.00†	6824.49	871.37	-8346.58	6847.49	6824.49	1136.33	-7671.84	89.40	724.90	470.91	1.54	PASS
15920.00†	6824.05	874.04	-8446.54	6847.05	6824.05	1136.33	-7671.84	89.31	817.90	454.68	1.80	PASS
16020.00†	6823.61	876.71	-8546.50	6846.61	6823.61	1136.33	-7671.84	89.22	912.38	441.72	2.07	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: EX. RUDOLPH 2-31 AWB 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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 42 of 170



REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	Wellbore
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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 43 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	20.04	-0.31	-0.89	20.04	1.26	63.59	PASS
120.00†	120.00	0.00	0.00	119.00	120.00	20.04	-0.31	-0.89	20.04	1.89	20.70	PASS
220.00†	220.00	0.00	0.00	219.00	220.00	20.04	-0.31	-0.89	20.04	2.45	12.79	PASS
320.00†	320.00	0.00	0.00	318.91	319.91	20.08	-0.27	-0.76	20.08	3.05	9.14	PASS
350.00	350.00	0.00	0.00	348.75	349.75	20.34	-0.02	-0.06	20.34	3.28	8.37	PASS
420.00†	419.99	0.58	0.63	418.37	419.34	21.80	1.38	-45.12	21.25	3.85	7.02	PASS
520.00†	519.90	3.43	3.70	517.78	518.57	26.02	5.41	-42.76	22.69	5.16	5.17	PASS
620.00†	619.60	8.64	9.32	617.12	617.48	32.71	11.81	-41.10	24.29	6.46	4.24	PASS
720.00†	718.97	16.22	17.50	716.41	715.95	41.88	20.57	-40.03	26.01	7.63	3.76	PASS
820.00†	817.89	26.15	28.21	815.64	813.86	53.49	31.67	-39.47	27.85	8.74	3.46	PASS
890.85	887.64	34.60	37.33	886.36	883.37	62.90	40.66	-39.92	28.81	9.30	3.34	PASS
920.00†	916.27	38.32	41.34	915.50	912.01	66.79	44.38	-40.54	28.94	9.48	3.29	PASS
1020.00†	1014.50	51.08	55.11	1015.50	1010.29	80.14	57.14	-42.62	29.43	10.11	3.11	PASS
1120.00†	1112.72	63.84	68.87	1115.49	1108.56	93.49	69.90	-44.62	29.96	10.86	2.93	PASS
1220.00†	1210.94	76.60	82.63	1215.48	1206.83	106.84	82.66	-46.56	30.52	11.70	2.75	PASS
1320.00†	1309.17	89.36	96.40	1315.47	1305.10	120.19	95.43	-48.42	31.12	12.63	2.59	PASS
1420.00†	1407.39	102.11	110.16	1415.47	1403.38	133.54	108.19	-50.21	31.74	13.61	2.43	PASS
1520.00†	1505.61	114.87	123.93	1515.46	1501.65	146.89	120.95	-51.93	32.40	14.66	2.30	PASS
1620.00†	1603.84	127.63	137.69	1615.45	1599.92	160.24	133.71	-53.58	33.09	15.76	2.17	PASS
1720.00†	1702.06	140.39	151.45	1715.45	1698.20	173.59	146.47	-55.16	33.80	16.90	2.06	PASS
1820.00†	1800.28	153.15	165.22	1815.44	1796.47	186.94	159.23	-56.68	34.53	17.30	2.04	PASS
1920.00†	1898.51	165.91	178.98	1915.43	1894.74	200.29	171.99	-58.13	35.29	17.48	2.06	PASS
2020.00†	1996.73	178.66	192.74	2015.43	1993.02	213.64	184.75	-59.52	36.07	17.72	2.08	PASS
2120.00†	2094.95	191.42	206.51	2115.42	2091.29	226.99	197.51	-60.85	36.87	18.02	2.09	PASS
2220.00†	2193.18	204.18	220.27	2215.41	2189.56	240.34	210.28	-62.12	37.69	18.40	2.09	PASS
2320.00†	2291.40	216.94	234.04	2315.41	2287.83	253.69	223.04	-63.34	38.53	18.83	2.09	PASS
2420.00†	2389.62	229.70	247.80	2415.40	2386.11	267.04	235.80	-64.51	39.39	19.32	2.08	PASS
2520.00†	2487.85	242.45	261.56	2515.39	2484.38	280.39	248.56	-65.62	40.26	19.87	2.06	PASS
2620.00†	2586.07	255.21	275.33	2615.39	2582.65	293.74	261.32	-66.69	41.14	20.46	2.05	PASS
2720.00†	2684.29	267.97	289.09	2715.38	2680.93	307.09	274.08	-67.71	42.04	21.10	2.03	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 44 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2815.37	2779.20	320.44	286.84	-68.69	42.95	21.78	2.00	PASS
2920.00†	2880.74	293.49	316.62	2915.37	2877.47	333.79	299.60	-69.63	43.87	22.50	1.98	PASS
3020.00†	2978.96	306.25	330.38	3015.36	2975.74	347.14	312.37	-70.53	44.81	23.26	1.96	PASS
3120.00†	3077.18	319.00	344.15	3115.35	3074.02	360.50	325.13	-71.39	45.75	24.04	1.93	PASS
3220.00†	3175.41	331.76	357.91	3215.35	3172.29	373.85	337.89	-72.22	46.71	24.85	1.91	PASS
3320.00†	3273.63	344.52	371.67	3315.34	3270.56	387.20	350.65	-73.02	47.67	25.69	1.88	PASS
3420.00†	3371.85	357.28	385.44	3415.33	3368.84	400.55	363.41	-73.78	48.65	26.55	1.85	PASS
3520.00†	3470.08	370.04	399.20	3515.33	3467.11	413.90	376.17	-74.51	49.63	27.43	1.83	PASS
3620.00†	3568.30	382.80	412.96	3615.32	3565.38	427.25	388.93	-75.22	50.62	28.33	1.81	PASS
3720.00†	3666.52	395.55	426.73	3715.31	3663.66	440.60	401.69	-75.89	51.61	29.25	1.78	PASS
3820.00†	3764.75	408.31	440.49	3815.31	3761.93	453.95	414.45	-76.54	52.62	30.19	1.76	PASS
3920.00†	3862.97	421.07	454.26	3915.30	3860.20	467.30	427.22	-77.17	53.63	31.14	1.74	PASS
4020.00†	3961.19	433.83	468.02	4015.29	3958.47	480.65	439.98	-77.77	54.64	32.10	1.72	PASS
4120.00†	4059.42	446.59	481.78	4115.28	4056.75	494.00	452.74	-78.36	55.66	33.07	1.70	PASS
4220.00†	4157.64	459.34	495.55	4215.28	4155.02	507.35	465.50	-78.92	56.69	34.05	1.68	PASS
4320.00†	4255.86	472.10	509.31	4315.27	4253.29	520.70	478.26	-79.46	57.73	35.05	1.66	PASS
4420.00†	4354.09	484.86	523.08	4415.26	4351.57	534.05	491.02	-79.98	58.76	36.05	1.64	PASS
4520.00†	4452.31	497.62	536.84	4515.26	4449.84	547.40	503.78	-80.48	59.81	37.07	1.63	PASS
4620.00†	4550.53	510.38	550.60	4615.25	4548.11	560.75	516.54	-80.97	60.85	38.09	1.61	PASS
4720.00†	4648.75	523.14	564.37	4715.24	4646.38	574.10	529.30	-81.44	61.90	39.11	1.59	PASS
4820.00†	4746.98	535.89	578.13	4815.24	4744.66	587.45	542.07	-81.89	62.96	40.15	1.58	PASS
4920.00†	4845.20	548.65	591.89	4915.23	4842.93	600.80	554.83	-82.33	64.02	41.19	1.56	PASS
5020.00†	4943.42	561.41	605.66	5015.22	4941.20	614.15	567.59	-82.75	65.08	42.23	1.55	PASS
5120.00†	5041.65	574.17	619.42	5115.22	5039.48	627.50	580.35	-83.17	66.15	43.28	1.54	PASS
5220.00†	5139.87	586.93	633.19	5215.21	5137.75	640.85	593.11	-83.56	67.22	44.34	1.52	PASS
5320.00†	5238.09	599.68	646.95	5315.20	5236.02	654.20	605.87	-83.95	68.29	45.40	1.51	PASS
5420.00†	5336.32	612.44	660.71	5415.20	5334.29	667.55	618.63	-84.32	69.37	46.46	1.50	PASS
5520.00†	5434.54	625.20	674.48	5515.19	5432.57	680.90	631.39	-84.68	70.44	47.53	1.49	PASS
5620.00†	5532.76	637.96	688.24	5615.18	5530.84	694.25	644.15	-85.04	71.53	48.61	1.48	PASS
5720.00†	5630.99	650.72	702.00	5715.18	5629.11	707.60	656.92	-85.38	72.61	49.68	1.47	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 45 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5815.17	5727.39	720.95	669.68	-85.71	73.70	50.76	1.46	PASS
5920.00†	5827.43	676.23	729.53	5915.16	5825.66	734.30	682.44	-86.03	74.78	51.84	1.45	PASS
6020.00†	5925.66	688.99	743.30	6015.16	5923.93	747.65	695.20	-86.34	75.87	52.93	1.44	PASS
6120.00†	6023.88	701.75	757.06	6115.15	6022.21	761.00	707.96	-86.64	76.97	54.02	1.43	PASS
6220.00†	6122.10	714.51	770.82	6215.14	6120.48	774.35	720.72	-86.94	78.06	55.11	1.42	PASS
6237.28	6139.07	716.71	773.20	6232.42	6137.46	776.66	722.93	-86.99	78.25	55.30	1.42	PASS
6320.00†	6220.86	727.06	779.25	6314.96	6218.57	787.68	733.46	-41.03	76.00	56.15	1.36	PASS
6420.00†	6319.82	738.83	772.25	6412.89	6314.82	800.75	745.96	29.72	67.46	56.96	1.19	PASS
6520.00†	6416.56	749.52	749.77	6506.16	6406.79	813.81	753.63	73.03	65.14	57.78	1.13	PASS
6620.00†	6508.72	758.88	712.36	6602.50	6501.63	829.10	747.66	101.80	78.91	59.65	1.33	PASS
6720.00†	6594.01	766.68	660.94	6703.53	6598.61	846.78	726.05	118.53	103.33	61.65	1.68	PASS
6820.00†	6670.34	772.71	596.78	6809.95	6695.39	866.74	686.90	127.41	132.63	62.80	2.12	PASS
6920.00†	6735.84	776.83	521.46	6922.44	6788.77	888.72	628.43	131.76	163.60	63.12	2.61	PASS
7020.00†	6788.88	778.95	436.83	7041.61	6874.53	912.25	549.35	133.38	194.33	63.40	3.09	PASS
7120.00†	6828.16	779.00	344.98	7167.85	6947.32	936.55	449.38	133.19	223.42	63.74	3.53	PASS
7220.00†	6852.71	776.99	248.17	7301.05	7000.93	960.46	330.08	131.66	249.68	66.61	3.78	PASS
7320.00†	6861.94	772.97	148.78	7440.43	7029.07	982.46	195.64	129.07	272.06	70.79	3.87	PASS
7332.14	6862.00	772.35	136.65	7457.71	7030.48	984.92	178.60	128.69	274.47	71.40	3.87	PASS
7420.00†	6861.61	767.75	48.92	7558.00	7031.99	998.24	79.23	126.67	288.22	76.12	3.81	PASS
7520.00†	6861.17	762.51	-50.94	7656.33	7031.97	1011.07	-18.26	124.69	303.35	81.89	3.73	PASS
7620.00†	6860.73	757.28	-150.80	7754.65	7031.95	1023.91	-115.74	122.89	318.80	88.20	3.64	PASS
7720.00†	6860.29	752.05	-250.67	7852.98	7031.93	1036.74	-213.22	121.26	334.53	94.95	3.54	PASS
7820.00†	6859.85	746.81	-350.53	7951.30	7031.91	1049.58	-310.71	119.78	350.51	102.07	3.45	PASS
7920.00†	6859.40	741.58	-450.39	8058.85	7031.88	1062.45	-417.47	118.39	365.78	109.81	3.35	PASS
8020.00†	6858.96	736.35	-550.25	8170.81	7031.86	1071.71	-529.05	117.36	377.91	117.73	3.22	PASS
8120.00†	6858.52	731.11	-650.11	8283.80	7031.84	1076.63	-641.92	116.68	386.64	125.59	3.09	PASS
8220.00†	6858.08	725.88	-749.98	8384.83	7031.82	1078.68	-742.93	116.26	393.32	133.16	2.96	PASS
8320.00†	6857.64	720.65	-849.84	8484.57	7031.79	1080.68	-842.65	115.85	400.01	140.86	2.85	PASS
8420.00†	6857.20	715.41	-949.70	8584.31	7031.77	1082.68	-942.36	115.46	406.72	148.69	2.74	PASS
8520.00†	6856.75	710.18	-1049.56	8684.04	7031.75	1084.68	-1042.08	115.08	413.44	156.65	2.65	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 46 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	6856.31	704.95	-1149.42	8783.78	7031.73	1086.68	-1141.80	114.72	420.18	164.72	2.56	PASS
8720.00†	6855.87	699.71	-1249.29	8883.52	7031.71	1088.69	-1241.51	114.36	426.94	172.89	2.48	PASS
8820.00†	6855.43	694.48	-1349.15	8983.25	7031.69	1090.69	-1341.23	114.02	433.72	181.14	2.40	PASS
8832.14	6855.38	693.84	-1361.28	8995.37	7031.69	1090.93	-1353.34	113.98	434.54	182.14	2.39	PASS
8920.00†	6854.99	690.59	-1449.07	9083.07	7031.67	1092.69	-1441.03	113.73	439.28	189.39	2.32	PASS
9020.00†	6854.55	690.17	-1549.06	9183.04	7031.65	1094.70	-1540.98	113.64	441.67	197.50	2.24	PASS
9058.60	6854.38	690.94	-1587.65	9221.64	7031.64	1095.47	-1579.57	113.66	441.74	200.58	2.21	PASS
9120.00†	6854.10	692.58	-1649.03	9283.04	7031.63	1096.70	-1640.95	113.71	441.47	205.46	2.15	PASS
9220.00†	6853.66	695.24	-1748.99	9383.03	7031.61	1098.71	-1740.93	113.80	441.04	213.43	2.07	PASS
9320.00†	6853.22	697.91	-1848.96	9483.03	7031.59	1100.72	-1840.91	113.88	440.60	221.41	1.99	PASS
9420.00†	6852.78	700.58	-1948.92	9583.03	7031.56	1102.73	-1940.88	113.97	440.17	229.42	1.92	PASS
9520.00†	6852.34	703.25	-2048.88	9683.02	7031.54	1104.73	-2040.86	114.05	439.74	237.44	1.85	PASS
9620.00†	6851.89	705.92	-2148.85	9783.02	7031.52	1106.74	-2140.84	114.14	439.30	245.47	1.79	PASS
9720.00†	6851.45	708.59	-2248.81	9883.02	7031.50	1108.75	-2240.81	114.22	438.87	253.51	1.73	PASS
9820.00†	6851.01	711.26	-2348.77	9983.01	7031.48	1110.75	-2340.79	114.31	438.44	261.56	1.68	PASS
9920.00†	6850.57	713.92	-2448.74	10083.01	7031.46	1112.76	-2440.77	114.39	438.01	269.61	1.63	PASS
10020.00†	6850.13	716.59	-2548.70	10183.01	7031.44	1114.77	-2540.74	114.48	437.58	277.67	1.58	PASS
10120.00†	6849.68	719.26	-2648.66	10283.01	7031.42	1116.77	-2640.72	114.57	437.16	285.73	1.53	PASS
10220.00†	6849.24	721.93	-2748.63	10383.00	7031.40	1118.78	-2740.70	114.65	436.73	293.79	1.49	PASS
10320.00†	6848.80	724.60	-2848.59	10483.00	7031.38	1120.79	-2840.68	114.74	436.30	301.86	1.45	PASS
10420.00†	6848.36	727.27	-2948.55	10583.00	7031.35	1122.79	-2940.65	114.83	435.88	309.92	1.41	PASS
10520.00†	6847.92	729.94	-3048.52	10682.99	7031.33	1124.80	-3040.63	114.91	435.46	317.98	1.37	PASS
10620.00†	6847.48	732.60	-3148.48	10782.99	7031.31	1126.81	-3140.61	115.00	435.03	326.03	1.34	PASS
10720.00†	6847.03	735.27	-3248.44	10882.99	7031.29	1128.82	-3240.58	115.09	434.61	334.09	1.30	PASS
10820.00†	6846.59	737.94	-3348.41	10982.98	7031.27	1130.82	-3340.56	115.17	434.19	342.14	1.27	PASS
10920.00†	6846.15	740.61	-3448.37	11082.98	7031.25	1132.83	-3440.54	115.26	433.77	350.18	1.24	PASS
11020.00†	6845.71	743.28	-3548.33	11182.98	7031.23	1134.84	-3540.51	115.35	433.35	358.22	1.21	PASS
11120.00†	6845.27	745.95	-3648.30	11282.97	7031.21	1136.84	-3640.49	115.44	432.94	366.26	1.18	PASS
11220.00†	6844.82	748.62	-3748.26	11382.97	7031.19	1138.85	-3740.47	115.53	432.52	374.28	1.16	PASS
11320.00†	6844.38	751.29	-3848.22	11482.97	7031.17	1140.86	-3840.44	115.61	432.11	382.30	1.13	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Closest Approach

Page 47 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
11420.00†	6843.94	753.95	-3948.19	11582.97	7031.15	1142.86	-3940.42	115.70	431.69	390.31	1.11	PASS
11520.00†	6843.50	756.62	-4048.15	11682.96	7031.12	1144.87	-4040.40	115.79	431.28	398.32	1.08	PASS
11620.00†	6843.06	759.29	-4148.11	11782.96	7031.10	1146.88	-4140.37	115.88	430.87	406.31	1.06	PASS
11720.00†	6842.61	761.96	-4248.08	11882.96	7031.08	1148.88	-4240.35	115.97	430.45	414.30	1.04	PASS
11820.00†	6842.17	764.63	-4348.04	11982.95	7031.06	1150.89	-4340.33	116.06	430.04	422.28	1.02	PASS
11920.00†	6841.73	767.30	-4448.00	12082.95	7031.04	1152.90	-4440.30	116.15	429.64	430.25	1.00	FAIL
12020.00†	6841.29	769.97	-4547.97	12182.95	7031.02	1154.91	-4540.28	116.24	429.23	438.21	0.98	FAIL
12120.00†	6840.85	772.63	-4647.93	12282.94	7031.00	1156.91	-4640.26	116.33	428.82	446.16	0.96	FAIL
12220.00†	6840.40	775.30	-4747.89	12382.94	7030.98	1158.92	-4740.23	116.41	428.41	454.10	0.94	FAIL
12320.00†	6839.96	777.97	-4847.86	12482.94	7030.96	1160.93	-4840.21	116.50	428.01	462.02	0.93	FAIL
12420.00†	6839.52	780.64	-4947.82	12582.93	7030.94	1162.93	-4940.19	116.59	427.61	469.94	0.91	FAIL
12520.00†	6839.08	783.31	-5047.78	12682.93	7030.91	1164.94	-5040.16	116.69	427.20	477.85	0.89	FAIL
12620.00†	6838.64	785.98	-5147.75	12782.93	7030.89	1166.95	-5140.14	116.78	426.80	485.74	0.88	FAIL
12720.00†	6838.19	788.65	-5247.71	12882.93	7030.87	1168.95	-5240.12	116.87	426.40	493.63	0.86	FAIL
12820.00†	6837.75	791.32	-5347.68	12982.92	7030.85	1170.96	-5340.09	116.96	426.00	501.50	0.85	FAIL
12920.00†	6837.31	793.98	-5447.64	13082.92	7030.83	1172.97	-5440.07	117.05	425.60	509.36	0.84	FAIL
13020.00†	6836.87	796.65	-5547.60	13182.92	7030.81	1174.97	-5540.05	117.14	425.20	517.20	0.82	FAIL
13120.00†	6836.43	799.32	-5647.57	13282.91	7030.79	1176.98	-5640.02	117.23	424.81	525.04	0.81	FAIL
13220.00†	6835.98	801.99	-5747.53	13382.91	7030.77	1178.99	-5740.00	117.32	424.41	532.86	0.80	FAIL
13320.00†	6835.54	804.66	-5847.49	13482.91	7030.75	1181.00	-5839.98	117.41	424.02	540.67	0.78	FAIL
13420.00†	6835.10	807.33	-5947.46	13582.90	7030.73	1183.00	-5939.96	117.50	423.62	548.47	0.77	FAIL
13520.00†	6834.66	810.00	-6047.42	13682.90	7030.71	1185.01	-6039.93	117.60	423.23	556.25	0.76	FAIL
13620.00†	6834.22	812.66	-6147.38	13782.90	7030.68	1187.02	-6139.91	117.69	422.84	564.02	0.75	FAIL
13720.00†	6833.77	815.33	-6247.35	13882.89	7030.66	1189.02	-6239.89	117.78	422.45	571.78	0.74	FAIL
13820.00†	6833.33	818.00	-6347.31	13982.89	7030.64	1191.03	-6339.86	117.87	422.06	579.52	0.73	FAIL
13920.00†	6832.89	820.67	-6447.27	14082.89	7030.62	1193.04	-6439.84	117.97	421.68	587.25	0.72	FAIL
14020.00†	6832.45	823.34	-6547.24	14182.89	7030.60	1195.04	-6539.82	118.06	421.29	594.97	0.71	FAIL
14120.00†	6832.01	826.01	-6647.20	14282.88	7030.58	1197.05	-6639.79	118.15	420.90	602.67	0.70	FAIL
14220.00†	6831.57	828.68	-6747.16	14382.88	7030.56	1199.06	-6739.77	118.24	420.52	610.36	0.69	FAIL
14320.00†	6831.12	831.34	-6847.13	14482.88	7030.54	1201.07	-6839.75	118.34	420.14	618.03	0.68	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 48 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
14420.00†	6830.68	834.01	-6947.09	14582.87	7030.52	1203.07	-6939.72	118.43	419.75	625.69	0.67	FAIL
14520.00†	6830.24	836.68	-7047.05	14682.87	7030.50	1205.08	-7039.70	118.53	419.37	633.33	0.66	FAIL
14620.00†	6829.80	839.35	-7147.02	14782.87	7030.48	1207.09	-7139.68	118.62	418.99	640.96	0.65	FAIL
14720.00†	6829.36	842.02	-7246.98	14882.86	7030.45	1209.09	-7239.65	118.71	418.61	648.57	0.65	FAIL
14820.00†	6828.91	844.69	-7346.94	14982.86	7030.43	1211.10	-7339.63	118.81	418.24	656.17	0.64	FAIL
14920.00†	6828.47	847.36	-7446.91	15082.86	7030.41	1213.11	-7439.61	118.90	417.86	663.75	0.63	FAIL
15020.00†	6828.03	850.03	-7546.87	15182.85	7030.39	1215.11	-7539.58	119.00	417.48	671.32	0.62	FAIL
15120.00†	6827.59	852.69	-7646.83	15282.85	7030.37	1217.12	-7639.56	119.09	417.11	678.87	0.61	FAIL
15220.00†	6827.15	855.36	-7746.80	15382.85	7030.35	1219.13	-7739.54	119.19	416.74	686.41	0.61	FAIL
15320.00†	6826.70	858.03	-7846.76	15482.85	7030.33	1221.13	-7839.51	119.28	416.36	693.93	0.60	FAIL
15420.00†	6826.26	860.70	-7946.72	15582.84	7030.31	1223.14	-7939.49	119.38	415.99	701.44	0.59	FAIL
15520.00†	6825.82	863.37	-8046.69	15682.84	7030.29	1225.15	-8039.47	119.47	415.62	708.92	0.59	FAIL
15620.00†	6825.38	866.04	-8146.65	15782.84	7030.27	1227.16	-8139.44	119.57	415.26	716.40	0.58	FAIL
15720.00†	6824.94	868.71	-8246.61	15882.83	7030.24	1229.16	-8239.42	119.66	414.89	723.85	0.57	FAIL
15820.00†	6824.49	871.37	-8346.58	15982.83	7030.22	1231.17	-8339.40	119.76	414.52	731.29	0.57	FAIL
15920.00†	6824.05	874.04	-8446.54	16082.83	7030.20	1233.18	-8439.37	119.85	414.16	738.71	0.56	FAIL
16020.00†	6823.61	876.71	-8546.50	16182.82	7030.18	1235.18	-8539.35	119.95	413.79	746.12	0.55	FAIL
16120.00†	6823.17	879.38	-8646.47	16282.82	7030.16	1237.19	-8639.33	120.05	413.43	753.51	0.55	FAIL
16220.00†	6822.73	882.05	-8746.43	16382.82	7030.14	1239.20	-8739.31	120.14	413.07	760.88	0.54	FAIL
16320.00†	6822.28	884.72	-8846.39	16482.82	7030.12	1241.21	-8839.28	120.23	412.71	768.25	0.54	FAIL
16420.00†	6821.84	887.39	-8946.36	16582.81	7030.10	1243.22	-8939.25	120.32	412.35	775.62	0.53	FAIL
16520.00†	6821.40	890.06	-9046.32	16682.81	7030.07	1245.23	-9039.22	120.41	411.99	782.99	0.52	FAIL
16620.00†	6820.96	892.72	-9146.28	16782.81	7030.06	1247.24	-9139.19	120.50	411.63	790.36	0.51	FAIL
16720.00†	6820.52	895.39	-9246.25	16882.80	7030.04	1249.25	-9239.16	120.59	411.27	797.73	0.50	FAIL
16820.00†	6820.07	898.06	-9346.21	16982.80	7030.02	1251.26	-9339.13	120.68	410.91	805.10	0.49	FAIL
16920.00†	6819.63	900.73	-9446.17	17082.79	7030.01	1253.27	-9439.10	120.77	410.55	812.47	0.48	FAIL
17020.00†	6819.19	903.40	-9546.14	17182.78	7030.00	1255.28	-9539.07	120.86	410.19	819.84	0.47	FAIL
17063.18	6819.00	904.55	-9589.31	17192.82	7030.00	1257.29	-9543.58	120.95	410.00	824.00	0.46	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 49 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	12.21	-0.19	60.42	45.89
9.625in Casing Surface	20.00	1750.00	1730.00	21.00	1732.15	12.21	-0.19	60.42	45.89
8.5in Open Hole	1750.00	17192.82	15442.82	1732.15	7030.00	60.42	45.89	358.89	-2908.98

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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 50 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	40.07	-0.62	-0.89	40.08	1.26	130.39	PASS
120.00†	120.00	0.00	0.00	119.00	120.00	40.07	-0.62	-0.89	40.08	1.89	42.40	PASS
220.00†	220.00	0.00	0.00	219.00	220.00	40.07	-0.62	-0.89	40.08	2.46	26.20	PASS
320.00†	320.00	0.00	0.00	318.23	319.22	40.73	-0.13	-0.19	40.73	3.11	18.55	PASS
350.00	350.00	0.00	0.00	347.88	348.86	41.42	0.38	0.52	41.43	3.39	16.70	PASS
420.00†	419.99	0.58	0.63	417.00	417.90	43.98	2.28	-44.95	43.48	4.10	13.54	PASS
520.00†	519.90	3.43	3.70	515.64	516.26	49.95	6.72	-43.32	46.76	5.40	10.31	PASS
620.00†	619.60	8.64	9.32	614.16	614.18	58.62	13.17	-42.50	50.42	6.67	8.66	PASS
720.00†	718.97	16.22	17.50	712.55	711.55	69.98	21.61	-42.35	54.42	7.80	7.82	PASS
820.00†	817.89	26.15	28.21	810.81	808.24	83.99	32.02	-42.72	58.76	8.85	7.32	PASS
890.85	887.64	34.60	37.33	880.35	876.28	95.51	40.59	-43.24	62.04	9.51	7.14	PASS
920.00†	916.27	38.32	41.34	909.42	904.64	100.62	44.39	-43.50	63.44	9.72	7.14	PASS
1020.00†	1014.50	51.08	55.11	1009.30	1002.09	118.18	57.44	-44.29	68.27	10.42	7.12	PASS
1120.00†	1112.72	63.84	68.87	1109.18	1099.55	135.74	70.49	-44.99	73.11	11.21	7.04	PASS
1220.00†	1210.94	76.60	82.63	1209.06	1197.00	153.30	83.55	-45.59	77.97	12.05	6.95	PASS
1320.00†	1309.17	89.36	96.40	1308.94	1294.45	170.86	96.60	-46.13	82.82	12.94	6.84	PASS
1420.00†	1407.39	102.11	110.16	1408.82	1391.91	188.42	109.66	-46.60	87.69	13.88	6.72	PASS
1520.00†	1505.61	114.87	123.93	1508.70	1489.36	205.98	122.71	-47.03	92.56	14.85	6.60	PASS
1620.00†	1603.84	127.63	137.69	1608.58	1586.81	223.55	135.77	-47.41	97.43	15.85	6.48	PASS
1720.00†	1702.06	140.39	151.45	1708.45	1684.26	241.11	148.82	-47.76	102.31	16.88	6.37	PASS
1820.00†	1800.28	153.15	165.22	1808.33	1781.72	258.67	161.87	-48.08	107.19	17.20	6.46	PASS
1920.00†	1898.51	165.91	178.98	1908.21	1879.17	276.23	174.93	-48.36	112.08	17.34	6.70	PASS
2020.00†	1996.73	178.66	192.74	2008.09	1976.62	293.79	187.98	-48.63	116.97	17.52	6.92	PASS
2120.00†	2094.95	191.42	206.51	2107.97	2074.07	311.35	201.04	-48.87	121.86	17.78	7.10	PASS
2220.00†	2193.18	204.18	220.27	2207.85	2171.53	328.91	214.09	-49.09	126.75	18.11	7.24	PASS
2320.00†	2291.40	216.94	234.04	2307.73	2268.98	346.47	227.15	-49.30	131.64	18.51	7.35	PASS
2420.00†	2389.62	229.70	247.80	2407.61	2366.43	364.03	240.20	-49.49	136.54	18.98	7.44	PASS
2520.00†	2487.85	242.45	261.56	2507.49	2463.88	381.60	253.25	-49.67	141.43	19.50	7.49	PASS
2620.00†	2586.07	255.21	275.33	2607.37	2561.34	399.16	266.31	-49.84	146.33	20.08	7.52	PASS
2720.00†	2684.29	267.97	289.09	2707.25	2658.79	416.72	279.36	-50.00	151.23	20.70	7.53	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 51 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2807.12	2756.24	434.28	292.42	-50.14	156.13	21.38	7.52	PASS
2920.00†	2880.74	293.49	316.62	2907.00	2853.70	451.84	305.47	-50.28	161.03	22.09	7.50	PASS
3020.00†	2978.96	306.25	330.38	3006.88	2951.15	469.40	318.53	-50.41	165.93	22.84	7.47	PASS
3120.00†	3077.18	319.00	344.15	3106.76	3048.60	486.96	331.58	-50.53	170.84	23.62	7.42	PASS
3220.00†	3175.41	331.76	357.91	3206.64	3146.05	504.52	344.63	-50.65	175.74	24.44	7.38	PASS
3320.00†	3273.63	344.52	371.67	3306.52	3243.51	522.08	357.69	-50.76	180.64	25.28	7.32	PASS
3420.00†	3371.85	357.28	385.44	3406.40	3340.96	539.65	370.74	-50.86	185.55	26.15	7.27	PASS
3520.00†	3470.08	370.04	399.20	3506.28	3438.41	557.21	383.80	-50.96	190.45	27.04	7.21	PASS
3620.00†	3568.30	382.80	412.96	3606.16	3535.86	574.77	396.85	-51.05	195.36	27.95	7.15	PASS
3720.00†	3666.52	395.55	426.73	3706.04	3633.32	592.33	409.91	-51.14	200.27	28.87	7.09	PASS
3820.00†	3764.75	408.31	440.49	3805.92	3730.77	609.89	422.96	-51.22	205.17	29.82	7.02	PASS
3920.00†	3862.97	421.07	454.26	3905.79	3828.22	627.45	436.01	-51.30	210.08	30.78	6.96	PASS
4020.00†	3961.19	433.83	468.02	4005.67	3925.68	645.01	449.07	-51.38	214.99	31.75	6.90	PASS
4120.00†	4059.42	446.59	481.78	4105.55	4023.13	662.57	462.12	-51.45	219.90	32.73	6.84	PASS
4220.00†	4157.64	459.34	495.55	4205.43	4120.58	680.14	475.18	-51.52	224.80	33.73	6.79	PASS
4320.00†	4255.86	472.10	509.31	4305.31	4218.03	697.70	488.23	-51.59	229.71	34.74	6.73	PASS
4420.00†	4354.09	484.86	523.08	4405.19	4315.49	715.26	501.29	-51.65	234.62	35.75	6.68	PASS
4520.00†	4452.31	497.62	536.84	4505.07	4412.94	732.82	514.34	-51.71	239.53	36.77	6.62	PASS
4620.00†	4550.53	510.38	550.60	4604.95	4510.39	750.38	527.39	-51.77	244.44	37.81	6.57	PASS
4720.00†	4648.75	523.14	564.37	4704.83	4607.84	767.94	540.45	-51.83	249.35	38.85	6.52	PASS
4820.00†	4746.98	535.89	578.13	4804.71	4705.30	785.50	553.50	-51.88	254.26	39.89	6.47	PASS
4920.00†	4845.20	548.65	591.89	4904.59	4802.75	803.06	566.56	-51.94	259.17	40.94	6.42	PASS
5020.00†	4943.42	561.41	605.66	5004.47	4900.20	820.62	579.61	-51.99	264.08	42.00	6.38	PASS
5120.00†	5041.65	574.17	619.42	5104.34	4997.65	838.19	592.67	-52.04	268.99	43.06	6.33	PASS
5220.00†	5139.87	586.93	633.19	5204.22	5095.11	855.75	605.72	-52.08	273.90	44.13	6.29	PASS
5320.00†	5238.09	599.68	646.95	5304.10	5192.56	873.31	618.77	-52.13	278.81	45.20	6.25	PASS
5420.00†	5336.32	612.44	660.71	5403.98	5290.01	890.87	631.83	-52.17	283.72	46.28	6.21	PASS
5520.00†	5434.54	625.20	674.48	5503.86	5387.47	908.43	644.88	-52.21	288.64	47.36	6.17	PASS
5620.00†	5532.76	637.96	688.24	5603.74	5484.92	925.99	657.94	-52.26	293.55	48.45	6.13	PASS
5720.00†	5630.99	650.72	702.00	5703.62	5582.37	943.55	670.99	-52.29	298.46	49.53	6.10	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 52 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5803.50	5679.82	961.11	684.05	-52.33	303.37	50.62	6.06	PASS
5920.00†	5827.43	676.23	729.53	5903.38	5777.28	978.68	697.10	-52.37	308.28	51.72	6.03	PASS
6020.00†	5925.66	688.99	743.30	6003.26	5874.73	996.24	710.15	-52.41	313.19	52.81	6.00	PASS
6120.00†	6023.88	701.75	757.06	6103.14	5972.18	1013.80	723.21	-52.44	318.11	53.91	5.97	PASS
6220.00†	6122.10	714.51	770.82	6203.01	6069.63	1031.36	736.26	-52.47	323.02	55.02	5.93	PASS
6237.28	6139.07	716.71	773.20	6220.27	6086.47	1034.39	738.52	-52.48	323.87	55.21	5.93	PASS
6320.00†	6220.86	727.06	779.25	6302.68	6166.88	1048.88	749.29	-9.09	327.69	56.07	5.91	PASS
6420.00†	6319.82	738.83	772.25	6400.39	6262.21	1066.06	762.06	49.95	332.42	57.14	5.88	PASS
6520.00†	6416.56	749.52	749.77	6495.63	6355.58	1082.98	769.36	72.42	339.56	58.41	5.87	PASS
6620.00†	6508.72	758.88	712.36	6595.02	6452.95	1100.92	761.99	83.44	350.09	59.89	5.90	PASS
6720.00†	6594.01	766.68	660.94	6699.67	6552.88	1119.64	737.69	90.60	363.55	61.64	5.95	PASS
6820.00†	6670.34	772.71	596.78	6810.34	6652.73	1138.71	694.28	95.82	379.17	63.54	6.02	PASS
6920.00†	6735.84	776.83	521.46	6927.70	6748.76	1157.48	629.78	99.73	395.97	65.59	6.09	PASS
7020.00†	6788.88	778.95	436.83	7052.19	6836.01	1175.07	543.03	102.59	412.81	68.24	6.10	PASS
7120.00†	6828.16	779.00	344.98	7183.74	6908.25	1190.33	434.44	104.47	428.49	71.93	6.01	PASS
7220.00†	6852.71	776.99	248.17	7321.56	6958.69	1201.96	307.00	105.42	441.91	76.20	5.84	PASS
7320.00†	6861.94	772.97	148.78	7463.99	6981.22	1208.73	166.83	105.43	452.15	81.71	5.57	PASS
7332.14	6862.00	772.35	136.65	7481.48	6981.85	1209.17	149.35	105.37	453.15	82.42	5.54	PASS
7420.00†	6861.61	767.75	48.92	7574.33	6981.70	1210.91	56.52	105.18	459.20	87.16	5.30	PASS
7520.00†	6861.17	762.51	-50.94	7674.08	6981.31	1212.72	-43.21	104.96	466.03	92.93	5.05	PASS
7620.00†	6860.73	757.28	-150.80	7773.83	6980.91	1214.54	-142.95	104.74	472.86	99.20	4.79	PASS
7720.00†	6860.29	752.05	-250.67	7873.58	6980.52	1216.36	-242.68	104.53	479.69	105.87	4.55	PASS
7820.00†	6859.85	746.81	-350.53	7973.33	6980.13	1218.18	-342.41	104.33	486.54	112.88	4.33	PASS
7920.00†	6859.40	741.58	-450.39	8073.08	6979.73	1219.99	-442.15	104.13	493.38	120.16	4.12	PASS
8020.00†	6858.96	736.35	-550.25	8172.84	6979.34	1221.81	-541.88	103.94	500.24	127.68	3.93	PASS
8120.00†	6858.52	731.11	-650.11	8272.59	6978.95	1223.63	-641.61	103.75	507.10	135.39	3.76	PASS
8220.00†	6858.08	725.88	-749.98	8372.34	6978.55	1225.45	-741.35	103.57	513.96	143.27	3.60	PASS
8320.00†	6857.64	720.65	-849.84	8472.09	6978.16	1227.26	-841.08	103.39	520.83	151.28	3.45	PASS
8420.00†	6857.20	715.41	-949.70	8571.84	6977.77	1229.08	-940.81	103.22	527.70	159.42	3.32	PASS
8520.00†	6856.75	710.18	-1049.56	8671.59	6977.37	1230.90	-1040.55	103.05	534.58	167.66	3.20	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 53 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	6856.31	704.95	-1149.42	8771.34	6976.98	1232.72	-1140.28	102.89	541.47	175.99	3.09	PASS
8720.00†	6855.87	699.71	-1249.29	8871.09	6976.59	1234.53	-1240.02	102.73	548.36	184.39	2.98	PASS
8820.00†	6855.43	694.48	-1349.15	8970.84	6976.19	1236.35	-1339.75	102.58	555.25	192.87	2.89	PASS
8832.14	6855.38	693.84	-1361.28	8982.96	6976.15	1236.57	-1351.86	102.56	556.08	193.90	2.87	PASS
8920.00†	6854.99	690.59	-1449.07	9070.68	6975.80	1238.17	-1439.56	102.44	560.83	201.40	2.79	PASS
9020.00†	6854.55	690.17	-1549.06	9170.65	6975.41	1239.99	-1539.52	102.39	563.03	209.97	2.69	PASS
9058.60	6854.38	690.94	-1587.65	9209.25	6975.25	1240.70	-1578.11	102.40	562.97	213.28	2.65	PASS
9120.00†	6854.10	692.58	-1649.03	9270.64	6975.01	1241.81	-1639.50	102.42	562.47	218.55	2.58	PASS
9220.00†	6853.66	695.24	-1748.99	9370.64	6974.62	1243.64	-1739.48	102.44	561.65	227.15	2.48	PASS
9320.00†	6853.22	697.91	-1848.96	9470.64	6974.22	1245.46	-1839.45	102.46	560.84	235.79	2.38	PASS
9420.00†	6852.78	700.58	-1948.92	9570.63	6973.83	1247.28	-1939.43	102.49	560.02	244.46	2.29	PASS
9520.00†	6852.34	703.25	-2048.88	9670.63	6973.43	1249.10	-2039.41	102.51	559.20	253.14	2.21	PASS
9620.00†	6851.89	705.92	-2148.85	9770.63	6973.04	1250.92	-2139.39	102.53	558.39	261.85	2.14	PASS
9720.00†	6851.45	708.59	-2248.81	9870.62	6972.65	1252.75	-2239.37	102.56	557.57	270.58	2.06	PASS
9820.00†	6851.01	711.26	-2348.77	9970.62	6972.25	1254.57	-2339.35	102.58	556.76	279.33	2.00	PASS
9920.00†	6850.57	713.92	-2448.74	10070.61	6971.86	1256.39	-2439.33	102.60	555.94	288.09	1.93	PASS
10020.00†	6850.13	716.59	-2548.70	10170.61	6971.46	1258.21	-2539.31	102.63	555.12	296.87	1.87	PASS
10120.00†	6849.68	719.26	-2648.66	10270.61	6971.07	1260.03	-2639.29	102.65	554.31	305.66	1.82	PASS
10220.00†	6849.24	721.93	-2748.63	10370.60	6970.67	1261.86	-2739.27	102.68	553.49	314.46	1.76	PASS
10320.00†	6848.80	724.60	-2848.59	10470.60	6970.28	1263.68	-2839.25	102.70	552.68	323.27	1.71	PASS
10420.00†	6848.36	727.27	-2948.55	10570.60	6969.89	1265.50	-2939.22	102.72	551.86	332.09	1.66	PASS
10520.00†	6847.92	729.94	-3048.52	10670.59	6969.49	1267.32	-3039.20	102.75	551.04	340.92	1.62	PASS
10620.00†	6847.48	732.60	-3148.48	10770.59	6969.10	1269.14	-3139.18	102.77	550.23	349.76	1.57	PASS
10720.00†	6847.03	735.27	-3248.44	10870.59	6968.70	1270.97	-3239.16	102.80	549.41	358.61	1.53	PASS
10820.00†	6846.59	737.94	-3348.41	10970.58	6968.31	1272.79	-3339.14	102.82	548.60	367.46	1.49	PASS
10920.00†	6846.15	740.61	-3448.37	11070.58	6967.91	1274.61	-3439.12	102.85	547.78	376.31	1.46	PASS
11020.00†	6845.71	743.28	-3548.33	11170.57	6967.52	1276.43	-3539.10	102.87	546.97	385.17	1.42	PASS
11120.00†	6845.27	745.95	-3648.30	11270.57	6967.13	1278.25	-3639.08	102.90	546.15	394.04	1.39	PASS
11220.00†	6844.82	748.62	-3748.26	11370.57	6966.73	1280.08	-3739.06	102.92	545.34	402.91	1.35	PASS
11320.00†	6844.38	751.29	-3848.22	11470.56	6966.34	1281.90	-3839.04	102.95	544.52	411.78	1.32	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 54 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
11420.00†	6843.94	753.95	-3948.19	11570.56	6965.94	1283.72	-3939.01	102.97	543.71	420.66	1.29	PASS
11520.00†	6843.50	756.62	-4048.15	11670.56	6965.55	1285.54	-4038.99	103.00	542.90	429.54	1.26	PASS
11620.00†	6843.06	759.29	-4148.11	11770.55	6965.15	1287.36	-4138.97	103.02	542.08	438.43	1.24	PASS
11720.00†	6842.61	761.96	-4248.08	11870.55	6964.76	1289.19	-4238.95	103.05	541.27	447.31	1.21	PASS
11820.00†	6842.17	764.63	-4348.04	11970.55	6964.37	1291.01	-4338.93	103.07	540.45	456.20	1.18	PASS
11920.00†	6841.73	767.30	-4448.00	12070.54	6963.97	1292.83	-4438.91	103.10	539.64	465.09	1.16	PASS
12020.00†	6841.29	769.97	-4547.97	12170.54	6963.58	1294.65	-4538.89	103.12	538.82	473.98	1.14	PASS
12120.00†	6840.85	772.63	-4647.93	12270.54	6963.18	1296.47	-4638.87	103.15	538.01	482.88	1.11	PASS
12220.00†	6840.40	775.30	-4747.89	12370.53	6962.79	1298.30	-4738.85	103.17	537.20	491.77	1.09	PASS
12320.00†	6839.96	777.97	-4847.86	12470.53	6962.39	1300.12	-4838.83	103.20	536.38	500.67	1.07	PASS
12420.00†	6839.52	780.64	-4947.82	12570.52	6962.00	1301.94	-4938.80	103.22	535.57	509.56	1.05	PASS
12520.00†	6839.08	783.31	-5047.78	12670.52	6961.60	1303.76	-5038.78	103.25	534.76	518.46	1.03	PASS
12620.00†	6838.64	785.98	-5147.75	12770.52	6961.21	1305.58	-5138.76	103.27	533.94	527.36	1.01	PASS
12720.00†	6838.19	788.65	-5247.71	12870.51	6960.82	1307.41	-5238.74	103.30	533.13	536.26	0.99	FAIL
12820.00†	6837.75	791.32	-5347.68	12970.51	6960.42	1309.23	-5338.72	103.33	532.32	545.16	0.98	FAIL
12920.00†	6837.31	793.98	-5447.64	13070.51	6960.03	1311.05	-5438.70	103.35	531.50	554.06	0.96	FAIL
13020.00†	6836.87	796.65	-5547.60	13170.50	6959.63	1312.87	-5538.68	103.38	530.69	562.96	0.94	FAIL
13120.00†	6836.43	799.32	-5647.57	13270.50	6959.24	1314.69	-5638.66	103.40	529.88	571.86	0.93	FAIL
13220.00†	6835.98	801.99	-5747.53	13370.50	6958.84	1316.52	-5738.64	103.43	529.07	580.75	0.91	FAIL
13320.00†	6835.54	804.66	-5847.49	13470.49	6958.45	1318.34	-5838.62	103.46	528.25	589.65	0.90	FAIL
13420.00†	6835.10	807.33	-5947.46	13570.49	6958.06	1320.16	-5938.59	103.48	527.44	598.55	0.88	FAIL
13520.00†	6834.66	810.00	-6047.42	13670.49	6957.66	1321.98	-6038.57	103.51	526.63	607.45	0.87	FAIL
13620.00†	6834.22	812.66	-6147.38	13770.48	6957.27	1323.80	-6138.55	103.54	525.82	616.35	0.85	FAIL
13720.00†	6833.77	815.33	-6247.35	13870.48	6956.87	1325.63	-6238.53	103.56	525.00	625.24	0.84	FAIL
13820.00†	6833.33	818.00	-6347.31	13970.47	6956.48	1327.45	-6338.51	103.59	524.19	634.14	0.83	FAIL
13920.00†	6832.89	820.67	-6447.27	14070.47	6956.08	1329.27	-6438.49	103.62	523.38	643.03	0.81	FAIL
14020.00†	6832.45	823.34	-6547.24	14170.47	6955.69	1331.09	-6538.47	103.64	522.57	651.93	0.80	FAIL
14120.00†	6832.01	826.01	-6647.20	14270.46	6955.30	1332.91	-6638.45	103.67	521.76	660.82	0.79	FAIL
14220.00†	6831.57	828.68	-6747.16	14370.46	6954.90	1334.74	-6738.43	103.70	520.95	669.71	0.78	FAIL
14320.00†	6831.12	831.34	-6847.13	14470.46	6954.51	1336.56	-6838.41	103.73	520.13	678.60	0.77	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 55 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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 PWB (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
14420.00†	6830.68	834.01	-6947.09	14570.45	6954.11	1338.38	-6938.39	103.75	519.32	687.49	0.76	FAIL
14520.00†	6830.24	836.68	-7047.05	14670.45	6953.72	1340.20	-7038.36	103.78	518.51	696.38	0.74	FAIL
14620.00†	6829.80	839.35	-7147.02	14770.45	6953.32	1342.02	-7138.34	103.81	517.70	705.27	0.73	FAIL
14720.00†	6829.36	842.02	-7246.98	14870.44	6952.93	1343.85	-7238.32	103.84	516.89	714.16	0.72	FAIL
14820.00†	6828.91	844.69	-7346.94	14970.44	6952.54	1345.67	-7338.30	103.86	516.08	723.04	0.71	FAIL
14920.00†	6828.47	847.36	-7446.91	15070.43	6952.14	1347.49	-7438.28	103.89	515.27	731.92	0.70	FAIL
15020.00†	6828.03	850.03	-7546.87	15170.43	6951.75	1349.31	-7538.26	103.92	514.46	740.81	0.69	FAIL
15120.00†	6827.59	852.69	-7646.83	15270.43	6951.35	1351.13	-7638.24	103.95	513.65	749.69	0.68	FAIL
15220.00†	6827.15	855.36	-7746.80	15370.42	6950.96	1352.95	-7738.22	103.97	512.84	758.56	0.68	FAIL
15320.00†	6826.70	858.03	-7846.76	15470.42	6950.56	1354.78	-7838.20	104.00	512.03	767.44	0.67	FAIL
15420.00†	6826.26	860.70	-7946.72	15570.42	6950.17	1356.60	-7938.18	104.03	511.22	776.32	0.66	FAIL
15520.00†	6825.82	863.37	-8046.69	15670.41	6949.78	1358.42	-8038.15	104.06	510.41	785.19	0.65	FAIL
15620.00†	6825.38	866.04	-8146.65	15770.41	6949.38	1360.24	-8138.13	104.09	509.60	794.06	0.64	FAIL
15720.00†	6824.94	868.71	-8246.61	15870.41	6948.99	1362.06	-8238.11	104.12	508.79	802.93	0.63	FAIL
15820.00†	6824.49	871.37	-8346.58	15970.40	6948.59	1363.89	-8338.09	104.14	507.98	811.80	0.63	FAIL
15920.00†	6824.05	874.04	-8446.54	16070.40	6948.20	1365.71	-8438.07	104.17	507.17	820.66	0.62	FAIL
16020.00†	6823.61	876.71	-8546.50	16170.40	6947.80	1367.53	-8538.05	104.20	506.36	829.53	0.61	FAIL
16120.00†	6823.17	879.38	-8646.47	16270.39	6947.41	1369.35	-8638.03	104.23	505.55	838.39	0.60	FAIL
16220.00†	6822.73	882.05	-8746.43	16370.39	6947.02	1371.17	-8738.01	104.26	504.74	847.25	0.60	FAIL
16320.00†	6822.28	884.72	-8846.39	16470.38	6946.62	1373.00	-8837.99	104.29	503.93	856.10	0.59	FAIL
16420.00†	6821.84	887.39	-8946.36	16570.38	6946.23	1374.82	-8937.97	104.32	503.12	864.96	0.58	FAIL
16520.00†	6821.40	890.06	-9046.32	16670.38	6945.83	1376.64	-9037.94	104.35	502.31	873.81	0.57	FAIL
16620.00†	6820.96	892.72	-9146.28	16770.37	6945.44	1378.46	-9137.92	104.37	501.51	882.66	0.57	FAIL
16720.00†	6820.52	895.39	-9246.25	16870.37	6945.04	1380.28	-9237.90	104.40	500.70	891.51	0.56	FAIL
16820.00†	6820.07	898.06	-9346.21	16970.37	6944.65	1382.11	-9337.88	104.43	499.89	900.36	0.55	FAIL
16920.00†	6819.63	900.73	-9446.17	17070.36	6944.26	1383.93	-9437.86	104.46	499.08	909.20	0.55	FAIL
16992.21†	6819.31	902.66	-9518.36	17135.10	6944.00	1385.11	-9502.58	104.48	498.55	915.12	0.54	FAIL
17020.00†	6819.19	903.40	-9546.14	17135.10	6944.00	1385.11	-9502.58	104.48	499.52	914.07	0.55	FAIL
17063.18	6819.00	904.55	-9589.31	17135.10	6944.00	1385.11	-9502.58	104.48	504.06	906.62	0.56	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 56 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	24.43	-0.38	87.93	46.83
9.625in Casing Surface	20.00	1750.00	1730.00	21.00	1724.80	24.43	-0.38	87.93	46.83
8.5in Open Hole	1750.00	17135.10	15385.10	1724.80	6944.00	87.93	46.83	434.40	-2896.58

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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 57 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-39.77	0.54	179.22	39.77	1.56	64.69	PASS
120.00†	120.00	0.00	0.00	120.00	120.00	-39.77	0.54	179.22	39.77	1.88	42.20	PASS
220.00†	220.00	0.00	0.00	220.00	220.00	-39.77	0.54	179.22	39.77	2.45	26.09	PASS
320.00†	320.00	0.00	0.00	320.00	320.00	-39.77	0.54	179.22	39.77	3.05	18.57	PASS
350.00	350.00	0.00	0.00	350.00	350.00	-39.77	0.54	179.22	39.77	3.24	17.08	PASS
420.00†	419.99	0.58	0.63	419.99	419.99	-39.77	0.54	132.94	40.35	3.69	14.43	PASS
520.00†	519.90	3.43	3.70	520.27	520.27	-39.52	1.36	135.91	43.01	4.56	11.70	PASS
620.00†	619.60	8.64	9.32	620.76	620.65	-38.26	5.40	137.57	47.08	5.59	9.98	PASS
720.00†	718.97	16.22	17.50	721.27	720.87	-35.96	12.80	137.92	52.43	6.59	9.15	PASS
820.00†	817.89	26.15	28.21	821.79	820.75	-32.62	23.55	137.29	59.03	7.54	8.83	PASS
890.85	887.64	34.60	37.33	892.62	890.92	-29.75	32.79	136.73	64.60	8.16	8.84	PASS
920.00†	916.27	38.32	41.34	921.66	919.67	-28.56	36.63	136.73	67.14	8.39	8.91	PASS
1020.00†	1014.50	51.08	55.11	1021.28	1018.34	-24.48	49.78	136.72	75.84	9.19	9.11	PASS
1120.00†	1112.72	63.84	68.87	1120.90	1117.00	-20.39	62.94	136.72	84.55	10.03	9.22	PASS
1220.00†	1210.94	76.60	82.63	1220.52	1215.66	-16.30	76.09	136.72	93.25	10.92	9.27	PASS
1320.00†	1309.17	89.36	96.40	1320.14	1314.33	-12.22	89.25	136.72	101.96	11.83	9.29	PASS
1420.00†	1407.39	102.11	110.16	1419.76	1412.99	-8.13	102.40	136.72	110.66	12.76	9.30	PASS
1520.00†	1505.61	114.87	123.93	1519.38	1511.65	-4.05	115.56	136.72	119.37	13.71	9.29	PASS
1620.00†	1603.84	127.63	137.69	1619.00	1610.32	0.04	128.71	136.72	128.07	14.67	9.27	PASS
1720.00†	1702.06	140.39	151.45	1718.62	1708.98	4.13	141.87	136.72	136.78	15.64	9.25	PASS
1820.00†	1800.28	153.15	165.22	1818.24	1807.64	8.21	155.03	136.72	145.48	15.90	9.53	PASS
1920.00†	1898.51	165.91	178.98	1917.86	1906.31	12.30	168.18	136.72	154.18	16.00	10.03	PASS
2020.00†	1996.73	178.66	192.74	2017.48	2004.97	16.38	181.34	136.72	162.89	16.18	10.48	PASS
2120.00†	2094.95	191.42	206.51	2117.11	2103.63	20.47	194.49	136.71	171.59	16.43	10.87	PASS
2220.00†	2193.18	204.18	220.27	2216.73	2202.30	24.56	207.65	136.71	180.30	16.76	11.19	PASS
2320.00†	2291.40	216.94	234.04	2316.35	2300.96	28.64	220.80	136.71	189.00	17.16	11.45	PASS
2420.00†	2389.62	229.70	247.80	2415.97	2399.63	32.73	233.96	136.71	197.71	17.62	11.65	PASS
2520.00†	2487.85	242.45	261.56	2515.59	2498.29	36.81	247.11	136.71	206.41	18.15	11.80	PASS
2620.00†	2586.07	255.21	275.33	2615.21	2596.95	40.90	260.27	136.71	215.12	18.73	11.90	PASS
2720.00†	2684.29	267.97	289.09	2714.83	2695.62	44.99	273.42	136.71	223.82	19.35	11.97	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 58 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2814.45	2794.28	49.07	286.58	136.71	232.53	20.03	12.00	PASS
2920.00†	2880.74	293.49	316.62	2914.07	2892.94	53.16	299.73	136.71	241.23	20.74	12.01	PASS
3020.00†	2978.96	306.25	330.38	3013.69	2991.61	57.24	312.89	136.71	249.94	21.49	11.99	PASS
3120.00†	3077.18	319.00	344.15	3113.31	3090.27	61.33	326.04	136.71	258.64	22.27	11.96	PASS
3220.00†	3175.41	331.76	357.91	3212.93	3188.93	65.42	339.20	136.71	267.35	23.08	11.92	PASS
3320.00†	3273.63	344.52	371.67	3312.55	3287.60	69.50	352.35	136.71	276.05	23.92	11.86	PASS
3420.00†	3371.85	357.28	385.44	3412.17	3386.26	73.59	365.51	136.71	284.75	24.78	11.80	PASS
3520.00†	3470.08	370.04	399.20	3511.79	3484.92	77.67	378.66	136.71	293.46	25.66	11.73	PASS
3620.00†	3568.30	382.80	412.96	3611.41	3583.59	81.76	391.82	136.71	302.16	26.56	11.66	PASS
3720.00†	3666.52	395.55	426.73	3711.03	3682.25	85.85	404.97	136.71	310.87	27.48	11.59	PASS
3820.00†	3764.75	408.31	440.49	3810.65	3780.91	89.93	418.13	136.71	319.57	28.41	11.51	PASS
3920.00†	3862.97	421.07	454.26	3910.27	3879.58	94.02	431.28	136.71	328.28	29.36	11.43	PASS
4020.00†	3961.19	433.83	468.02	4009.89	3978.24	98.10	444.44	136.71	336.98	30.32	11.36	PASS
4120.00†	4059.42	446.59	481.78	4109.51	4076.90	102.19	457.59	136.71	345.69	31.29	11.28	PASS
4220.00†	4157.64	459.34	495.55	4209.13	4175.57	106.28	470.75	136.71	354.39	32.26	11.21	PASS
4320.00†	4255.86	472.10	509.31	4308.75	4274.23	110.36	483.90	136.71	363.10	33.25	11.14	PASS
4420.00†	4354.09	484.86	523.08	4408.37	4372.89	114.45	497.06	136.71	371.80	34.25	11.06	PASS
4520.00†	4452.31	497.62	536.84	4508.00	4471.56	118.53	510.22	136.71	380.51	35.25	10.99	PASS
4620.00†	4550.53	510.38	550.60	4607.62	4570.22	122.62	523.37	136.71	389.21	36.27	10.93	PASS
4720.00†	4648.75	523.14	564.37	4707.24	4668.88	126.71	536.53	136.71	397.92	37.29	10.86	PASS
4820.00†	4746.98	535.89	578.13	4806.86	4767.55	130.79	549.68	136.71	406.62	38.31	10.80	PASS
4920.00†	4845.20	548.65	591.89	4906.48	4866.21	134.88	562.84	136.71	415.33	39.34	10.73	PASS
5020.00†	4943.42	561.41	605.66	5006.10	4964.87	138.96	575.99	136.71	424.03	40.37	10.67	PASS
5120.00†	5041.65	574.17	619.42	5105.72	5063.54	143.05	589.15	136.71	432.73	41.41	10.61	PASS
5220.00†	5139.87	586.93	633.19	5205.34	5162.20	147.14	602.30	136.71	441.44	42.46	10.56	PASS
5320.00†	5238.09	599.68	646.95	5304.96	5260.86	151.22	615.46	136.71	450.14	43.51	10.50	PASS
5420.00†	5336.32	612.44	660.71	5404.58	5359.53	155.31	628.61	136.71	458.85	44.56	10.45	PASS
5520.00†	5434.54	625.20	674.48	5504.20	5458.19	159.39	641.77	136.71	467.55	45.61	10.40	PASS
5620.00†	5532.76	637.96	688.24	5603.82	5556.86	163.48	654.92	136.71	476.26	46.67	10.35	PASS
5720.00†	5630.99	650.72	702.00	5703.44	5655.52	167.57	668.08	136.71	484.96	47.73	10.30	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 59 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5803.06	5754.18	171.65	681.23	136.71	493.67	48.80	10.25	PASS
5920.00†	5827.43	676.23	729.53	5902.68	5852.85	175.74	694.39	136.71	502.37	49.86	10.21	PASS
6020.00†	5925.66	688.99	743.30	6002.30	5951.51	179.82	707.54	136.71	511.08	50.93	10.16	PASS
6120.00†	6023.88	701.75	757.06	6101.92	6050.17	183.91	720.70	136.71	519.78	52.00	10.12	PASS
6220.00†	6122.10	714.51	770.82	6201.54	6148.84	188.00	733.85	136.71	528.49	53.08	10.08	PASS
6237.28	6139.07	716.71	773.20	6218.76	6165.88	188.70	736.13	136.71	529.99	53.26	10.07	PASS
6320.00†	6220.86	727.06	779.25	6300.98	6247.32	192.07	746.98	179.56	536.61	54.18	10.02	PASS
6420.00†	6319.82	738.83	772.25	6401.46	6346.88	196.27	759.81	-125.95	543.37	55.50	9.90	PASS
6520.00†	6416.56	749.52	749.77	6514.53	6459.58	203.31	760.70	-110.07	548.02	57.15	9.70	PASS
6620.00†	6508.72	758.88	712.36	6633.17	6575.81	214.10	740.47	-105.52	549.62	58.77	9.45	PASS
6720.00†	6594.01	766.68	660.94	6757.03	6690.65	228.70	697.00	-104.54	547.78	59.98	9.23	PASS
6820.00†	6670.34	772.71	596.78	6885.24	6798.00	246.81	629.68	-105.03	542.17	61.72	8.87	PASS
6920.00†	6735.84	776.83	521.46	7016.51	6891.27	267.76	540.06	-106.22	532.60	64.30	8.36	PASS
7020.00†	6788.88	778.95	436.83	7149.17	6964.44	290.50	432.06	-107.73	519.07	67.57	7.75	PASS
7120.00†	6828.16	779.00	344.98	7281.45	7013.16	313.78	311.55	-109.32	501.78	72.74	6.96	PASS
7220.00†	6852.71	776.99	248.17	7411.76	7035.44	336.31	185.40	-110.86	481.17	78.15	6.20	PASS
7320.00†	6861.94	772.97	148.78	7520.14	7036.94	354.30	78.56	-112.73	459.18	83.32	5.55	PASS
7332.14	6862.00	772.35	136.65	7532.00	7036.93	356.25	66.86	-113.06	456.73	83.91	5.48	PASS
7420.00†	6861.61	767.75	48.92	7616.44	7036.85	370.17	-16.43	-114.05	439.37	88.13	5.02	PASS
7520.00†	6861.17	762.51	-50.94	7702.63	7036.77	382.84	-101.68	-115.04	421.38	93.04	4.56	PASS
7620.00†	6860.73	757.28	-150.80	7789.80	7036.69	393.03	-188.25	-115.97	406.25	98.23	4.16	PASS
7720.00†	6860.29	752.05	-250.67	7877.80	7036.61	400.65	-275.92	-116.79	393.97	103.64	3.82	PASS
7820.00†	6859.85	746.81	-350.53	7966.48	7036.53	405.59	-364.46	-117.48	384.51	109.25	3.54	PASS
7920.00†	6859.40	741.58	-450.39	8055.67	7036.45	407.80	-453.62	-118.00	377.84	115.04	3.30	PASS
8020.00†	6858.96	736.35	-550.25	8153.05	7036.36	408.05	-550.99	-118.43	373.16	121.37	3.09	PASS
8120.00†	6858.52	731.11	-650.11	8252.90	7036.27	408.22	-650.84	-118.88	368.58	127.89	2.89	PASS
8220.00†	6858.08	725.88	-749.98	8352.76	7036.18	408.40	-750.70	-119.34	364.02	134.49	2.72	PASS
8320.00†	6857.64	720.65	-849.84	8452.61	7036.08	408.57	-850.55	-119.81	359.49	141.12	2.56	PASS
8420.00†	6857.20	715.41	-949.70	8552.46	7035.99	408.75	-950.40	-120.29	354.98	147.77	2.41	PASS
8520.00†	6856.75	710.18	-1049.56	8652.31	7035.90	408.93	-1050.26	-120.79	350.50	154.41	2.28	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 60 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	6856.31	704.95	-1149.42	8752.17	7035.81	409.10	-1150.11	-121.29	346.04	161.03	2.15	PASS
8720.00†	6855.87	699.71	-1249.29	8852.02	7035.72	409.28	-1249.96	-121.82	341.61	167.62	2.04	PASS
8820.00†	6855.43	694.48	-1349.15	8951.87	7035.63	409.45	-1349.81	-122.35	337.21	174.14	1.94	PASS
8832.14	6855.38	693.84	-1361.28	8964.00	7035.62	409.47	-1361.94	-122.42	336.68	174.93	1.93	PASS
8920.00†	6854.99	690.59	-1449.07	9051.79	7035.53	409.63	-1449.73	-122.74	333.97	180.82	1.85	PASS
9020.00†	6854.55	690.17	-1549.06	9151.78	7035.44	409.80	-1549.72	-122.83	333.66	188.05	1.78	PASS
9058.60	6854.38	690.94	-1587.65	9190.37	7035.41	409.87	-1588.31	-122.79	334.32	191.00	1.75	PASS
9120.00†	6854.10	692.58	-1649.03	9251.75	7035.35	409.98	-1649.69	-122.68	335.73	195.78	1.72	PASS
9220.00†	6853.66	695.24	-1748.99	9351.72	7035.26	410.16	-1749.66	-122.50	338.01	203.61	1.66	PASS
9320.00†	6853.22	697.91	-1848.96	9451.69	7035.17	410.33	-1849.63	-122.32	340.31	211.49	1.61	PASS
9420.00†	6852.78	700.58	-1948.92	9551.66	7035.08	410.51	-1949.60	-122.15	342.60	219.42	1.56	PASS
9520.00†	6852.34	703.25	-2048.88	9651.62	7034.99	410.68	-2049.56	-121.98	344.90	227.40	1.52	PASS
9620.00†	6851.89	705.92	-2148.85	9751.59	7034.89	410.86	-2149.53	-121.81	347.20	235.42	1.48	PASS
9720.00†	6851.45	708.59	-2248.81	9851.56	7034.80	411.03	-2249.50	-121.64	349.51	243.48	1.44	PASS
9820.00†	6851.01	711.26	-2348.77	9951.53	7034.71	411.21	-2349.47	-121.48	351.81	251.57	1.40	PASS
9920.00†	6850.57	713.92	-2448.74	10051.50	7034.62	411.39	-2449.44	-121.32	354.12	259.71	1.36	PASS
10020.00†	6850.13	716.59	-2548.70	10151.47	7034.53	411.56	-2549.41	-121.16	356.44	267.87	1.33	PASS
10120.00†	6849.68	719.26	-2648.66	10251.43	7034.44	411.74	-2649.37	-121.00	358.75	276.07	1.30	PASS
10220.00†	6849.24	721.93	-2748.63	10351.40	7034.34	411.91	-2749.34	-120.84	361.07	284.30	1.27	PASS
10320.00†	6848.80	724.60	-2848.59	10451.37	7034.25	412.09	-2849.31	-120.69	363.39	292.55	1.24	PASS
10420.00†	6848.36	727.27	-2948.55	10551.34	7034.16	412.27	-2949.28	-120.54	365.72	300.84	1.22	PASS
10520.00†	6847.92	729.94	-3048.52	10651.31	7034.07	412.44	-3049.25	-120.39	368.04	309.15	1.19	PASS
10620.00†	6847.48	732.60	-3148.48	10751.28	7033.98	412.62	-3149.21	-120.24	370.37	317.48	1.17	PASS
10720.00†	6847.03	735.27	-3248.44	10851.24	7033.89	412.79	-3249.18	-120.09	372.70	325.84	1.14	PASS
10820.00†	6846.59	737.94	-3348.41	10951.21	7033.80	412.97	-3349.15	-119.95	375.04	334.22	1.12	PASS
10920.00†	6846.15	740.61	-3448.37	11051.18	7033.70	413.14	-3449.12	-119.80	377.37	342.62	1.10	PASS
11020.00†	6845.71	743.28	-3548.33	11151.15	7033.61	413.32	-3549.09	-119.66	379.71	351.05	1.08	PASS
11120.00†	6845.27	745.95	-3648.30	11251.12	7033.52	413.50	-3649.05	-119.52	382.05	359.49	1.06	PASS
11220.00†	6844.82	748.62	-3748.26	11351.09	7033.43	413.67	-3749.02	-119.39	384.40	367.95	1.04	PASS
11320.00†	6844.38	751.29	-3848.22	11451.05	7033.34	413.85	-3848.99	-119.25	386.74	376.43	1.03	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Closest Approach

Page 61 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
11420.00†	6843.94	753.95	-3948.19	11551.02	7033.25	414.02	-3948.96	-119.12	389.09	384.93	1.01	PASS
11520.00†	6843.50	756.62	-4048.15	11650.99	7033.15	414.20	-4048.93	-118.98	391.44	393.45	0.99	FAIL
11620.00†	6843.06	759.29	-4148.11	11750.96	7033.06	414.37	-4148.89	-118.85	393.79	401.98	0.98	FAIL
11720.00†	6842.61	761.96	-4248.08	11850.93	7032.97	414.55	-4248.86	-118.72	396.14	410.53	0.96	FAIL
11820.00†	6842.17	764.63	-4348.04	11950.90	7032.88	414.73	-4348.83	-118.59	398.50	419.09	0.95	FAIL
11920.00†	6841.73	767.30	-4448.00	12050.86	7032.79	414.90	-4448.80	-118.47	400.86	427.67	0.94	FAIL
12020.00†	6841.29	769.97	-4547.97	12150.83	7032.70	415.08	-4548.77	-118.34	403.22	436.27	0.92	FAIL
12120.00†	6840.85	772.63	-4647.93	12250.80	7032.60	415.25	-4648.74	-118.22	405.58	444.87	0.91	FAIL
12220.00†	6840.40	775.30	-4747.89	12350.77	7032.51	415.43	-4748.70	-118.10	407.94	453.49	0.90	FAIL
12320.00†	6839.96	777.97	-4847.86	12450.74	7032.42	415.61	-4848.67	-117.98	410.31	462.13	0.89	FAIL
12420.00†	6839.52	780.64	-4947.82	12550.71	7032.33	415.78	-4948.64	-117.86	412.67	470.77	0.88	FAIL
12520.00†	6839.08	783.31	-5047.78	12650.67	7032.24	415.96	-5048.61	-117.74	415.04	479.43	0.87	FAIL
12620.00†	6838.64	785.98	-5147.75	12750.64	7032.15	416.13	-5148.58	-117.62	417.41	488.10	0.85	FAIL
12720.00†	6838.19	788.65	-5247.71	12850.61	7032.06	416.31	-5248.54	-117.51	419.78	496.79	0.84	FAIL
12820.00†	6837.75	791.32	-5347.68	12950.58	7031.96	416.48	-5348.51	-117.39	422.16	505.48	0.83	FAIL
12920.00†	6837.31	793.98	-5447.64	13050.55	7031.87	416.66	-5448.48	-117.28	424.53	514.18	0.83	FAIL
13020.00†	6836.87	796.65	-5547.60	13150.52	7031.78	416.84	-5548.45	-117.17	426.91	522.90	0.82	FAIL
13120.00†	6836.43	799.32	-5647.57	13250.48	7031.69	417.01	-5648.42	-117.06	429.29	531.62	0.81	FAIL
13220.00†	6835.98	801.99	-5747.53	13350.45	7031.60	417.19	-5748.38	-116.95	431.67	540.36	0.80	FAIL
13320.00†	6835.54	804.66	-5847.49	13450.42	7031.51	417.36	-5848.35	-116.84	434.05	549.10	0.79	FAIL
13420.00†	6835.10	807.33	-5947.46	13550.39	7031.41	417.54	-5948.32	-116.73	436.43	557.86	0.78	FAIL
13520.00†	6834.66	810.00	-6047.42	13650.36	7031.32	417.71	-6048.29	-116.63	438.82	566.62	0.77	FAIL
13620.00†	6834.22	812.66	-6147.38	13750.33	7031.23	417.89	-6148.26	-116.52	441.20	575.39	0.77	FAIL
13720.00†	6833.77	815.33	-6247.35	13850.29	7031.14	418.07	-6248.23	-116.42	443.59	584.18	0.76	FAIL
13820.00†	6833.33	818.00	-6347.31	13950.26	7031.05	418.24	-6348.19	-116.32	445.98	592.97	0.75	FAIL
13920.00†	6832.89	820.67	-6447.27	14050.23	7030.96	418.42	-6448.16	-116.22	448.37	601.76	0.74	FAIL
14020.00†	6832.45	823.34	-6547.24	14150.20	7030.87	418.59	-6548.13	-116.12	450.76	610.57	0.74	FAIL
14120.00†	6832.01	826.01	-6647.20	14250.17	7030.77	418.77	-6648.10	-116.02	453.16	619.38	0.73	FAIL
14220.00†	6831.57	828.68	-6747.16	14350.14	7030.68	418.95	-6748.07	-115.92	455.55	628.20	0.72	FAIL
14320.00†	6831.12	831.34	-6847.13	14450.10	7030.59	419.12	-6848.03	-115.82	457.95	637.03	0.72	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 62 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
14420.00†	6830.68	834.01	-6947.09	14550.07	7030.50	419.30	-6948.00	-115.73	460.34	645.87	0.71	FAIL
14520.00†	6830.24	836.68	-7047.05	14650.04	7030.41	419.47	-7047.97	-115.63	462.74	654.71	0.71	FAIL
14620.00†	6829.80	839.35	-7147.02	14750.01	7030.32	419.65	-7147.94	-115.54	465.14	663.56	0.70	FAIL
14720.00†	6829.36	842.02	-7246.98	14849.98	7030.22	419.82	-7247.91	-115.45	467.54	672.41	0.69	FAIL
14820.00†	6828.91	844.69	-7346.94	14949.95	7030.13	420.00	-7347.87	-115.35	469.95	681.28	0.69	FAIL
14920.00†	6828.47	847.36	-7446.91	15049.91	7030.04	420.18	-7447.84	-115.26	472.35	690.15	0.68	FAIL
15020.00†	6828.03	850.03	-7546.87	15149.88	7029.95	420.35	-7547.81	-115.17	474.75	699.02	0.68	FAIL
15120.00†	6827.59	852.69	-7646.83	15249.85	7029.86	420.53	-7647.78	-115.08	477.16	707.90	0.67	FAIL
15220.00†	6827.15	855.36	-7746.80	15349.82	7029.77	420.70	-7747.75	-114.99	479.57	716.79	0.67	FAIL
15320.00†	6826.70	858.03	-7846.76	15449.79	7029.67	420.88	-7847.72	-114.91	481.98	725.68	0.66	FAIL
15420.00†	6826.26	860.70	-7946.72	15549.76	7029.58	421.06	-7947.68	-114.82	484.38	734.58	0.66	FAIL
15520.00†	6825.82	863.37	-8046.69	15649.72	7029.49	421.23	-8047.65	-114.73	486.79	743.48	0.65	FAIL
15620.00†	6825.38	866.04	-8146.65	15749.69	7029.40	421.41	-8147.62	-114.65	489.21	752.39	0.65	FAIL
15720.00†	6824.94	868.71	-8246.61	15849.66	7029.31	421.58	-8247.59	-114.57	491.62	761.31	0.65	FAIL
15820.00†	6824.49	871.37	-8346.58	15949.63	7029.22	421.76	-8347.56	-114.48	494.03	770.23	0.64	FAIL
15920.00†	6824.05	874.04	-8446.54	16049.60	7029.13	421.93	-8447.52	-114.40	496.45	779.15	0.64	FAIL
16020.00†	6823.61	876.71	-8546.50	16149.56	7029.03	422.11	-8547.49	-114.32	498.86	788.08	0.63	FAIL
16120.00†	6823.17	879.38	-8646.47	16249.53	7028.94	422.29	-8647.46	-114.24	501.28	797.02	0.63	FAIL
16220.00†	6822.73	882.05	-8746.43	16349.50	7028.85	422.46	-8747.43	-114.16	503.70	805.96	0.62	FAIL
16320.00†	6822.28	884.72	-8846.39	16449.47	7028.76	422.64	-8847.40	-114.08	506.11	814.90	0.62	FAIL
16420.00†	6821.84	887.39	-8946.36	16549.44	7028.67	422.81	-8947.36	-114.00	508.53	823.85	0.62	FAIL
16520.00†	6821.40	890.06	-9046.32	16649.41	7028.58	422.99	-9047.33	-113.92	510.95	832.80	0.61	FAIL
16620.00†	6820.96	892.72	-9146.28	16749.37	7028.48	423.16	-9147.30	-113.84	513.37	841.76	0.61	FAIL
16720.00†	6820.52	895.39	-9246.25	16849.34	7028.39	423.34	-9247.27	-113.77	515.80	850.72	0.61	FAIL
16820.00†	6820.07	898.06	-9346.21	16949.31	7028.30	423.52	-9347.24	-113.69	518.22	859.68	0.60	FAIL
16920.00†	6819.63	900.73	-9446.17	17049.28	7028.21	423.69	-9447.20	-113.62	520.64	868.65	0.60	FAIL
17020.00†	6819.19	903.40	-9546.14	17149.25	7028.12	423.87	-9547.17	-113.54	523.07	877.62	0.60	FAIL
17063.18†	6819.00	904.55	-9589.30	17192.41	7028.08	423.94	-9590.34	-113.51	524.12	881.50	0.59	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 63 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-24.24	0.33	-10.47	44.67
9.625in Casing Surface	20.00	1750.00	1730.00	20.00	1740.06	-24.24	0.33	-10.47	44.67
8.5in Open Hole	1750.00	17278.45	15528.45	1740.06	7028.00	-10.47	44.67	117.14	-2949.19

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 12N-2A-L PWP (REV-A.0)

Closest Approach

Page 64 of 170



REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

CLEARANCE DATA - Offset Wellbore: GREELEY-ROTHER FEDERAL 12C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12C-2-L PWP (REV-A.0)												
Facility: SEC.01-T05N-R67W Slot: SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12C-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	-19.73	0.23	179.33	19.74	1.56	31.29	PASS
120.00†	120.00	0.00	0.00	120.00	120.00	-19.73	0.23	179.33	19.74	1.89	20.37	PASS
220.00†	220.00	0.00	0.00	220.00	220.00	-19.73	0.23	179.33	19.74	2.45	12.59	PASS
320.00†	320.00	0.00	0.00	320.00	320.00	-19.73	0.23	179.33	19.74	3.06	8.96	PASS
350.00	350.00	0.00	0.00	350.00	350.00	-19.73	0.23	179.33	19.74	3.24	8.25	PASS
420.00†	419.99	0.58	0.63	420.07	420.07	-19.69	0.29	133.78	20.28	3.70	7.07	PASS
520.00†	519.90	3.43	3.70	520.49	520.45	-18.34	2.35	136.39	21.82	4.65	5.66	PASS
620.00†	619.60	8.64	9.32	620.95	620.74	-15.05	7.34	137.66	23.80	5.88	4.64	PASS
720.00†	718.97	16.22	17.50	721.47	720.80	-9.82	15.28	137.81	26.20	6.98	4.20	PASS
820.00†	817.89	26.15	28.21	822.03	820.50	-2.66	26.14	137.13	29.00	7.99	3.99	PASS
890.85	887.64	34.60	37.33	893.02	890.64	3.39	35.32	136.71	31.42	8.60	3.99	PASS
920.00†	916.27	38.32	41.34	922.14	919.40	5.90	39.14	136.92	32.65	8.83	4.03	PASS
1020.00†	1014.50	51.08	55.11	1022.06	1018.08	14.53	52.23	137.53	36.84	9.60	4.15	PASS
1120.00†	1112.72	63.84	68.87	1121.97	1116.75	23.16	65.32	138.02	41.03	10.42	4.24	PASS
1220.00†	1210.94	76.60	82.63	1221.88	1215.42	31.78	78.42	138.41	45.23	11.28	4.29	PASS
1320.00†	1309.17	89.36	96.40	1321.79	1314.10	40.41	91.51	138.74	49.43	12.14	4.34	PASS
1420.00†	1407.39	102.11	110.16	1421.70	1412.77	49.04	104.60	139.02	53.64	13.03	4.36	PASS
1520.00†	1505.61	114.87	123.93	1521.61	1511.44	57.67	117.69	139.26	57.84	13.94	4.38	PASS
1620.00†	1603.84	127.63	137.69	1621.52	1610.12	66.29	130.79	139.46	62.04	14.85	4.40	PASS
1720.00†	1702.06	140.39	151.45	1721.44	1708.79	74.92	143.88	139.64	66.25	15.77	4.41	PASS
1820.00†	1800.28	153.15	165.22	1821.35	1807.46	83.55	156.97	139.79	70.45	16.00	4.56	PASS
1920.00†	1898.51	165.91	178.98	1921.26	1906.14	92.18	170.07	139.94	74.66	16.08	4.81	PASS
2020.00†	1996.73	178.66	192.74	2021.17	2004.81	100.80	183.16	140.06	78.86	16.25	5.03	PASS
2120.00†	2094.95	191.42	206.51	2121.08	2103.48	109.43	196.25	140.17	83.07	16.50	5.21	PASS
2220.00†	2193.18	204.18	220.27	2220.99	2202.16	118.06	209.34	140.27	87.28	16.83	5.37	PASS
2320.00†	2291.40	216.94	234.04	2320.83	2300.83	126.69	222.44	140.37	91.48	17.23	5.50	PASS
2420.00†	2389.62	229.70	247.80	2420.82	2399.50	135.31	235.53	140.45	95.69	17.69	5.59	PASS
2520.00†	2487.85	242.45	261.56	2520.73	2498.18	143.94	248.62	140.53	99.90	18.21	5.67	PASS
2620.00†	2586.07	255.21	275.33	2620.64	2596.85	152.57	261.72	140.60	104.10	18.79	5.72	PASS
2720.00†	2684.29	267.97	289.09	2720.55	2695.52	161.20	274.81	140.66	108.31	19.42	5.75	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 65 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

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

Facility: SEC.01-T05N-R67W Slot: SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12C-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†	2782.51	280.73	302.85	2820.46	2794.20	169.82	287.90	140.72	112.52	20.10	5.77	PASS
2920.00†	2880.74	293.49	316.62	2920.37	2892.87	178.45	300.99	140.78	116.73	20.81	5.77	PASS
3020.00†	2978.96	306.25	330.38	3020.28	2991.54	187.08	314.09	140.83	120.93	21.57	5.76	PASS
3120.00†	3077.18	319.00	344.15	3120.19	3090.22	195.71	327.18	140.88	125.14	22.35	5.75	PASS
3220.00†	3175.41	331.76	357.91	3220.11	3188.89	204.33	340.27	140.92	129.35	23.17	5.73	PASS
3320.00†	3273.63	344.52	371.67	3320.02	3287.56	212.96	353.36	140.97	133.56	24.01	5.70	PASS
3420.00†	3371.85	357.28	385.44	3419.93	3386.24	221.59	366.46	141.01	137.77	24.87	5.67	PASS
3520.00†	3470.08	370.04	399.20	3519.84	3484.91	230.21	379.55	141.04	141.97	25.76	5.64	PASS
3620.00†	3568.30	382.80	412.96	3619.75	3583.58	238.84	392.64	141.08	146.18	26.66	5.61	PASS
3720.00†	3666.52	395.55	426.73	3719.66	3682.26	247.47	405.74	141.11	150.39	27.58	5.57	PASS
3820.00†	3764.75	408.31	440.49	3819.57	3780.93	256.10	418.83	141.14	154.60	28.52	5.53	PASS
3920.00†	3862.97	421.07	454.26	3919.49	3879.60	264.72	431.92	141.17	158.81	29.47	5.50	PASS
4020.00†	3961.19	433.83	468.02	4019.40	3978.28	273.35	445.01	141.20	163.01	30.43	5.46	PASS
4120.00†	4059.42	446.59	481.78	4119.31	4076.95	281.98	458.11	141.23	167.22	31.41	5.42	PASS
4220.00†	4157.64	459.34	495.55	4219.22	4175.62	290.61	471.20	141.25	171.43	32.39	5.39	PASS
4320.00†	4255.86	472.10	509.31	4319.13	4274.30	299.23	484.29	141.28	175.64	33.38	5.35	PASS
4420.00†	4354.09	484.86	523.08	4419.04	4372.97	307.86	497.39	141.30	179.85	34.39	5.32	PASS
4520.00†	4452.31	497.62	536.84	4518.95	4471.64	316.49	510.48	141.32	184.06	35.40	5.29	PASS
4620.00†	4550.53	510.38	550.60	4618.87	4570.32	325.12	523.57	141.35	188.27	36.41	5.25	PASS
4720.00†	4648.75	523.14	564.37	4718.78	4668.99	333.74	536.66	141.37	192.47	37.44	5.22	PASS
4820.00†	4746.98	535.89	578.13	4818.69	4767.66	342.37	549.76	141.38	196.68	38.47	5.19	PASS
4920.00†	4845.20	548.65	591.89	4918.60	4866.34	351.00	562.85	141.40	200.89	39.50	5.16	PASS
5020.00†	4943.42	561.41	605.66	5018.51	4965.01	359.63	575.94	141.42	205.10	40.54	5.13	PASS
5120.00†	5041.65	574.17	619.42	5118.42	5063.68	368.25	589.04	141.44	209.31	41.59	5.10	PASS
5220.00†	5139.87	586.93	633.19	5218.33	5162.36	376.88	602.13	141.45	213.52	42.63	5.08	PASS
5320.00†	5238.09	599.68	646.95	5318.25	5261.03	385.51	615.22	141.47	217.73	43.69	5.05	PASS
5420.00†	5336.32	612.44	660.71	5418.16	5359.70	394.14	628.31	141.49	221.93	44.74	5.02	PASS
5520.00†	5434.54	625.20	674.48	5518.07	5458.38	402.76	641.41	141.50	226.14	45.80	5.00	PASS
5620.00†	5532.76	637.96	688.24	5617.98	5557.05	411.39	654.50	141.51	230.35	46.87	4.97	PASS
5720.00†	5630.99	650.72	702.00	5717.89	5655.72	420.02	667.59	141.53	234.56	47.93	4.95	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 66 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

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

Facility: SEC.01-T05N-R67W Slot: SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12C-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†	5729.21	663.48	715.77	5817.80	5754.40	428.64	680.69	141.54	238.77	49.00	4.93	PASS
5920.00†	5827.43	676.23	729.53	5917.71	5853.07	437.27	693.78	141.55	242.98	50.08	4.91	PASS
6020.00†	5925.66	688.99	743.30	6017.62	5951.74	445.90	706.87	141.57	247.19	51.15	4.89	PASS
6120.00†	6023.88	701.75	757.06	6117.54	6050.42	454.53	719.96	141.58	251.40	52.23	4.87	PASS
6220.00†	6122.10	714.51	770.82	6217.45	6149.09	463.15	733.06	141.59	255.60	53.31	4.85	PASS
6237.28	6139.07	716.71	773.20	6234.71	6166.14	464.65	735.32	141.59	256.33	53.49	4.84	PASS
6320.00†	6220.86	727.06	779.25	6317.17	6247.58	471.77	746.12	-176.52	258.81	54.44	4.80	PASS
6420.00†	6319.82	738.83	772.25	6415.00	6344.19	480.21	758.94	-124.73	260.10	55.87	4.70	PASS
6520.00†	6416.56	749.52	749.77	6508.52	6436.56	488.29	771.20	-113.41	262.88	57.31	4.63	PASS
6620.00†	6508.72	758.88	712.36	6605.98	6533.39	496.84	776.67	-114.51	270.95	58.40	4.68	PASS
6720.00†	6594.01	766.68	660.94	6711.19	6637.51	506.22	765.87	-118.76	284.15	59.52	4.82	PASS
6820.00†	6670.34	772.71	596.78	6825.94	6747.31	516.34	734.68	-123.92	301.11	60.40	5.03	PASS
6920.00†	6735.84	776.83	521.46	6952.17	6859.45	526.95	678.18	-129.15	319.82	61.22	5.27	PASS
7020.00†	6788.88	778.95	436.83	7091.57	6967.67	537.55	591.41	-134.02	337.84	61.77	5.52	PASS
7120.00†	6828.16	779.00	344.98	7244.73	7061.76	547.27	471.41	-138.24	352.49	62.28	5.71	PASS
7220.00†	6852.71	776.99	248.17	7410.04	7128.16	554.87	320.72	-141.57	361.21	63.57	5.73	PASS
7320.00†	6861.94	772.97	148.78	7582.80	7153.93	559.09	150.48	-143.79	361.95	66.46	5.49	PASS
7332.14	6862.00	772.35	136.65	7599.87	7153.98	559.28	133.41	-143.95	361.47	66.86	5.45	PASS
7420.00†	6861.61	767.75	48.92	7687.55	7153.71	560.25	45.74	-144.68	358.32	69.14	5.23	PASS
7520.00†	6861.17	762.51	-50.94	7787.35	7153.41	561.35	-54.05	-145.52	354.80	71.85	4.98	PASS
7620.00†	6860.73	757.28	-150.80	7887.15	7153.10	562.44	-153.85	-146.38	351.36	74.66	4.74	PASS
7720.00†	6860.29	752.05	-250.67	7986.95	7152.79	563.54	-253.64	-147.26	348.00	77.52	4.52	PASS
7820.00†	6859.85	746.81	-350.53	8086.75	7152.49	564.64	-353.43	-148.16	344.72	80.37	4.32	PASS
7920.00†	6859.40	741.58	-450.39	8186.54	7152.18	565.74	-453.22	-149.07	341.54	83.18	4.13	PASS
8020.00†	6858.96	736.35	-550.25	8286.34	7151.88	566.84	-553.02	-150.00	338.44	85.91	3.96	PASS
8120.00†	6858.52	731.11	-650.11	8386.14	7151.57	567.93	-652.81	-150.95	335.43	88.53	3.81	PASS
8220.00†	6858.08	725.88	-749.98	8485.94	7151.26	569.03	-752.60	-151.91	332.51	91.01	3.67	PASS
8320.00†	6857.64	720.65	-849.84	8585.74	7150.96	570.13	-852.40	-152.89	329.69	93.34	3.55	PASS
8420.00†	6857.20	715.41	-949.70	8685.54	7150.65	571.23	-952.19	-153.89	326.97	95.50	3.44	PASS
8520.00†	6856.75	710.18	-1049.56	8785.34	7150.34	572.33	-1051.98	-154.90	324.35	97.46	3.35	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Closest Approach

Page 67 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

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

Facility: SEC.01-T05N-R67W Slot: SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12C-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†	6856.31	704.95	-1149.42	8885.14	7150.04	573.43	-1151.77	-155.93	321.83	99.22	3.26	PASS
8720.00†	6855.87	699.71	-1249.29	8984.94	7149.73	574.52	-1251.57	-156.98	319.42	100.80	3.18	PASS
8820.00†	6855.43	694.48	-1349.15	9084.74	7149.42	575.62	-1351.36	-158.04	317.12	102.02	3.12	PASS
8832.14	6855.38	693.84	-1361.28	9096.86	7149.39	575.76	-1363.48	-158.17	316.85	102.23	3.11	PASS
8920.00†	6854.99	690.59	-1449.07	9184.61	7149.12	576.72	-1451.22	-158.85	315.41	103.76	3.05	PASS
9020.00†	6854.55	690.17	-1549.06	9284.59	7148.81	577.82	-1551.20	-159.10	314.99	106.65	2.97	PASS
9058.60	6854.38	690.94	-1587.65	9323.19	7148.69	578.25	-1589.80	-159.04	315.16	108.14	2.93	PASS
9120.00†	6854.10	692.58	-1649.03	9384.58	7148.50	578.92	-1651.18	-158.89	315.58	110.71	2.86	PASS
9220.00†	6853.66	695.24	-1748.99	9484.57	7148.20	580.02	-1751.16	-158.63	316.28	114.98	2.76	PASS
9320.00†	6853.22	697.91	-1848.96	9584.56	7147.89	581.12	-1851.15	-158.38	316.98	119.33	2.67	PASS
9420.00†	6852.78	700.58	-1948.92	9684.54	7147.58	582.22	-1951.13	-158.12	317.68	123.77	2.58	PASS
9520.00†	6852.34	703.25	-2048.88	9784.53	7147.28	583.32	-2051.11	-157.87	318.40	128.30	2.49	PASS
9620.00†	6851.89	705.92	-2148.85	9884.52	7146.97	584.42	-2151.09	-157.62	319.12	132.90	2.41	PASS
9720.00†	6851.45	708.59	-2248.81	9984.51	7146.66	585.52	-2251.07	-157.37	319.84	137.59	2.33	PASS
9820.00†	6851.01	711.26	-2348.77	10084.50	7146.36	586.62	-2351.05	-157.12	320.57	142.35	2.26	PASS
9920.00†	6850.57	713.92	-2448.74	10184.48	7146.05	587.72	-2451.03	-156.87	321.31	147.19	2.19	PASS
10020.00†	6850.13	716.59	-2548.70	10284.47	7145.74	588.82	-2551.01	-156.62	322.05	152.10	2.12	PASS
10120.00†	6849.68	719.26	-2648.66	10384.46	7145.43	589.92	-2650.99	-156.38	322.80	157.09	2.06	PASS
10220.00†	6849.24	721.93	-2748.63	10484.45	7145.13	591.02	-2750.98	-156.13	323.56	162.14	2.00	PASS
10320.00†	6848.80	724.60	-2848.59	10584.43	7144.82	592.12	-2850.96	-155.89	324.32	167.27	1.94	PASS
10420.00†	6848.36	727.27	-2948.55	10684.42	7144.51	593.22	-2950.94	-155.65	325.09	172.46	1.89	PASS
10520.00†	6847.92	729.94	-3048.52	10784.41	7144.21	594.33	-3050.92	-155.40	325.86	177.71	1.84	PASS
10620.00†	6847.48	732.60	-3148.48	10884.40	7143.90	595.43	-3150.90	-155.16	326.64	183.04	1.79	PASS
10720.00†	6847.03	735.27	-3248.44	10984.38	7143.59	596.53	-3250.88	-154.92	327.42	188.42	1.74	PASS
10820.00†	6846.59	737.94	-3348.41	11084.37	7143.29	597.63	-3350.86	-154.69	328.21	193.87	1.70	PASS
10920.00†	6846.15	740.61	-3448.37	11184.36	7142.98	598.73	-3450.84	-154.45	329.01	199.37	1.65	PASS
11020.00†	6845.71	743.28	-3548.33	11284.35	7142.67	599.83	-3550.82	-154.21	329.81	204.94	1.61	PASS
11120.00†	6845.27	745.95	-3648.30	11384.33	7142.36	600.93	-3650.81	-153.98	330.61	210.57	1.57	PASS
11220.00†	6844.82	748.62	-3748.26	11484.32	7142.06	602.03	-3750.79	-153.75	331.43	216.25	1.53	PASS
11320.00†	6844.38	751.29	-3848.22	11584.31	7141.75	603.13	-3850.77	-153.51	332.24	222.00	1.50	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Closest Approach

Page 68 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

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

Facility: SEC.01-T05N-R67W Slot: SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12C-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
11420.00†	6843.94	753.95	-3948.19	11684.30	7141.44	604.23	-3950.75	-153.28	333.07	227.80	1.46	PASS
11520.00†	6843.50	756.62	-4048.15	11784.28	7141.14	605.33	-4050.73	-153.05	333.90	233.65	1.43	PASS
11620.00†	6843.06	759.29	-4148.11	11884.27	7140.83	606.43	-4150.71	-152.82	334.73	239.56	1.40	PASS
11720.00†	6842.61	761.96	-4248.08	11984.26	7140.52	607.53	-4250.69	-152.60	335.57	245.52	1.37	PASS
11820.00†	6842.17	764.63	-4348.04	12084.25	7140.22	608.63	-4350.67	-152.37	336.41	251.53	1.34	PASS
11920.00†	6841.73	767.30	-4448.00	12184.23	7139.91	609.73	-4450.65	-152.14	337.26	257.60	1.31	PASS
12020.00†	6841.29	769.97	-4547.97	12284.22	7139.60	610.83	-4550.64	-151.92	338.12	263.72	1.28	PASS
12120.00†	6840.85	772.63	-4647.93	12384.21	7139.30	611.93	-4650.62	-151.70	338.98	269.89	1.26	PASS
12220.00†	6840.40	775.30	-4747.89	12484.20	7138.99	613.03	-4750.60	-151.47	339.84	276.11	1.23	PASS
12320.00†	6839.96	777.97	-4847.86	12584.19	7138.68	614.13	-4850.58	-151.25	340.71	282.37	1.21	PASS
12420.00†	6839.52	780.64	-4947.82	12684.17	7138.37	615.23	-4950.56	-151.03	341.59	288.69	1.18	PASS
12520.00†	6839.08	783.31	-5047.78	12784.16	7138.07	616.33	-5050.54	-150.82	342.47	295.06	1.16	PASS
12620.00†	6838.64	785.98	-5147.75	12884.15	7137.76	617.43	-5150.52	-150.60	343.35	301.47	1.14	PASS
12720.00†	6838.19	788.65	-5247.71	12984.14	7137.45	618.53	-5250.50	-150.38	344.24	307.92	1.12	PASS
12820.00†	6837.75	791.32	-5347.68	13084.12	7137.15	619.63	-5350.48	-150.17	345.14	314.43	1.10	PASS
12920.00†	6837.31	793.98	-5447.64	13184.11	7136.84	620.73	-5450.46	-149.95	346.04	320.97	1.08	PASS
13020.00†	6836.87	796.65	-5547.60	13284.10	7136.53	621.83	-5550.45	-149.74	346.94	327.57	1.06	PASS
13120.00†	6836.43	799.32	-5647.57	13384.09	7136.23	622.93	-5650.43	-149.53	347.85	334.20	1.04	PASS
13220.00†	6835.98	801.99	-5747.53	13484.07	7135.92	624.03	-5750.41	-149.32	348.77	340.88	1.02	PASS
13320.00†	6835.54	804.66	-5847.49	13584.06	7135.61	625.13	-5850.39	-149.11	349.68	347.61	1.01	PASS
13420.00†	6835.10	807.33	-5947.46	13684.05	7135.30	626.23	-5950.37	-148.90	350.61	354.37	0.99	FAIL
13520.00†	6834.66	810.00	-6047.42	13784.04	7135.00	627.33	-6050.35	-148.69	351.54	361.18	0.97	FAIL
13620.00†	6834.22	812.66	-6147.38	13884.02	7134.69	628.43	-6150.33	-148.48	352.47	368.02	0.96	FAIL
13720.00†	6833.77	815.33	-6247.35	13984.01	7134.38	629.53	-6250.31	-148.28	353.41	374.91	0.94	FAIL
13820.00†	6833.33	818.00	-6347.31	14084.00	7134.08	630.63	-6350.29	-148.07	354.35	381.84	0.93	FAIL
13920.00†	6832.89	820.67	-6447.27	14183.99	7133.77	631.73	-6450.28	-147.87	355.29	388.81	0.91	FAIL
14020.00†	6832.45	823.34	-6547.24	14283.97	7133.46	632.83	-6550.26	-147.67	356.24	395.81	0.90	FAIL
14120.00†	6832.01	826.01	-6647.20	14383.96	7133.16	633.93	-6650.24	-147.47	357.20	402.85	0.89	FAIL
14220.00†	6831.57	828.68	-6747.16	14483.95	7132.85	635.03	-6750.22	-147.27	358.16	409.93	0.87	FAIL
14320.00†	6831.12	831.34	-6847.13	14583.94	7132.54	636.14	-6850.20	-147.07	359.12	417.05	0.86	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 69 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

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

Facility: SEC.01-T05N-R67W Slot: SLOT#17 GREELEY-ROTHER FEDERAL 12C-2-L (1083'FSL & 294'FEL, SEC.01) Well: GREELEY-ROTHER FEDERAL 12C-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
14420.00†	6830.68	834.01	-6947.09	14683.93	7132.23	637.24	-6950.18	-146.87	360.09	424.21	0.85	FAIL
14520.00†	6830.24	836.68	-7047.05	14783.91	7131.93	638.34	-7050.16	-146.67	361.06	431.40	0.84	FAIL
14620.00†	6829.80	839.35	-7147.02	14883.90	7131.62	639.44	-7150.14	-146.48	362.04	438.62	0.83	FAIL
14720.00†	6829.36	842.02	-7246.98	14983.89	7131.31	640.54	-7250.12	-146.28	363.02	445.89	0.81	FAIL
14820.00†	6828.91	844.69	-7346.94	15083.88	7131.01	641.64	-7350.11	-146.09	364.01	453.18	0.80	FAIL
14920.00†	6828.47	847.36	-7446.91	15183.86	7130.70	642.74	-7450.09	-145.90	365.00	460.51	0.79	FAIL
15020.00†	6828.03	850.03	-7546.87	15283.85	7130.39	643.84	-7550.07	-145.71	365.99	467.88	0.78	FAIL
15120.00†	6827.59	852.69	-7646.83	15383.84	7130.09	644.94	-7650.05	-145.52	366.99	475.27	0.77	FAIL
15220.00†	6827.15	855.36	-7746.80	15483.83	7129.78	646.04	-7750.03	-145.33	367.99	482.70	0.76	FAIL
15320.00†	6826.70	858.03	-7846.76	15583.81	7129.47	647.14	-7850.01	-145.14	368.99	490.16	0.75	FAIL
15420.00†	6826.26	860.70	-7946.72	15683.80	7129.17	648.24	-7949.99	-144.95	370.00	497.66	0.74	FAIL
15520.00†	6825.82	863.37	-8046.69	15783.79	7128.86	649.34	-8049.97	-144.76	371.01	505.18	0.73	FAIL
15620.00†	6825.38	866.04	-8146.65	15883.78	7128.55	650.44	-8149.95	-144.58	372.03	512.74	0.73	FAIL
15720.00†	6824.94	868.71	-8246.61	15983.76	7128.24	651.54	-8249.94	-144.40	373.05	520.33	0.72	FAIL
15820.00†	6824.49	871.37	-8346.58	16083.75	7127.94	652.64	-8349.92	-144.21	374.08	527.94	0.71	FAIL
15920.00†	6824.05	874.04	-8446.54	16183.74	7127.63	653.74	-8449.90	-144.03	375.11	535.59	0.70	FAIL
16020.00†	6823.61	876.71	-8546.50	16283.73	7127.32	654.84	-8549.88	-143.85	376.14	543.26	0.69	FAIL
16120.00†	6823.17	879.38	-8646.47	16383.71	7127.02	655.94	-8649.86	-143.67	377.17	550.97	0.68	FAIL
16220.00†	6822.73	882.05	-8746.43	16483.70	7126.71	657.04	-8749.84	-143.49	378.21	558.70	0.68	FAIL
16320.00†	6822.28	884.72	-8846.39	16583.69	7126.40	658.14	-8849.82	-143.31	379.26	566.46	0.67	FAIL
16420.00†	6821.84	887.39	-8946.36	16683.68	7126.10	659.24	-8949.80	-143.13	380.31	574.25	0.66	FAIL
16520.00†	6821.40	890.06	-9046.32	16783.66	7125.79	660.34	-9049.78	-142.96	381.36	582.06	0.65	FAIL
16620.00†	6820.96	892.72	-9146.28	16883.65	7125.48	661.44	-9149.76	-142.78	382.41	589.91	0.65	FAIL
16720.00†	6820.52	895.39	-9246.25	16983.64	7125.17	662.54	-9249.75	-142.61	383.47	597.77	0.64	FAIL
16820.00†	6820.07	898.06	-9346.21	17083.63	7124.87	663.64	-9349.73	-142.43	384.53	605.67	0.63	FAIL
16920.00†	6819.63	900.73	-9446.17	17183.62	7124.56	664.74	-9449.71	-142.26	385.60	613.59	0.63	FAIL
17020.00†	6819.19	903.40	-9546.14	17283.60	7124.25	665.84	-9549.69	-142.09	386.66	621.53	0.62	FAIL
17063.18†	6819.00	904.55	-9589.30	17326.78	7124.12	666.32	-9592.86	-142.01	387.13	624.97	0.62	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 70 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

POSITIONAL UNCERTAINTY - Offset Wellbore: GREELEY-ROTHER FEDERAL 12C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12C-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 12C-2-L PWB Offset 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	-12.03	0.14	17.57	45.07
9.625in Casing Surface	20.00	1750.00	1730.00	20.00	1737.00	-12.03	0.14	17.57	45.07
8.5in Open Hole	1750.00	17366.24	15616.24	1737.00	7124.00	17.57	45.07	197.21	-2935.86

SURVEY PROGRAM - Offset Wellbore: GREELEY-ROTHER FEDERAL 12C-2-L PWB Offset 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

OFFSET WELLPATH REFERENCE - Offset Wellbore: GREELEY-ROTHER FEDERAL 12C-2-L PWB Offset Wellpath: GREELEY-ROTHER FEDERAL 12C-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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 71 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-59.81	0.77	179.26	59.81	1.56	98.08	PASS
120.00†	120.00	0.00	0.00	120.00	120.00	-59.81	0.77	179.26	59.81	1.88	63.98	PASS
220.00†	220.00	0.00	0.00	220.00	220.00	-59.81	0.77	179.26	59.81	2.45	39.56	PASS
320.00†	320.00	0.00	0.00	320.00	320.00	-59.81	0.77	179.26	59.81	3.05	28.15	PASS
350.00	350.00	0.00	0.00	350.00	350.00	-59.81	0.77	179.26	59.81	3.24	25.90	PASS
420.00†	419.99	0.58	0.63	419.99	419.99	-59.81	0.77	132.68	60.39	3.69	21.78	PASS
520.00†	519.90	3.43	3.70	520.05	520.05	-59.79	0.84	135.37	63.28	4.55	17.39	PASS
620.00†	619.60	8.64	9.32	620.74	620.71	-59.04	3.20	137.93	67.97	5.55	14.60	PASS
720.00†	718.97	16.22	17.50	721.54	721.32	-57.23	8.94	139.40	73.98	6.59	12.98	PASS
820.00†	817.89	26.15	28.21	822.41	821.73	-54.34	18.05	139.93	81.22	7.59	12.12	PASS
890.85	887.64	34.60	37.33	893.91	892.67	-51.65	26.55	139.85	87.07	8.25	11.81	PASS
920.00†	916.27	38.32	41.34	923.23	921.70	-50.40	30.52	139.71	89.54	8.49	11.77	PASS
1020.00†	1014.50	51.08	55.11	1022.88	1020.29	-46.05	44.26	139.11	97.90	9.22	11.74	PASS
1120.00†	1112.72	63.84	68.87	1122.52	1118.89	-41.70	58.01	138.61	106.27	10.03	11.62	PASS
1220.00†	1210.94	76.60	82.63	1222.17	1217.49	-37.35	71.75	138.19	114.65	10.89	11.45	PASS
1320.00†	1309.17	89.36	96.40	1321.82	1316.08	-33.00	85.50	137.82	123.03	11.79	11.27	PASS
1420.00†	1407.39	102.11	110.16	1421.46	1414.68	-28.65	99.24	137.50	131.42	12.72	11.10	PASS
1520.00†	1505.61	114.87	123.93	1521.11	1513.28	-24.30	112.99	137.22	139.81	13.67	10.92	PASS
1620.00†	1603.84	127.63	137.69	1620.75	1611.87	-19.95	126.73	136.96	148.20	14.65	10.76	PASS
1720.00†	1702.06	140.39	151.45	1720.40	1710.47	-15.60	140.48	136.74	156.60	15.63	10.61	PASS
1820.00†	1800.28	153.15	165.22	1820.04	1809.07	-11.25	154.22	136.54	165.00	15.90	10.81	PASS
1920.00†	1898.51	165.91	178.98	1919.69	1907.66	-6.90	167.97	136.36	173.40	16.00	11.29	PASS
2020.00†	1996.73	178.66	192.74	2019.33	2006.26	-2.55	181.72	136.19	181.80	16.19	11.70	PASS
2120.00†	2094.95	191.42	206.51	2118.98	2104.86	1.80	195.46	136.04	190.20	16.45	12.04	PASS
2220.00†	2193.18	204.18	220.27	2218.62	2203.45	6.15	209.21	135.91	198.61	16.79	12.31	PASS
2320.00†	2291.40	216.94	234.04	2318.27	2302.05	10.50	222.95	135.78	207.01	17.19	12.51	PASS
2420.00†	2389.62	229.70	247.80	2417.91	2400.65	14.85	236.70	135.66	215.42	17.67	12.66	PASS
2520.00†	2487.85	242.45	261.56	2517.56	2499.24	19.20	250.44	135.56	223.82	18.20	12.76	PASS
2620.00†	2586.07	255.21	275.33	2617.20	2597.84	23.55	264.19	135.46	232.23	18.78	12.81	PASS
2720.00†	2684.29	267.97	289.09	2716.85	2696.44	27.90	277.93	135.36	240.64	19.42	12.82	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 72 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
2820.00†	2782.51	280.73	302.85	2816.49	2795.03	32.25	291.68	135.28	249.05	20.10	12.81	PASS
2920.00†	2880.74	293.49	316.62	2916.14	2893.63	36.60	305.42	135.19	257.46	20.82	12.77	PASS
3020.00†	2978.96	306.25	330.38	3015.78	2992.23	40.94	319.17	135.12	265.87	21.58	12.71	PASS
3120.00†	3077.18	319.00	344.15	3115.43	3090.82	45.29	332.91	135.05	274.28	22.36	12.63	PASS
3220.00†	3175.41	331.76	357.91	3215.07	3189.42	49.64	346.66	134.98	282.69	23.18	12.55	PASS
3320.00†	3273.63	344.52	371.67	3314.72	3288.02	53.99	360.40	134.92	291.10	24.03	12.45	PASS
3420.00†	3371.85	357.28	385.44	3414.36	3386.61	58.34	374.15	134.86	299.51	24.89	12.36	PASS
3520.00†	3470.08	370.04	399.20	3514.01	3485.21	62.69	387.89	134.80	307.92	25.78	12.25	PASS
3620.00†	3568.30	382.80	412.96	3613.65	3583.81	67.04	401.64	134.75	316.34	26.68	12.15	PASS
3720.00†	3666.52	395.55	426.73	3713.30	3682.40	71.39	415.39	134.70	324.75	27.61	12.05	PASS
3820.00†	3764.75	408.31	440.49	3812.94	3781.00	75.74	429.13	134.65	333.16	28.55	11.94	PASS
3920.00†	3862.97	421.07	454.26	3912.59	3879.60	80.09	442.88	134.60	341.57	29.50	11.84	PASS
4020.00†	3961.19	433.83	468.02	4012.23	3978.19	84.44	456.62	134.56	349.99	30.46	11.74	PASS
4120.00†	4059.42	446.59	481.78	4111.88	4076.79	88.79	470.37	134.52	358.40	31.43	11.64	PASS
4220.00†	4157.64	459.34	495.55	4211.52	4175.39	93.14	484.11	134.48	366.81	32.42	11.54	PASS
4320.00†	4255.86	472.10	509.31	4311.17	4273.98	97.49	497.86	134.44	375.23	33.41	11.45	PASS
4420.00†	4354.09	484.86	523.08	4410.81	4372.58	101.84	511.60	134.41	383.64	34.42	11.36	PASS
4520.00†	4452.31	497.62	536.84	4510.46	4471.18	106.19	525.35	134.37	392.05	35.43	11.27	PASS
4620.00†	4550.53	510.38	550.60	4610.10	4569.77	110.54	539.09	134.34	400.47	36.44	11.19	PASS
4720.00†	4648.75	523.14	564.37	4709.75	4668.37	114.89	552.84	134.31	408.88	37.47	11.10	PASS
4820.00†	4746.98	535.89	578.13	4809.40	4766.97	119.24	566.58	134.28	417.30	38.50	11.02	PASS
4920.00†	4845.20	548.65	591.89	4909.04	4865.56	123.59	580.33	134.25	425.71	39.53	10.95	PASS
5020.00†	4943.42	561.41	605.66	5008.69	4964.16	127.94	594.07	134.22	434.12	40.57	10.87	PASS
5120.00†	5041.65	574.17	619.42	5108.33	5062.76	132.29	607.82	134.19	442.54	41.62	10.80	PASS
5220.00†	5139.87	586.93	633.19	5207.98	5161.35	136.64	621.56	134.17	450.95	42.67	10.73	PASS
5320.00†	5238.09	599.68	646.95	5307.62	5259.95	140.98	635.31	134.14	459.37	43.72	10.66	PASS
5420.00†	5336.32	612.44	660.71	5407.27	5358.55	145.33	649.06	134.12	467.78	44.78	10.60	PASS
5520.00†	5434.54	625.20	674.48	5506.91	5457.14	149.68	662.80	134.09	476.20	45.84	10.54	PASS
5620.00†	5532.76	637.96	688.24	5606.56	5555.74	154.03	676.55	134.07	484.61	46.90	10.48	PASS
5720.00†	5630.99	650.72	702.00	5706.20	5654.34	158.38	690.29	134.05	493.03	47.97	10.42	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Closest Approach

Page 73 of 170



REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5805.85	5752.93	162.73	704.04	134.03	501.44	49.04	10.36	PASS
5920.00†	5827.43	676.23	729.53	5905.49	5851.53	167.08	717.78	134.01	509.86	50.11	10.31	PASS
6020.00†	5925.66	688.99	743.30	6005.14	5950.13	171.43	731.53	133.99	518.27	51.18	10.25	PASS
6120.00†	6023.88	701.75	757.06	6104.78	6048.72	175.78	745.27	133.97	526.69	52.26	10.20	PASS
6220.00†	6122.10	714.51	770.82	6204.43	6147.32	180.13	759.02	133.95	535.10	53.34	10.15	PASS
6237.28	6139.07	716.71	773.20	6221.65	6164.36	180.88	761.39	133.95	536.56	53.53	10.15	PASS
6320.00†	6220.86	727.06	779.25	6303.86	6245.71	184.47	772.73	176.79	543.19	54.44	10.10	PASS
6420.00†	6319.82	738.83	772.25	6394.33	6335.74	187.83	780.14	-127.89	551.28	55.74	10.00	PASS
6520.00†	6416.56	749.52	749.77	6485.50	6426.65	189.71	774.77	-110.38	560.46	57.50	9.86	PASS
6620.00†	6508.72	758.88	712.36	6578.62	6517.78	190.02	756.05	-104.12	570.61	59.07	9.77	PASS
6720.00†	6594.01	766.68	660.94	6674.03	6607.33	188.63	723.40	-101.36	581.56	60.36	9.74	PASS
6820.00†	6670.34	772.71	596.78	6772.08	6693.22	185.45	676.42	-100.07	593.07	62.01	9.66	PASS
6920.00†	6735.84	776.83	521.46	6873.10	6773.09	180.39	614.95	-99.52	604.87	64.21	9.51	PASS
7020.00†	6788.88	778.95	436.83	6977.39	6844.25	173.40	539.19	-99.39	616.63	67.39	9.24	PASS
7120.00†	6828.16	779.00	344.98	7085.19	6903.76	164.49	449.89	-99.52	627.97	71.29	8.89	PASS
7220.00†	6852.71	776.99	248.17	7196.62	6948.47	153.75	348.56	-99.80	638.50	75.91	8.48	PASS
7320.00†	6861.94	772.97	148.78	7311.61	6975.29	141.37	237.59	-100.19	647.81	81.05	8.05	PASS
7332.14	6862.00	772.35	136.65	7325.80	6977.19	139.77	223.61	-100.24	648.83	81.69	8.00	PASS
7420.00†	6861.61	767.75	48.92	7426.27	6981.91	128.13	124.02	-100.59	655.15	86.60	7.62	PASS
7520.00†	6861.17	762.51	-50.94	7526.05	6981.41	116.40	24.93	-100.48	661.58	92.30	7.22	PASS
7620.00†	6860.73	757.28	-150.80	7625.84	6980.91	104.67	-74.16	-100.37	668.00	98.51	6.82	PASS
7720.00†	6860.29	752.05	-250.67	7725.62	6980.42	92.94	-173.26	-100.27	674.42	105.12	6.45	PASS
7820.00†	6859.85	746.81	-350.53	7825.41	6979.92	81.21	-272.35	-100.16	680.85	112.08	6.11	PASS
7920.00†	6859.40	741.58	-450.39	7925.20	6979.42	69.48	-371.44	-100.06	687.28	119.32	5.79	PASS
8020.00†	6858.96	736.35	-550.25	8024.98	6978.93	57.75	-470.54	-99.96	693.71	126.80	5.50	PASS
8120.00†	6858.52	731.11	-650.11	8124.77	6978.43	46.03	-569.63	-99.87	700.14	134.46	5.23	PASS
8220.00†	6858.08	725.88	-749.98	8246.10	6977.83	33.13	-690.26	-99.77	705.55	143.27	4.94	PASS
8320.00†	6857.64	720.65	-849.84	8378.18	6977.17	24.71	-822.07	-99.74	706.67	152.60	4.65	PASS
8420.00†	6857.20	715.41	-949.70	8510.13	6976.51	22.38	-953.98	-99.80	703.25	161.83	4.36	PASS
8520.00†	6856.75	710.18	-1049.56	8641.38	6975.86	26.08	-1085.17	-99.94	695.30	170.85	4.08	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 74 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	6856.31	704.95	-1149.42	8741.67	6975.36	31.33	-1185.32	-100.09	685.00	179.18	3.83	PASS
8720.00†	6855.87	699.71	-1249.29	8841.13	6974.86	36.53	-1284.63	-100.24	674.70	187.55	3.61	PASS
8820.00†	6855.43	694.48	-1349.15	8940.58	6974.37	41.74	-1383.95	-100.40	664.40	195.96	3.40	PASS
8832.14	6855.38	693.84	-1361.28	8952.66	6974.31	42.37	-1396.01	-100.41	663.15	196.98	3.38	PASS
8920.00†	6854.99	690.59	-1449.07	9040.16	6973.87	46.95	-1483.39	-100.50	655.43	204.44	3.21	PASS
9020.00†	6854.55	690.17	-1549.06	9139.99	6973.38	52.17	-1583.09	-100.55	649.86	213.05	3.06	PASS
9058.60	6854.38	690.94	-1587.65	9178.57	6973.18	54.19	-1621.62	-100.57	648.62	216.40	3.00	PASS
9120.00†	6854.10	692.58	-1649.03	9239.95	6972.88	57.40	-1682.91	-100.59	647.07	221.74	2.92	PASS
9220.00†	6853.66	695.24	-1748.99	9339.92	6972.38	62.64	-1782.74	-100.62	644.54	230.46	2.80	PASS
9320.00†	6853.22	697.91	-1848.96	9439.89	6971.88	67.87	-1882.57	-100.66	642.00	239.20	2.69	PASS
9420.00†	6852.78	700.58	-1948.92	9539.85	6971.39	73.10	-1982.40	-100.70	639.47	247.98	2.58	PASS
9520.00†	6852.34	703.25	-2048.88	9639.82	6970.89	78.33	-2082.22	-100.74	636.94	256.77	2.48	PASS
9620.00†	6851.89	705.92	-2148.85	9739.79	6970.39	83.56	-2182.05	-100.78	634.41	265.58	2.39	PASS
9720.00†	6851.45	708.59	-2248.81	9839.75	6969.90	88.79	-2281.88	-100.81	631.87	274.41	2.31	PASS
9820.00†	6851.01	711.26	-2348.77	9939.72	6969.40	94.03	-2381.71	-100.85	629.34	283.26	2.22	PASS
9920.00†	6850.57	713.92	-2448.74	10039.69	6968.90	99.26	-2481.54	-100.89	626.81	292.12	2.15	PASS
10020.00†	6850.13	716.59	-2548.70	10139.65	6968.40	104.49	-2581.37	-100.93	624.28	300.99	2.08	PASS
10120.00†	6849.68	719.26	-2648.66	10239.62	6967.91	109.72	-2681.20	-100.97	621.75	309.87	2.01	PASS
10220.00†	6849.24	721.93	-2748.63	10339.59	6967.41	114.95	-2781.03	-101.01	619.22	318.76	1.94	PASS
10320.00†	6848.80	724.60	-2848.59	10439.56	6966.91	120.19	-2880.85	-101.05	616.69	327.66	1.88	PASS
10420.00†	6848.36	727.27	-2948.55	10539.52	6966.41	125.42	-2980.68	-101.09	614.16	336.56	1.83	PASS
10520.00†	6847.92	729.94	-3048.52	10639.49	6965.92	130.65	-3080.51	-101.13	611.63	345.47	1.77	PASS
10620.00†	6847.48	732.60	-3148.48	10739.46	6965.42	135.88	-3180.34	-101.18	609.10	354.39	1.72	PASS
10720.00†	6847.03	735.27	-3248.44	10839.42	6964.92	141.11	-3280.17	-101.22	606.57	363.32	1.67	PASS
10820.00†	6846.59	737.94	-3348.41	10939.39	6964.43	146.34	-3380.00	-101.26	604.05	372.25	1.62	PASS
10920.00†	6846.15	740.61	-3448.37	11039.36	6963.93	151.58	-3479.83	-101.30	601.52	381.18	1.58	PASS
11020.00†	6845.71	743.28	-3548.33	11139.32	6963.43	156.81	-3579.66	-101.35	598.99	390.11	1.54	PASS
11120.00†	6845.27	745.95	-3648.30	11239.29	6962.93	162.04	-3679.48	-101.39	596.46	399.05	1.50	PASS
11220.00†	6844.82	748.62	-3748.26	11339.26	6962.44	167.27	-3779.31	-101.43	593.94	407.99	1.46	PASS
11320.00†	6844.38	751.29	-3848.22	11439.23	6961.94	172.50	-3879.14	-101.48	591.41	416.94	1.42	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 75 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
11420.00†	6843.94	753.95	-3948.19	11539.19	6961.44	177.74	-3978.97	-101.52	588.88	425.88	1.38	PASS
11520.00†	6843.50	756.62	-4048.15	11639.16	6960.94	182.97	-4078.80	-101.57	586.36	434.83	1.35	PASS
11620.00†	6843.06	759.29	-4148.11	11739.13	6960.45	188.20	-4178.63	-101.61	583.83	443.77	1.32	PASS
11720.00†	6842.61	761.96	-4248.08	11839.09	6959.95	193.43	-4278.46	-101.66	581.31	452.72	1.28	PASS
11820.00†	6842.17	764.63	-4348.04	11939.06	6959.45	198.66	-4378.29	-101.70	578.78	461.67	1.25	PASS
11920.00†	6841.73	767.30	-4448.00	12039.03	6958.96	203.89	-4478.12	-101.75	576.26	470.62	1.22	PASS
12020.00†	6841.29	769.97	-4547.97	12139.00	6958.46	209.13	-4577.94	-101.80	573.73	479.56	1.20	PASS
12120.00†	6840.85	772.63	-4647.93	12238.96	6957.96	214.36	-4677.77	-101.84	571.21	488.51	1.17	PASS
12220.00†	6840.40	775.30	-4747.89	12338.93	6957.46	219.59	-4777.60	-101.89	568.69	497.46	1.14	PASS
12320.00†	6839.96	777.97	-4847.86	12438.90	6956.97	224.82	-4877.43	-101.94	566.16	506.40	1.12	PASS
12420.00†	6839.52	780.64	-4947.82	12538.86	6956.47	230.05	-4977.26	-101.99	563.64	515.35	1.09	PASS
12520.00†	6839.08	783.31	-5047.78	12638.83	6955.97	235.29	-5077.09	-102.04	561.12	524.29	1.07	PASS
12620.00†	6838.64	785.98	-5147.75	12738.80	6955.47	240.52	-5176.92	-102.08	558.60	533.23	1.05	PASS
12720.00†	6838.19	788.65	-5247.71	12838.76	6954.98	245.75	-5276.75	-102.13	556.07	542.17	1.03	PASS
12820.00†	6837.75	791.32	-5347.68	12938.73	6954.48	250.98	-5376.57	-102.18	553.55	551.11	1.00	PASS
12920.00†	6837.31	793.98	-5447.64	13038.70	6953.98	256.21	-5476.40	-102.24	551.03	560.04	0.98	FAIL
13020.00†	6836.87	796.65	-5547.60	13138.67	6953.49	261.44	-5576.23	-102.29	548.51	568.97	0.96	FAIL
13120.00†	6836.43	799.32	-5647.57	13238.63	6952.99	266.68	-5676.06	-102.34	545.99	577.90	0.94	FAIL
13220.00†	6835.98	801.99	-5747.53	13338.60	6952.49	271.91	-5775.89	-102.39	543.47	586.83	0.93	FAIL
13320.00†	6835.54	804.66	-5847.49	13438.57	6951.99	277.14	-5875.72	-102.44	540.96	595.76	0.91	FAIL
13420.00†	6835.10	807.33	-5947.46	13538.53	6951.50	282.37	-5975.55	-102.50	538.44	604.68	0.89	FAIL
13520.00†	6834.66	810.00	-6047.42	13624.02	6951.07	285.75	-6060.97	-102.52	537.18	613.46	0.88	FAIL
13620.00†	6834.22	812.66	-6147.38	13708.52	6950.65	286.60	-6145.45	-102.48	538.80	621.85	0.87	FAIL
13720.00†	6833.77	815.33	-6247.35	13794.89	6950.23	284.91	-6231.81	-102.38	543.27	630.02	0.86	FAIL
13820.00†	6833.33	818.00	-6347.31	13894.73	6949.73	281.88	-6331.60	-102.25	548.84	639.29	0.86	FAIL
13920.00†	6832.89	820.67	-6447.27	13994.57	6949.24	278.85	-6431.39	-102.12	554.40	648.56	0.85	FAIL
14020.00†	6832.45	823.34	-6547.24	14094.40	6948.75	275.82	-6531.18	-101.99	559.97	657.83	0.85	FAIL
14120.00†	6832.01	826.01	-6647.20	14194.24	6948.26	272.79	-6630.97	-101.87	565.54	667.10	0.85	FAIL
14220.00†	6831.57	828.68	-6747.16	14294.08	6947.76	269.75	-6730.75	-101.74	571.11	676.37	0.84	FAIL
14320.00†	6831.12	831.34	-6847.13	14393.91	6947.27	266.72	-6830.54	-101.62	576.68	685.64	0.84	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 76 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
14420.00†	6830.68	834.01	-6947.09	14493.75	6946.78	263.69	-6930.33	-101.51	582.26	694.92	0.84	FAIL
14520.00†	6830.24	836.68	-7047.05	14593.59	6946.28	260.66	-7030.12	-101.39	587.84	704.19	0.83	FAIL
14620.00†	6829.80	839.35	-7147.02	14693.43	6945.79	257.63	-7129.91	-101.28	593.42	713.46	0.83	FAIL
14720.00†	6829.36	842.02	-7246.98	14793.26	6945.30	254.59	-7229.70	-101.16	599.01	722.74	0.83	FAIL
14820.00†	6828.91	844.69	-7346.94	14893.10	6944.81	251.56	-7329.49	-101.05	604.59	732.01	0.83	FAIL
14920.00†	6828.47	847.36	-7446.91	14992.94	6944.31	248.53	-7429.28	-100.95	610.18	741.29	0.82	FAIL
15020.00†	6828.03	850.03	-7546.87	15092.78	6943.82	245.50	-7529.07	-100.84	615.77	750.56	0.82	FAIL
15120.00†	6827.59	852.69	-7646.83	15192.61	6943.33	242.47	-7628.86	-100.74	621.37	759.84	0.82	FAIL
15220.00†	6827.15	855.36	-7746.80	15292.45	6942.84	239.44	-7728.65	-100.64	626.96	769.11	0.82	FAIL
15320.00†	6826.70	858.03	-7846.76	15392.29	6942.34	236.40	-7828.44	-100.54	632.56	778.39	0.81	FAIL
15420.00†	6826.26	860.70	-7946.72	15492.12	6941.85	233.37	-7928.23	-100.44	638.16	787.66	0.81	FAIL
15520.00†	6825.82	863.37	-8046.69	15591.96	6941.36	230.34	-8028.02	-100.34	643.76	796.94	0.81	FAIL
15620.00†	6825.38	866.04	-8146.65	15691.80	6940.86	227.31	-8127.81	-100.25	649.36	806.21	0.81	FAIL
15720.00†	6824.94	868.71	-8246.61	15791.64	6940.37	224.28	-8227.60	-100.15	654.96	815.49	0.80	FAIL
15820.00†	6824.49	871.37	-8346.58	15891.47	6939.88	221.24	-8327.39	-100.06	660.57	824.76	0.80	FAIL
15920.00†	6824.05	874.04	-8446.54	15991.31	6939.39	218.21	-8427.18	-99.97	666.18	834.04	0.80	FAIL
16020.00†	6823.61	876.71	-8546.50	16091.15	6938.89	215.18	-8526.97	-99.88	671.79	843.32	0.80	FAIL
16120.00†	6823.17	879.38	-8646.47	16190.98	6938.40	212.15	-8626.76	-99.80	677.40	852.59	0.79	FAIL
16220.00†	6822.73	882.05	-8746.43	16290.82	6937.91	209.12	-8726.55	-99.71	683.01	861.87	0.79	FAIL
16320.00†	6822.28	884.72	-8846.39	16390.66	6937.42	206.08	-8826.34	-99.63	688.62	871.14	0.79	FAIL
16420.00†	6821.84	887.39	-8946.36	16490.50	6936.92	203.05	-8926.13	-99.54	694.24	880.42	0.79	FAIL
16520.00†	6821.40	890.06	-9046.32	16590.33	6936.43	200.02	-9025.92	-99.46	699.85	889.69	0.79	FAIL
16620.00†	6820.96	892.72	-9146.28	16690.17	6935.94	196.99	-9125.71	-99.38	705.47	898.97	0.78	FAIL
16720.00†	6820.52	895.39	-9246.25	16790.01	6935.45	193.96	-9225.50	-99.30	711.09	908.24	0.78	FAIL
16820.00†	6820.07	898.06	-9346.21	16889.85	6934.95	190.92	-9325.29	-99.22	716.71	917.52	0.78	FAIL
16920.00†	6819.63	900.73	-9446.17	16989.68	6934.46	187.89	-9425.08	-99.15	722.33	926.79	0.78	FAIL
17020.00†	6819.19	903.40	-9546.14	17089.52	6933.97	184.86	-9524.87	-99.07	727.96	936.07	0.78	FAIL
17063.18†	6819.00	904.55	-9589.30	17132.63	6933.75	183.55	-9567.96	-99.04	730.39	940.07	0.78	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 77 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-36.46	0.47	-22.59	44.30
9.625in Casing Surface	20.00	1750.00	1730.00	20.00	1739.76	-36.46	0.47	-22.59	44.30
8.5in Open Hole	1750.00	17285.49	15535.49	1739.76	6933.00	-22.59	44.30	36.30	-2962.65

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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 78 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	60.11	-0.85	-0.81	60.12	1.26	197.18	PASS
120.00†	120.00	0.00	0.00	119.00	120.00	60.11	-0.85	-0.81	60.12	1.89	64.08	PASS
220.00†	220.00	0.00	0.00	218.67	219.67	60.16	-0.82	-0.78	60.17	2.45	39.79	PASS
320.00†	320.00	0.00	0.00	316.88	317.85	62.13	0.42	0.39	62.16	3.30	26.17	PASS
350.00	350.00	0.00	0.00	346.30	347.24	63.27	1.15	1.04	63.34	3.65	23.26	PASS
420.00†	419.99	0.58	0.63	414.87	415.67	66.92	3.46	-44.67	66.54	4.52	18.46	PASS
520.00†	519.90	3.43	3.70	512.67	513.05	74.51	8.27	-43.32	71.56	5.75	14.75	PASS
620.00†	619.60	8.64	9.32	610.29	609.89	84.89	14.84	-42.69	77.06	6.96	12.68	PASS
720.00†	718.97	16.22	17.50	707.71	706.05	98.02	23.16	-42.66	83.01	8.04	11.60	PASS
820.00†	817.89	26.15	28.21	804.92	801.44	113.87	33.20	-43.10	89.39	9.08	10.90	PASS
890.85	887.64	34.60	37.33	873.68	868.49	126.72	41.34	-43.64	94.17	9.63	10.76	PASS
920.00†	916.27	38.32	41.34	902.70	896.70	132.45	44.97	-43.92	96.21	9.80	10.78	PASS
1020.00†	1014.50	51.08	55.11	1002.44	993.68	152.14	57.44	-44.79	103.20	10.39	10.85	PASS
1120.00†	1112.72	63.84	68.87	1102.18	1090.67	171.82	69.91	-45.55	110.22	11.04	10.84	PASS
1220.00†	1210.94	76.60	82.63	1201.93	1187.65	191.51	82.38	-46.23	117.25	11.75	10.78	PASS
1320.00†	1309.17	89.36	96.40	1301.67	1284.63	211.20	94.85	-46.82	124.30	12.50	10.69	PASS
1420.00†	1407.39	102.11	110.16	1401.41	1381.62	230.89	107.32	-47.35	131.36	13.28	10.58	PASS
1520.00†	1505.61	114.87	123.93	1501.16	1478.60	250.58	119.79	-47.83	138.43	14.11	10.46	PASS
1620.00†	1603.84	127.63	137.69	1600.90	1575.58	270.26	132.26	-48.26	145.51	14.94	10.34	PASS
1720.00†	1702.06	140.39	151.45	1700.64	1672.56	289.95	144.73	-48.65	152.59	15.79	10.22	PASS
1820.00†	1800.28	153.15	165.22	1800.39	1769.55	309.64	157.20	-49.01	159.68	16.03	10.37	PASS
1920.00†	1898.51	165.91	178.98	1900.13	1866.53	329.33	169.66	-49.33	166.78	16.19	10.73	PASS
2020.00†	1996.73	178.66	192.74	1999.87	1963.51	349.01	182.13	-49.63	173.88	16.40	11.04	PASS
2120.00†	2094.95	191.42	206.51	2099.62	2060.49	368.70	194.60	-49.91	180.99	16.69	11.28	PASS
2220.00†	2193.18	204.18	220.27	2199.36	2157.48	388.39	207.07	-50.16	188.10	17.06	11.46	PASS
2320.00†	2291.40	216.94	234.04	2299.11	2254.46	408.08	219.54	-50.40	195.21	17.51	11.58	PASS
2420.00†	2389.62	229.70	247.80	2398.85	2351.44	427.77	232.01	-50.62	202.33	18.02	11.65	PASS
2520.00†	2487.85	242.45	261.56	2498.59	2448.43	447.45	244.48	-50.82	209.45	18.59	11.67	PASS
2620.00†	2586.07	255.21	275.33	2598.34	2545.41	467.14	256.95	-51.01	216.57	19.22	11.66	PASS
2720.00†	2684.29	267.97	289.09	2698.08	2642.39	486.83	269.42	-51.19	223.70	19.90	11.62	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 79 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2797.82	2739.37	506.52	281.89	-51.36	230.83	20.62	11.56	PASS
2920.00†	2880.74	293.49	316.62	2897.57	2836.36	526.20	294.36	-51.52	237.95	21.39	11.47	PASS
3020.00†	2978.96	306.25	330.38	2997.31	2933.34	545.89	306.83	-51.67	245.08	22.19	11.38	PASS
3120.00†	3077.18	319.00	344.15	3097.05	3030.32	565.58	319.30	-51.81	252.22	23.01	11.28	PASS
3220.00†	3175.41	331.76	357.91	3196.80	3127.31	585.27	331.77	-51.94	259.35	23.87	11.16	PASS
3320.00†	3273.63	344.52	371.67	3296.54	3224.29	604.96	344.24	-52.07	266.48	24.76	11.05	PASS
3420.00†	3371.85	357.28	385.44	3396.28	3321.27	624.64	356.71	-52.19	273.62	25.67	10.93	PASS
3520.00†	3470.08	370.04	399.20	3496.03	3418.25	644.33	369.18	-52.30	280.76	26.60	10.82	PASS
3620.00†	3568.30	382.80	412.96	3595.77	3515.24	664.02	381.65	-52.41	287.89	27.54	10.70	PASS
3720.00†	3666.52	395.55	426.73	3695.51	3612.22	683.71	394.12	-52.51	295.03	28.51	10.59	PASS
3820.00†	3764.75	408.31	440.49	3795.26	3709.20	703.40	406.59	-52.61	302.17	29.49	10.48	PASS
3920.00†	3862.97	421.07	454.26	3895.00	3806.18	723.08	419.06	-52.70	309.31	30.48	10.37	PASS
4020.00†	3961.19	433.83	468.02	3994.75	3903.17	742.77	431.53	-52.79	316.46	31.48	10.26	PASS
4120.00†	4059.42	446.59	481.78	4094.49	4000.15	762.46	444.00	-52.87	323.60	32.50	10.16	PASS
4220.00†	4157.64	459.34	495.55	4194.23	4097.13	782.15	456.47	-52.95	330.74	33.52	10.06	PASS
4320.00†	4255.86	472.10	509.31	4293.98	4194.12	801.83	468.94	-53.03	337.88	34.55	9.96	PASS
4420.00†	4354.09	484.86	523.08	4393.72	4291.10	821.52	481.41	-53.11	345.03	35.60	9.87	PASS
4520.00†	4452.31	497.62	536.84	4493.46	4388.08	841.21	493.88	-53.18	352.17	36.65	9.78	PASS
4620.00†	4550.53	510.38	550.60	4593.21	4485.06	860.90	506.35	-53.25	359.32	37.70	9.69	PASS
4720.00†	4648.75	523.14	564.37	4692.95	4582.05	880.59	518.82	-53.31	366.46	38.77	9.61	PASS
4820.00†	4746.98	535.89	578.13	4792.69	4679.03	900.27	531.29	-53.37	373.61	39.83	9.53	PASS
4920.00†	4845.20	548.65	591.89	4892.44	4776.01	919.96	543.76	-53.44	380.76	40.91	9.45	PASS
5020.00†	4943.42	561.41	605.66	4992.18	4873.00	939.65	556.23	-53.49	387.90	41.99	9.38	PASS
5120.00†	5041.65	574.17	619.42	5091.92	4969.98	959.34	568.70	-53.55	395.05	43.07	9.31	PASS
5220.00†	5139.87	586.93	633.19	5191.67	5066.96	979.03	581.17	-53.61	402.20	44.16	9.24	PASS
5320.00†	5238.09	599.68	646.95	5291.41	5163.94	998.71	593.64	-53.66	409.35	45.25	9.17	PASS
5420.00†	5336.32	612.44	660.71	5391.15	5260.93	1018.40	606.11	-53.71	416.49	46.34	9.11	PASS
5520.00†	5434.54	625.20	674.48	5490.90	5357.91	1038.09	618.58	-53.76	423.64	47.44	9.05	PASS
5620.00†	5532.76	637.96	688.24	5590.64	5454.89	1057.78	631.05	-53.81	430.79	48.54	8.99	PASS
5720.00†	5630.99	650.72	702.00	5690.38	5551.87	1077.46	643.52	-53.85	437.94	49.65	8.93	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 80 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5790.13	5648.86	1097.15	655.99	-53.90	445.09	50.75	8.88	PASS
5920.00†	5827.43	676.23	729.53	5889.87	5745.84	1116.84	668.46	-53.94	452.24	51.86	8.83	PASS
6020.00†	5925.66	688.99	743.30	5989.62	5842.82	1136.53	680.93	-53.98	459.39	52.97	8.78	PASS
6120.00†	6023.88	701.75	757.06	6089.36	5939.81	1156.22	693.40	-54.02	466.54	54.09	8.73	PASS
6220.00†	6122.10	714.51	770.82	6189.10	6036.79	1175.90	705.87	-54.06	473.69	55.21	8.68	PASS
6237.28	6139.07	716.71	773.20	6206.34	6053.55	1179.31	708.03	-54.07	474.93	55.40	8.67	PASS
6320.00†	6220.86	727.06	779.25	6288.66	6133.59	1195.55	718.32	-11.14	480.44	56.28	8.63	PASS
6420.00†	6319.82	738.83	772.25	6386.32	6228.55	1214.83	730.53	46.69	486.47	57.38	8.57	PASS
6520.00†	6416.56	749.52	749.77	6479.69	6319.34	1233.26	742.20	68.11	493.47	58.63	8.51	PASS
6620.00†	6508.72	758.88	712.36	6566.47	6403.71	1250.39	753.05	79.02	504.24	59.75	8.53	PASS
6720.00†	6594.01	766.68	660.94	6647.59	6482.62	1266.42	762.82	86.49	522.04	61.06	8.64	PASS
6820.00†	6670.34	772.71	596.78	6740.37	6573.41	1285.09	764.53	92.69	547.78	62.73	8.82	PASS
6920.00†	6735.84	776.83	521.46	6846.60	6676.28	1306.63	749.95	98.01	580.04	65.02	9.01	PASS
7020.00†	6788.88	778.95	436.83	6973.60	6793.92	1331.83	709.95	102.95	616.69	67.50	9.22	PASS
7120.00†	6828.16	779.00	344.98	7133.16	6926.73	1361.18	627.32	107.78	654.49	69.54	9.50	PASS
7220.00†	6852.71	776.99	248.17	7341.49	7062.33	1392.80	473.61	112.17	688.46	71.73	9.68	PASS
7320.00†	6861.94	772.97	148.78	7607.66	7153.08	1417.40	226.66	114.59	711.42	77.41	9.27	PASS
7332.14	6862.00	772.35	136.65	7643.12	7157.28	1419.11	191.51	114.64	713.09	78.33	9.18	PASS
7420.00†	6861.61	767.75	48.92	7771.22	7159.84	1422.70	63.54	114.52	719.80	83.28	8.71	PASS
7520.00†	6861.17	762.51	-50.94	7870.93	7159.60	1425.03	-36.15	114.29	726.78	88.58	8.26	PASS
7620.00†	6860.73	757.28	-150.80	7970.65	7159.36	1427.36	-135.83	114.06	733.77	94.39	7.83	PASS
7720.00†	6860.29	752.05	-250.67	8070.36	7159.12	1429.70	-235.52	113.84	740.77	100.60	7.41	PASS
7820.00†	6859.85	746.81	-350.53	8170.07	7158.88	1432.03	-335.20	113.61	747.79	107.17	7.02	PASS
7920.00†	6859.40	741.58	-450.39	8269.78	7158.64	1434.37	-434.89	113.40	754.81	114.02	6.65	PASS
8020.00†	6858.96	736.35	-550.25	8369.50	7158.40	1436.70	-534.57	113.19	761.84	121.12	6.32	PASS
8120.00†	6858.52	731.11	-650.11	8469.21	7158.16	1439.03	-634.26	112.98	768.89	128.43	6.01	PASS
8220.00†	6858.08	725.88	-749.98	8568.92	7157.93	1441.37	-733.94	112.77	775.94	135.92	5.73	PASS
8320.00†	6857.64	720.65	-849.84	8668.64	7157.69	1443.70	-833.63	112.57	783.01	143.56	5.48	PASS
8420.00†	6857.20	715.41	-949.70	8768.35	7157.45	1446.04	-933.31	112.38	790.08	151.33	5.24	PASS
8520.00†	6856.75	710.18	-1049.56	8868.06	7157.21	1448.37	-1033.00	112.18	797.17	159.21	5.02	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 81 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	6856.31	704.95	-1149.42	8967.78	7156.97	1450.71	-1132.68	111.99	804.26	167.20	4.83	PASS
8720.00†	6855.87	699.71	-1249.29	9067.49	7156.73	1453.04	-1232.37	111.80	811.36	175.27	4.64	PASS
8820.00†	6855.43	694.48	-1349.15	9167.20	7156.49	1455.37	-1332.05	111.62	818.47	183.43	4.48	PASS
8832.14	6855.38	693.84	-1361.28	9179.31	7156.46	1455.66	-1344.16	111.60	819.33	184.42	4.46	PASS
8920.00†	6854.99	690.59	-1449.07	9267.00	7156.25	1457.71	-1431.83	111.45	824.34	191.63	4.31	PASS
9020.00†	6854.55	690.17	-1549.06	9366.96	7156.01	1460.05	-1531.76	111.38	826.98	199.81	4.15	PASS
9058.60	6854.38	690.94	-1587.65	9405.56	7155.92	1460.95	-1570.35	111.38	827.14	202.98	4.09	PASS
9120.00†	6854.10	692.58	-1649.03	9466.96	7155.77	1462.39	-1631.73	111.40	826.99	207.99	3.99	PASS
9220.00†	6853.66	695.24	-1748.99	9566.96	7155.53	1464.73	-1731.70	111.42	826.76	216.18	3.83	PASS
9320.00†	6853.22	697.91	-1848.96	9666.96	7155.29	1467.07	-1831.67	111.44	826.53	224.40	3.69	PASS
9420.00†	6852.78	700.58	-1948.92	9766.96	7155.05	1469.41	-1931.64	111.46	826.30	232.64	3.56	PASS
9520.00†	6852.34	703.25	-2048.88	9866.95	7154.81	1471.75	-2031.61	111.48	826.07	240.91	3.44	PASS
9620.00†	6851.89	705.92	-2148.85	9966.95	7154.57	1474.09	-2131.59	111.50	825.84	249.21	3.32	PASS
9720.00†	6851.45	708.59	-2248.81	10066.95	7154.33	1476.43	-2231.56	111.52	825.60	257.52	3.21	PASS
9820.00†	6851.01	711.26	-2348.77	10166.95	7154.09	1478.78	-2331.53	111.54	825.37	265.85	3.11	PASS
9920.00†	6850.57	713.92	-2448.74	10266.95	7153.85	1481.12	-2431.50	111.57	825.14	274.19	3.01	PASS
10020.00†	6850.13	716.59	-2548.70	10366.95	7153.61	1483.46	-2531.47	111.59	824.91	282.55	2.92	PASS
10120.00†	6849.68	719.26	-2648.66	10466.95	7153.37	1485.80	-2631.44	111.61	824.68	290.92	2.84	PASS
10220.00†	6849.24	721.93	-2748.63	10566.95	7153.13	1488.14	-2731.42	111.63	824.45	299.30	2.76	PASS
10320.00†	6848.80	724.60	-2848.59	10666.95	7152.89	1490.48	-2831.39	111.65	824.22	307.69	2.68	PASS
10420.00†	6848.36	727.27	-2948.55	10766.95	7152.65	1492.82	-2931.36	111.67	823.99	316.10	2.61	PASS
10520.00†	6847.92	729.94	-3048.52	10866.95	7152.41	1495.16	-3031.33	111.69	823.76	324.50	2.54	PASS
10620.00†	6847.48	732.60	-3148.48	10966.95	7152.17	1497.50	-3131.30	111.72	823.53	332.92	2.48	PASS
10720.00†	6847.03	735.27	-3248.44	11066.95	7151.93	1499.84	-3231.27	111.74	823.30	341.34	2.41	PASS
10820.00†	6846.59	737.94	-3348.41	11166.94	7151.69	1502.18	-3331.25	111.76	823.07	349.77	2.36	PASS
10920.00†	6846.15	740.61	-3448.37	11266.94	7151.45	1504.52	-3431.22	111.78	822.84	358.21	2.30	PASS
11020.00†	6845.71	743.28	-3548.33	11366.94	7151.21	1506.86	-3531.19	111.80	822.61	366.64	2.25	PASS
11120.00†	6845.27	745.95	-3648.30	11466.94	7150.97	1509.20	-3631.16	111.82	822.38	375.09	2.19	PASS
11220.00†	6844.82	748.62	-3748.26	11566.94	7150.73	1511.55	-3731.13	111.85	822.15	383.53	2.15	PASS
11320.00†	6844.38	751.29	-3848.22	11666.94	7150.49	1513.89	-3831.10	111.87	821.92	391.98	2.10	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 82 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
11420.00†	6843.94	753.95	-3948.19	11766.94	7150.25	1516.23	-3931.07	111.89	821.69	400.44	2.05	PASS
11520.00†	6843.50	756.62	-4048.15	11866.94	7150.01	1518.57	-4031.05	111.91	821.47	408.89	2.01	PASS
11620.00†	6843.06	759.29	-4148.11	11966.94	7149.78	1520.91	-4131.02	111.93	821.24	417.35	1.97	PASS
11720.00†	6842.61	761.96	-4248.08	12066.94	7149.54	1523.25	-4230.99	111.95	821.01	425.81	1.93	PASS
11820.00†	6842.17	764.63	-4348.04	12166.94	7149.30	1525.59	-4330.96	111.98	820.78	434.27	1.89	PASS
11920.00†	6841.73	767.30	-4448.00	12266.94	7149.06	1527.93	-4430.93	112.00	820.55	442.73	1.85	PASS
12020.00†	6841.29	769.97	-4547.97	12366.94	7148.82	1530.27	-4530.90	112.02	820.32	451.20	1.82	PASS
12120.00†	6840.85	772.63	-4647.93	12466.94	7148.58	1532.61	-4630.88	112.04	820.09	459.66	1.79	PASS
12220.00†	6840.40	775.30	-4747.89	12566.93	7148.34	1534.95	-4730.85	112.06	819.87	468.13	1.75	PASS
12320.00†	6839.96	777.97	-4847.86	12666.93	7148.10	1537.29	-4830.82	112.08	819.64	476.60	1.72	PASS
12420.00†	6839.52	780.64	-4947.82	12766.93	7147.86	1539.63	-4930.79	112.11	819.41	485.06	1.69	PASS
12520.00†	6839.08	783.31	-5047.78	12866.93	7147.62	1541.98	-5030.76	112.13	819.18	493.53	1.66	PASS
12620.00†	6838.64	785.98	-5147.75	12966.93	7147.38	1544.32	-5130.73	112.15	818.95	502.00	1.63	PASS
12720.00†	6838.19	788.65	-5247.71	13066.93	7147.14	1546.66	-5230.70	112.17	818.73	510.47	1.60	PASS
12820.00†	6837.75	791.32	-5347.68	13166.93	7146.90	1549.00	-5330.68	112.19	818.50	518.94	1.58	PASS
12920.00†	6837.31	793.98	-5447.64	13266.93	7146.66	1551.34	-5430.65	112.21	818.27	527.40	1.55	PASS
13020.00†	6836.87	796.65	-5547.60	13366.93	7146.42	1553.68	-5530.62	112.24	818.05	535.87	1.53	PASS
13120.00†	6836.43	799.32	-5647.57	13466.93	7146.18	1556.02	-5630.59	112.26	817.82	544.34	1.50	PASS
13220.00†	6835.98	801.99	-5747.53	13566.93	7145.94	1558.36	-5730.56	112.28	817.59	552.80	1.48	PASS
13320.00†	6835.54	804.66	-5847.49	13666.93	7145.70	1560.70	-5830.53	112.30	817.36	561.27	1.46	PASS
13420.00†	6835.10	807.33	-5947.46	13766.93	7145.46	1563.04	-5930.51	112.32	817.14	569.73	1.43	PASS
13520.00†	6834.66	810.00	-6047.42	13866.92	7145.22	1565.38	-6030.48	112.35	816.91	578.20	1.41	PASS
13620.00†	6834.22	812.66	-6147.38	13966.92	7144.98	1567.72	-6130.45	112.37	816.68	586.66	1.39	PASS
13720.00†	6833.77	815.33	-6247.35	14066.92	7144.74	1570.06	-6230.42	112.39	816.46	595.12	1.37	PASS
13820.00†	6833.33	818.00	-6347.31	14166.92	7144.50	1572.41	-6330.39	112.41	816.23	603.58	1.35	PASS
13920.00†	6832.89	820.67	-6447.27	14266.92	7144.26	1574.75	-6430.36	112.43	816.01	612.04	1.33	PASS
14020.00†	6832.45	823.34	-6547.24	14366.92	7144.02	1577.09	-6530.34	112.45	815.78	620.50	1.32	PASS
14120.00†	6832.01	826.01	-6647.20	14466.92	7143.78	1579.43	-6630.31	112.48	815.55	628.95	1.30	PASS
14220.00†	6831.57	828.68	-6747.16	14566.92	7143.54	1581.77	-6730.28	112.50	815.33	637.41	1.28	PASS
14320.00†	6831.12	831.34	-6847.13	14666.92	7143.30	1584.11	-6830.25	112.52	815.10	645.86	1.26	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 83 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
14420.00†	6830.68	834.01	-6947.09	14766.92	7143.06	1586.45	-6930.22	112.54	814.88	654.32	1.25	PASS
14520.00†	6830.24	836.68	-7047.05	14866.92	7142.82	1588.79	-7030.19	112.56	814.65	662.77	1.23	PASS
14620.00†	6829.80	839.35	-7147.02	14966.92	7142.58	1591.13	-7130.16	112.59	814.43	671.22	1.21	PASS
14720.00†	6829.36	842.02	-7246.98	15066.92	7142.34	1593.47	-7230.14	112.61	814.20	679.66	1.20	PASS
14820.00†	6828.91	844.69	-7346.94	15166.92	7142.10	1595.81	-7330.11	112.63	813.98	688.11	1.18	PASS
14920.00†	6828.47	847.36	-7446.91	15266.91	7141.86	1598.15	-7430.08	112.65	813.75	696.55	1.17	PASS
15020.00†	6828.03	850.03	-7546.87	15366.91	7141.62	1600.49	-7530.05	112.67	813.53	705.00	1.15	PASS
15120.00†	6827.59	852.69	-7646.83	15466.91	7141.38	1602.84	-7630.02	112.70	813.30	713.44	1.14	PASS
15220.00†	6827.15	855.36	-7746.80	15566.91	7141.14	1605.18	-7729.99	112.72	813.08	721.88	1.13	PASS
15320.00†	6826.70	858.03	-7846.76	15666.91	7140.90	1607.52	-7829.97	112.74	812.85	730.31	1.11	PASS
15420.00†	6826.26	860.70	-7946.72	15766.91	7140.66	1609.86	-7929.94	112.76	812.63	738.75	1.10	PASS
15520.00†	6825.82	863.37	-8046.69	15866.91	7140.42	1612.20	-8029.91	112.78	812.40	747.18	1.09	PASS
15620.00†	6825.38	866.04	-8146.65	15966.91	7140.18	1614.54	-8129.88	112.81	812.18	755.61	1.07	PASS
15720.00†	6824.94	868.71	-8246.61	16066.91	7139.94	1616.88	-8229.85	112.83	811.96	764.04	1.06	PASS
15820.00†	6824.49	871.37	-8346.58	16166.91	7139.70	1619.22	-8329.82	112.85	811.73	772.47	1.05	PASS
15920.00†	6824.05	874.04	-8446.54	16266.91	7139.46	1621.56	-8429.80	112.87	811.51	780.89	1.04	PASS
16020.00†	6823.61	876.71	-8546.50	16366.91	7139.22	1623.90	-8529.77	112.90	811.28	789.32	1.03	PASS
16120.00†	6823.17	879.38	-8646.47	16466.91	7138.98	1626.24	-8629.74	112.92	811.06	797.74	1.02	PASS
16220.00†	6822.73	882.05	-8746.43	16566.90	7138.74	1628.58	-8729.71	112.94	810.84	806.16	1.01	PASS
16320.00†	6822.28	884.72	-8846.39	16666.90	7138.50	1630.92	-8829.68	112.96	810.61	814.57	1.00	FAIL
16420.00†	6821.84	887.39	-8946.36	16766.90	7138.26	1633.26	-8929.65	112.98	810.39	822.99	0.98	FAIL
16520.00†	6821.40	890.06	-9046.32	16866.90	7138.02	1635.61	-9029.62	113.01	810.17	831.40	0.97	FAIL
16620.00†	6820.96	892.72	-9146.28	16966.90	7137.78	1637.95	-9129.60	113.03	809.95	839.81	0.96	FAIL
16720.00†	6820.52	895.39	-9246.25	17066.90	7137.54	1640.29	-9229.57	113.05	809.72	848.22	0.95	FAIL
16820.00†	6820.07	898.06	-9346.21	17166.90	7137.30	1642.63	-9329.54	113.07	809.50	856.62	0.94	FAIL
16920.00†	6819.63	900.73	-9446.17	17266.90	7137.06	1644.97	-9429.51	113.10	809.28	865.02	0.94	FAIL
16960.73†	6819.45	901.82	-9486.89	17292.78	7137.00	1645.57	-9455.39	113.10	809.32	867.60	0.93	FAIL
17020.00†	6819.19	903.40	-9546.14	17292.78	7137.00	1645.57	-9455.39	113.10	812.44	866.33	0.94	FAIL
17063.18	6819.00	904.55	-9589.31	17292.78	7137.00	1645.57	-9455.39	113.10	817.42	862.23	0.95	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 84 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	36.64	-0.52	109.67	45.73
9.625in Casing Surface	20.00	1750.00	1730.00	21.00	1720.55	36.64	-0.52	109.67	45.73
8.5in Open Hole	1750.00	17292.78	15542.78	1720.55	7137.00	109.67	45.73	519.89	-2882.26

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-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 85 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
20.00	20.00	0.00	0.00	7.95	19.95	-455.80	-387.32	-139.64	598.14	50.17	12.14	PASS
120.00†	120.00	0.00	0.00	108.84	120.83	-456.30	-386.76	-139.72	598.16	50.18	12.13	PASS
220.00†	220.00	0.00	0.00	213.94	225.93	-455.40	-386.94	-139.65	597.62	50.20	12.12	PASS
320.00†	320.00	0.00	0.00	314.75	326.66	-451.95	-389.09	-139.28	596.40	50.24	12.08	PASS
350.00	350.00	0.00	0.00	344.01	355.86	-450.60	-390.18	-139.11	596.09	50.26	12.07	PASS
420.00†	419.99	0.58	0.63	414.72	426.37	-446.63	-393.72	174.23	596.28	50.30	12.07	PASS
520.00†	519.90	3.43	3.70	515.91	526.96	-438.48	-400.91	175.30	599.20	50.41	12.10	PASS
620.00†	619.60	8.64	9.32	614.82	625.12	-429.50	-409.22	176.51	605.95	50.57	12.20	PASS
720.00†	718.97	16.22	17.50	730.95	740.11	-416.69	-419.07	178.06	615.18	50.75	12.34	PASS
820.00†	817.89	26.15	28.21	834.96	842.47	-400.87	-428.45	179.75	625.70	50.96	12.50	PASS
890.85	887.64	34.60	37.33	901.58	907.61	-389.14	-436.02	-178.99	635.63	51.12	12.65	PASS
920.00†	916.27	38.32	41.34	925.40	930.81	-384.73	-439.10	-178.52	640.32	51.18	12.73	PASS
1020.00†	1014.50	51.08	55.11	1005.98	1008.98	-369.48	-451.38	-176.81	658.35	51.37	13.04	PASS
1120.00†	1112.72	63.84	68.87	1098.18	1097.82	-351.27	-467.99	-174.77	678.80	51.59	13.39	PASS
1220.00†	1210.94	76.60	82.63	1194.13	1189.91	-331.18	-485.92	-172.65	699.99	51.86	13.74	PASS
1320.00†	1309.17	89.36	96.40	1289.05	1281.11	-311.45	-503.36	-170.70	721.90	52.14	14.09	PASS
1420.00†	1407.39	102.11	110.16	1371.81	1360.61	-294.65	-519.08	-169.09	745.36	52.39	14.48	PASS
1520.00†	1505.61	114.87	123.93	1461.74	1446.85	-276.82	-537.31	-167.42	770.79	52.69	14.88	PASS
1620.00†	1603.84	127.63	137.69	1558.74	1540.05	-258.03	-556.48	-165.77	796.66	53.06	15.27	PASS
1720.00†	1702.06	140.39	151.45	1652.46	1630.28	-240.33	-574.64	-164.32	822.99	53.43	15.67	PASS
1820.00†	1800.28	153.15	165.22	1753.12	1727.33	-221.62	-593.70	-162.89	849.55	53.59	16.05	PASS
1920.00†	1898.51	165.91	178.98	1849.05	1819.88	-203.51	-611.28	-161.61	875.88	53.95	16.44	PASS
2020.00†	1996.73	178.66	192.74	1941.18	1908.47	-185.30	-628.81	-160.39	902.89	54.30	16.84	PASS
2120.00†	2094.95	191.42	206.51	2042.03	2005.45	-165.12	-647.78	-159.11	930.03	54.75	17.20	PASS
2220.00†	2193.18	204.18	220.27	2154.09	2113.42	-142.52	-667.48	-157.81	956.38	55.32	17.50	PASS
2320.00†	2291.40	216.94	234.04	2244.70	2200.83	-123.97	-682.50	-156.81	982.07	55.74	17.83	PASS
2420.00†	2389.62	229.70	247.80	2331.61	2284.56	-106.46	-697.82	-155.90	1009.07	56.14	18.19	PASS
2520.00†	2487.85	242.45	261.56	2432.43	2381.64	-85.87	-715.60	-154.88	1036.31	56.69	18.50	PASS
2620.00†	2586.07	255.21	275.33	2525.37	2471.12	-66.67	-731.84	-153.98	1063.59	57.19	18.82	PASS
2720.00†	2684.29	267.97	289.09	2606.97	2549.65	-49.98	-746.44	-153.22	1091.58	57.61	19.17	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 86 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
2820.00†	2782.51	280.73	302.85	2679.38	2619.15	-35.51	-760.67	-152.58	1121.51	57.95	19.58	PASS
2920.00†	2880.74	293.49	316.62	2769.29	2705.31	-17.97	-779.47	-151.82	1152.90	58.48	19.95	PASS
3020.00†	2978.96	306.25	330.38	2867.49	2799.52	0.88	-799.78	-151.06	1184.36	59.11	20.27	PASS
3120.00†	3077.18	319.00	344.15	2968.25	2896.42	19.75	-819.91	-150.35	1215.43	59.79	20.56	PASS
3220.00†	3175.41	331.76	357.91	3060.52	2985.23	36.88	-838.18	-149.74	1246.50	60.39	20.87	PASS
3320.00†	3273.63	344.52	371.67	3179.79	3100.06	59.62	-861.05	-148.97	1277.07	61.29	21.07	PASS
3420.00†	3371.85	357.28	385.44	3298.54	3214.46	83.96	-881.56	-148.20	1305.66	62.19	21.23	PASS
3520.00†	3470.08	370.04	399.20	3401.56	3313.69	106.08	-898.17	-147.52	1333.16	62.95	21.41	PASS
3620.00†	3568.30	382.80	412.96	3499.67	3408.39	126.52	-913.68	-146.94	1360.60	63.68	21.59	PASS
3720.00†	3666.52	395.55	426.73	3599.17	3504.20	148.39	-929.24	-146.32	1387.83	64.45	21.76	PASS
3820.00†	3764.75	408.31	440.49	3677.19	3578.91	166.88	-942.03	-145.80	1415.69	65.05	21.99	PASS
3920.00†	3862.97	421.07	454.26	3759.88	3657.53	187.85	-956.71	-145.19	1444.79	65.70	22.22	PASS
4020.00†	3961.19	433.83	468.02	3850.30	3743.18	211.70	-973.23	-144.51	1474.47	66.46	22.41	PASS
4120.00†	4059.42	446.59	481.78	3922.55	3811.40	231.05	-987.05	-143.97	1505.14	67.04	22.68	PASS
4220.00†	4157.64	459.34	495.55	4001.66	3885.91	252.10	-1003.29	-143.39	1537.30	67.70	22.94	PASS
4320.00†	4255.86	472.10	509.31	4109.69	3988.00	279.88	-1025.10	-142.68	1569.43	68.71	23.07	PASS
4420.00†	4354.09	484.86	523.08	4198.74	4072.61	301.33	-1042.69	-142.18	1601.42	69.49	23.27	PASS
4520.00†	4452.31	497.62	536.84	4293.06	4162.54	322.76	-1061.42	-141.71	1633.70	70.34	23.45	PASS
4620.00†	4550.53	510.38	550.60	4391.08	4255.79	345.98	-1080.74	-141.21	1665.88	71.24	23.61	PASS
4720.00†	4648.75	523.14	564.37	4489.77	4349.66	369.64	-1099.94	-140.71	1697.92	72.17	23.75	PASS
4820.00†	4746.98	535.89	578.13	4592.53	4447.62	393.75	-1119.50	-140.24	1729.67	73.15	23.87	PASS
4920.00†	4845.20	548.65	591.89	4684.33	4535.44	414.17	-1136.68	-139.87	1761.25	73.99	24.02	PASS
5020.00†	4943.42	561.41	605.66	4774.06	4621.67	432.31	-1153.70	-139.58	1793.19	74.82	24.19	PASS
5120.00†	5041.65	574.17	619.42	4868.19	4712.25	450.60	-1171.61	-139.32	1825.26	75.70	24.33	PASS
5220.00†	5139.87	586.93	633.19	4949.80	4790.73	466.45	-1187.40	-139.09	1857.67	76.45	24.52	PASS
5320.00†	5238.09	599.68	646.95	5051.07	4887.94	486.44	-1207.54	-138.81	1890.65	77.42	24.64	PASS
5420.00†	5336.32	612.44	660.71	5197.32	5029.14	513.98	-1233.85	-138.47	1921.82	78.88	24.58	PASS
5520.00†	5434.54	625.20	674.48	5302.54	5131.08	533.87	-1250.69	-138.24	1951.07	79.89	24.63	PASS
5620.00†	5532.76	637.96	688.24	5375.67	5201.84	547.70	-1262.91	-138.08	1981.07	80.58	24.79	PASS
5720.00†	5630.99	650.72	702.00	5457.29	5280.60	563.58	-1277.32	-137.90	2011.98	81.38	24.93	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 87 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
5820.00†	5729.21	663.48	715.77	5653.99	5470.39	604.08	-1309.18	-137.40	2042.28	83.33	24.71	PASS
5920.00†	5827.43	676.23	729.53	5711.96	5526.60	615.68	-1317.24	-137.27	2069.65	83.93	24.86	PASS
6020.00†	5925.66	688.99	743.30	5769.23	5581.91	627.50	-1326.25	-137.14	2098.80	84.50	25.04	PASS
6120.00†	6023.88	701.75	757.06	5829.09	5639.54	639.84	-1336.70	-137.00	2129.64	85.10	25.23	PASS
6220.00†	6122.10	714.51	770.82	5888.68	5696.86	651.57	-1348.06	-136.87	2162.05	85.68	25.44	PASS
6237.28	6139.07	716.71	773.20	5898.92	5706.70	653.52	-1350.11	-136.85	2167.80	85.78	25.47	PASS
6320.00†	6220.86	727.06	779.25	5993.74	5797.97	671.02	-1368.92	-93.97	2190.12	86.79	25.43	PASS
6420.00†	6319.82	738.83	772.25	6121.12	5920.97	693.81	-1392.93	-37.78	2202.06	88.47	25.08	PASS
6520.00†	6416.56	749.52	749.77	6212.15	6008.79	711.20	-1409.38	-19.32	2197.65	90.14	24.56	PASS
6620.00†	6508.72	758.88	712.36	6285.71	6079.50	725.86	-1423.41	-12.00	2178.71	91.51	23.99	PASS
6720.00†	6594.01	766.68	660.94	6373.94	6164.10	743.90	-1440.80	-7.98	2145.38	92.91	23.26	PASS
6820.00†	6670.34	772.71	596.78	6456.36	6243.07	760.82	-1457.23	-5.23	2098.02	94.11	22.45	PASS
6920.00†	6735.84	776.83	521.46	6530.94	6314.64	775.41	-1472.29	-2.97	2037.75	95.11	21.58	PASS
7020.00†	6788.88	778.95	436.83	6645.00	6424.70	795.54	-1494.38	-0.34	1965.32	96.36	20.54	PASS
7120.00†	6828.16	779.00	344.98	6714.14	6491.88	806.44	-1506.57	2.93	1882.05	97.04	19.53	PASS
7220.00†	6852.71	776.99	248.17	6756.79	6533.29	813.53	-1513.96	8.41	1791.22	97.38	18.52	PASS
7320.00†	6861.94	772.97	148.78	6783.48	6559.17	818.14	-1518.55	21.46	1695.20	97.52	17.50	PASS
7332.14	6862.00	772.35	136.65	6785.61	6561.24	818.51	-1518.91	24.34	1683.30	97.53	17.38	PASS
7420.00†	6861.61	767.75	48.92	6800.13	6575.31	821.08	-1521.39	25.86	1597.09	97.52	16.49	PASS
7520.00†	6861.17	762.51	-50.94	6827.78	6602.14	825.90	-1526.01	29.09	1498.98	97.60	15.46	PASS
7620.00†	6860.73	757.28	-150.80	6853.12	6626.80	830.11	-1530.07	32.46	1400.85	97.67	14.44	PASS
7720.00†	6860.29	752.05	-250.67	6876.44	6649.54	833.80	-1533.65	35.96	1302.74	97.74	13.42	PASS
7820.00†	6859.85	746.81	-350.53	6897.95	6670.57	837.05	-1536.82	39.59	1204.69	97.80	12.40	PASS
7920.00†	6859.40	741.58	-450.39	6917.86	6690.06	839.93	-1539.66	43.33	1106.73	97.89	11.38	PASS
8020.00†	6858.96	736.35	-550.25	6934.24	6706.13	842.21	-1541.91	46.71	1008.94	97.99	10.36	PASS
8120.00†	6858.52	731.11	-650.11	6947.11	6718.76	843.98	-1543.66	49.58	911.43	98.13	9.35	PASS
8220.00†	6858.08	725.88	-749.98	6959.92	6731.33	845.74	-1545.41	52.62	814.33	98.41	8.33	PASS
8320.00†	6857.64	720.65	-849.84	6972.67	6743.83	847.47	-1547.13	55.83	717.82	98.92	7.30	PASS
8420.00†	6857.20	715.41	-949.70	6985.35	6756.28	849.19	-1548.85	59.21	622.14	99.84	6.27	PASS
8520.00†	6856.75	710.18	-1049.56	6997.97	6768.67	850.89	-1550.55	62.74	527.78	101.52	5.23	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 88 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	6856.31	704.95	-1149.42	7010.52	6780.99	852.58	-1552.24	66.41	435.58	104.62	4.19	PASS
8720.00†	6855.87	699.71	-1249.29	7023.02	6793.26	854.25	-1553.92	70.20	347.28	110.51	3.16	PASS
8820.00†	6855.43	694.48	-1349.15	7035.45	6805.47	855.91	-1555.59	74.07	266.78	121.87	2.20	PASS
8832.14	6855.38	693.84	-1361.28	7036.96	6806.95	856.11	-1555.79	74.55	257.90	123.82	2.09	PASS
8920.00†	6854.99	690.59	-1449.07	7048.01	6817.81	857.57	-1557.26	77.76	202.42	142.17	1.43	PASS
9020.00†	6854.55	690.17	-1549.06	7061.12	6830.69	859.30	-1559.01	81.98	171.10	165.42	1.03	PASS
9033.51†	6854.49	690.38	-1562.57	7063.45	6832.97	859.61	-1559.32	82.76	170.62	167.25	1.02	PASS
9046.26†	6854.43	690.63	-1575.31	7064.69	6834.19	859.77	-1559.48	83.17	171.07	168.37	1.02	PASS
9058.60	6854.38	690.94	-1587.65	7066.36	6835.84	859.98	-1559.70	83.73	172.34	168.96	1.02	PASS
9120.00†	6854.10	692.58	-1649.03	7074.58	6843.92	861.04	-1560.78	86.46	190.46	164.94	1.16	PASS
9220.00†	6853.66	695.24	-1748.99	7087.55	6856.67	862.67	-1562.44	90.73	250.68	147.84	1.70	PASS
9320.00†	6853.22	697.91	-1848.96	7100.01	6868.94	864.20	-1564.02	94.76	330.29	133.61	2.48	PASS
9420.00†	6852.78	700.58	-1948.92	7112.01	6880.75	865.64	-1565.50	98.54	418.37	124.41	3.38	PASS
9520.00†	6852.34	703.25	-2048.88	7123.55	6892.13	866.99	-1566.91	102.05	510.58	118.54	4.33	PASS
9620.00†	6851.89	705.92	-2148.85	7134.68	6903.11	868.26	-1568.24	105.31	605.05	114.66	5.30	PASS
9720.00†	6851.45	708.59	-2248.81	7145.40	6913.69	869.45	-1569.50	108.32	700.87	111.99	6.29	PASS
9820.00†	6851.01	711.26	-2348.77	7155.75	6923.91	870.58	-1570.69	111.10	797.56	110.09	7.29	PASS
9920.00†	6850.57	713.92	-2448.74	7165.74	6933.77	871.64	-1571.83	113.67	894.85	108.69	8.28	PASS
10020.00†	6850.13	716.59	-2548.70	7175.38	6943.31	872.64	-1572.91	116.03	992.57	107.64	9.28	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 89 of 170



REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 90 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-79.85	1.08	179.22	79.85	1.56	131.48	PASS
120.00†	120.00	0.00	0.00	120.00	120.00	-79.85	1.08	179.22	79.85	1.88	85.83	PASS
220.00†	220.00	0.00	0.00	220.00	220.00	-79.85	1.08	179.22	79.85	2.45	53.08	PASS
320.00†	320.00	0.00	0.00	320.00	320.00	-79.85	1.08	179.22	79.85	3.05	37.77	PASS
350.00	350.00	0.00	0.00	350.00	350.00	-79.85	1.08	179.22	79.85	3.23	34.75	PASS
420.00†	419.99	0.58	0.63	419.99	419.99	-79.85	1.08	132.50	80.43	3.69	29.15	PASS
520.00†	519.90	3.43	3.70	519.90	519.90	-79.85	1.08	134.58	83.31	4.54	23.02	PASS
620.00†	619.60	8.64	9.32	619.77	619.76	-79.85	1.93	137.48	88.80	5.51	19.31	PASS
720.00†	718.97	16.22	17.50	719.70	719.61	-79.88	6.11	139.38	96.78	6.44	17.50	PASS
820.00†	817.89	26.15	28.21	819.58	819.18	-79.94	13.76	140.28	107.08	7.35	16.60	PASS
890.85	887.64	34.60	37.33	890.26	889.46	-79.99	21.27	140.41	115.73	7.98	16.36	PASS
920.00†	916.27	38.32	41.34	919.32	918.30	-80.02	24.86	140.37	119.50	8.20	16.38	PASS
1020.00†	1014.50	51.08	55.11	1018.60	1016.67	-80.12	38.23	139.77	132.30	8.95	16.45	PASS
1120.00†	1112.72	63.84	68.87	1117.77	1114.93	-80.22	51.66	139.24	145.10	9.77	16.37	PASS
1220.00†	1210.94	76.60	82.63	1216.94	1213.18	-80.32	65.08	138.80	157.91	10.63	16.23	PASS
1320.00†	1309.17	89.36	96.40	1316.11	1311.44	-80.42	78.51	138.43	170.73	11.53	16.06	PASS
1420.00†	1407.39	102.11	110.16	1415.28	1409.70	-80.52	91.94	138.11	183.55	12.47	15.86	PASS
1520.00†	1505.61	114.87	123.93	1514.45	1507.95	-80.61	105.36	137.83	196.38	13.42	15.69	PASS
1620.00†	1603.84	127.63	137.69	1613.62	1606.21	-80.71	118.79	137.58	209.21	14.38	15.52	PASS
1720.00†	1702.06	140.39	151.45	1712.79	1704.47	-80.81	132.21	137.37	222.05	15.36	15.36	PASS
1820.00†	1800.28	153.15	165.22	1811.95	1802.72	-80.91	145.64	137.17	234.89	15.64	15.68	PASS
1920.00†	1898.51	165.91	178.98	1911.12	1900.98	-81.01	159.07	137.00	247.73	15.76	16.41	PASS
2020.00†	1996.73	178.66	192.74	2010.29	1999.23	-81.11	172.49	136.85	260.57	15.94	17.06	PASS
2120.00†	2094.95	191.42	206.51	2109.46	2097.49	-81.21	185.92	136.70	273.42	16.20	17.60	PASS
2220.00†	2193.18	204.18	220.27	2208.63	2195.75	-81.31	199.35	136.57	286.27	16.54	18.04	PASS
2320.00†	2291.40	216.94	234.04	2307.80	2294.00	-81.41	212.77	136.46	299.11	16.94	18.38	PASS
2420.00†	2389.62	229.70	247.80	2406.97	2392.26	-81.51	226.20	136.35	311.96	17.41	18.64	PASS
2520.00†	2487.85	242.45	261.56	2506.14	2490.52	-81.61	239.63	136.25	324.81	17.94	18.81	PASS
2620.00†	2586.07	255.21	275.33	2605.31	2588.77	-81.70	253.05	136.16	337.66	18.52	18.91	PASS
2720.00†	2684.29	267.97	289.09	2704.48	2687.03	-81.80	266.48	136.07	350.52	19.16	18.96	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 91 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2803.65	2785.28	-81.90	279.91	135.99	363.37	19.84	18.96	PASS
2920.00†	2880.74	293.49	316.62	2902.82	2883.54	-82.00	293.33	135.92	376.22	20.55	18.92	PASS
3020.00†	2978.96	306.25	330.38	3001.99	2981.80	-82.10	306.76	135.85	389.07	21.31	18.85	PASS
3120.00†	3077.18	319.00	344.15	3101.16	3080.05	-82.20	320.19	135.79	401.93	22.09	18.76	PASS
3220.00†	3175.41	331.76	357.91	3200.33	3178.31	-82.30	333.61	135.73	414.78	22.91	18.65	PASS
3320.00†	3273.63	344.52	371.67	3299.50	3276.57	-82.40	347.04	135.67	427.64	23.75	18.53	PASS
3420.00†	3371.85	357.28	385.44	3398.67	3374.82	-82.50	360.47	135.62	440.49	24.61	18.40	PASS
3520.00†	3470.08	370.04	399.20	3497.84	3473.08	-82.60	373.89	135.57	453.35	25.49	18.26	PASS
3620.00†	3568.30	382.80	412.96	3597.00	3571.33	-82.70	387.32	135.52	466.21	26.39	18.12	PASS
3720.00†	3666.52	395.55	426.73	3696.17	3669.59	-82.79	400.75	135.47	479.06	27.31	17.98	PASS
3820.00†	3764.75	408.31	440.49	3795.34	3767.85	-82.89	414.17	135.43	491.92	28.24	17.84	PASS
3920.00†	3862.97	421.07	454.26	3894.51	3866.10	-82.99	427.60	135.39	504.78	29.19	17.70	PASS
4020.00†	3961.19	433.83	468.02	3993.68	3964.36	-83.09	441.03	135.35	517.63	30.15	17.56	PASS
4120.00†	4059.42	446.59	481.78	4092.85	4062.62	-83.19	454.45	135.32	530.49	31.12	17.42	PASS
4220.00†	4157.64	459.34	495.55	4192.02	4160.87	-83.29	467.88	135.28	543.35	32.10	17.29	PASS
4320.00†	4255.86	472.10	509.31	4291.19	4259.13	-83.39	481.31	135.25	556.21	33.09	17.16	PASS
4420.00†	4354.09	484.86	523.08	4390.36	4357.39	-83.49	494.73	135.21	569.06	34.09	17.03	PASS
4520.00†	4452.31	497.62	536.84	4489.53	4455.64	-83.59	508.16	135.18	581.92	35.09	16.90	PASS
4620.00†	4550.53	510.38	550.60	4588.70	4553.90	-83.69	521.59	135.16	594.78	36.10	16.78	PASS
4720.00†	4648.75	523.14	564.37	4687.87	4652.15	-83.78	535.01	135.13	607.64	37.12	16.67	PASS
4820.00†	4746.98	535.89	578.13	4787.04	4750.41	-83.88	548.44	135.10	620.50	38.14	16.56	PASS
4920.00†	4845.20	548.65	591.89	4886.21	4848.67	-83.98	561.86	135.07	633.36	39.17	16.45	PASS
5020.00†	4943.42	561.41	605.66	4985.38	4946.92	-84.08	575.29	135.05	646.22	40.21	16.34	PASS
5120.00†	5041.65	574.17	619.42	5084.55	5045.18	-84.18	588.72	135.03	659.07	41.25	16.24	PASS
5220.00†	5139.87	586.93	633.19	5183.72	5143.44	-84.28	602.14	135.00	671.93	42.29	16.14	PASS
5320.00†	5238.09	599.68	646.95	5282.88	5241.69	-84.38	615.57	134.98	684.79	43.34	16.05	PASS
5420.00†	5336.32	612.44	660.71	5382.05	5339.95	-84.48	629.00	134.96	697.65	44.39	15.96	PASS
5520.00†	5434.54	625.20	674.48	5481.22	5438.20	-84.58	642.42	134.94	710.51	45.44	15.87	PASS
5620.00†	5532.76	637.96	688.24	5580.39	5536.46	-84.68	655.85	134.92	723.37	46.50	15.78	PASS
5720.00†	5630.99	650.72	702.00	5679.56	5634.72	-84.78	669.28	134.90	736.23	47.56	15.70	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 92 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5778.73	5732.97	-84.87	682.70	134.88	749.09	48.62	15.62	PASS
5920.00†	5827.43	676.23	729.53	5877.90	5831.23	-84.97	696.13	134.87	761.95	49.69	15.54	PASS
6020.00†	5925.66	688.99	743.30	5977.07	5929.49	-85.07	709.56	134.85	774.81	50.75	15.47	PASS
6120.00†	6023.88	701.75	757.06	6076.24	6027.74	-85.17	722.98	134.83	787.67	51.82	15.40	PASS
6220.00†	6122.10	714.51	770.82	6175.41	6126.00	-85.27	736.41	134.82	800.53	52.90	15.33	PASS
6237.28	6139.07	716.71	773.20	6192.55	6142.98	-85.29	738.73	134.81	802.75	53.08	15.31	PASS
6320.00†	6220.86	727.06	779.25	6274.39	6224.07	-85.37	749.81	178.17	812.97	53.98	15.25	PASS
6420.00†	6319.82	738.83	772.25	6371.47	6320.26	-85.47	762.96	-126.19	824.35	55.25	15.10	PASS
6520.00†	6416.56	749.52	749.77	6464.27	6412.20	-85.56	775.52	-109.22	835.49	56.62	14.93	PASS
6620.00†	6508.72	758.88	712.36	6559.93	6507.46	-85.64	783.40	-104.06	847.51	58.01	14.78	PASS
6720.00†	6594.01	766.68	660.94	6664.55	6611.68	-85.70	775.79	-102.53	860.26	60.48	14.38	PASS
6820.00†	6670.34	772.71	596.78	6779.66	6723.19	-85.71	747.86	-102.59	873.21	63.37	13.92	PASS
6920.00†	6735.84	776.83	521.46	6907.73	6839.05	-85.66	693.82	-103.51	885.59	65.37	13.68	PASS
7020.00†	6788.88	778.95	436.83	7051.03	6952.93	-85.54	607.33	-104.89	896.28	68.16	13.28	PASS
7120.00†	6828.16	779.00	344.98	7210.54	7053.39	-85.32	483.97	-106.41	903.94	72.05	12.66	PASS
7220.00†	6852.71	776.99	248.17	7384.22	7124.27	-85.00	325.99	-107.74	907.10	77.43	11.81	PASS
7320.00†	6861.94	772.97	148.78	7565.90	7150.00	-84.61	146.77	-108.55	904.66	83.98	10.86	PASS
7332.14	6862.00	772.35	136.65	7578.83	7149.97	-84.58	133.84	-108.61	904.02	84.61	10.77	PASS
7420.00†	6861.61	767.75	48.92	7666.55	7149.72	-84.37	46.12	-108.72	899.51	89.18	10.16	PASS
7520.00†	6861.17	762.51	-50.94	7766.40	7149.44	-84.14	-53.73	-108.84	894.39	94.84	9.49	PASS
7620.00†	6860.73	757.28	-150.80	7866.25	7149.16	-83.91	-153.58	-108.97	889.27	100.94	8.87	PASS
7720.00†	6860.29	752.05	-250.67	7966.10	7148.87	-83.67	-253.43	-109.09	884.15	107.39	8.28	PASS
7820.00†	6859.85	746.81	-350.53	8065.95	7148.59	-83.44	-353.28	-109.22	879.04	114.13	7.74	PASS
7920.00†	6859.40	741.58	-450.39	8165.80	7148.31	-83.21	-453.13	-109.34	873.93	121.12	7.25	PASS
8020.00†	6858.96	736.35	-550.25	8265.65	7148.03	-82.98	-552.98	-109.47	868.82	128.29	6.80	PASS
8120.00†	6858.52	731.11	-650.11	8365.50	7147.75	-82.74	-652.83	-109.60	863.72	135.64	6.40	PASS
8220.00†	6858.08	725.88	-749.98	8465.35	7147.46	-82.51	-752.68	-109.74	858.63	143.11	6.02	PASS
8320.00†	6857.64	720.65	-849.84	8565.20	7147.18	-82.28	-852.53	-109.87	853.54	150.70	5.69	PASS
8420.00†	6857.20	715.41	-949.70	8665.05	7146.90	-82.05	-952.38	-110.01	848.45	158.38	5.38	PASS
8520.00†	6856.75	710.18	-1049.56	8764.90	7146.62	-81.81	-1052.23	-110.14	843.37	166.13	5.09	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 93 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	6856.31	704.95	-1149.42	8864.75	7146.33	-81.58	-1152.08	-110.28	838.30	173.96	4.83	PASS
8720.00†	6855.87	699.71	-1249.29	8964.60	7146.05	-81.35	-1251.93	-110.42	833.23	181.82	4.60	PASS
8820.00†	6855.43	694.48	-1349.15	9064.45	7145.77	-81.11	-1351.78	-110.57	828.16	189.74	4.38	PASS
8832.14	6855.38	693.84	-1361.28	9076.58	7145.74	-81.09	-1363.90	-110.58	827.55	190.71	4.35	PASS
8920.00†	6854.99	690.59	-1449.07	9164.37	7145.49	-80.88	-1451.68	-110.65	824.36	197.75	4.18	PASS
9020.00†	6854.55	690.17	-1549.06	9264.36	7145.21	-80.65	-1551.68	-110.66	823.80	205.92	4.01	PASS
9058.60	6854.38	690.94	-1587.65	9302.95	7145.10	-80.56	-1590.27	-110.65	824.46	209.12	3.95	PASS
9120.00†	6854.10	692.58	-1649.03	9364.33	7144.92	-80.42	-1651.65	-110.62	825.89	214.22	3.86	PASS
9220.00†	6853.66	695.24	-1748.99	9464.30	7144.64	-80.18	-1751.62	-110.57	828.23	222.57	3.73	PASS
9320.00†	6853.22	697.91	-1848.96	9564.27	7144.36	-79.95	-1851.59	-110.52	830.57	230.96	3.60	PASS
9420.00†	6852.78	700.58	-1948.92	9664.24	7144.08	-79.72	-1951.56	-110.47	832.90	239.37	3.49	PASS
9520.00†	6852.34	703.25	-2048.88	9764.21	7143.79	-79.49	-2051.53	-110.42	835.24	247.82	3.38	PASS
9620.00†	6851.89	705.92	-2148.85	9864.18	7143.51	-79.25	-2151.50	-110.38	837.58	256.30	3.27	PASS
9720.00†	6851.45	708.59	-2248.81	9964.15	7143.23	-79.02	-2251.47	-110.33	839.92	264.80	3.18	PASS
9820.00†	6851.01	711.26	-2348.77	10064.12	7142.95	-78.79	-2351.44	-110.28	842.26	273.33	3.09	PASS
9920.00†	6850.57	713.92	-2448.74	10164.09	7142.66	-78.55	-2451.41	-110.23	844.60	281.87	3.00	PASS
10020.00†	6850.13	716.59	-2548.70	10264.06	7142.38	-78.32	-2551.38	-110.19	846.94	290.44	2.92	PASS
10120.00†	6849.68	719.26	-2648.66	10364.04	7142.10	-78.09	-2651.35	-110.14	849.28	299.02	2.84	PASS
10220.00†	6849.24	721.93	-2748.63	10464.01	7141.82	-77.86	-2751.32	-110.09	851.62	307.63	2.77	PASS
10320.00†	6848.80	724.60	-2848.59	10563.98	7141.53	-77.62	-2851.29	-110.05	853.97	316.24	2.70	PASS
10420.00†	6848.36	727.27	-2948.55	10663.95	7141.25	-77.39	-2951.26	-110.00	856.31	324.88	2.64	PASS
10520.00†	6847.92	729.94	-3048.52	10763.92	7140.97	-77.16	-3051.22	-109.96	858.65	333.53	2.58	PASS
10620.00†	6847.48	732.60	-3148.48	10863.89	7140.69	-76.92	-3151.19	-109.91	861.00	342.19	2.52	PASS
10720.00†	6847.03	735.27	-3248.44	10963.86	7140.40	-76.69	-3251.16	-109.87	863.34	350.86	2.46	PASS
10820.00†	6846.59	737.94	-3348.41	11063.83	7140.12	-76.46	-3351.13	-109.82	865.69	359.55	2.41	PASS
10920.00†	6846.15	740.61	-3448.37	11163.80	7139.84	-76.23	-3451.10	-109.78	868.03	368.25	2.36	PASS
11020.00†	6845.71	743.28	-3548.33	11263.77	7139.56	-75.99	-3551.07	-109.73	870.38	376.95	2.31	PASS
11120.00†	6845.27	745.95	-3648.30	11363.74	7139.27	-75.76	-3651.04	-109.69	872.73	385.67	2.27	PASS
11220.00†	6844.82	748.62	-3748.26	11463.71	7138.99	-75.53	-3751.01	-109.64	875.07	394.40	2.22	PASS
11320.00†	6844.38	751.29	-3848.22	11563.68	7138.71	-75.29	-3850.98	-109.60	877.42	403.14	2.18	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 94 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
11420.00†	6843.94	753.95	-3948.19	11663.65	7138.43	-75.06	-3950.95	-109.56	879.77	411.89	2.14	PASS
11520.00†	6843.50	756.62	-4048.15	11763.62	7138.14	-74.83	-4050.92	-109.51	882.12	420.65	2.10	PASS
11620.00†	6843.06	759.29	-4148.11	11863.59	7137.86	-74.60	-4150.89	-109.47	884.47	429.41	2.06	PASS
11720.00†	6842.61	761.96	-4248.08	11963.56	7137.58	-74.36	-4250.86	-109.43	886.82	438.18	2.03	PASS
11820.00†	6842.17	764.63	-4348.04	12063.53	7137.30	-74.13	-4350.83	-109.38	889.17	446.96	1.99	PASS
11920.00†	6841.73	767.30	-4448.00	12163.50	7137.01	-73.90	-4450.80	-109.34	891.52	455.75	1.96	PASS
12020.00†	6841.29	769.97	-4547.97	12263.47	7136.73	-73.66	-4550.77	-109.30	893.87	464.54	1.93	PASS
12120.00†	6840.85	772.63	-4647.93	12363.44	7136.45	-73.43	-4650.74	-109.26	896.22	473.35	1.89	PASS
12220.00†	6840.40	775.30	-4747.89	12463.41	7136.17	-73.20	-4750.71	-109.22	898.58	482.15	1.86	PASS
12320.00†	6839.96	777.97	-4847.86	12563.38	7135.88	-72.97	-4850.68	-109.18	900.93	490.97	1.84	PASS
12420.00†	6839.52	780.64	-4947.82	12663.35	7135.60	-72.73	-4950.65	-109.13	903.28	499.79	1.81	PASS
12520.00†	6839.08	783.31	-5047.78	12763.32	7135.32	-72.50	-5050.62	-109.09	905.64	508.62	1.78	PASS
12620.00†	6838.64	785.98	-5147.75	12863.29	7135.04	-72.27	-5150.58	-109.05	907.99	517.45	1.76	PASS
12720.00†	6838.19	788.65	-5247.71	12963.26	7134.75	-72.03	-5250.55	-109.01	910.34	526.29	1.73	PASS
12820.00†	6837.75	791.32	-5347.68	13063.23	7134.47	-71.80	-5350.52	-108.97	912.70	535.13	1.71	PASS
12920.00†	6837.31	793.98	-5447.64	13163.20	7134.19	-71.57	-5450.49	-108.93	915.05	543.98	1.68	PASS
13020.00†	6836.87	796.65	-5547.60	13263.17	7133.91	-71.34	-5550.46	-108.89	917.41	552.84	1.66	PASS
13120.00†	6836.43	799.32	-5647.57	13363.14	7133.62	-71.10	-5650.43	-108.85	919.77	561.70	1.64	PASS
13220.00†	6835.98	801.99	-5747.53	13463.11	7133.34	-70.87	-5750.40	-108.81	922.12	570.56	1.62	PASS
13320.00†	6835.54	804.66	-5847.49	13563.08	7133.06	-70.64	-5850.37	-108.77	924.48	579.43	1.60	PASS
13420.00†	6835.10	807.33	-5947.46	13663.05	7132.78	-70.40	-5950.34	-108.73	926.84	588.31	1.58	PASS
13520.00†	6834.66	810.00	-6047.42	13763.02	7132.49	-70.17	-6050.31	-108.69	929.20	597.18	1.56	PASS
13620.00†	6834.22	812.66	-6147.38	13862.99	7132.21	-69.94	-6150.28	-108.66	931.56	606.07	1.54	PASS
13720.00†	6833.77	815.33	-6247.35	13962.96	7131.93	-69.71	-6250.25	-108.62	933.91	614.96	1.52	PASS
13820.00†	6833.33	818.00	-6347.31	14062.93	7131.65	-69.47	-6350.22	-108.58	936.27	623.85	1.50	PASS
13920.00†	6832.89	820.67	-6447.27	14162.90	7131.36	-69.24	-6450.19	-108.54	938.63	632.75	1.48	PASS
14020.00†	6832.45	823.34	-6547.24	14262.87	7131.08	-69.01	-6550.16	-108.50	940.99	641.65	1.47	PASS
14120.00†	6832.01	826.01	-6647.20	14362.84	7130.80	-68.77	-6650.13	-108.47	943.36	650.55	1.45	PASS
14220.00†	6831.57	828.68	-6747.16	14462.81	7130.52	-68.54	-6750.10	-108.43	945.72	659.46	1.43	PASS
14320.00†	6831.12	831.34	-6847.13	14562.78	7130.23	-68.31	-6850.07	-108.39	948.08	668.37	1.42	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 95 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
14420.00†	6830.68	834.01	-6947.09	14662.75	7129.95	-68.08	-6950.04	-108.35	950.44	677.29	1.40	PASS
14520.00†	6830.24	836.68	-7047.05	14762.72	7129.67	-67.84	-7050.01	-108.32	952.80	686.21	1.39	PASS
14620.00†	6829.80	839.35	-7147.02	14862.69	7129.39	-67.61	-7149.98	-108.28	955.16	695.13	1.37	PASS
14720.00†	6829.36	842.02	-7246.98	14962.66	7129.10	-67.38	-7249.95	-108.24	957.53	704.06	1.36	PASS
14820.00†	6828.91	844.69	-7346.94	15062.63	7128.82	-67.14	-7349.91	-108.21	959.89	712.99	1.35	PASS
14920.00†	6828.47	847.36	-7446.91	15162.60	7128.54	-66.91	-7449.88	-108.17	962.26	721.92	1.33	PASS
15020.00†	6828.03	850.03	-7546.87	15262.58	7128.26	-66.68	-7549.85	-108.13	964.62	730.86	1.32	PASS
15120.00†	6827.59	852.69	-7646.83	15362.55	7127.97	-66.45	-7649.82	-108.10	966.98	739.80	1.31	PASS
15220.00†	6827.15	855.36	-7746.80	15462.52	7127.69	-66.21	-7749.79	-108.06	969.35	748.75	1.29	PASS
15320.00†	6826.70	858.03	-7846.76	15562.49	7127.41	-65.98	-7849.76	-108.03	971.71	757.69	1.28	PASS
15420.00†	6826.26	860.70	-7946.72	15662.46	7127.13	-65.75	-7949.73	-107.99	974.08	766.64	1.27	PASS
15520.00†	6825.82	863.37	-8046.69	15762.43	7126.84	-65.51	-8049.70	-107.96	976.45	775.60	1.26	PASS
15620.00†	6825.38	866.04	-8146.65	15862.40	7126.56	-65.28	-8149.67	-107.92	978.81	784.55	1.25	PASS
15720.00†	6824.94	868.71	-8246.61	15962.37	7126.28	-65.05	-8249.64	-107.89	981.18	793.51	1.24	PASS
15820.00†	6824.49	871.37	-8346.58	16062.34	7126.00	-64.82	-8349.61	-107.85	983.55	802.48	1.23	PASS
15920.00†	6824.05	874.04	-8446.54	16162.31	7125.71	-64.58	-8449.58	-107.82	985.91	811.44	1.22	PASS
16020.00†	6823.61	876.71	-8546.50	16262.28	7125.43	-64.35	-8549.55	-107.78	988.28	820.41	1.20	PASS
16120.00†	6823.17	879.38	-8646.47	16362.25	7125.15	-64.12	-8649.52	-107.75	990.65	829.38	1.19	PASS
16220.00†	6822.73	882.05	-8746.43	16462.22	7124.87	-63.88	-8749.49	-107.71	993.02	838.36	1.18	PASS
16320.00†	6822.28	884.72	-8846.39	16562.19	7124.58	-63.65	-8849.46	-107.68	995.39	847.33	1.17	PASS
16420.00†	6821.84	887.39	-8946.36	16662.16	7124.30	-63.42	-8949.43	-107.65	997.76	856.31	1.17	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

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



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 96 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

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	-48.67	0.66	-48.98	42.16
9.625in Casing Surface	20.00	1750.00	1730.00	20.00	1741.34	-48.67	0.66	-48.98	42.16
8.5in Open Hole	1750.00	17476.97	15726.97	1741.34	7122.00	-48.98	42.16	-43.09	-2975.81

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-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 97 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	100.22	-6296.49	-89.09	6297.29	50.32	127.57	PASS
120.00†	120.00	0.00	0.00	173.00	120.00	100.22	-6296.49	-89.09	6297.29	51.06	125.69	PASS
220.00†	220.00	0.00	0.00	273.00	220.00	100.22	-6296.49	-89.09	6297.29	52.52	122.12	PASS
320.00†	320.00	0.00	0.00	373.00	320.00	100.22	-6296.49	-89.09	6297.29	54.62	117.35	PASS
350.00	350.00	0.00	0.00	403.00	350.00	100.22	-6296.49	-89.09	6297.29	55.31	115.86	PASS
420.00†	419.99	0.58	0.63	472.99	419.99	100.22	-6296.49	-136.26	6297.90	57.22	111.92	PASS
520.00†	519.90	3.43	3.70	572.90	519.90	100.22	-6296.49	-136.24	6300.93	60.24	106.28	PASS
620.00†	619.60	8.64	9.32	672.60	619.60	100.22	-6296.49	-136.21	6306.48	63.57	100.71	PASS
720.00†	718.97	16.22	17.50	771.97	718.97	100.22	-6296.49	-136.17	6314.55	67.12	95.43	PASS
820.00†	817.89	26.15	28.21	870.89	817.89	100.22	-6296.49	-136.11	6325.13	70.84	90.50	PASS
890.85	887.64	34.60	37.33	940.64	887.64	100.22	-6296.49	-136.07	6334.16	73.55	87.25	PASS
920.00†	916.27	38.32	41.34	969.27	916.27	100.22	-6296.49	-136.10	6338.13	74.67	85.97	PASS
1020.00†	1014.50	51.08	55.11	1067.50	1014.50	100.22	-6296.49	-136.22	6351.79	78.59	81.81	PASS
1120.00†	1112.72	63.84	68.87	1165.72	1112.72	100.22	-6296.49	-136.33	6365.46	82.60	77.96	PASS
1220.00†	1210.94	76.60	82.63	1263.94	1210.94	100.22	-6296.49	-136.45	6379.17	86.69	74.40	PASS
1320.00†	1309.17	89.36	96.40	1362.17	1309.17	100.22	-6296.49	-136.56	6392.90	90.85	71.11	PASS
1420.00†	1407.39	102.11	110.16	1460.39	1407.39	100.22	-6296.49	-136.68	6406.65	95.05	68.08	PASS
1520.00†	1505.61	114.87	123.93	1558.61	1505.61	100.22	-6296.49	-136.79	6420.43	99.31	65.28	PASS
1620.00†	1603.84	127.63	137.69	1656.84	1603.84	100.22	-6296.49	-136.90	6434.24	103.60	62.68	PASS
1720.00†	1702.06	140.39	151.45	1755.06	1702.06	100.22	-6296.49	-137.02	6448.07	107.93	60.27	PASS
1820.00†	1800.28	153.15	165.22	1853.28	1800.28	100.22	-6296.49	-137.13	6461.92	111.97	58.07	PASS
1920.00†	1898.51	165.91	178.98	1951.51	1898.51	100.22	-6296.49	-137.24	6475.80	116.22	56.06	PASS
2020.00†	1996.73	178.66	192.74	2049.73	1996.73	100.22	-6296.49	-137.35	6489.71	120.50	54.17	PASS
2120.00†	2094.95	191.42	206.51	2147.95	2094.95	100.22	-6296.49	-137.46	6503.64	124.80	52.40	PASS
2220.00†	2193.18	204.18	220.27	2246.18	2193.18	100.22	-6296.49	-137.57	6517.59	129.13	50.75	PASS
2320.00†	2291.40	216.94	234.04	2344.40	2291.40	100.22	-6296.49	-137.68	6531.57	133.48	49.19	PASS
2420.00†	2389.62	229.70	247.80	2442.62	2389.62	100.22	-6296.49	-137.79	6545.57	137.86	47.72	PASS
2520.00†	2487.85	242.45	261.56	2540.85	2487.85	100.22	-6296.49	-137.90	6559.59	142.25	46.34	PASS
2620.00†	2586.07	255.21	275.33	2639.07	2586.07	100.22	-6296.49	-138.01	6573.64	146.67	45.03	PASS
2720.00†	2684.29	267.97	289.09	2737.29	2684.29	100.22	-6296.49	-138.12	6587.72	151.10	43.80	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 98 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2835.51	2782.51	100.22	-6296.49	-138.23	6601.81	155.55	42.63	PASS
2920.00†	2880.74	293.49	316.62	2933.74	2880.74	100.22	-6296.49	-138.34	6615.93	160.02	41.52	PASS
3020.00†	2978.96	306.25	330.38	3031.96	2978.96	100.22	-6296.49	-138.44	6630.07	164.50	40.47	PASS
3120.00†	3077.18	319.00	344.15	3130.18	3077.18	100.22	-6296.49	-138.55	6644.24	169.00	39.48	PASS
3220.00†	3175.41	331.76	357.91	3228.41	3175.41	100.22	-6296.49	-138.66	6658.43	173.52	38.53	PASS
3320.00†	3273.63	344.52	371.67	3326.63	3273.63	100.22	-6296.49	-138.76	6672.64	178.04	37.62	PASS
3420.00†	3371.85	357.28	385.44	3424.85	3371.85	100.22	-6296.49	-138.87	6686.87	182.59	36.76	PASS
3520.00†	3470.08	370.04	399.20	3523.08	3470.08	100.22	-6296.49	-138.97	6701.12	187.14	35.94	PASS
3620.00†	3568.30	382.80	412.96	3621.30	3568.30	100.22	-6296.49	-139.07	6715.40	191.71	35.15	PASS
3720.00†	3666.52	395.55	426.73	3719.52	3666.52	100.22	-6296.49	-139.18	6729.70	196.30	34.40	PASS
3820.00†	3764.75	408.31	440.49	3817.75	3764.75	100.22	-6296.49	-139.28	6744.02	200.89	33.69	PASS
3920.00†	3862.97	421.07	454.26	3915.97	3862.97	100.22	-6296.49	-139.39	6758.37	205.50	33.00	PASS
4020.00†	3961.19	433.83	468.02	4014.19	3961.19	100.22	-6296.49	-139.49	6772.73	210.11	32.34	PASS
4120.00†	4059.42	446.59	481.78	4112.42	4059.42	100.22	-6296.49	-139.59	6787.12	214.74	31.71	PASS
4220.00†	4157.64	459.34	495.55	4210.64	4157.64	100.22	-6296.49	-139.69	6801.52	219.38	31.10	PASS
4320.00†	4255.86	472.10	509.31	4308.86	4255.86	100.22	-6296.49	-139.79	6815.95	224.03	30.52	PASS
4420.00†	4354.09	484.86	523.08	4407.09	4354.09	100.22	-6296.49	-139.89	6830.40	228.69	29.96	PASS
4520.00†	4452.31	497.62	536.84	4505.31	4452.31	100.22	-6296.49	-140.00	6844.87	233.35	29.42	PASS
4620.00†	4550.53	510.38	550.60	4603.53	4550.53	100.22	-6296.49	-140.10	6859.37	238.03	28.90	PASS
4720.00†	4648.75	523.14	564.37	4701.75	4648.75	100.22	-6296.49	-140.19	6873.88	242.72	28.40	PASS
4820.00†	4746.98	535.89	578.13	4799.98	4746.98	100.22	-6296.49	-140.29	6888.41	247.41	27.92	PASS
4920.00†	4845.20	548.65	591.89	4898.20	4845.20	100.22	-6296.49	-140.39	6902.96	252.11	27.45	PASS
5020.00†	4943.42	561.41	605.66	4996.42	4943.42	100.22	-6296.49	-140.49	6917.54	256.82	27.01	PASS
5120.00†	5041.65	574.17	619.42	5094.65	5041.65	100.22	-6296.49	-140.59	6932.13	261.54	26.57	PASS
5220.00†	5139.87	586.93	633.19	5192.87	5139.87	100.22	-6296.49	-140.69	6946.74	266.27	26.16	PASS
5320.00†	5238.09	599.68	646.95	5291.09	5238.09	100.22	-6296.49	-140.78	6961.38	271.00	25.75	PASS
5420.00†	5336.32	612.44	660.71	5389.32	5336.32	100.22	-6296.49	-140.88	6976.03	275.74	25.36	PASS
5520.00†	5434.54	625.20	674.48	5487.54	5434.54	100.22	-6296.49	-140.98	6990.71	280.48	24.98	PASS
5620.00†	5532.76	637.96	688.24	5585.76	5532.76	100.22	-6296.49	-141.07	7005.40	285.24	24.62	PASS
5720.00†	5630.99	650.72	702.00	5683.99	5630.99	100.22	-6296.49	-141.17	7020.11	290.00	24.26	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 99 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

CLEARANCE DATA - Offset Wellbore: EX. AUFRECHT 2 AWP 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†	5729.21	663.48	715.77	5782.21	5729.21	100.22	-6296.49	-141.26	7034.84	294.76	23.92	PASS
5920.00†	5827.43	676.23	729.53	5880.43	5827.43	100.22	-6296.49	-141.36	7049.59	299.53	23.59	PASS
6020.00†	5925.66	688.99	743.30	5978.66	5925.66	100.22	-6296.49	-141.45	7064.36	304.31	23.27	PASS
6120.00†	6023.88	701.75	757.06	6076.88	6023.88	100.22	-6296.49	-141.55	7079.15	309.09	22.95	PASS
6220.00†	6122.10	714.51	770.82	6175.10	6122.10	100.22	-6296.49	-141.64	7093.96	313.88	22.65	PASS
6237.28	6139.07	716.71	773.20	6192.07	6139.07	100.22	-6296.49	-141.66	7096.52	314.70	22.60	PASS
6320.00†	6220.86	727.06	779.25	6273.86	6220.86	100.22	-6296.49	-98.89	7103.45	318.73	22.33	PASS
6420.00†	6319.82	738.83	772.25	6372.82	6319.82	100.22	-6296.49	-42.98	7097.52	323.97	21.95	PASS
6520.00†	6416.56	749.52	749.77	6469.56	6416.56	100.22	-6296.49	-24.92	7076.11	329.51	21.52	PASS
6620.00†	6508.72	758.88	712.36	6561.72	6508.72	100.22	-6296.49	-18.17	7039.73	334.64	21.08	PASS
6720.00†	6594.01	766.68	660.94	6647.01	6594.01	100.22	-6296.49	-15.03	6989.27	339.24	20.64	PASS
6820.00†	6670.34	772.71	596.78	6723.34	6670.34	100.22	-6296.49	-13.55	6925.99	343.26	20.22	PASS
6920.00†	6735.84	776.83	521.46	6788.84	6735.84	100.22	-6296.49	-13.13	6851.44	346.63	19.80	PASS
7020.00†	6788.88	778.95	436.83	6841.88	6788.88	100.22	-6296.49	-13.73	6767.44	349.30	19.41	PASS
7120.00†	6828.16	779.00	344.98	6881.16	6828.16	100.22	-6296.49	-15.97	6676.07	351.23	19.04	PASS
7220.00†	6852.71	776.99	248.17	6905.71	6852.71	100.22	-6296.49	-23.12	6579.56	352.41	18.71	PASS
7320.00†	6861.94	772.97	148.78	6914.94	6861.94	100.22	-6296.49	-74.95	6480.29	352.86	18.40	PASS
7332.14	6862.00	772.35	136.65	6915.00	6862.00	100.22	-6296.49	-94.87	6468.16	352.87	18.37	PASS
7420.00†	6861.61	767.75	48.92	6914.61	6861.61	100.22	-6296.49	-94.81	6380.42	352.86	18.12	PASS
7520.00†	6861.17	762.51	-50.94	6914.17	6861.17	100.22	-6296.49	-94.73	6280.56	352.86	17.83	PASS
7620.00†	6860.73	757.28	-150.80	6913.73	6860.73	100.22	-6296.49	-94.66	6180.71	352.86	17.55	PASS
7720.00†	6860.29	752.05	-250.67	6913.29	6860.29	100.22	-6296.49	-94.58	6080.86	352.87	17.27	PASS
7820.00†	6859.85	746.81	-350.53	6912.85	6859.85	100.22	-6296.49	-94.51	5981.01	352.88	16.98	PASS
7920.00†	6859.40	741.58	-450.39	6912.40	6859.40	100.22	-6296.49	-94.43	5881.17	352.89	16.70	PASS
8020.00†	6858.96	736.35	-550.25	6911.96	6858.96	100.22	-6296.49	-94.36	5781.34	352.91	16.41	PASS
8120.00†	6858.52	731.11	-650.11	6911.52	6858.52	100.22	-6296.49	-94.28	5681.51	352.93	16.13	PASS
8220.00†	6858.08	725.88	-749.98	6911.08	6858.08	100.22	-6296.49	-94.21	5581.69	352.96	15.84	PASS
8320.00†	6857.64	720.65	-849.84	6910.64	6857.64	100.22	-6296.49	-94.13	5481.87	353.00	15.56	PASS
8420.00†	6857.20	715.41	-949.70	6910.20	6857.20	100.22	-6296.49	-94.06	5382.06	353.04	15.27	PASS
8520.00†	6856.75	710.18	-1049.56	6909.75	6856.75	100.22	-6296.49	-93.98	5282.26	353.08	14.99	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 100 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	6856.31	704.95	-1149.42	6909.31	6856.31	100.22	-6296.49	-93.91	5182.47	353.14	14.70	PASS
8720.00†	6855.87	699.71	-1249.29	6908.87	6855.87	100.22	-6296.49	-93.83	5082.68	353.20	14.42	PASS
8820.00†	6855.43	694.48	-1349.15	6908.43	6855.43	100.22	-6296.49	-93.76	4982.90	353.26	14.13	PASS
8832.14	6855.38	693.84	-1361.28	6908.38	6855.38	100.22	-6296.49	-93.75	4970.79	353.27	14.10	PASS
8920.00†	6854.99	690.59	-1449.07	6907.99	6854.99	100.22	-6296.49	-92.54	4883.24	353.36	13.85	PASS
9020.00†	6854.55	690.17	-1549.06	6907.55	6854.55	100.22	-6296.49	-91.84	4783.94	353.50	13.56	PASS
9058.60	6854.38	690.94	-1587.65	6907.38	6854.38	100.22	-6296.49	-91.66	4745.74	353.58	13.45	PASS
9120.00†	6854.10	692.58	-1649.03	6907.10	6854.10	100.22	-6296.49	-91.64	4685.06	353.72	13.27	PASS
9220.00†	6853.66	695.24	-1748.99	6906.66	6853.66	100.22	-6296.49	-91.60	4586.26	353.97	12.98	PASS
9320.00†	6853.22	697.91	-1848.96	6906.22	6853.22	100.22	-6296.49	-91.57	4487.51	354.27	12.69	PASS
9420.00†	6852.78	700.58	-1948.92	6905.78	6852.78	100.22	-6296.49	-91.53	4388.83	354.60	12.40	PASS
9520.00†	6852.34	703.25	-2048.88	6905.34	6852.34	100.22	-6296.49	-91.50	4290.20	354.98	12.11	PASS
9620.00†	6851.89	705.92	-2148.85	6904.89	6851.89	100.22	-6296.49	-91.46	4191.64	355.42	11.82	PASS
9720.00†	6851.45	708.59	-2248.81	6904.45	6851.45	100.22	-6296.49	-91.43	4093.14	355.90	11.52	PASS
9820.00†	6851.01	711.26	-2348.77	6904.01	6851.01	100.22	-6296.49	-91.39	3994.72	356.45	11.23	PASS
9920.00†	6850.57	713.92	-2448.74	6903.57	6850.57	100.22	-6296.49	-91.35	3896.39	357.07	10.93	PASS
10020.00†	6850.13	716.59	-2548.70	6903.13	6850.13	100.22	-6296.49	-91.32	3798.14	357.76	10.64	PASS
10120.00†	6849.68	719.26	-2648.66	6902.68	6849.68	100.22	-6296.49	-91.28	3699.98	358.53	10.34	PASS
10220.00†	6849.24	721.93	-2748.63	6902.24	6849.24	100.22	-6296.49	-91.25	3601.92	359.39	10.04	PASS
10320.00†	6848.80	724.60	-2848.59	6901.80	6848.80	100.22	-6296.49	-91.21	3503.98	360.35	9.74	PASS
10420.00†	6848.36	727.27	-2948.55	6901.36	6848.36	100.22	-6296.49	-91.18	3406.15	361.41	9.44	PASS
10520.00†	6847.92	729.94	-3048.52	6900.92	6847.92	100.22	-6296.49	-91.14	3308.45	362.59	9.14	PASS
10620.00†	6847.48	732.60	-3148.48	6900.48	6847.48	100.22	-6296.49	-91.11	3210.90	363.89	8.84	PASS
10720.00†	6847.03	735.27	-3248.44	6900.03	6847.03	100.22	-6296.49	-91.07	3113.50	365.34	8.54	PASS
10820.00†	6846.59	737.94	-3348.41	6899.59	6846.59	100.22	-6296.49	-91.04	3016.27	366.94	8.23	PASS
10920.00†	6846.15	740.61	-3448.37	6899.15	6846.15	100.22	-6296.49	-91.00	2919.23	368.70	7.93	PASS
11020.00†	6845.71	743.28	-3548.33	6898.71	6845.71	100.22	-6296.49	-90.97	2822.39	370.65	7.63	PASS
11120.00†	6845.27	745.95	-3648.30	6898.27	6845.27	100.22	-6296.49	-90.93	2725.78	372.81	7.32	PASS
11220.00†	6844.82	748.62	-3748.26	6897.82	6844.82	100.22	-6296.49	-90.89	2629.43	375.19	7.02	PASS
11320.00†	6844.38	751.29	-3848.22	6897.38	6844.38	100.22	-6296.49	-90.86	2533.35	377.83	6.72	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 101 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
11420.00†	6843.94	753.95	-3948.19	6896.94	6843.94	100.22	-6296.49	-90.82	2437.60	380.74	6.41	PASS
11520.00†	6843.50	756.62	-4048.15	6896.50	6843.50	100.22	-6296.49	-90.79	2342.20	383.96	6.11	PASS
11620.00†	6843.06	759.29	-4148.11	6896.06	6843.06	100.22	-6296.49	-90.75	2247.20	387.52	5.81	PASS
11720.00†	6842.61	761.96	-4248.08	6895.61	6842.61	100.22	-6296.49	-90.72	2152.65	391.46	5.51	PASS
11820.00†	6842.17	764.63	-4348.04	6895.17	6842.17	100.22	-6296.49	-90.68	2058.61	395.84	5.21	PASS
11920.00†	6841.73	767.30	-4448.00	6894.73	6841.73	100.22	-6296.49	-90.65	1965.17	400.69	4.91	PASS
12020.00†	6841.29	769.97	-4547.97	6894.29	6841.29	100.22	-6296.49	-90.61	1872.40	406.09	4.62	PASS
12120.00†	6840.85	772.63	-4647.93	6893.85	6840.85	100.22	-6296.49	-90.58	1780.42	412.10	4.33	PASS
12220.00†	6840.40	775.30	-4747.89	6893.40	6840.40	100.22	-6296.49	-90.54	1689.34	418.81	4.04	PASS
12320.00†	6839.96	777.97	-4847.86	6892.96	6839.96	100.22	-6296.49	-90.51	1599.34	426.30	3.76	PASS
12420.00†	6839.52	780.64	-4947.82	6892.52	6839.52	100.22	-6296.49	-90.47	1510.59	434.68	3.48	PASS
12520.00†	6839.08	783.31	-5047.78	6892.08	6839.08	100.22	-6296.49	-90.44	1423.33	444.08	3.21	PASS
12620.00†	6838.64	785.98	-5147.75	6891.64	6838.64	100.22	-6296.49	-90.40	1337.86	454.61	2.95	PASS
12720.00†	6838.19	788.65	-5247.71	6891.19	6838.19	100.22	-6296.49	-90.36	1254.54	466.43	2.69	PASS
12820.00†	6837.75	791.32	-5347.68	6890.75	6837.75	100.22	-6296.49	-90.33	1173.82	479.66	2.45	PASS
12920.00†	6837.31	793.98	-5447.64	6890.31	6837.31	100.22	-6296.49	-90.29	1096.29	494.43	2.22	PASS
13020.00†	6836.87	796.65	-5547.60	6889.87	6836.87	100.22	-6296.49	-90.26	1022.67	510.80	2.00	PASS
13120.00†	6836.43	799.32	-5647.57	6889.43	6836.43	100.22	-6296.49	-90.22	953.86	528.72	1.81	PASS
13220.00†	6835.98	801.99	-5747.53	6888.98	6835.98	100.22	-6296.49	-90.19	890.98	547.97	1.63	PASS
13320.00†	6835.54	804.66	-5847.49	6888.54	6835.54	100.22	-6296.49	-90.15	835.36	568.00	1.47	PASS
13420.00†	6835.10	807.33	-5947.46	6888.10	6835.10	100.22	-6296.49	-90.12	788.56	587.89	1.34	PASS
13520.00†	6834.66	810.00	-6047.42	6887.66	6834.66	100.22	-6296.49	-90.08	752.21	606.23	1.24	PASS
13620.00†	6834.22	812.66	-6147.38	6887.22	6834.22	100.22	-6296.49	-90.05	727.88	621.35	1.17	PASS
13720.00†	6833.77	815.33	-6247.35	6886.77	6833.77	100.22	-6296.49	-90.01	716.80	631.58	1.14	PASS
13749.38†	6833.65	816.12	-6276.71	6886.25	6833.25	100.22	-6296.49	-89.97	716.17	633.46	1.13	PASS
13779.73†	6833.51	816.93	-6307.05	6886.51	6833.51	100.22	-6296.49	-89.99	716.78	634.88	1.13	PASS
13820.00†	6833.33	818.00	-6347.31	6886.33	6833.33	100.22	-6296.49	-89.98	719.58	635.85	1.13	PASS
13920.00†	6832.89	820.67	-6447.27	6885.89	6832.89	100.22	-6296.49	-89.94	736.06	634.05	1.16	PASS
14020.00†	6832.45	823.34	-6547.24	6885.45	6832.45	100.22	-6296.49	-89.91	765.36	627.03	1.22	PASS
14120.00†	6832.01	826.01	-6647.20	6885.01	6832.01	100.22	-6296.49	-89.87	806.08	616.21	1.31	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 102 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
14220.00†	6831.57	828.68	-6747.16	6884.57	6831.57	100.22	-6296.49	-89.83	856.60	603.13	1.42	PASS
14320.00†	6831.12	831.34	-6847.13	6884.12	6831.12	100.22	-6296.49	-89.80	915.28	589.06	1.55	PASS
14420.00†	6830.68	834.01	-6947.09	6883.68	6830.68	100.22	-6296.49	-89.76	980.68	574.93	1.71	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-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)

Closest Approach

Page 103 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-99.88	1.39	179.20	99.89	1.57	164.43	PASS
120.00†	120.00	0.00	0.00	121.00	120.00	-99.88	1.39	179.20	99.89	1.89	107.25	PASS
220.00†	220.00	0.00	0.00	221.00	220.00	-99.88	1.39	179.20	99.89	2.45	66.39	PASS
320.00†	320.00	0.00	0.00	321.00	320.00	-99.88	1.39	179.20	99.89	3.06	47.27	PASS
350.00	350.00	0.00	0.00	351.00	350.00	-99.88	1.39	179.20	99.89	3.24	43.49	PASS
420.00†	419.99	0.58	0.63	420.99	419.99	-99.88	1.39	132.38	100.47	3.69	36.44	PASS
520.00†	519.90	3.43	3.70	520.90	519.90	-99.88	1.39	134.06	103.34	4.54	28.62	PASS
620.00†	619.60	8.64	9.32	620.48	619.48	-99.90	1.46	136.84	108.83	5.51	23.74	PASS
720.00†	718.97	16.22	17.50	719.49	718.45	-100.43	3.82	139.26	117.45	6.43	21.31	PASS
820.00†	817.89	26.15	28.21	818.34	817.13	-101.72	9.50	140.74	129.23	7.34	20.13	PASS
890.85	887.64	34.60	37.33	888.21	886.72	-103.08	15.52	141.29	139.41	7.95	19.82	PASS
920.00†	916.27	38.32	41.34	916.91	915.27	-103.75	18.47	141.43	143.90	8.16	19.86	PASS
1020.00†	1014.50	51.08	55.11	1015.35	1012.89	-106.52	30.71	141.06	159.49	8.89	20.00	PASS
1120.00†	1112.72	63.84	68.87	1114.06	1110.56	-109.68	44.68	140.18	175.21	9.69	19.97	PASS
1220.00†	1210.94	76.60	82.63	1212.78	1208.24	-112.84	58.65	139.44	190.97	10.55	19.82	PASS
1320.00†	1309.17	89.36	96.40	1311.51	1305.92	-116.01	72.62	138.81	206.76	11.45	19.62	PASS
1420.00†	1407.39	102.11	110.16	1410.23	1403.60	-119.17	86.59	138.28	222.57	12.41	19.35	PASS
1520.00†	1505.61	114.87	123.93	1508.95	1501.28	-122.33	100.56	137.81	238.39	13.34	19.18	PASS
1620.00†	1603.84	127.63	137.69	1607.68	1598.95	-125.49	114.53	137.40	254.23	14.32	18.96	PASS
1720.00†	1702.06	140.39	151.45	1706.40	1696.63	-128.66	128.50	137.04	270.08	15.32	18.75	PASS
1820.00†	1800.28	153.15	165.22	1805.12	1794.31	-131.82	142.47	136.72	285.93	15.63	19.12	PASS
1920.00†	1898.51	165.91	178.98	1903.84	1891.99	-134.98	156.44	136.44	301.80	15.77	19.99	PASS
2020.00†	1996.73	178.66	192.74	2002.57	1989.67	-138.14	170.41	136.18	317.67	15.95	20.80	PASS
2120.00†	2094.95	191.42	206.51	2101.29	2087.34	-141.31	184.39	135.95	333.55	16.21	21.47	PASS
2220.00†	2193.18	204.18	220.27	2200.01	2185.02	-144.47	198.36	135.74	349.43	16.55	22.02	PASS
2320.00†	2291.40	216.94	234.04	2298.74	2282.70	-147.63	212.33	135.54	365.32	16.95	22.45	PASS
2420.00†	2389.62	229.70	247.80	2397.46	2380.38	-150.79	226.30	135.37	381.21	17.42	22.77	PASS
2520.00†	2487.85	242.45	261.56	2496.18	2478.06	-153.96	240.27	135.20	397.10	17.95	22.99	PASS
2620.00†	2586.07	255.21	275.33	2594.90	2575.73	-157.12	254.24	135.05	413.00	18.54	23.12	PASS
2720.00†	2684.29	267.97	289.09	2693.63	2673.41	-160.28	268.21	134.91	428.90	19.17	23.19	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 104 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2792.35	2771.09	-163.44	282.18	134.78	444.80	19.85	23.20	PASS
2920.00†	2880.74	293.49	316.62	2891.07	2868.77	-166.61	296.15	134.66	460.70	20.57	23.16	PASS
3020.00†	2978.96	306.25	330.38	2989.80	2966.45	-169.77	310.12	134.55	476.61	21.33	23.08	PASS
3120.00†	3077.18	319.00	344.15	3088.52	3064.12	-172.93	324.10	134.44	492.52	22.11	22.98	PASS
3220.00†	3175.41	331.76	357.91	3187.24	3161.80	-176.09	338.07	134.35	508.42	22.93	22.85	PASS
3320.00†	3273.63	344.52	371.67	3285.96	3259.48	-179.26	352.04	134.25	524.34	23.77	22.71	PASS
3420.00†	3371.85	357.28	385.44	3384.69	3357.16	-182.42	366.01	134.17	540.25	24.63	22.55	PASS
3520.00†	3470.08	370.04	399.20	3483.41	3454.84	-185.58	379.98	134.08	556.16	25.52	22.39	PASS
3620.00†	3568.30	382.80	412.96	3582.13	3552.52	-188.74	393.95	134.01	572.07	26.42	22.22	PASS
3720.00†	3666.52	395.55	426.73	3680.85	3650.19	-191.91	407.92	133.93	587.99	27.34	22.05	PASS
3820.00†	3764.75	408.31	440.49	3779.58	3747.87	-195.07	421.89	133.86	603.90	28.27	21.88	PASS
3920.00†	3862.97	421.07	454.26	3878.30	3845.55	-198.23	435.86	133.80	619.82	29.22	21.71	PASS
4020.00†	3961.19	433.83	468.02	3977.02	3943.23	-201.39	449.83	133.73	635.74	30.18	21.55	PASS
4120.00†	4059.42	446.59	481.78	4075.75	4040.91	-204.56	463.80	133.67	651.65	31.15	21.38	PASS
4220.00†	4157.64	459.34	495.55	4174.47	4138.58	-207.72	477.78	133.62	667.57	32.14	21.22	PASS
4320.00†	4255.86	472.10	509.31	4273.19	4236.26	-210.88	491.75	133.56	683.49	33.13	21.06	PASS
4420.00†	4354.09	484.86	523.08	4371.91	4333.94	-214.04	505.72	133.51	699.41	34.12	20.91	PASS
4520.00†	4452.31	497.62	536.84	4470.64	4431.62	-217.21	519.69	133.46	715.33	35.13	20.76	PASS
4620.00†	4550.53	510.38	550.60	4569.36	4529.30	-220.37	533.66	133.42	731.25	36.14	20.62	PASS
4720.00†	4648.75	523.14	564.37	4668.08	4626.97	-223.53	547.63	133.37	747.17	37.16	20.48	PASS
4820.00†	4746.98	535.89	578.13	4766.81	4724.65	-226.69	561.60	133.33	763.09	38.19	20.34	PASS
4920.00†	4845.20	548.65	591.89	4865.53	4822.33	-229.86	575.57	133.29	779.01	39.22	20.21	PASS
5020.00†	4943.42	561.41	605.66	4964.25	4920.01	-233.02	589.54	133.25	794.94	40.26	20.08	PASS
5120.00†	5041.65	574.17	619.42	5062.97	5017.69	-236.18	603.51	133.21	810.86	41.30	19.96	PASS
5220.00†	5139.87	586.93	633.19	5161.70	5115.36	-239.34	617.48	133.17	826.78	42.34	19.84	PASS
5320.00†	5238.09	599.68	646.95	5260.42	5213.04	-242.51	631.46	133.13	842.71	43.39	19.73	PASS
5420.00†	5336.32	612.44	660.71	5359.14	5310.72	-245.67	645.43	133.10	858.63	44.44	19.62	PASS
5520.00†	5434.54	625.20	674.48	5457.86	5408.40	-248.83	659.40	133.07	874.55	45.50	19.51	PASS
5620.00†	5532.76	637.96	688.24	5556.59	5506.08	-251.99	673.37	133.04	890.48	46.56	19.41	PASS
5720.00†	5630.99	650.72	702.00	5655.31	5603.75	-255.16	687.34	133.01	906.40	47.62	19.31	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 105 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5754.03	5701.43	-258.32	701.31	132.98	922.33	48.68	19.21	PASS
5920.00†	5827.43	676.23	729.53	5852.76	5799.11	-261.48	715.28	132.95	938.25	49.75	19.12	PASS
6020.00†	5925.66	688.99	743.30	5951.48	5896.79	-264.64	729.25	132.92	954.18	50.82	19.03	PASS
6120.00†	6023.88	701.75	757.06	6050.20	5994.47	-267.81	743.22	132.89	970.10	51.89	18.94	PASS
6220.00†	6122.10	714.51	770.82	6148.92	6092.14	-270.97	757.19	132.87	986.03	52.97	18.85	PASS
6237.28	6139.07	716.71	773.20	6165.98	6109.02	-271.51	759.61	132.86	988.78	53.15	18.84	PASS
6320.00†	6220.86	727.06	779.25	6247.43	6189.61	-274.12	771.13	176.53	1001.70	54.05	18.77	PASS
6420.00†	6319.82	738.83	772.25	6344.62	6285.89	-277.24	783.91	-127.20	1016.70	55.32	18.60	PASS
6520.00†	6416.56	749.52	749.77	6444.50	6385.61	-280.47	784.69	-108.96	1031.06	56.90	18.34	PASS
6620.00†	6508.72	758.88	712.36	6548.58	6488.31	-283.81	768.91	-102.05	1044.43	58.76	17.98	PASS
6720.00†	6594.01	766.68	660.94	6657.30	6591.36	-287.16	734.81	-98.74	1056.43	60.30	17.72	PASS
6820.00†	6670.34	772.71	596.78	6770.96	6691.23	-290.42	680.98	-97.00	1066.66	62.15	17.35	PASS
6920.00†	6735.84	776.83	521.46	6889.58	6783.54	-293.44	606.81	-96.10	1074.73	64.96	16.72	PASS
7020.00†	6788.88	778.95	436.83	7012.82	6863.17	-296.05	513.04	-95.70	1080.26	68.33	15.96	PASS
7120.00†	6828.16	779.00	344.98	7139.90	6924.81	-298.09	402.18	-95.63	1082.93	73.02	14.97	PASS
7220.00†	6852.71	776.99	248.17	7269.56	6963.79	-299.40	278.75	-95.78	1082.53	73.69	14.82	PASS
7320.00†	6861.94	772.97	148.78	7400.22	6977.01	-299.87	148.99	-96.09	1078.99	84.55	12.86	PASS
7332.14	6862.00	772.35	136.65	7412.82	6976.96	-299.87	136.39	-96.14	1078.36	85.20	12.75	PASS
7420.00†	6861.61	767.75	48.92	7500.56	6976.59	-299.89	48.66	-96.17	1073.81	90.14	12.00	PASS
7520.00†	6861.17	762.51	-50.94	7600.42	6976.16	-299.91	-51.21	-96.20	1068.63	96.25	11.18	PASS
7620.00†	6860.73	757.28	-150.80	7700.28	6975.74	-299.93	-151.07	-96.23	1063.45	102.82	10.41	PASS
7720.00†	6860.29	752.05	-250.67	7800.15	6975.32	-299.95	-250.93	-96.26	1058.27	109.76	9.70	PASS
7820.00†	6859.85	746.81	-350.53	7900.01	6974.90	-299.97	-350.80	-96.29	1053.09	117.01	9.05	PASS
7920.00†	6859.40	741.58	-450.39	7999.88	6974.48	-299.99	-450.66	-96.33	1047.91	124.51	8.46	PASS
8020.00†	6858.96	736.35	-550.25	8099.74	6974.06	-300.01	-550.52	-96.36	1042.73	132.22	7.92	PASS
8120.00†	6858.52	731.11	-650.11	8199.60	6973.64	-300.04	-650.39	-96.39	1037.55	140.10	7.44	PASS
8220.00†	6858.08	725.88	-749.98	8299.47	6973.21	-300.06	-750.25	-96.43	1032.38	148.13	7.00	PASS
8320.00†	6857.64	720.65	-849.84	8399.33	6972.79	-300.08	-850.11	-96.46	1027.20	156.29	6.60	PASS
8420.00†	6857.20	715.41	-949.70	8499.20	6972.37	-300.10	-949.98	-96.49	1022.02	164.54	6.23	PASS
8520.00†	6856.75	710.18	-1049.56	8599.06	6971.95	-300.12	-1049.84	-96.53	1016.84	172.89	5.90	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 106 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	6856.31	704.95	-1149.42	8698.93	6971.53	-300.14	-1149.70	-96.56	1011.67	181.31	5.60	PASS
8720.00†	6855.87	699.71	-1249.29	8798.79	6971.11	-300.16	-1249.57	-96.60	1006.49	189.80	5.32	PASS
8820.00†	6855.43	694.48	-1349.15	8898.65	6970.69	-300.18	-1349.43	-96.63	1001.31	198.34	5.06	PASS
8832.14	6855.38	693.84	-1361.28	8910.78	6970.64	-300.18	-1361.56	-96.64	1000.68	199.38	5.03	PASS
8920.00†	6854.99	690.59	-1449.07	8998.57	6970.26	-300.20	-1449.35	-96.64	997.47	206.96	4.83	PASS
9020.00†	6854.55	690.17	-1549.06	9098.57	6969.84	-300.22	-1549.34	-96.64	997.08	215.67	4.64	PASS
9058.60	6854.38	690.94	-1587.65	9137.16	6969.68	-300.23	-1587.94	-96.63	997.85	219.05	4.57	PASS
9120.00†	6854.10	692.58	-1649.03	9198.54	6969.42	-300.24	-1649.31	-96.62	999.49	224.44	4.46	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

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	-60.89	0.85	-70.08	41.47
9.625in Casing Surface	20.00	1750.00	1730.00	19.00	1739.77	-60.89	0.85	-70.08	41.47
8.5in Open Hole	1750.00	17356.82	15606.82	1739.77	N/A	-70.08	41.47	N/A	N/A



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 107 of 170



REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

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-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 108 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-353.79	-69.92	-168.82	360.63	50.17	7.31	PASS
120.00†	120.00	0.00	0.00	104.00	120.00	-353.79	-69.92	-168.82	360.63	50.22	7.30	PASS
220.00†	220.00	0.00	0.00	204.00	220.00	-353.79	-69.92	-168.82	360.63	50.27	7.29	PASS
320.00†	320.00	0.00	0.00	304.00	320.00	-353.79	-69.92	-168.82	360.63	50.33	7.29	PASS
350.00	350.00	0.00	0.00	334.00	350.00	-353.79	-69.92	-168.82	360.63	50.35	7.28	PASS
420.00†	419.99	0.58	0.63	403.99	419.99	-353.79	-69.92	144.08	361.32	50.39	7.29	PASS
520.00†	519.90	3.43	3.70	503.90	519.90	-353.79	-69.92	144.43	364.72	50.48	7.35	PASS
620.00†	619.60	8.64	9.32	603.60	619.60	-353.79	-69.92	145.04	370.99	50.60	7.46	PASS
720.00†	718.97	16.22	17.50	702.97	718.97	-353.79	-69.92	145.90	380.20	50.72	7.62	PASS
820.00†	817.89	26.15	28.21	802.16	818.16	-353.79	-69.92	146.96	392.41	50.85	7.85	PASS
890.85	887.64	34.60	37.33	881.88	897.87	-352.64	-70.15	148.03	402.02	50.97	8.02	PASS
920.00†	916.27	38.32	41.34	914.69	930.66	-351.54	-70.38	148.56	405.81	51.01	8.09	PASS
1020.00†	1014.50	51.08	55.11	1027.57	1043.33	-344.94	-71.74	150.52	416.84	51.12	8.29	PASS
1120.00†	1112.72	63.84	68.87	1140.61	1155.81	-333.98	-74.01	152.67	424.89	51.22	8.44	PASS
1220.00†	1210.94	76.60	82.63	1253.47	1267.58	-318.71	-77.16	155.05	430.13	51.29	8.53	PASS
1320.00†	1309.17	89.36	96.40	1365.80	1378.13	-299.25	-81.18	157.69	432.79	51.37	8.57	PASS
1420.00†	1407.39	102.11	110.16	1477.27	1486.98	-275.75	-86.04	160.62	433.14	51.46	8.56	PASS
1520.00†	1505.61	114.87	123.93	1587.54	1593.66	-248.44	-91.68	163.87	431.55	51.59	8.51	PASS
1620.00†	1603.84	127.63	137.69	1687.60	1689.74	-221.08	-97.33	167.08	429.20	51.93	8.40	PASS
1720.00†	1702.06	140.39	151.45	1784.60	1782.85	-194.43	-102.84	170.23	428.13	52.35	8.31	PASS
1820.00†	1800.28	153.15	165.22	1881.61	1875.96	-167.78	-108.34	173.38	428.44	52.51	8.26	PASS
1920.00†	1898.51	165.91	178.98	1978.61	1969.06	-141.14	-113.85	176.52	430.12	52.91	8.23	PASS
2020.00†	1996.73	178.66	192.74	2075.60	2062.16	-114.50	-119.35	179.63	433.16	53.36	8.21	PASS
2120.00†	2094.95	191.42	206.51	2172.60	2155.27	-87.86	-124.86	177.32	437.53	53.84	8.22	PASS
2220.00†	2193.18	204.18	220.27	2269.61	2248.38	-61.22	-130.36	174.33	443.20	54.35	8.25	PASS
2320.00†	2291.40	216.94	234.04	2366.61	2341.50	-34.57	-135.86	171.41	450.10	54.90	8.29	PASS
2420.00†	2389.62	229.70	247.80	2463.62	2434.61	-7.93	-141.37	168.59	458.20	55.48	8.35	PASS
2520.00†	2487.85	242.45	261.56	2560.62	2527.72	18.71	-146.87	165.87	467.41	56.08	8.43	PASS
2620.00†	2586.07	255.21	275.33	2657.63	2620.83	45.35	-152.37	163.25	477.68	56.71	8.52	PASS
2720.00†	2684.29	267.97	289.09	2754.63	2713.94	71.99	-157.88	160.75	488.95	57.36	8.62	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 109 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2851.64	2807.06	98.63	-163.38	-158.35	501.14	58.03	8.73	PASS
2920.00†	2880.74	293.49	316.62	2948.64	2900.17	125.27	-168.89	-156.07	514.19	58.72	8.85	PASS
3020.00†	2978.96	306.25	330.38	3045.65	2993.28	151.91	-174.39	-153.90	528.03	59.42	8.98	PASS
3120.00†	3077.18	319.00	344.15	3142.65	3086.39	178.55	-179.89	-151.84	542.61	60.14	9.12	PASS
3220.00†	3175.41	331.76	357.91	3239.66	3179.51	205.19	-185.40	-149.88	557.87	60.88	9.26	PASS
3320.00†	3273.63	344.52	371.67	3336.66	3272.62	231.83	-190.90	-148.03	573.75	61.63	9.41	PASS
3420.00†	3371.85	357.28	385.44	3433.66	3365.73	258.47	-196.41	-146.27	590.20	62.40	9.56	PASS
3520.00†	3470.08	370.04	399.20	3530.67	3458.84	285.11	-201.91	-144.61	607.18	63.18	9.71	PASS
3620.00†	3568.30	382.80	412.96	3627.67	3551.96	311.75	-207.41	-143.04	624.65	63.97	9.86	PASS
3720.00†	3666.52	395.55	426.73	3724.68	3645.07	338.39	-212.92	-141.55	642.55	64.77	10.02	PASS
3820.00†	3764.75	408.31	440.49	3821.68	3738.18	365.04	-218.42	-140.15	660.87	65.59	10.18	PASS
3920.00†	3862.97	421.07	454.26	3918.69	3831.29	391.68	-223.92	-138.81	679.56	66.41	10.33	PASS
4020.00†	3961.19	433.83	468.02	4015.69	3924.40	418.32	-229.43	-137.55	698.59	67.25	10.49	PASS
4120.00†	4059.42	446.59	481.78	4112.70	4017.52	444.96	-234.93	-136.35	717.94	68.10	10.64	PASS
4220.00†	4157.64	459.34	495.55	4209.70	4110.63	471.60	-240.44	-135.22	737.59	68.96	10.80	PASS
4320.00†	4255.86	472.10	509.31	4306.71	4203.74	498.24	-245.94	-134.14	757.50	69.83	10.95	PASS
4420.00†	4354.09	484.86	523.08	4403.71	4296.85	524.88	-251.44	-133.12	777.66	70.72	11.10	PASS
4520.00†	4452.31	497.62	536.84	4500.72	4389.97	551.52	-256.95	-132.14	798.05	71.61	11.25	PASS
4620.00†	4550.53	510.38	550.60	4597.72	4483.08	578.16	-262.45	-131.22	818.66	72.51	11.39	PASS
4720.00†	4648.75	523.14	564.37	4694.73	4576.19	604.80	-267.96	-130.34	839.46	73.42	11.53	PASS
4820.00†	4746.98	535.89	578.13	4791.73	4669.30	631.44	-273.46	-129.50	860.45	74.35	11.68	PASS
4920.00†	4845.20	548.65	591.89	4888.74	4762.42	658.08	-278.96	-128.71	881.60	75.28	11.81	PASS
5020.00†	4943.42	561.41	605.66	4985.74	4855.53	684.72	-284.47	-127.95	902.91	76.22	11.95	PASS
5120.00†	5041.65	574.17	619.42	5082.74	4948.64	711.36	-289.97	-127.22	924.37	77.17	12.08	PASS
5220.00†	5139.87	586.93	633.19	5179.75	5041.75	738.00	-295.47	-126.53	945.97	78.12	12.21	PASS
5320.00†	5238.09	599.68	646.95	5276.75	5134.86	764.64	-300.98	-125.86	967.70	79.09	12.34	PASS
5420.00†	5336.32	612.44	660.71	5376.26	5230.39	791.91	-306.61	-125.22	989.52	80.09	12.46	PASS
5520.00†	5434.54	625.20	674.48	5489.26	5339.64	820.15	-312.45	-124.67	1010.46	81.25	12.54	PASS
5620.00†	5532.76	637.96	688.24	5603.52	5451.19	844.40	-317.46	-124.38	1029.90	82.37	12.60	PASS
5720.00†	5630.99	650.72	702.00	5718.71	5564.54	864.41	-321.59	-124.33	1047.77	83.45	12.65	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 110 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5834.46	5679.18	880.01	-324.81	-124.51	1064.05	84.48	12.69	PASS
5920.00†	5827.43	676.23	729.53	5950.39	5794.55	891.07	-327.10	-124.92	1078.75	85.46	12.72	PASS
6020.00†	5925.66	688.99	743.30	6066.12	5910.08	897.55	-328.44	-125.55	1091.94	86.39	12.74	PASS
6120.00†	6023.88	701.75	757.06	6179.94	6023.88	899.46	-328.83	-126.36	1103.74	87.26	12.74	PASS
6220.00†	6122.10	714.51	770.82	6278.16	6122.10	899.46	-328.83	-127.13	1115.10	88.08	12.75	PASS
6237.28	6139.07	716.71	773.20	6295.14	6139.07	899.46	-328.83	-127.26	1117.08	88.22	12.76	PASS
6320.00†	6220.86	727.06	779.25	6376.92	6220.86	899.46	-328.83	-85.09	1121.41	88.92	12.70	PASS
6420.00†	6319.82	738.83	772.25	6475.88	6319.82	899.46	-328.83	-29.44	1112.73	90.00	12.45	PASS
6520.00†	6416.56	749.52	749.77	6572.62	6416.56	899.46	-328.83	-11.16	1088.97	91.36	12.00	PASS
6620.00†	6508.72	758.88	712.36	6664.78	6508.72	899.46	-328.83	-3.64	1050.63	92.61	11.42	PASS
6720.00†	6594.01	766.68	660.94	6750.07	6594.01	899.46	-328.83	1.01	998.64	93.67	10.73	PASS
6820.00†	6670.34	772.71	596.78	6826.40	6670.34	899.46	-328.83	5.10	934.25	94.52	9.95	PASS
6920.00†	6735.84	776.83	521.46	6891.90	6735.84	899.46	-328.83	9.97	859.09	95.16	9.09	PASS
7020.00†	6788.88	778.95	436.83	6944.94	6788.88	899.46	-328.83	17.35	775.09	95.59	8.16	PASS
7120.00†	6828.16	779.00	344.98	6984.22	6828.16	899.46	-328.83	30.60	684.50	95.83	7.19	PASS
7220.00†	6852.71	776.99	248.17	7008.77	6852.71	899.46	-328.83	55.27	589.86	95.92	6.19	PASS
7320.00†	6861.94	772.97	148.78	7018.00	6861.94	899.46	-328.83	87.40	494.08	95.91	5.18	PASS
7332.14	6862.00	772.35	136.65	7018.06	6862.00	899.46	-328.83	90.77	482.53	95.91	5.06	PASS
7420.00†	6861.61	767.75	48.92	7017.67	6861.61	899.46	-328.83	90.62	400.06	96.00	4.19	PASS
7520.00†	6861.17	762.51	-50.94	7017.23	6861.17	899.46	-328.83	90.45	309.80	96.55	3.22	PASS
7620.00†	6860.73	757.28	-150.80	7016.79	6860.73	899.46	-328.83	90.29	227.84	98.52	2.32	PASS
7720.00†	6860.29	752.05	-250.67	7016.35	6860.29	899.46	-328.83	90.12	166.86	103.82	1.61	PASS
7790.17†	6859.98	748.37	-320.73	7015.97	6859.91	899.46	-328.83	89.98	151.31	109.01	1.39	PASS
7801.62†	6859.93	747.78	-332.17	7015.99	6859.93	899.46	-328.83	89.98	151.73	109.67	1.39	PASS
7820.00†	6859.85	746.81	-350.53	7015.91	6859.85	899.46	-328.83	89.95	154.19	110.50	1.40	PASS
7920.00†	6859.40	741.58	-450.39	7015.47	6859.40	899.46	-328.83	89.78	199.26	110.18	1.81	PASS
8020.00†	6858.96	736.35	-550.25	7015.02	6858.96	899.46	-328.83	89.62	275.02	107.02	2.58	PASS
8120.00†	6858.52	731.11	-650.11	7014.58	6858.52	899.46	-328.83	89.45	362.72	104.65	3.48	PASS
8220.00†	6858.08	725.88	-749.98	7014.14	6858.08	899.46	-328.83	89.28	455.52	103.11	4.44	PASS
8320.00†	6857.64	720.65	-849.84	7013.70	6857.64	899.46	-328.83	89.11	550.84	102.10	5.43	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 111 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	6857.20	715.41	-949.70	7013.26	6857.20	899.46	-328.83	88.95	647.57	101.40	6.42	PASS
8520.00†	6856.75	710.18	-1049.56	7012.82	6856.75	899.46	-328.83	88.78	745.17	100.90	7.43	PASS
8620.00†	6856.31	704.95	-1149.42	7012.37	6856.31	899.46	-328.83	88.61	843.33	100.52	8.44	PASS
8720.00†	6855.87	699.71	-1249.29	7011.93	6855.87	899.46	-328.83	88.45	941.88	100.23	9.46	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 112 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
20.00	20.00	0.00	0.00	21.00	20.00	-119.92	1.62	179.22	119.93	1.57	197.73	PASS
120.00†	120.00	0.00	0.00	121.00	120.00	-119.92	1.62	179.22	119.93	1.89	128.93	PASS
220.00†	220.00	0.00	0.00	221.00	220.00	-119.92	1.62	179.22	119.93	2.45	79.81	PASS
320.00†	320.00	0.00	0.00	321.00	320.00	-119.92	1.62	179.22	119.93	3.06	56.83	PASS
350.00	350.00	0.00	0.00	351.00	350.00	-119.92	1.62	179.22	119.93	3.24	52.29	PASS
420.00†	419.99	0.58	0.63	420.99	419.99	-119.92	1.62	132.35	120.51	3.69	43.77	PASS
520.00†	519.90	3.43	3.70	520.90	519.90	-119.92	1.62	133.74	123.37	4.54	34.24	PASS
620.00†	619.60	8.64	9.32	620.60	619.60	-119.92	1.62	136.13	128.79	5.50	28.19	PASS
720.00†	718.97	16.22	17.50	719.36	718.36	-120.17	2.43	138.88	137.22	6.42	24.96	PASS
820.00†	817.89	26.15	28.21	817.69	816.59	-121.35	6.32	140.84	149.13	7.33	23.26	PASS
890.85	887.64	34.60	37.33	887.19	885.92	-122.79	11.01	141.75	159.59	7.94	22.74	PASS
920.00†	916.27	38.32	41.34	915.74	914.36	-123.52	13.40	142.05	164.25	8.15	22.71	PASS
1020.00†	1014.50	51.08	55.11	1013.68	1011.70	-126.66	23.67	142.26	180.52	8.86	22.74	PASS
1120.00†	1112.72	63.84	68.87	1111.85	1108.92	-130.66	36.77	141.57	197.17	9.63	22.65	PASS
1220.00†	1210.94	76.60	82.63	1210.41	1206.45	-134.81	50.34	140.87	213.91	10.45	22.44	PASS
1320.00†	1309.17	89.36	96.40	1308.97	1303.98	-138.96	63.91	140.27	230.67	11.33	22.16	PASS
1420.00†	1407.39	102.11	110.16	1407.53	1401.51	-143.11	77.47	139.75	247.46	12.24	21.86	PASS
1520.00†	1505.61	114.87	123.93	1506.09	1499.04	-147.25	91.04	139.30	264.26	13.17	21.58	PASS
1620.00†	1603.84	127.63	137.69	1604.64	1596.57	-151.40	104.61	138.90	281.08	14.13	21.27	PASS
1720.00†	1702.06	140.39	151.45	1703.20	1694.10	-155.55	118.18	138.54	297.91	15.10	21.00	PASS
1820.00†	1800.28	153.15	165.22	1801.76	1791.64	-159.70	131.75	138.23	314.75	15.41	21.36	PASS
1920.00†	1898.51	165.91	178.98	1900.32	1889.17	-163.84	145.31	137.94	331.59	15.56	22.28	PASS
2020.00†	1996.73	178.66	192.74	1998.88	1986.70	-167.99	158.88	137.69	348.45	15.74	23.13	PASS
2120.00†	2094.95	191.42	206.51	2097.43	2084.23	-172.14	172.45	137.45	365.31	16.00	23.84	PASS
2220.00†	2193.18	204.18	220.27	2195.99	2181.76	-176.29	186.02	137.24	382.17	16.34	24.41	PASS
2320.00†	2291.40	216.94	234.04	2294.55	2279.29	-180.43	199.58	137.05	399.05	16.74	24.84	PASS
2420.00†	2389.62	229.70	247.80	2393.11	2376.83	-184.58	213.15	136.87	415.92	17.22	25.15	PASS
2520.00†	2487.85	242.45	261.56	2491.67	2474.36	-188.73	226.72	136.70	432.80	17.75	25.35	PASS
2620.00†	2586.07	255.21	275.33	2590.22	2571.89	-192.87	240.29	136.55	449.68	18.34	25.47	PASS
2720.00†	2684.29	267.97	289.09	2688.78	2669.42	-197.02	253.86	136.41	466.56	18.97	25.50	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 113 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
2820.00†	2782.51	280.73	302.85	2787.34	2766.95	-201.17	267.42	136.28	483.45	19.65	25.48	PASS
2920.00†	2880.74	293.49	316.62	2885.90	2864.48	-205.32	280.99	136.16	500.34	20.38	25.40	PASS
3020.00†	2978.96	306.25	330.38	2984.46	2962.01	-209.46	294.56	136.04	517.23	21.13	25.29	PASS
3120.00†	3077.18	319.00	344.15	3083.01	3059.55	-213.61	308.13	135.94	534.12	21.92	25.15	PASS
3220.00†	3175.41	331.76	357.91	3181.57	3157.08	-217.76	321.70	135.83	551.02	22.74	24.98	PASS
3320.00†	3273.63	344.52	371.67	3280.13	3254.61	-221.91	335.26	135.74	567.92	23.58	24.80	PASS
3420.00†	3371.85	357.28	385.44	3378.69	3352.14	-226.05	348.83	135.65	584.81	24.44	24.61	PASS
3520.00†	3470.08	370.04	399.20	3477.25	3449.67	-230.20	362.40	135.57	601.71	25.33	24.41	PASS
3620.00†	3568.30	382.80	412.96	3575.80	3547.20	-234.35	375.97	135.49	618.61	26.23	24.21	PASS
3720.00†	3666.52	395.55	426.73	3674.36	3644.73	-238.50	389.54	135.41	635.51	27.15	24.01	PASS
3820.00†	3764.75	408.31	440.49	3772.92	3742.27	-242.64	403.10	135.34	652.42	28.09	23.80	PASS
3920.00†	3862.97	421.07	454.26	3871.48	3839.80	-246.79	416.67	135.27	669.32	29.03	23.60	PASS
4020.00†	3961.19	433.83	468.02	3970.04	3937.33	-250.94	430.24	135.21	686.22	29.99	23.41	PASS
4120.00†	4059.42	446.59	481.78	4068.59	4034.86	-255.09	443.81	135.15	703.13	30.96	23.22	PASS
4220.00†	4157.64	459.34	495.55	4167.15	4132.39	-259.23	457.37	135.09	720.03	31.94	23.03	PASS
4320.00†	4255.86	472.10	509.31	4265.71	4229.92	-263.38	470.94	135.03	736.94	32.93	22.85	PASS
4420.00†	4354.09	484.86	523.08	4364.27	4327.46	-267.53	484.51	134.98	753.85	33.93	22.67	PASS
4520.00†	4452.31	497.62	536.84	4462.83	4424.99	-271.68	498.08	134.93	770.76	34.94	22.50	PASS
4620.00†	4550.53	510.38	550.60	4561.38	4522.52	-275.82	511.65	134.88	787.66	35.95	22.33	PASS
4720.00†	4648.75	523.14	564.37	4659.94	4620.05	-279.97	525.21	134.83	804.57	36.97	22.17	PASS
4820.00†	4746.98	535.89	578.13	4758.50	4717.58	-284.12	538.78	134.79	821.48	37.99	22.02	PASS
4920.00†	4845.20	548.65	591.89	4857.06	4815.11	-288.27	552.35	134.74	838.39	39.02	21.87	PASS
5020.00†	4943.42	561.41	605.66	4955.62	4912.64	-292.41	565.92	134.70	855.30	40.05	21.72	PASS
5120.00†	5041.65	574.17	619.42	5054.17	5010.18	-296.56	579.49	134.66	872.21	41.09	21.58	PASS
5220.00†	5139.87	586.93	633.19	5152.73	5107.71	-300.71	593.05	134.62	889.12	42.13	21.45	PASS
5320.00†	5238.09	599.68	646.95	5251.29	5205.24	-304.86	606.62	134.59	906.04	43.18	21.32	PASS
5420.00†	5336.32	612.44	660.71	5349.85	5302.77	-309.00	620.19	134.55	922.95	44.23	21.19	PASS
5520.00†	5434.54	625.20	674.48	5448.41	5400.30	-313.15	633.76	134.52	939.86	45.29	21.07	PASS
5620.00†	5532.76	637.96	688.24	5546.96	5497.83	-317.30	647.33	134.49	956.77	46.34	20.95	PASS
5720.00†	5630.99	650.72	702.00	5645.52	5595.36	-321.45	660.89	134.45	973.68	47.40	20.84	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 114 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5744.08	5692.90	-325.59	674.46	134.42	990.60	48.46	20.73	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

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	-73.10	0.99	-84.56	38.48
9.625in Casing Surface	20.00	1750.00	1730.00	19.00	1740.42	-73.10	0.99	-84.56	38.48
8.5in Open Hole	20.00	17483.28	17463.28	19.00	7022.00	-73.10	0.99	-202.52	-3002.27

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-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 115 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
20.00	20.00	0.00	0.00	21.00	20.00	-139.96	1.62	179.34	139.97	1.57	231.03	PASS
120.00†	120.00	0.00	0.00	121.00	120.00	-139.96	1.62	179.34	139.97	1.89	150.35	PASS
220.00†	220.00	0.00	0.00	221.00	220.00	-139.96	1.62	179.34	139.97	2.46	93.04	PASS
320.00†	320.00	0.00	0.00	321.00	320.00	-139.96	1.62	179.34	139.97	3.06	66.27	PASS
350.00	350.00	0.00	0.00	351.00	350.00	-139.96	1.62	179.34	139.97	3.24	60.99	PASS
420.00†	419.99	0.58	0.63	420.99	419.99	-139.96	1.62	132.41	140.54	3.70	51.03	PASS
520.00†	519.90	3.43	3.70	520.90	519.90	-139.96	1.62	133.61	143.40	4.54	39.81	PASS
620.00†	619.60	8.64	9.32	620.60	619.60	-139.96	1.62	135.67	148.80	5.49	32.63	PASS
720.00†	718.97	16.22	17.50	719.48	718.48	-139.99	1.68	138.36	157.01	6.42	28.62	PASS
820.00†	817.89	26.15	28.21	816.04	815.00	-141.25	3.59	140.72	169.22	7.34	26.37	PASS
890.85	887.64	34.60	37.33	884.14	883.02	-143.21	6.57	141.98	180.51	7.99	25.56	PASS
920.00†	916.27	38.32	41.34	912.09	910.90	-144.27	8.18	142.44	185.65	8.21	25.47	PASS
1020.00†	1014.50	51.08	55.11	1007.82	1006.22	-149.03	15.43	143.29	204.17	8.91	25.57	PASS
1120.00†	1112.72	63.84	68.87	1103.15	1100.82	-155.51	25.29	143.23	223.95	9.62	25.76	PASS
1220.00†	1210.94	76.60	82.63	1197.88	1194.38	-163.65	37.69	142.48	244.98	10.35	26.00	PASS
1320.00†	1309.17	89.36	96.40	1295.32	1290.33	-172.94	51.84	141.49	266.72	11.07	26.28	PASS
1420.00†	1407.39	102.11	110.16	1392.83	1386.36	-182.24	66.00	140.65	288.53	11.82	26.48	PASS
1520.00†	1505.61	114.87	123.93	1490.34	1482.39	-191.54	80.15	139.93	310.40	12.60	26.59	PASS
1620.00†	1603.84	127.63	137.69	1587.85	1578.42	-200.84	94.31	139.30	332.30	13.39	26.66	PASS
1720.00†	1702.06	140.39	151.45	1685.36	1674.45	-210.14	108.47	138.75	354.24	14.18	26.73	PASS
1820.00†	1800.28	153.15	165.22	1782.87	1770.48	-219.44	122.62	138.27	376.20	14.46	27.30	PASS
1920.00†	1898.51	165.91	178.98	1880.39	1866.51	-228.74	136.78	137.84	398.19	14.66	28.49	PASS
2020.00†	1996.73	178.66	192.74	1977.90	1962.54	-238.04	150.94	137.45	420.19	14.89	29.57	PASS
2120.00†	2094.95	191.42	206.51	2075.41	2058.56	-247.34	165.10	137.10	442.22	15.21	30.46	PASS
2220.00†	2193.18	204.18	220.27	2172.92	2154.59	-256.64	179.25	136.78	464.25	15.60	31.14	PASS
2320.00†	2291.40	216.94	234.04	2270.43	2250.62	-265.94	193.41	136.50	486.30	16.06	31.64	PASS
2420.00†	2389.62	229.70	247.80	2367.94	2346.65	-275.24	207.57	136.24	508.36	16.58	31.98	PASS
2520.00†	2487.85	242.45	261.56	2465.45	2442.68	-284.54	221.73	136.00	530.43	17.17	32.19	PASS
2620.00†	2586.07	255.21	275.33	2562.97	2538.71	-293.84	235.88	135.77	552.51	17.80	32.28	PASS
2720.00†	2684.29	267.97	289.09	2660.48	2634.74	-303.14	250.04	135.57	574.59	18.49	32.28	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 116 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2757.99	2730.77	-312.45	264.20	135.38	596.68	19.21	32.21	PASS
2920.00†	2880.74	293.49	316.62	2855.50	2826.80	-321.75	278.35	135.21	618.78	19.97	32.08	PASS
3020.00†	2978.96	306.25	330.38	2953.01	2922.82	-331.05	292.51	135.04	640.88	20.77	31.91	PASS
3120.00†	3077.18	319.00	344.15	3050.52	3018.85	-340.35	306.67	134.89	662.98	21.60	31.71	PASS
3220.00†	3175.41	331.76	357.91	3148.03	3114.88	-349.65	320.83	134.75	685.09	22.45	31.48	PASS
3320.00†	3273.63	344.52	371.67	3245.54	3210.91	-358.95	334.98	134.61	707.21	23.32	31.24	PASS
3420.00†	3371.85	357.28	385.44	3343.06	3306.94	-368.25	349.14	134.49	729.33	24.22	30.99	PASS
3520.00†	3470.08	370.04	399.20	3440.57	3402.97	-377.55	363.30	134.37	751.45	25.13	30.74	PASS
3620.00†	3568.30	382.80	412.96	3538.08	3499.00	-386.85	377.46	134.26	773.57	26.06	30.48	PASS
3720.00†	3666.52	395.55	426.73	3635.59	3595.03	-396.15	391.61	134.15	795.70	27.00	30.23	PASS
3820.00†	3764.75	408.31	440.49	3733.10	3691.06	-405.45	405.77	134.05	817.82	27.96	29.98	PASS
3920.00†	3862.97	421.07	454.26	3830.61	3787.08	-414.75	419.93	133.96	839.96	28.93	29.74	PASS
4020.00†	3961.19	433.83	468.02	3928.12	3883.11	-424.05	434.08	133.87	862.09	29.91	29.50	PASS
4120.00†	4059.42	446.59	481.78	4025.64	3979.14	-433.35	448.24	133.78	884.22	30.90	29.26	PASS
4220.00†	4157.64	459.34	495.55	4123.15	4075.17	-442.65	462.40	133.70	906.36	31.90	29.04	PASS
4320.00†	4255.86	472.10	509.31	4220.66	4171.20	-451.95	476.56	133.63	928.50	32.91	28.82	PASS
4420.00†	4354.09	484.86	523.08	4318.17	4267.23	-461.25	490.71	133.55	950.64	33.92	28.60	PASS
4520.00†	4452.31	497.62	536.84	4415.68	4363.26	-470.55	504.87	133.48	972.78	34.94	28.40	PASS
4620.00†	4550.53	510.38	550.60	4513.19	4459.29	-479.85	519.03	133.42	994.92	35.97	28.20	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

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



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 117 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

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	-85.32	0.99	-108.59	36.42
9.625in Casing Surface	20.00	1750.00	1730.00	19.00	1738.10	-85.32	0.99	-108.59	36.42
8.5in Open Hole	1750.00	17160.04	15410.04	1738.10	6936.00	-108.59	36.42	-282.07	-2919.56

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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 118 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-494.52	-8163.77	-93.47	8178.73	50.32	165.69	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 119 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-643.46	-9372.19	-93.93	9394.26	50.26	190.54	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 120 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-159.99	1.93	179.31	160.01	1.57	264.34	PASS	
120.00†	120.00	0.00	0.00	121.00	120.00	-159.99	1.93	179.31	160.01	1.89	171.82	PASS	
220.00†	220.00	0.00	0.00	221.00	220.00	-159.99	1.93	179.31	160.01	2.46	106.30	PASS	
320.00†	320.00	0.00	0.00	321.00	320.00	-159.99	1.93	179.31	160.01	3.06	75.74	PASS	
350.00	350.00	0.00	0.00	351.00	350.00	-159.99	1.93	179.31	160.01	3.25	69.70	PASS	
420.00†	419.99	0.58	0.63	420.99	419.99	-159.99	1.93	132.35	160.58	3.70	58.30	PASS	
520.00†	519.90	3.43	3.70	520.90	519.90	-159.99	1.93	133.40	163.43	4.54	45.40	PASS	
620.00†	619.60	8.64	9.32	620.60	619.60	-159.99	1.93	135.21	168.80	5.49	37.08	PASS	
720.00†	718.97	16.22	17.50	719.97	718.97	-159.99	1.93	137.64	176.90	6.41	32.32	PASS	
820.00†	817.89	26.15	28.21	816.48	815.48	-160.50	2.51	140.21	188.43	7.32	29.49	PASS	
890.85	887.64	34.60	37.33	883.77	882.73	-162.06	4.28	141.71	199.48	7.97	28.35	PASS	
920.00†	916.27	38.32	41.34	911.38	910.29	-163.00	5.34	142.28	204.60	8.19	28.16	PASS	
1020.00†	1014.50	51.08	55.11	1005.89	1004.55	-167.55	10.50	143.59	223.35	8.94	27.89	PASS	
1120.00†	1112.72	63.84	68.87	1099.96	1098.09	-174.11	17.95	144.04	243.78	9.67	27.89	PASS	
1220.00†	1210.94	76.60	82.63	1193.40	1190.63	-182.64	27.62	143.83	265.79	10.42	27.99	PASS	
1320.00†	1309.17	89.36	96.40	1286.02	1281.90	-193.06	39.44	143.13	289.39	11.16	28.28	PASS	
1420.00†	1407.39	102.11	110.16	1382.39	1376.53	-205.10	53.09	142.20	313.99	11.90	28.62	PASS	
1520.00†	1505.61	114.87	123.93	1479.20	1471.60	-217.20	66.81	141.41	338.66	12.64	28.92	PASS	
1620.00†	1603.84	127.63	137.69	1576.01	1566.66	-229.29	80.53	140.72	363.38	13.43	29.08	PASS	
1720.00†	1702.06	140.39	151.45	1672.82	1661.73	-241.39	94.26	140.12	388.14	14.18	29.29	PASS	
1820.00†	1800.28	153.15	165.22	1769.63	1756.79	-253.49	107.98	139.59	412.94	14.49	29.91	PASS	
1920.00†	1898.51	165.91	178.98	1866.44	1851.86	-265.59	121.70	139.12	437.77	14.70	31.23	PASS	
2020.00†	1996.73	178.66	192.74	1963.25	1946.92	-277.69	135.42	138.71	462.63	14.93	32.48	PASS	
2120.00†	2094.95	191.42	206.51	2060.06	2041.99	-289.79	149.14	138.33	487.50	15.23	33.52	PASS	
2220.00†	2193.18	204.18	220.27	2156.87	2137.06	-301.89	162.87	137.99	512.40	15.61	34.33	PASS	
2320.00†	2291.40	216.94	234.04	2253.68	2232.12	-313.99	176.59	137.68	537.30	16.07	34.94	PASS	
2420.00†	2389.62	229.70	247.80	2350.49	2327.19	-326.09	190.31	137.40	562.22	16.58	35.37	PASS	
2520.00†	2487.85	242.45	261.56	2447.30	2422.25	-338.18	204.03	137.15	587.16	17.16	35.65	PASS	
2620.00†	2586.07	255.21	275.33	2544.11	2517.32	-350.28	217.76	136.91	612.10	17.79	35.80	PASS	
2720.00†	2684.29	267.97	289.09	2640.92	2612.38	-362.38	231.48	136.69	637.05	18.46	35.84	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 121 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
2820.00†	2782.51	280.73	302.85	2737.73	2707.45	-374.48	245.20	136.49	662.01	19.18	35.80	PASS
2920.00†	2880.74	293.49	316.62	2834.53	2802.51	-386.58	258.92	136.31	686.98	19.94	35.69	PASS
3020.00†	2978.96	306.25	330.38	2931.34	2897.58	-398.68	272.65	136.13	711.95	20.73	35.53	PASS
3120.00†	3077.18	319.00	344.15	3028.15	2992.65	-410.78	286.37	135.97	736.93	21.55	35.33	PASS
3220.00†	3175.41	331.76	357.91	3124.96	3087.71	-422.88	300.09	135.82	761.91	22.39	35.11	PASS
3320.00†	3273.63	344.52	371.67	3221.77	3182.78	-434.98	313.81	135.68	786.90	23.26	34.86	PASS
3420.00†	3371.85	357.28	385.44	3318.58	3277.84	-447.07	327.54	135.55	811.90	24.15	34.61	PASS
3520.00†	3470.08	370.04	399.20	3415.39	3372.91	-459.17	341.26	135.42	836.89	25.06	34.34	PASS
3620.00†	3568.30	382.80	412.96	3512.20	3467.97	-471.27	354.98	135.31	861.89	25.98	34.08	PASS
3720.00†	3666.52	395.55	426.73	3609.01	3563.04	-483.37	368.70	135.19	886.90	26.92	33.81	PASS
3820.00†	3764.75	408.31	440.49	3705.82	3658.10	-495.47	382.43	135.09	911.90	27.87	33.55	PASS
3920.00†	3862.97	421.07	454.26	3802.63	3753.17	-507.57	396.15	134.99	936.91	28.84	33.28	PASS
4020.00†	3961.19	433.83	468.02	3899.44	3848.24	-519.67	409.87	134.90	961.92	29.81	33.03	PASS
4120.00†	4059.42	446.59	481.78	3996.25	3943.30	-531.77	423.59	134.81	986.94	30.80	32.78	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: GREELEY-ROTHER FEDERAL 34C-2-L PWB Offset Wellpath: GREELEY-ROTHER 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

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	-97.53	1.18	-125.28	32.65
9.625in Casing Surface	20.00	1750.00	1730.00	19.00	1737.52	-97.53	1.18	-125.28	32.65
8.5in Open Hole	1750.00	17388.56	15638.56	1737.52	7163.00	-125.28	32.65	-361.89	-2932.81



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 122 of 170



REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 123 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	2566.00	-8984.01	-74.06	9343.28	50.25	189.54	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 124 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
20.00	20.00	0.00	0.00	16.00	20.00	825.38	-10967.47	-85.70	10998.49	50.17	223.51	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 125 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

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

Facility: SEC.02-T05N-R67W Slot: SLOT#06 EX. AUFRECHT N 2-16 (660'FSL & 660'FEL, CODL/PR) Well: EX. AUFRECHT 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	-605.27	-5467.23	-96.32	5500.64	50.29	111.49	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

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

OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. AURFRECHT N 2-16 AWP 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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 126 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	2594.71	-7697.83	-71.37	8123.37	50.24	164.82	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 127 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-472.75	-2904.01	-99.25	2942.24	2.29	2217.29	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 128 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-601.16	-4226.84	-98.10	4269.37	2.96	2139.65	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 129 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	1729.10	427.60	13.89	7251.88	142.64	51.18	PASS
120.00†	120.00	0.00	0.00	15521.99	7049.74	1729.10	427.60	13.89	7154.99	143.80	50.09	PASS
220.00†	220.00	0.00	0.00	15521.99	7049.74	1729.10	427.60	13.89	7058.18	144.48	49.17	PASS
320.00†	320.00	0.00	0.00	15521.99	7049.74	1729.10	427.60	13.89	6961.46	145.20	48.26	PASS
350.00	350.00	0.00	0.00	15521.99	7049.74	1729.10	427.60	13.89	6932.47	145.42	47.98	PASS
420.00†	419.99	0.58	0.63	15521.99	7049.74	1729.10	427.60	-36.40	6864.66	145.93	47.35	PASS
520.00†	519.90	3.43	3.70	15521.99	7049.74	1729.10	427.60	-41.78	6767.30	146.64	46.45	PASS
620.00†	619.60	8.64	9.32	15521.99	7049.74	1729.10	427.60	-48.50	6669.45	147.30	45.57	PASS
720.00†	718.97	16.22	17.50	15521.99	7049.74	1729.10	427.60	-56.88	6571.20	147.93	44.71	PASS
820.00†	817.89	26.15	28.21	15521.99	7049.74	1729.10	427.60	-67.08	6472.67	148.51	43.86	PASS
890.85	887.64	34.60	37.33	15521.99	7049.74	1729.10	427.60	-75.32	6402.73	148.89	43.28	PASS
920.00†	916.27	38.32	41.34	15521.99	7049.74	1729.10	427.60	-75.32	6373.95	149.04	43.04	PASS
1020.00†	1014.50	51.08	55.11	15521.99	7049.74	1729.10	427.60	-75.32	6275.24	149.57	42.22	PASS
1120.00†	1112.72	63.84	68.87	15521.99	7049.74	1729.10	427.60	-75.32	6176.56	150.12	41.40	PASS
1220.00†	1210.94	76.60	82.63	15521.99	7049.74	1729.10	427.60	-75.32	6077.93	150.70	40.59	PASS
1320.00†	1309.17	89.36	96.40	15521.99	7049.74	1729.10	427.60	-75.32	5979.35	151.30	39.77	PASS
1420.00†	1407.39	102.11	110.16	15521.99	7049.74	1729.10	427.60	-75.32	5880.81	151.92	38.95	PASS
1520.00†	1505.61	114.87	123.93	15521.99	7049.74	1729.10	427.60	-75.32	5782.32	152.57	38.13	PASS
1620.00†	1603.84	127.63	137.69	15521.99	7049.74	1729.10	427.60	-75.32	5683.89	153.25	37.32	PASS
1720.00†	1702.06	140.39	151.45	15521.99	7049.74	1729.10	427.60	-75.32	5585.51	153.95	36.50	PASS
1820.00†	1800.28	153.15	165.22	15521.99	7049.74	1729.10	427.60	-75.32	5487.19	154.43	35.69	PASS
1920.00†	1898.51	165.91	178.98	15521.99	7049.74	1729.10	427.60	-75.32	5388.93	155.19	34.88	PASS
2020.00†	1996.73	178.66	192.74	15521.99	7049.74	1729.10	427.60	-75.32	5290.74	155.97	34.07	PASS
2120.00†	2094.95	191.42	206.51	15521.99	7049.74	1729.10	427.60	-75.32	5192.61	156.79	33.26	PASS
2220.00†	2193.18	204.18	220.27	15521.99	7049.74	1729.10	427.60	-75.32	5094.56	157.65	32.46	PASS
2320.00†	2291.40	216.94	234.04	15521.99	7049.74	1729.10	427.60	-75.32	4996.59	158.54	31.65	PASS
2420.00†	2389.62	229.70	247.80	15521.99	7049.74	1729.10	427.60	-75.32	4898.69	159.48	30.85	PASS
2520.00†	2487.85	242.45	261.56	15521.99	7049.74	1729.10	427.60	-75.32	4800.89	160.46	30.05	PASS
2620.00†	2586.07	255.21	275.33	15521.99	7049.74	1729.10	427.60	-75.32	4703.18	161.48	29.25	PASS
2720.00†	2684.29	267.97	289.09	15521.99	7049.74	1729.10	427.60	-75.32	4605.56	162.56	28.45	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 130 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
2820.00†	2782.51	280.73	302.85	15521.99	7049.74	1729.10	427.60	-75.32	4508.05	163.68	27.66	PASS
2920.00†	2880.74	293.49	316.62	15521.99	7049.74	1729.10	427.60	-75.32	4410.65	164.87	26.86	PASS
3020.00†	2978.96	306.25	330.38	15521.99	7049.74	1729.10	427.60	-75.32	4313.37	166.11	26.07	PASS
3120.00†	3077.18	319.00	344.15	15521.99	7049.74	1729.10	427.60	-75.32	4216.22	167.41	25.29	PASS
3220.00†	3175.41	331.76	357.91	15521.99	7049.74	1729.10	427.60	-75.32	4119.20	168.78	24.50	PASS
3320.00†	3273.63	344.52	371.67	15521.99	7049.74	1729.10	427.60	-75.32	4022.33	170.22	23.73	PASS
3420.00†	3371.85	357.28	385.44	15521.99	7049.74	1729.10	427.60	-75.32	3925.62	171.74	22.95	PASS
3520.00†	3470.08	370.04	399.20	15521.99	7049.74	1729.10	427.60	-75.32	3829.08	173.33	22.18	PASS
3620.00†	3568.30	382.80	412.96	15521.99	7049.74	1729.10	427.60	-75.32	3732.71	175.02	21.41	PASS
3720.00†	3666.52	395.55	426.73	15521.99	7049.74	1729.10	427.60	-75.32	3636.55	176.81	20.65	PASS
3820.00†	3764.75	408.31	440.49	15521.99	7049.74	1729.10	427.60	-75.32	3540.59	178.69	19.89	PASS
3920.00†	3862.97	421.07	454.26	15521.99	7049.74	1729.10	427.60	-75.32	3444.87	180.68	19.14	PASS
4020.00†	3961.19	433.83	468.02	15521.99	7049.74	1729.10	427.60	-75.32	3349.40	182.80	18.39	PASS
4120.00†	4059.42	446.59	481.78	15521.99	7049.74	1729.10	427.60	-75.32	3254.20	185.04	17.65	PASS
4220.00†	4157.64	459.34	495.55	15521.99	7049.74	1729.10	427.60	-75.32	3159.29	187.42	16.92	PASS
4320.00†	4255.86	472.10	509.31	15521.99	7049.74	1729.10	427.60	-75.32	3064.71	189.95	16.19	PASS
4420.00†	4354.09	484.86	523.08	15514.95	7049.89	1729.27	434.63	-74.97	2970.48	192.46	15.49	PASS
4520.00†	4452.31	497.62	536.84	15498.80	7050.23	1729.68	450.78	-74.15	2876.56	194.92	14.81	PASS
4620.00†	4550.53	510.38	550.60	15482.64	7050.57	1730.09	466.92	-73.33	2782.96	197.55	14.13	PASS
4720.00†	4648.75	523.14	564.37	15466.49	7050.91	1730.50	483.07	-72.49	2689.74	200.38	13.47	PASS
4820.00†	4746.98	535.89	578.13	15450.34	7051.25	1730.91	499.21	-71.64	2596.91	203.42	12.81	PASS
4920.00†	4845.20	548.65	591.89	15434.18	7051.59	1731.32	515.35	-70.78	2504.54	206.70	12.15	PASS
5020.00†	4943.42	561.41	605.66	15418.03	7051.93	1731.73	531.50	-69.91	2412.66	210.24	11.51	PASS
5120.00†	5041.65	574.17	619.42	15401.88	7052.27	1732.13	547.64	-69.03	2321.35	214.06	10.88	PASS
5220.00†	5139.87	586.93	633.19	15385.73	7052.61	1732.54	563.79	-68.14	2230.66	218.20	10.25	PASS
5320.00†	5238.09	599.68	646.95	15369.57	7052.96	1732.95	579.93	-67.24	2140.68	222.67	9.64	PASS
5420.00†	5336.32	612.44	660.71	15353.42	7053.30	1733.36	596.08	-66.33	2051.50	227.53	9.04	PASS
5520.00†	5434.54	625.20	674.48	15337.27	7053.64	1733.77	612.22	-65.41	1963.23	232.79	8.46	PASS
5620.00†	5532.76	637.96	688.24	15321.11	7053.98	1734.18	628.36	-64.47	1876.00	238.51	7.89	PASS
5720.00†	5630.99	650.72	702.00	15304.96	7054.32	1734.58	644.51	-63.53	1789.96	244.72	7.33	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 131 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
5820.00†	5729.21	663.48	715.77	15288.81	7054.66	1734.99	660.65	-62.59	1705.29	251.46	6.80	PASS
5920.00†	5827.43	676.23	729.53	15272.65	7055.00	1735.40	676.80	-61.63	1622.20	258.78	6.28	PASS
6020.00†	5925.66	688.99	743.30	15256.50	7055.34	1735.81	692.94	-60.66	1540.96	266.71	5.79	PASS
6120.00†	6023.88	701.75	757.06	15240.35	7055.68	1736.22	709.09	-59.69	1461.86	275.26	5.32	PASS
6220.00†	6122.10	714.51	770.82	15224.19	7056.03	1736.63	725.23	-58.71	1385.29	284.45	4.88	PASS
6237.28	6139.07	716.71	773.20	15221.40	7056.08	1736.70	728.02	-58.54	1372.34	286.10	4.81	PASS
6320.00†	6220.86	727.06	779.25	15213.37	7056.25	1736.90	736.05	-7.11	1311.31	294.50	4.46	PASS
6420.00†	6319.82	738.83	772.25	15217.98	7056.16	1736.78	731.44	57.54	1240.88	305.77	4.07	PASS
6520.00†	6416.56	749.52	749.77	15238.14	7055.73	1736.27	711.29	82.04	1176.30	317.99	3.71	PASS
6620.00†	6508.72	758.88	712.36	15273.34	7054.99	1735.38	676.11	93.10	1119.50	330.38	3.39	PASS
6720.00†	6594.01	766.68	660.94	15322.74	7053.95	1734.13	626.74	98.80	1071.77	342.54	3.13	PASS
6820.00†	6670.34	772.71	596.78	15385.09	7052.63	1732.56	564.42	101.59	1033.68	354.05	2.92	PASS
6920.00†	6735.84	776.83	521.46	15458.89	7051.07	1730.69	490.67	102.61	1005.07	364.66	2.76	PASS
7020.00†	6788.88	778.95	436.83	15521.99	7049.74	1729.10	427.60	103.12	985.35	373.18	2.64	PASS
7110.00†	6824.88	779.09	354.43	15521.99	7049.74	1729.10	427.60	104.13	978.99	375.14	2.61	PASS
7110.70†	6825.11	779.08	353.77	15521.99	7049.74	1729.10	427.60	104.13	978.99	375.14	2.61	PASS
7120.00†	6828.16	779.00	344.98	15521.99	7049.74	1729.10	427.60	104.16	979.08	375.13	2.61	PASS
7220.00†	6852.71	776.99	248.17	15521.99	7049.74	1729.10	427.60	103.64	988.69	372.65	2.66	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



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 132 of 170



REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 133 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	2761.90	-6286.34	-66.28	6866.31	50.24	139.31	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 134 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-664.65	-10987.09	-93.46	11007.17	25.57	447.37	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 135 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	3047.55	2978.42	2430.21	-10805.98	-77.33	11464.17	54.80	212.92	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 136 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-450.33	-345.84	-142.48	567.80	50.18	11.52	PASS
120.00†	120.00	0.00	0.00	107.00	120.00	-450.33	-345.84	-142.48	567.80	50.44	11.46	PASS
220.00†	220.00	0.00	0.00	207.00	220.00	-450.33	-345.84	-142.48	567.80	51.43	11.23	PASS
320.00†	320.00	0.00	0.00	307.00	320.00	-450.33	-345.84	-142.48	567.80	53.14	10.86	PASS
350.00	350.00	0.00	0.00	337.00	350.00	-450.33	-345.84	-142.48	567.80	53.81	10.73	PASS
420.00†	419.99	0.58	0.63	406.99	419.99	-450.33	-345.84	170.36	568.65	55.43	10.42	PASS
520.00†	519.90	3.43	3.70	506.90	519.90	-450.33	-345.84	170.42	572.77	58.23	9.99	PASS
620.00†	619.60	8.64	9.32	606.60	619.60	-450.33	-345.84	170.52	580.34	61.40	9.59	PASS
720.00†	718.97	16.22	17.50	705.97	718.97	-450.33	-345.84	170.66	591.34	64.84	9.24	PASS
820.00†	817.89	26.15	28.21	804.89	817.89	-450.33	-345.84	170.84	605.76	68.47	8.96	PASS
890.85	887.64	34.60	37.33	874.64	887.64	-450.33	-345.84	170.99	618.04	71.13	8.79	PASS
920.00†	916.27	38.32	41.34	903.27	916.27	-450.33	-345.84	171.06	623.45	72.22	8.74	PASS
1020.00†	1014.50	51.08	55.11	1001.50	1014.50	-450.33	-345.84	171.32	642.00	76.06	8.54	PASS
1120.00†	1112.72	63.84	68.87	1099.72	1112.72	-450.33	-345.84	171.57	660.57	79.99	8.35	PASS
1220.00†	1210.94	76.60	82.63	1197.94	1210.94	-450.33	-345.84	171.80	679.15	84.01	8.17	PASS
1320.00†	1309.17	89.36	96.40	1296.17	1309.17	-450.33	-345.84	172.02	697.73	88.10	8.00	PASS
1420.00†	1407.39	102.11	110.16	1394.39	1407.39	-450.33	-345.84	172.23	716.33	92.24	7.84	PASS
1520.00†	1505.61	114.87	123.93	1492.61	1505.61	-450.33	-345.84	172.43	734.94	96.43	7.69	PASS
1620.00†	1603.84	127.63	137.69	1590.84	1603.84	-450.33	-345.84	172.62	753.55	100.65	7.55	PASS
1720.00†	1702.06	140.39	151.45	1689.06	1702.06	-450.33	-345.84	172.79	772.17	104.91	7.42	PASS
1820.00†	1800.28	153.15	165.22	1787.28	1800.28	-450.33	-345.84	172.97	790.80	108.91	7.30	PASS
1920.00†	1898.51	165.91	178.98	1885.51	1898.51	-450.33	-345.84	173.13	809.43	113.15	7.19	PASS
2020.00†	1996.73	178.66	192.74	1983.73	1996.73	-450.33	-345.84	173.28	828.07	117.41	7.09	PASS
2120.00†	2094.95	191.42	206.51	2081.95	2094.95	-450.33	-345.84	173.43	846.72	121.71	6.99	PASS
2220.00†	2193.18	204.18	220.27	2180.18	2193.18	-450.33	-345.84	173.57	865.37	126.03	6.90	PASS
2320.00†	2291.40	216.94	234.04	2278.40	2291.40	-450.33	-345.84	173.71	884.02	130.37	6.81	PASS
2420.00†	2389.62	229.70	247.80	2376.62	2389.62	-450.33	-345.84	173.84	902.68	134.74	6.73	PASS
2520.00†	2487.85	242.45	261.56	2474.85	2487.85	-450.33	-345.84	173.97	921.35	139.13	6.65	PASS
2620.00†	2586.07	255.21	275.33	2573.07	2586.07	-450.33	-345.84	174.09	940.02	143.54	6.58	PASS
2720.00†	2684.29	267.97	289.09	2671.29	2684.29	-450.33	-345.84	174.20	958.69	147.96	6.51	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 137 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2769.51	2782.51	-450.33	-345.84	174.31	977.37	152.41	6.44	PASS
2920.00†	2880.74	293.49	316.62	2867.74	2880.74	-450.33	-345.84	174.42	996.05	156.87	6.37	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 138 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-1667.12	-9521.27	-99.93	9666.12	50.27	196.04	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 139 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	808.57	-10942.73	-85.77	10972.57	50.17	222.98	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 140 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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, JNB CD/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	792.57	-10916.83	-85.85	10945.57	50.20	222.27	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. HRS-KNOX 9-3 (1981'FSL & 701'FEL, JNB 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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 141 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	2081.66	424.27	11.52	7465.80	151.32	49.65	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



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 142 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	2079.83	-247.77	-6.79	2094.74	25.56	85.11	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 143 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	2256.97	-1541.77	-34.34	2733.31	25.57	111.06	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 144 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-379.29	-81.05	-167.94	387.85	50.17	7.86	PASS
120.00†	120.00	0.00	0.00	104.00	120.00	-379.29	-81.05	-167.94	387.85	50.23	7.85	PASS
220.00†	220.00	0.00	0.00	204.00	220.00	-379.29	-81.05	-167.94	387.85	50.29	7.84	PASS
320.00†	320.00	0.00	0.00	304.00	320.00	-379.29	-81.05	-167.94	387.85	50.36	7.83	PASS
350.00	350.00	0.00	0.00	334.00	350.00	-379.29	-81.05	-167.94	387.85	50.38	7.83	PASS
420.00†	419.99	0.58	0.63	403.99	419.99	-379.29	-81.05	144.96	388.55	50.44	7.83	PASS
520.00†	519.90	3.43	3.70	503.90	519.90	-379.29	-81.05	145.27	391.99	50.54	7.89	PASS
620.00†	619.60	8.64	9.32	603.60	619.60	-379.29	-81.05	145.82	398.32	50.66	8.00	PASS
720.00†	718.97	16.22	17.50	702.97	718.97	-379.29	-81.05	146.60	407.60	50.79	8.16	PASS
820.00†	817.89	26.15	28.21	801.89	817.89	-379.29	-81.05	147.56	419.91	50.94	8.38	PASS
890.85	887.64	34.60	37.33	871.64	887.64	-379.29	-81.05	148.33	430.49	51.04	8.58	PASS
920.00†	916.27	38.32	41.34	900.27	916.27	-379.29	-81.05	148.71	435.18	51.07	8.67	PASS
1020.00†	1014.50	51.08	55.11	998.50	1014.50	-379.29	-81.05	149.94	451.40	51.18	8.97	PASS
1120.00†	1112.72	63.84	68.87	1100.43	1116.41	-378.36	-82.55	151.34	467.42	51.37	9.25	PASS
1220.00†	1210.94	76.60	82.63	1201.81	1217.64	-375.54	-87.08	153.06	482.98	51.57	9.53	PASS
1320.00†	1309.17	89.36	96.40	1302.32	1317.76	-370.87	-94.58	155.05	498.35	51.78	9.79	PASS
1420.00†	1407.39	102.11	110.16	1401.74	1416.42	-364.43	-104.93	157.29	513.81	52.02	10.05	PASS
1520.00†	1505.61	114.87	123.93	1499.84	1513.31	-356.30	-117.98	159.73	529.70	52.27	10.31	PASS
1620.00†	1603.84	127.63	137.69	1596.44	1608.14	-346.59	-133.57	162.33	546.34	52.54	10.57	PASS
1720.00†	1702.06	140.39	151.45	1691.34	1700.65	-335.42	-151.52	165.06	564.08	52.83	10.86	PASS
1820.00†	1800.28	153.15	165.22	1785.33	1791.79	-323.28	-171.02	167.80	583.19	52.83	11.17	PASS
1920.00†	1898.51	165.91	178.98	1879.35	1882.95	-311.12	-190.56	170.38	603.61	53.08	11.51	PASS
2020.00†	1996.73	178.66	192.74	1973.38	1974.12	-298.95	-210.09	172.80	625.23	53.35	11.86	PASS
2120.00†	2094.95	191.42	206.51	2067.40	2065.28	-286.79	-229.63	175.07	647.91	53.64	12.23	PASS
2220.00†	2193.18	204.18	220.27	2161.43	2156.45	-274.62	-249.17	177.19	671.55	53.97	12.60	PASS
2320.00†	2291.40	216.94	234.04	2255.46	2247.62	-262.46	-268.72	179.17	696.06	54.32	12.97	PASS
2420.00†	2389.62	229.70	247.80	2349.50	2338.79	-250.29	-288.25	178.98	721.34	54.70	13.35	PASS
2520.00†	2487.85	242.45	261.56	2443.52	2429.96	-238.13	-307.78	177.25	747.31	55.10	13.73	PASS
2620.00†	2586.07	255.21	275.33	2537.55	2521.13	-225.97	-327.32	175.63	773.91	55.52	14.11	PASS
2720.00†	2684.29	267.97	289.09	2631.58	2612.30	-213.81	-346.85	174.12	801.07	55.97	14.48	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 145 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2725.61	2703.47	-201.65	-366.39	-172.70	828.75	56.43	14.86	PASS
2920.00†	2880.74	293.49	316.62	2819.63	2794.64	-189.49	-385.92	-171.36	856.88	56.92	15.23	PASS
3020.00†	2978.96	306.25	330.38	2913.66	2885.81	-177.33	-405.45	-170.12	885.42	57.43	15.60	PASS
3120.00†	3077.18	319.00	344.15	3007.69	2976.97	-165.17	-424.99	-168.94	914.35	57.96	15.96	PASS
3220.00†	3175.41	331.76	357.91	3101.72	3068.14	-153.01	-444.52	-167.84	943.61	58.51	16.31	PASS
3320.00†	3273.63	344.52	371.67	3195.74	3159.31	-140.84	-464.05	-166.80	973.18	59.08	16.66	PASS
3420.00†	3371.85	357.28	385.44	3289.77	3250.48	-128.68	-483.59	-165.82	1003.04	59.66	17.00	PASS
3520.00†	3470.08	370.04	399.20	3383.80	3341.65	-116.52	-503.12	-164.90	1033.16	60.26	17.34	PASS
3620.00†	3568.30	382.80	412.96	3477.83	3432.82	-104.36	-522.66	-164.03	1063.51	60.88	17.66	PASS
3720.00†	3666.52	395.55	426.73	3571.85	3523.99	-92.20	-542.19	-163.20	1094.08	61.52	17.98	PASS
3820.00†	3764.75	408.31	440.49	3665.88	3615.15	-80.04	-561.72	-162.42	1124.86	62.17	18.29	PASS
3920.00†	3862.97	421.07	454.26	3759.91	3706.32	-67.88	-581.26	-161.68	1155.81	62.83	18.59	PASS
4020.00†	3961.19	433.83	468.02	3853.94	3797.49	-55.72	-600.79	-160.98	1186.93	63.51	18.89	PASS
4120.00†	4059.42	446.59	481.78	3947.96	3888.66	-43.56	-620.32	-160.31	1218.21	64.21	19.17	PASS
4220.00†	4157.64	459.34	495.55	4041.99	3979.83	-31.39	-639.86	-159.68	1249.63	64.92	19.45	PASS
4320.00†	4255.86	472.10	509.31	4136.02	4071.00	-19.23	-659.39	-159.07	1281.19	65.64	19.72	PASS
4420.00†	4354.09	484.86	523.08	4230.04	4162.17	-7.07	-678.92	-158.50	1312.87	66.37	19.98	PASS
4520.00†	4452.31	497.62	536.84	4324.07	4253.33	5.09	-698.46	-157.95	1344.67	67.12	20.24	PASS
4620.00†	4550.53	510.38	550.60	4418.10	4344.50	17.25	-717.99	-157.43	1376.57	67.88	20.48	PASS
4720.00†	4648.75	523.14	564.37	4512.13	4435.67	29.41	-737.53	-156.93	1408.58	68.65	20.72	PASS
4820.00†	4746.98	535.89	578.13	4606.15	4526.84	41.57	-757.06	-156.45	1440.68	69.43	20.95	PASS
4920.00†	4845.20	548.65	591.89	4700.18	4618.01	53.73	-776.59	-155.99	1472.86	70.22	21.18	PASS
5020.00†	4943.42	561.41	605.66	4794.21	4709.18	65.89	-796.13	-155.55	1505.13	71.03	21.39	PASS
5120.00†	5041.65	574.17	619.42	4888.24	4800.34	78.06	-815.66	-155.13	1537.47	71.84	21.60	PASS
5220.00†	5139.87	586.93	633.19	4982.26	4891.51	90.22	-835.19	-154.73	1569.89	72.67	21.81	PASS
5320.00†	5238.09	599.68	646.95	5076.29	4982.68	102.38	-854.73	-154.34	1602.37	73.50	22.00	PASS
5420.00†	5336.32	612.44	660.71	5170.32	5073.85	114.54	-874.26	-153.97	1634.91	74.34	22.19	PASS
5520.00†	5434.54	625.20	674.48	5264.35	5165.02	126.70	-893.80	-153.61	1667.52	75.20	22.38	PASS
5620.00†	5532.76	637.96	688.24	5358.37	5256.19	138.86	-913.33	-153.27	1700.18	76.06	22.55	PASS
5720.00†	5630.99	650.72	702.00	5475.12	5369.52	153.68	-937.13	-152.87	1732.68	77.17	22.65	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 146 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5636.31	5527.49	170.56	-964.24	-152.53	1762.41	78.65	22.60	PASS
5920.00†	5827.43	676.23	729.53	5801.68	5691.16	182.97	-984.18	-152.43	1788.48	80.03	22.54	PASS
6020.00†	5925.66	688.99	743.30	5970.27	5859.13	190.46	-996.21	-152.56	1810.76	81.27	22.47	PASS
6120.00†	6023.88	701.75	757.06	6135.10	6023.88	192.73	-999.86	-152.92	1829.17	82.34	22.40	PASS
6220.00†	6122.10	714.51	770.82	6233.32	6122.10	192.73	-999.86	-153.18	1845.96	83.13	22.39	PASS
6237.28	6139.07	716.71	773.20	6250.30	6139.07	192.73	-999.86	-153.22	1848.86	83.27	22.39	PASS
6320.00†	6220.86	727.06	779.25	6332.08	6220.86	192.73	-999.86	-110.47	1857.61	83.99	22.30	PASS
6420.00†	6319.82	738.83	772.25	6431.04	6319.82	192.73	-999.86	-54.92	1854.34	85.32	21.91	PASS
6520.00†	6416.56	749.52	749.77	6527.78	6416.56	192.73	-999.86	-37.63	1836.08	87.11	21.24	PASS
6620.00†	6508.72	758.88	712.36	6619.94	6508.72	192.73	-999.86	-32.13	1803.39	88.59	20.51	PASS
6720.00†	6594.01	766.68	660.94	6705.23	6594.01	192.73	-999.86	-30.88	1757.17	89.81	19.71	PASS
6820.00†	6670.34	772.71	596.78	6781.56	6670.34	192.73	-999.86	-32.17	1698.71	90.85	18.84	PASS
6920.00†	6735.84	776.83	521.46	6847.06	6735.84	192.73	-999.86	-35.81	1629.60	91.74	17.89	PASS
7020.00†	6788.88	778.95	436.83	6900.10	6788.88	192.73	-999.86	-42.35	1551.69	92.54	16.89	PASS
7120.00†	6828.16	779.00	344.98	6939.38	6828.16	192.73	-999.86	-52.89	1467.07	93.28	15.84	PASS
7220.00†	6852.71	776.99	248.17	6963.93	6852.71	192.73	-999.86	-68.53	1378.02	94.03	14.76	PASS
7320.00†	6861.94	772.97	148.78	6973.16	6861.94	192.73	-999.86	-88.13	1286.87	94.84	13.66	PASS
7332.14	6862.00	772.35	136.65	6973.22	6862.00	192.73	-999.86	-90.57	1275.78	94.95	13.53	PASS
7420.00†	6861.61	767.75	48.92	6972.83	6861.61	192.73	-999.86	-90.53	1196.07	95.81	12.57	PASS
7520.00†	6861.17	762.51	-50.94	6972.39	6861.17	192.73	-999.86	-90.48	1106.84	97.11	11.47	PASS
7620.00†	6860.73	757.28	-150.80	6971.95	6860.73	192.73	-999.86	-90.43	1019.61	98.84	10.38	PASS
7720.00†	6860.29	752.05	-250.67	6971.51	6860.29	192.73	-999.86	-90.38	934.94	101.12	9.30	PASS
7820.00†	6859.85	746.81	-350.53	6971.07	6859.85	192.73	-999.86	-90.33	853.60	104.11	8.25	PASS
7920.00†	6859.40	741.58	-450.39	6970.63	6859.40	192.73	-999.86	-90.28	776.63	107.96	7.23	PASS
8020.00†	6858.96	736.35	-550.25	6970.18	6858.96	192.73	-999.86	-90.23	705.45	112.79	6.29	PASS
8120.00†	6858.52	731.11	-650.11	6969.74	6858.52	192.73	-999.86	-90.18	642.01	118.60	5.44	PASS
8220.00†	6858.08	725.88	-749.98	6969.30	6858.08	192.73	-999.86	-90.14	588.80	125.10	4.73	PASS
8320.00†	6857.64	720.65	-849.84	6968.86	6857.64	192.73	-999.86	-90.09	548.82	131.61	4.19	PASS
8420.00†	6857.20	715.41	-949.70	6968.42	6857.20	192.73	-999.86	-90.04	525.08	137.05	3.85	PASS
8520.00†	6856.75	710.18	-1049.56	6967.98	6856.75	192.73	-999.86	-89.99	519.83	140.30	3.72	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 147 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
8529.75†	6856.71	709.67	-1059.29	6967.93	6856.71	192.73	-999.86	-89.98	520.34	140.48	3.72	PASS
8620.00†	6856.31	704.95	-1149.42	6967.53	6856.31	192.73	-999.86	-89.94	533.60	140.87	3.80	PASS
8720.00†	6855.87	699.71	-1249.29	6967.09	6855.87	192.73	-999.86	-89.89	565.02	139.16	4.08	PASS
8820.00†	6855.43	694.48	-1349.15	6966.65	6855.43	192.73	-999.86	-89.84	611.35	136.04	4.51	PASS
8832.14	6855.38	693.84	-1361.28	6966.60	6855.38	192.73	-999.86	-89.84	617.85	135.61	4.57	PASS
8920.00†	6854.99	690.59	-1449.07	6966.21	6854.99	192.73	-999.86	-89.78	670.56	132.44	5.09	PASS
9020.00†	6854.55	690.17	-1549.06	6965.77	6854.55	192.73	-999.86	-89.71	740.99	129.01	5.77	PASS
9058.60	6854.38	690.94	-1587.65	6965.60	6854.38	192.73	-999.86	-89.69	770.53	127.80	6.06	PASS
9120.00†	6854.10	692.58	-1649.03	6965.33	6854.10	192.73	-999.86	-89.65	819.31	125.99	6.53	PASS
9220.00†	6853.66	695.24	-1748.99	6964.88	6853.66	192.73	-999.86	-89.60	902.06	123.36	7.35	PASS
9320.00†	6853.22	697.91	-1848.96	6964.44	6853.22	192.73	-999.86	-89.55	988.02	121.08	8.20	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

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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 148 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-454.68	976.97	114.96	1077.59	25.57	43.76	PASS
120.00†	120.00	0.00	0.00	99.00	120.00	-454.68	976.97	114.96	1077.59	50.37	21.79	PASS
220.00†	220.00	0.00	0.00	199.00	220.00	-454.68	976.97	114.96	1077.59	51.31	21.39	PASS
320.00†	320.00	0.00	0.00	299.00	320.00	-454.68	976.97	114.96	1077.59	52.96	20.71	PASS
350.00	350.00	0.00	0.00	329.00	350.00	-454.68	976.97	114.96	1077.59	53.63	20.44	PASS
420.00†	419.99	0.58	0.63	398.99	419.99	-454.68	976.97	67.83	1077.27	55.22	19.84	PASS
520.00†	519.90	3.43	3.70	498.90	519.90	-454.68	976.97	68.07	1075.69	57.95	18.86	PASS
620.00†	619.60	8.64	9.32	598.60	619.60	-454.68	976.97	68.50	1072.85	61.05	17.84	PASS
720.00†	718.97	16.22	17.50	697.97	718.97	-454.68	976.97	69.13	1068.80	64.43	16.83	PASS
820.00†	817.89	26.15	28.21	796.89	817.89	-454.68	976.97	69.96	1063.64	68.00	15.85	PASS
890.85	887.64	34.60	37.33	866.64	887.64	-454.68	976.97	70.66	1059.39	70.65	15.19	PASS
920.00†	916.27	38.32	41.34	895.27	916.27	-454.68	976.97	70.93	1057.57	71.74	14.93	PASS
1020.00†	1014.50	51.08	55.11	993.50	1014.50	-454.68	976.97	71.89	1051.49	75.60	14.08	PASS
1120.00†	1112.72	63.84	68.87	1091.72	1112.72	-454.68	976.97	72.85	1045.71	79.58	13.29	PASS
1220.00†	1210.94	76.60	82.63	1189.94	1210.94	-454.68	976.97	73.82	1040.23	83.65	12.57	PASS
1320.00†	1309.17	89.36	96.40	1288.17	1309.17	-454.68	976.97	74.80	1035.07	87.80	11.91	PASS
1420.00†	1407.39	102.11	110.16	1386.39	1407.39	-454.68	976.97	75.79	1030.23	92.02	11.30	PASS
1520.00†	1505.61	114.87	123.93	1484.61	1505.61	-454.68	976.97	76.79	1025.71	96.30	10.75	PASS
1620.00†	1603.84	127.63	137.69	1582.84	1603.84	-454.68	976.97	77.80	1021.51	100.63	10.24	PASS
1720.00†	1702.06	140.39	151.45	1681.06	1702.06	-454.68	976.97	78.81	1017.64	105.00	9.77	PASS
1820.00†	1800.28	153.15	165.22	1779.28	1800.28	-454.68	976.97	79.83	1014.10	109.06	9.35	PASS
1920.00†	1898.51	165.91	178.98	1877.51	1898.51	-454.68	976.97	80.86	1010.90	113.30	8.97	PASS
2020.00†	1996.73	178.66	192.74	1975.73	1996.73	-454.68	976.97	81.90	1008.03	117.57	8.62	PASS
2120.00†	2094.95	191.42	206.51	2073.95	2094.95	-454.68	976.97	82.94	1005.51	121.87	8.29	PASS
2220.00†	2193.18	204.18	220.27	2172.18	2193.18	-454.68	976.97	83.98	1003.34	126.20	7.99	PASS
2320.00†	2291.40	216.94	234.04	2270.40	2291.40	-454.68	976.97	85.03	1001.51	130.55	7.71	PASS
2420.00†	2389.62	229.70	247.80	2368.62	2389.62	-454.68	976.97	86.09	1000.03	134.92	7.45	PASS
2520.00†	2487.85	242.45	261.56	2466.85	2487.85	-454.68	976.97	87.14	998.90	139.31	7.20	PASS
2620.00†	2586.07	255.21	275.33	2565.07	2586.07	-454.68	976.97	88.20	998.12	143.73	6.97	PASS
2720.00†	2684.29	267.97	289.09	2663.29	2684.29	-454.68	976.97	89.26	997.70	148.16	6.76	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 149 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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
2795.00†	2757.96	277.54	299.41	2737.50	2758.50	-454.68	976.97	90.06	997.61	151.53	6.61	PASS
2820.00†	2782.51	280.73	302.85	2761.51	2782.51	-454.68	976.97	90.31	997.63	152.62	6.56	PASS
2920.00†	2880.74	293.49	316.62	2859.74	2880.74	-454.68	976.97	91.37	997.91	157.09	6.38	PASS
3020.00†	2978.96	306.25	330.38	2957.96	2978.96	-454.68	976.97	92.43	998.54	161.58	6.20	PASS
3120.00†	3077.18	319.00	344.15	3056.18	3077.18	-454.68	976.97	93.49	999.53	166.08	6.04	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

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-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 150 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	33.22	17.22	3661.79	-6419.74	-60.30	7390.65	50.14	150.15	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	2232.73	-3913.18	2233.05	-3914.21
8.625in Casing Surface	12.00	635.00	623.00	-12.00	610.99	2232.73	-3913.18	2233.05	-3914.21
7.875in Open Hole	12.00	7573.00	7561.00	-12.00	7320.77	2232.73	-3913.18	1813.31	-3938.08

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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 151 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-1565.16	-5858.93	-104.96	6064.39	50.32	122.86	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 152 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	2443.12	-11381.02	-77.88	11640.30	25.57	473.11	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 153 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-1702.32	-6631.35	-104.40	6846.37	50.35	138.60	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 154 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-1870.60	-10826.13	-99.80	10986.54	50.21	223.05	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 155 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-1357.05	-10619.85	-97.28	12865.89	68.06	191.75	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 156 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	2820.43	2709.73	3260.22	-6025.05	-61.58	7359.68	53.34	140.30	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	2241.62	-3913.18	2242.53	-3912.88
8.625in Casing Surface	12.00	634.00	622.00	-12.00	609.99	2241.62	-3913.18	2242.53	-3912.88
7.875in Open Hole	12.00	7660.00	7648.00	-12.00	7306.20	2241.62	-3913.18	1801.54	-3503.79

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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 157 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	2421.28	-11425.57	-78.04	11679.31	50.17	237.35	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 158 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	-404.79	-81.05	-168.68	412.83	50.17	8.37	PASS
120.00†	120.00	0.00	0.00	104.00	120.00	-404.79	-81.05	-168.68	412.83	50.30	8.35	PASS
220.00†	220.00	0.00	0.00	204.00	220.00	-404.79	-81.05	-168.68	412.83	50.43	8.33	PASS
320.00†	320.00	0.00	0.00	304.00	320.00	-404.79	-81.05	-168.68	412.83	50.56	8.30	PASS
350.00	350.00	0.00	0.00	334.00	350.00	-404.79	-81.05	-168.68	412.83	50.60	8.30	PASS
420.00†	419.99	0.58	0.63	403.99	419.99	-404.79	-81.05	144.21	413.52	50.70	8.29	PASS
520.00†	519.90	3.43	3.70	503.90	519.90	-404.79	-81.05	144.51	416.93	50.86	8.34	PASS
620.00†	619.60	8.64	9.32	603.60	619.60	-404.79	-81.05	145.04	423.20	51.05	8.43	PASS
720.00†	718.97	16.22	17.50	702.97	718.97	-404.79	-81.05	145.78	432.39	51.25	8.58	PASS
820.00†	817.89	26.15	28.21	801.89	817.89	-404.79	-81.05	146.70	444.58	51.45	8.79	PASS
890.85	887.64	34.60	37.33	871.64	887.64	-404.79	-81.05	147.44	455.07	51.60	8.97	PASS
920.00†	916.27	38.32	41.34	900.27	916.27	-404.79	-81.05	147.81	459.71	51.65	9.05	PASS
1020.00†	1014.50	51.08	55.11	998.50	1014.50	-404.79	-81.05	149.01	475.77	51.83	9.33	PASS
1120.00†	1112.72	63.84	68.87	1096.72	1112.72	-404.79	-81.05	150.13	492.03	52.02	9.62	PASS
1220.00†	1210.94	76.60	82.63	1194.94	1210.94	-404.79	-81.05	151.18	508.46	52.21	9.90	PASS
1320.00†	1309.17	89.36	96.40	1293.17	1309.17	-404.79	-81.05	152.16	525.04	52.41	10.19	PASS
1420.00†	1407.39	102.11	110.16	1391.39	1407.39	-404.79	-81.05	153.08	541.77	52.61	10.47	PASS
1520.00†	1505.61	114.87	123.93	1489.61	1505.61	-404.79	-81.05	153.95	558.63	52.82	10.75	PASS
1620.00†	1603.84	127.63	137.69	1587.84	1603.84	-404.79	-81.05	154.77	575.61	53.03	11.04	PASS
1720.00†	1702.06	140.39	151.45	1686.06	1702.06	-404.79	-81.05	155.54	592.69	53.25	11.32	PASS
1820.00†	1800.28	153.15	165.22	1784.28	1800.28	-404.79	-81.05	156.27	609.87	53.17	11.61	PASS
1920.00†	1898.51	165.91	178.98	1882.51	1898.51	-404.79	-81.05	156.96	627.15	53.30	11.91	PASS
2020.00†	1996.73	178.66	192.74	1980.73	1996.73	-404.79	-81.05	157.61	644.50	53.44	12.21	PASS
2120.00†	2094.95	191.42	206.51	2078.95	2094.95	-404.79	-81.05	158.23	661.94	53.60	12.50	PASS
2220.00†	2193.18	204.18	220.27	2177.18	2193.18	-404.79	-81.05	158.81	679.44	53.76	12.79	PASS
2320.00†	2291.40	216.94	234.04	2298.93	2314.91	-403.14	-80.61	159.53	695.74	54.06	13.03	PASS
2420.00†	2389.62	229.70	247.80	2429.07	2444.83	-395.95	-78.68	160.35	707.86	54.35	13.18	PASS
2520.00†	2487.85	242.45	261.56	2560.18	2575.23	-382.96	-75.19	161.24	715.66	54.57	13.27	PASS
2620.00†	2586.07	255.21	275.33	2691.70	2705.29	-364.14	-70.13	162.24	719.13	54.74	13.30	PASS
2720.00†	2684.29	267.97	289.09	2823.08	2834.18	-339.61	-63.54	163.34	718.31	54.85	13.26	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 159 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	2782.51	280.73	302.85	2945.45	2953.09	-311.77	-56.06	164.48	713.42	55.01	13.13	PASS
2920.00†	2880.74	293.49	316.62	3044.54	3049.08	-288.00	-49.68	165.45	707.56	55.45	12.91	PASS
3020.00†	2978.96	306.25	330.38	3143.63	3145.07	-264.23	-43.29	166.44	701.91	55.91	12.70	PASS
3120.00†	3077.18	319.00	344.15	3242.72	3241.06	-240.47	-36.91	167.44	696.47	56.40	12.49	PASS
3220.00†	3175.41	331.76	357.91	3341.82	3337.05	-216.70	-30.53	168.45	691.24	56.91	12.29	PASS
3320.00†	3273.63	344.52	371.67	3440.91	3433.03	-192.93	-24.14	169.49	686.25	57.45	12.08	PASS
3420.00†	3371.85	357.28	385.44	3540.00	3529.02	-169.17	-17.76	170.53	681.48	58.00	11.88	PASS
3520.00†	3470.08	370.04	399.20	3639.10	3625.01	-145.40	-11.37	171.59	676.94	58.58	11.68	PASS
3620.00†	3568.30	382.80	412.96	3738.19	3721.00	-121.63	-4.99	172.66	672.64	59.18	11.49	PASS
3720.00†	3666.52	395.55	426.73	3837.28	3816.99	-97.86	1.40	173.75	668.59	59.81	11.30	PASS
3820.00†	3764.75	408.31	440.49	3936.37	3912.97	-74.10	7.78	174.85	664.78	60.46	11.11	PASS
3920.00†	3862.97	421.07	454.26	4035.47	4008.96	-50.33	14.17	175.96	661.22	61.12	10.93	PASS
4020.00†	3961.19	433.83	468.02	4134.56	4104.95	-26.56	20.55	177.08	657.92	61.82	10.76	PASS
4120.00†	4059.42	446.59	481.78	4233.65	4200.94	-2.79	26.94	178.22	654.87	62.53	10.58	PASS
4220.00†	4157.64	459.34	495.55	4332.74	4296.93	20.97	33.32	179.36	652.09	63.26	10.41	PASS
4320.00†	4255.86	472.10	509.31	4431.84	4392.91	44.74	39.70	-179.49	649.58	64.02	10.25	PASS
4420.00†	4354.09	484.86	523.08	4530.93	4488.90	68.51	46.09	-178.33	647.33	64.80	10.09	PASS
4520.00†	4452.31	497.62	536.84	4630.02	4584.89	92.27	52.47	-177.16	645.36	65.60	9.93	PASS
4620.00†	4550.53	510.38	550.60	4729.11	4680.88	116.04	58.86	-175.98	643.66	66.42	9.78	PASS
4720.00†	4648.75	523.14	564.37	4828.21	4776.87	139.81	65.24	-174.80	642.24	67.27	9.64	PASS
4820.00†	4746.98	535.89	578.13	4916.68	4862.72	160.44	70.79	-173.78	641.68	68.19	9.50	PASS
4920.00†	4845.20	548.65	591.89	5001.15	4945.24	177.87	75.47	-172.93	643.57	69.11	9.40	PASS
5020.00†	4943.42	561.41	605.66	5085.82	5028.45	192.98	79.52	-172.23	647.91	69.99	9.34	PASS
5120.00†	5041.65	574.17	619.42	5170.55	5112.14	205.71	82.94	-171.68	654.63	70.82	9.33	PASS
5220.00†	5139.87	586.93	633.19	5255.17	5196.08	216.03	85.72	-171.27	663.66	71.61	9.35	PASS
5320.00†	5238.09	599.68	646.95	5339.56	5280.07	223.94	87.84	-171.02	674.94	72.35	9.41	PASS
5420.00†	5336.32	612.44	660.71	5423.56	5363.87	229.43	89.32	-170.92	688.44	73.05	9.51	PASS
5520.00†	5434.54	625.20	674.48	5507.03	5447.28	232.54	90.15	-170.94	704.12	73.69	9.64	PASS
5620.00†	5532.76	637.96	688.24	5592.52	5532.76	233.34	90.37	-171.11	721.92	74.32	9.80	PASS
5720.00†	5630.99	650.72	702.00	5690.75	5630.99	233.34	90.37	-171.33	740.48	75.08	9.95	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 160 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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†	5729.21	663.48	715.77	5788.97	5729.21	233.34	90.37	-171.54	759.04	75.84	10.09	PASS
5920.00†	5827.43	676.23	729.53	5887.19	5827.43	233.34	90.37	-171.75	777.62	76.61	10.24	PASS
6020.00†	5925.66	688.99	743.30	5985.41	5925.66	233.34	90.37	-171.94	796.20	77.38	10.38	PASS
6120.00†	6023.88	701.75	757.06	6083.64	6023.88	233.34	90.37	-172.13	814.80	78.16	10.51	PASS
6220.00†	6122.10	714.51	770.82	6181.86	6122.10	233.34	90.37	-172.30	833.40	78.94	10.64	PASS
6237.28	6139.07	716.71	773.20	6198.83	6139.07	233.34	90.37	-172.33	836.61	79.07	10.67	PASS
6320.00†	6220.86	727.06	779.25	6280.62	6220.86	233.34	90.37	-129.31	847.53	79.78	10.71	PASS
6420.00†	6319.82	738.83	772.25	6379.58	6319.82	233.34	90.37	-74.13	848.81	81.10	10.55	PASS
6520.00†	6416.56	749.52	749.77	6476.32	6416.56	233.34	90.37	-57.95	837.41	82.86	10.18	PASS
6620.00†	6508.72	758.88	712.36	6568.48	6508.72	233.34	90.37	-54.31	814.29	84.13	9.75	PASS
6720.00†	6594.01	766.68	660.94	6653.77	6594.01	233.34	90.37	-55.64	781.03	85.09	9.25	PASS
6820.00†	6670.34	772.71	596.78	6730.10	6670.34	233.34	90.37	-60.01	739.85	85.92	8.67	PASS
6920.00†	6735.84	776.83	521.46	6795.60	6735.84	233.34	90.37	-66.47	693.71	86.79	8.05	PASS
7020.00†	6788.88	778.95	436.83	6848.64	6788.88	233.34	90.37	-74.02	646.32	87.89	7.41	PASS
7120.00†	6828.16	779.00	344.98	6887.92	6828.16	233.34	90.37	-81.27	602.15	89.44	6.78	PASS
7220.00†	6852.71	776.99	248.17	6912.47	6852.71	233.34	90.37	-86.86	566.09	91.52	6.23	PASS
7320.00†	6861.94	772.97	148.78	6921.70	6861.94	233.34	90.37	-89.87	542.78	93.97	5.81	PASS
7332.14	6862.00	772.35	136.65	6921.76	6862.00	233.34	90.37	-90.04	540.99	94.27	5.77	PASS
7420.00†	6861.61	767.75	48.92	6921.37	6861.61	233.34	90.37	-89.99	536.02	96.50	5.59	PASS
7475.99†	6861.36	764.82	-6.99	6921.12	6861.36	233.34	90.37	-89.97	540.32	97.90	5.55	PASS
7520.00†	6861.17	762.51	-50.94	6920.93	6861.17	233.34	90.37	-89.95	547.72	98.85	5.57	PASS
7620.00†	6860.73	757.28	-150.80	6920.49	6860.73	233.34	90.37	-89.90	576.78	100.64	5.76	PASS
7720.00†	6860.29	752.05	-250.67	6920.05	6860.29	233.34	90.37	-89.85	620.78	101.76	6.14	PASS
7820.00†	6859.85	746.81	-350.53	6919.60	6859.85	233.34	90.37	-89.81	676.79	102.33	6.65	PASS
7920.00†	6859.40	741.58	-450.39	6919.16	6859.40	233.34	90.37	-89.76	742.11	102.50	7.28	PASS
8020.00†	6858.96	736.35	-550.25	6918.72	6858.96	233.34	90.37	-89.71	814.50	102.42	8.00	PASS
8120.00†	6858.52	731.11	-650.11	6918.28	6858.52	233.34	90.37	-89.66	892.24	102.20	8.78	PASS
8220.00†	6858.08	725.88	-749.98	6917.84	6858.08	233.34	90.37	-89.62	974.05	101.92	9.62	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

GREELEY-ROTHER FEDERAL 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 161 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-L PWB
Facility	SEC.01-T05N-R67W		

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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 162 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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/PRO 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	-1688.27	-9491.76	-100.09	9640.74	50.18	195.86	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/PRO (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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 163 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	76.41	58.40	-1651.13	-9536.97	-99.82	9678.92	50.18	196.66	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 164 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	3318.51	-718.54	-12.22	3395.41	25.57	137.98	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 165 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	41.72	13.72	-1701.41	-9470.62	-100.19	9622.23	50.17	195.52	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 166 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	2399.43	-11436.72	-78.15	11685.71	50.17	237.47	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 167 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	122.45	-11404.36	-89.39	11405.02	25.57	463.55	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 168 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	19.19	21.19	-4185.61	-1131.45	-164.87	4335.84	50.18	88.08	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 169 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	14.88	18.88	-3064.28	-284.34	-174.70	3077.44	50.17	62.52	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 12N-2A-L PWP (REV-A.0)
Closest Approach
Page 170 of 170



REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#16 GREELEY-ROTHER FEDERAL 12N-2A-L (1103'FSL & 294'FEL, SEC.01)
Area	COLORADO	Well	GREELEY-ROTHER FEDERAL 12N-2A-L
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	GREELEY-ROTHER FEDERAL 12N-2A-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	12.66	20.66	-1964.04	887.92	155.67	2155.42	50.17	43.79	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