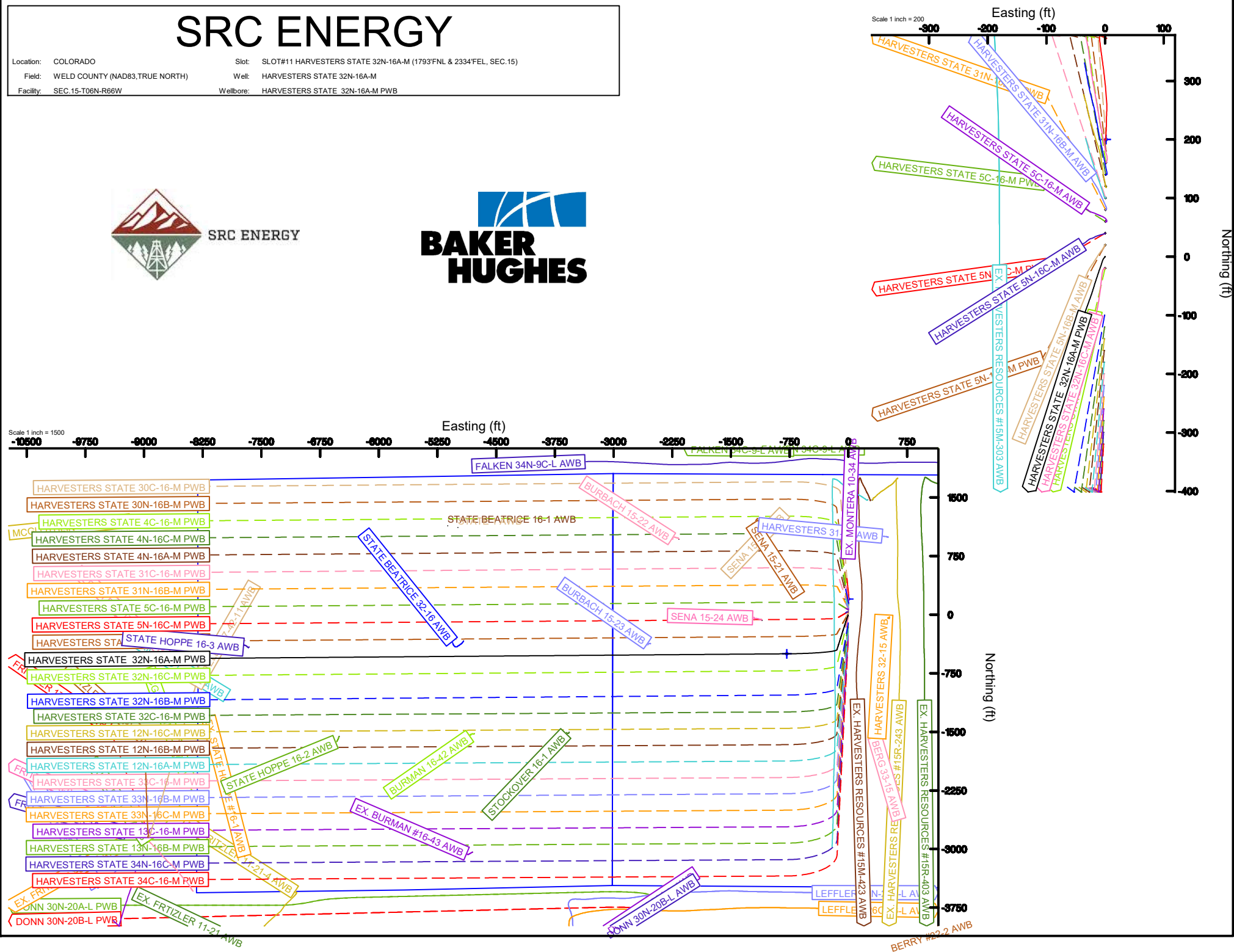


Location:	COLORADO	Slot:	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Field:	WELD COUNTY (NAD83,TRUE NORTH)	Well:	HARVESTERS STATE 32N-16A-M
Facility:	SEC.15-T06N-R66W	Wellbore:	HARVESTERS STATE 32N-16A-M PWB





# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

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	0.999966	Report Generated	4/5/2018 at 12:07:59 PM
Convergence at slot	0.48° East	Database/Source file	WellArchitectDB/HARVESTERS_STATE_32N-16A-M_REV-B.0_PWP_CR.xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-199.97	-1.62	3205120.95	1422448.56	40°29'26.452"N	104°45'45.043"W
Facility Reference Pt			3205120.91	1422648.52	40°29'28.428"N	104°45'45.022"W
Field Reference Pt			3171284.48	1426358.81	40°30'07.643"N	104°53'02.634"W

WELLPATH DATUM			
Calculation method	Minimum Curvature	PROPETRO 12 (4') (RKB) to Facility Vertical Datum	4805.00ft
Horizontal Reference Pt	Slot	PROPETRO 12 (4') (RKB) to Mean Sea Level	4805.00ft
Vertical Reference Pt	PROPETRO 12 (4') (RKB)	PROPETRO 12 (4') (RKB) to Mud Line at Slot (SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15))	4805.00ft
MD Reference Pt	PROPETRO 12 (4') (RKB)		
Field Vertical Reference	Mean Sea Level		

POSITIONAL UNCERTAINTY CALCULATION SETTINGS					
Ellipse Confidence Limit	3.00 Std Dev	Ellipse Start MD	4.00ft	Surface Position Uncertainty	Included
Declination	8.33° East of TN	Dip Angle	66.90°	Mag Field Strength	52388 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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## 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: HARVESTERS STATE 32N-16A-M PWB Ref Wellpath: HARVESTERS STATE 32N-16A-M (REV-B.0) PWP

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	4.00	1756.00	1752.00	4.00	1752.35	0.00	0.00	-99.25	-35.49
9.625in Casing Surface	4.00	1756.00	1752.00	4.00	1752.35	0.00	0.00	-99.25	-35.49
8.5in Open Hole	1756.00	14774.85	13018.85	1752.35	6969.00	-99.25	-35.49	-558.65	-8159.39

## SURVEY PROGRAM - Ref Wellbore: HARVESTERS STATE 32N-16A-M PWB Ref Wellpath: HARVESTERS STATE 32N-16A-M (REV-B.0) PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1756.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 32N-16A-M AWP
1756.00	14774.85	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 32N-16A-M PWB



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CALCULATION RANGE & CUTOFF

From: 4.00ft MD	To: 14774.85ft MD	C-C Cutoff: 1000.00 ft
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## OFFSET WELL CLEARANCE SUMMARY (92 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.15-T06N-R66W	SLOT#10 HARVESTERS STATE 5N-16B-M (1773°FNL & 2334°FEL, SEC.15)	HARVESTERS STATE 5N-16B-M	HARVESTERS STATE 5N-16B-M PWB	HARVESTERS STATE 5N-16B-M PWP (REV-A.0)	1756.00	58.32	1756.00	14774.85	0.33	14774.85	FAIL
SEC.15-T06N-R66W	SLOT#12 HARVESTERS STATE 32N-16C-M (1813°FNL & 2335°FEL, SEC.15)	HARVESTERS STATE 32N-16C-M	HARVESTERS STATE 32N-16C-M PWB	HARVESTERS STATE 32N-16C-M PWP (REV-A.0)	1756.00	63.77	1756.00	14774.85	0.40	14774.85	FAIL
SEC.16-T06N-R66W	SLOT#04 EX. STATE HOPPE 16-3 (2157°FNL & 664°FNL, NB-CD/PR/7330°TD)	STATE HOPPE 16-3	STATE HOPPE 16-3 AWP	STATE HOPPE 16-3 AWP	14341.33	161.76	14341.33	14341.33	0.43	14341.33	FAIL
SEC.16-T06N-R66W	SLOT#02 EX. STATE BEATRICE 32-16 (1980°FNL & 1984°FEL, NB-CD/PR/7490°TD)	STATE BEATRICE 32-16	STATE BEATRICE 32-16 AWP	STATE BEATRICE 32-16 AWP	11668.01	167.92	11668.01	11672.52	0.66	11672.52	FAIL
SEC.15-T06N-R66W	SLOT#09 HARVESTERS STATE 5N-16C-M (1753°FNL & 2334°FEL, SEC.15)	HARVESTERS STATE 5N-16C-M	HARVESTERS STATE 5N-16C-M PWB	HARVESTERS STATE 5N-16C-M PWP (REV-A.0)	1756.00	119.31	1756.00	14774.85	0.66	14774.85	FAIL
SEC.15-T06N-R66W	SLOT#13 HARVESTERS STATE 32N-16B-M (1893°FNL & 2335°FEL, SEC.15)	HARVESTERS STATE 32N-16B-M	HARVESTERS STATE 32N-16B-M PWB	HARVESTERS STATE 32N-16B-M PWP (REV-A.0)	1756.00	186.14	1756.00	14774.85	0.74	14774.85	FAIL
SEC.15-T06N-R66W	SLOT#02 EX. BURBACH 15-23 (2169°FNL & 475°FNL, CODL/SI/7409°TD)	BURBACH 15-23	BURBACH 15-23 AWP	BURBACH 15-23 AWP	9175.82	147.65	9175.82	9180.66	1.02	9180.66	PASS
SEC.15-T06N-R66W	SLOT#14 HARVESTERS STATE 5C-16-M (1733°FNL & 2334°FEL, SEC.15)	HARVESTERS STATE 5C-16-M	HARVESTERS STATE 5C-16-M PWB	HARVESTERS STATE 5C-16-M PWP (REV-A.0)	1756.00	180.58	1756.00	14774.85	1.03	14774.85	PASS
SEC.15-T06N-R66W	SLOT#14 HARVESTERS STATE 32C-16-M (1913°FNL & 2335°FEL, SEC.15)	HARVESTERS STATE 32C-16-M	HARVESTERS STATE 32C-16-M PWB	HARVESTERS STATE 32C-16-M PWP (REV-A.0)	1756.00	234.05	14774.85	14774.85	1.10	14774.85	PASS
SEC.17-T06N-R66W	SLOT#08 EX. FRITZLER 17-42-11 (720°FNL & 612°FEL, NB-CD/PR/7713°TD)	FRITZLER 17-42-11	FRITZLER 17-42-11 AWP	FRITZLER 17-42-11 AWP	14774.85	406.07	14774.85	14774.85	1.12	14774.85	PASS
SEC.15-T06N-R66W	SLOT#07 HARVESTERS STATE 31N-16B-M (1713°FNL & 2334°FEL, SEC.15)	HARVESTERS STATE 31N-16B-M	HARVESTERS STATE 31N-16B-M PWB	HARVESTERS STATE 31N-16B-M PWP (REV-A.0)	1756.00	245.47	9504.00	14774.85	1.21	14774.85	PASS
SEC.15-T06N-R66W	SLOT#15 HARVESTERS STATE 12N-16C-M (1933°FNL & 2336°FEL, SEC.15)	HARVESTERS STATE 12N-16C-M	HARVESTERS STATE 12N-16C-M PWB	HARVESTERS STATE 12N-16C-M PWP (REV-A.0)	1756.00	285.30	14774.85	14774.85	1.31	14774.85	PASS
SEC.15-T06N-R66W	SLOT#16 HARVESTERS STATE 12N-16B-M (1953°FNL & 2336°FEL, SEC.15)	HARVESTERS STATE 12N-16B-M	HARVESTERS STATE 12N-16B-M PWB	HARVESTERS STATE 12N-16B-M PWP (REV-A.0)	1756.00	333.22	14774.85	14774.85	1.58	14774.85	PASS
SEC.15-T06N-R66W	SLOT#06 HARVESTERS STATE 31C-16-M (1693°FNL & 2333°FEL, SEC.15)	HARVESTERS STATE 31C-16-M	HARVESTERS STATE 31C-16-M PWB	HARVESTERS STATE 31C-16-M PWP (REV-A.0)	1756.00	303.71	1756.00	14774.85	1.59	14774.85	PASS
SEC.15-T06N-R66W	SLOT#05 HARVESTERS STATE 4N-16A-M (1673°FNL & 2333°FEL, SEC.15)	HARVESTERS STATE 4N-16A-M	HARVESTERS STATE 4N-16A-M PWB	HARVESTERS STATE 4N-16A-M PWP (REV-A.0)	1756.00	366.23	1756.00	14774.85	1.81	14774.85	PASS
SEC.15-T06N-R66W	SLOT#17 HARVESTERS STATE 12N-16A-M (1973°FNL & 2336°FEL, SEC.15)	HARVESTERS STATE 12N-16A-M	HARVESTERS STATE 12N-16A-M PWB	HARVESTERS STATE 12N-16A-M PWP (REV-A.0)	1756.00	379.50	14774.85	14774.85	1.86	14774.85	PASS
SEC.15-T06N-R66W	SLOT#04 HARVESTERS STATE 4N-16C-M (1653°FNL & 2333°FEL, SEC.15)	HARVESTERS STATE 4N-16C-M	HARVESTERS STATE 4N-16C-M PWB	HARVESTERS STATE 4N-16C-M PWP (REV-A.0)	1756.00	417.81	1756.00	14774.85	2.13	14774.85	PASS
SEC.15-T06N-R66W	SLOT#18 HARVESTERS STATE 33C-16-M (1993°FNL & 2336°FEL, SEC.15)	HARVESTERS STATE 33C-16-M	HARVESTERS STATE 33C-16-M PWB	HARVESTERS STATE 33C-16-M PWP (REV-A.0)	1756.00	410.34	14774.85	14774.85	2.20	14774.85	PASS
SEC.15-T06N-R66W	SLOT#19 HARVESTERS STATE 33N-16B-M (2013°FNL & 2336°FEL, SEC.15)	HARVESTERS STATE 33N-16B-M	HARVESTERS STATE 33N-16B-M PWB	HARVESTERS STATE 33N-16B-M PWP (REV-A.0)	1756.00	451.84	14774.85	14774.85	2.45	14774.85	PASS
SEC.15-T06N-R66W	SLOT#03 HARVESTERS STATE 4C-16-M (1633°FNL & 2333°FEL, SEC.15)	HARVESTERS STATE 4C-16-M	HARVESTERS STATE 4C-16-M PWB	HARVESTERS STATE 4C-16-M PWP (REV-A.0)	1756.00	467.09	1756.00	14774.85	2.46	14774.85	PASS
SEC.15-T06N-R66W	SLOT#02 HARVESTERS STATE 30N-16B-M (1613°FNL & 2333°FEL, SEC.15)	HARVESTERS STATE 30N-16B-M	HARVESTERS STATE 30N-16B-M PWB	HARVESTERS STATE 30N-16B-M PWP (REV-A.0)	1756.00	520.82	1756.00	14774.85	2.72	14774.85	PASS
SEC.15-T06N-R66W	SLOT#20 HARVESTERS STATE 33N-16C-M (2033°FNL & 2337°FEL, SEC.15)	HARVESTERS STATE 33N-16C-M	HARVESTERS STATE 33N-16C-M PWB	HARVESTERS STATE 33N-16C-M PWP (REV-A.0)	1756.00	483.55	14774.85	14774.85	2.74	14774.85	PASS
SEC.15-T06N-R66W	SLOT#01 HARVESTERS STATE 30C-16-M (1593°FNL & 2332°FEL, SEC.15)	HARVESTERS STATE 30C-16-M	HARVESTERS STATE 30C-16-M PWB	HARVESTERS STATE 30C-16-M PWP (REV-A.0)	1756.00	561.62	1756.00	14774.85	3.05	14774.85	PASS
SEC.15-T06N-R66W	SLOT#21 HARVESTERS STATE 13C-16-M (2053°FNL & 2337°FEL, SEC.15)	HARVESTERS STATE 13C-16-M	HARVESTERS STATE 13C-16-M PWB	HARVESTERS STATE 13C-16-M PWP (REV-A.0)	1756.00	512.31	14774.85	14774.85	3.05	14774.85	PASS
SEC.16-T06N-R66W	SLOT#01 EX. STATE 1 (658°FNL & 1980°FEL, LYNS/PA/9091°TD)	STATE 1	STATE 1 AWP	STATE 1 AWP	11591.40	1649.81	11591.40	11704.00	3.07	11804.00	PASS





# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CALCULATION RANGE & CUTOFF

From: 4.00ft MD	To: 14774.85ft MD	C-C Cutoff: 1000.00 ft
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## OFFSET WELL CLEARANCE SUMMARY (92 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.16-T06N-R66W	SLOT#01 EX. STATE BEATRICE 16-1 (660°FNL & 2110°FEL, NB-CD/AB/7377TD)	STATE BEATRICE 16-1	STATE BEATRICE 16-1 AWB	STATE BEATRICE 16-1 AWP	11722.20	1671.62	11722.20	11904.00	3.08	11904.00	PASS
SEC.16-T06N-R66W	SLOT#03 EX. STATE HOPPE 16-2 (3303°FNL & 1797°FNL, NB-CD/PR/7340TD)	STATE HOPPE 16-2	STATE HOPPE 16-2 AWB	STATE HOPPE 16-2 AWP	13178.20	1082.40	13178.20	13304.00	3.09	13304.00	PASS
SEC.15-T06N-R66W	SLOT#12 HARVESTERS STATE 32N-16C-M (1813°FNL & 2335°FEL, SEC.15)	HARVESTERS STATE 32N-16C-M	HARVESTERS STATE 32N-16C-M AWB	HARVESTERS STATE 32N-16C-M AWP	1756.00	62.45	1756.00	1756.00	3.22	14604.00	PASS
SEC.15-T06N-R66W	SLOT#10 HARVESTERS STATE 5N-16B-M (1773°FNL & 2334°FEL, SEC.15)	HARVESTERS STATE 5N-16B-M	HARVESTERS STATE 5N-16B-M AWB	HARVESTERS STATE 5N-16B-M AWP	1756.00	63.58	1756.00	1756.00	3.31	14704.00	PASS
SEC.15-T06N-R66W	SLOT#22 HARVESTERS STATE 13N-16B-M (2073°FNL & 2337°FEL, SEC.15)	HARVESTERS STATE 13N-16B-M	HARVESTERS STATE 13N-16B-M PWB	HARVESTERS STATE 13N-16B-M PWP (REV-A.0)	1756.00	543.06	14774.85	14774.85	3.31	14774.85	PASS
SEC.11-T06N-R66W	SLOT#12 FALKEN 34N-9C-L (1739°FSL & 276°FEL, SEC.11)	FALKEN 34N-9C-L	FALKEN 34N-9C-L AWB	FALKEN 34N-9C-L AWP	8772.80	2435.74	9956.00	10204.00	3.52	10304.00	PASS
SEC.15-T06N-R66W	SLOT#23 HARVESTERS STATE 34N-16C-M (2093°FNL & 2337°FEL, SEC.15)	HARVESTERS STATE 34N-16C-M	HARVESTERS STATE 34N-16C-M PWB	HARVESTERS STATE 34N-16C-M PWP (REV-A.0)	1756.00	566.29	14774.85	14774.85	3.60	14774.85	PASS
SEC.11-T06N-R66W	SLOT#11 FALKEN 34C-9-L (1754°FSL & 276°FEL, SEC.11)	FALKEN 34C-9-L	FALKEN 34C-9-L AWB	FALKEN 34C-9-L AWP	7163.20	2620.77	9856.00	10204.00	3.79	10304.00	PASS
SEC.15-T06N-R66W	SLOT#24 HARVESTERS STATE 34C-16-M (2113°FNL & 2337°FEL, SEC.15)	HARVESTERS STATE 34C-16-M	HARVESTERS STATE 34C-16-M PWB	HARVESTERS STATE 34C-16-M PWP (REV-A.0)	1756.00	587.12	14774.85	14774.85	3.91	14774.85	PASS
SEC.15-T06N-R66W	SLOT#07 EX. HARVESTERS RESOURCES #15M-303 (323°FNL & 2083°FEL, HORIZ/PR)	EX. HARVESTERS RECOURCES #15M-303	EX. HARVESTERS RESOURCES #15M-303 AWB	EX. HARVESTERS RESOURCES #15M-303 AWP	6987.90	373.80	6987.90	7104.00	3.97	7104.00	PASS
SEC.16-T06N-R66W	SLOT#01 EX. BURMAN 16-42 (1979°FSL & 1778°FEL, NB-CD/PR/7355TD)	BURMAN 16-42	BURMAN 16-42 AWB	BURMAN 16-42 AWP	11460.05	1019.70	11460.05	11604.00	4.10	11604.00	PASS
SEC.17-T06N-R66W	SLOT#09 EX. FRITZLER 43-17 (719°FSL & 627°FEL, NB-CD/PR/7532TD)	FRITZLER 43-17	FRITZLER 43-17 AWB	FRITZLER 43-17 AWP	14774.85	1316.67	14774.85	14774.85	4.16	14774.85	PASS
SEC.17-T06N-R66W	SLOT#11 EX. MCGLOTHLIN 8-6-17 (659°FSL & 623°FEL, NB-CD/PR/7434TD)	MCGLOTHLIN 8-6-17	MCGLOTHLIN 8-6-17 AWB	MCGLOTHLIN 8-6-17 AWP	14774.85	1663.71	14774.85	14774.85	4.19	14774.85	PASS
SEC.09-T06N-R66W	SLOT#04 EX. LOVELY 14-9 (611°FSL & 466°FEL, PA)	EX. LOVELY 14-9	EX. LOVELY 14-9 AWB	EX. LOVELY 14-9 AWP	14446.90	2899.58	14446.90	14704.00	4.31	14774.85	PASS
SEC.09-T06N-R66W	SLOT#03 EX. LOVELY 1 (660°FSL & 1980°FEL, PA)	EX. LOVELY 1	EX. LOVELY 1 AWB	EX. LOVELY 1 AWP	12953.40	2953.02	12953.40	13404.00	4.87	13604.00	PASS
SEC.21-T06N-R66W	SLOT#13 DONN 30N-20A-L (738°FNL & 250°FEL, SEC.21)	DONN 30N 20A-L	DONN 30N-20A-L PWB	DONN 30N-20A-L PWP (REV-B.0)	9735.20	3028.46	14774.85	14774.85	5.08	14774.85	PASS
SEC.16-T06N-R66W	SLOT#03 EX. STOCKOVER 16-1 (1977°FSL & 664°FEL, NB-CD/PR/7320TD)	STOCKOVER 16-1	STOCKOVER 16-1 AWB	STOCKOVER 16-1 AWP	10235.20	998.09	10235.20	10404.00	5.14	10404.00	PASS
SEC.21-T06N-R66W	SLOT#14 DONN 30N-20B-L (758°FNL & 250°FEL, SEC.21)	DONN 30N-20B-L	DONN 30N-20B-L PWB	DONN 30N-20B-L PWP (REV-B.0)	9648.20	3226.29	9648.20	14774.85	5.33	14774.85	PASS
SEC.09-T06N-R66W	SLOT#04 EX. LUCAS SCHOOL 34-9 (660°FSL & 1840°FEL, NBFHC/TA/7393TD)	LUCAS SCHOOL 34-9	LUCAS SCHOOL 34-9 AWB	LUCAS SCHOOL 34-9 AWP	11435.20	2962.70	11435.20	11904.00	5.50	12204.00	PASS
SEC.17-T06N-R66W	SLOT#01 EX. MCGLOTHLIN 17-11 (470°FNL & 830°FEL, NB-CD/PR/7364TD)	MCGLOTHLIN 17-11	MCGLOTHLIN 17-11 AWB	MCGLOTHLIN 17-11 AWP	14774.85	2036.72	14774.85	14774.85	5.66	14774.85	PASS
SEC.15-T06N-R66W	SLOT#06 EX. HARVESTERS RESOURCES #15M-423 (323°FNL & 2053°FEL, HORIZ/PR)	EX. HARVESTERS RESOURCES #15M-423	EX. HARVESTERS RESOURCES #15M-423 AWB	EX. HARVESTERS RESOURCES #15M-423 AWP	6877.90	593.12	6877.90	7004.00	5.97	7004.00	PASS
SEC.09-T06N-R66W	SLOT#03 EX. LUCAS SCHOOL #1 (660°FSL & 600°FEL, TA)	EX. LUCAS SCHOOL #1	EX. LUCAS SCHOOL #1 AWB	EX. LUCAS SCHOOL #1 AWP	10222.20	2972.29	10222.20	10804.00	6.10	11104.00	PASS
SEC.15-T06N-R66W	SLOT#27 EX. SENA 15-24 (1876°FNL & 1907°FNL, NB-CD/PR/7440TD)	SENA 15-24	SENA 15-24 AWB	SENA 15-24 AWP	7830.00	463.46	7830.00	7904.00	6.25	7904.00	PASS
SEC.21-T06N-R66W	SLOT#05 EX. LEFFLER FARM 1-21 (860°FNL & 1980°FEL, PA, CODL)	EX. LEFFLER FARM 1-21	EX. LEFFLER FARM 1-21 AWB	EX. LEFFLER FARM 1-21 AWP	12990.60	3846.14	12990.60	13704.00	6.27	14104.00	PASS
SEC.16-T06N-R66W	SLOT#01 EX. STATE HOPPE #16-1 (561°FSL & 664°FEL, PR-NB/CD)	EX. STATE HOPPE #16-1	EX. STATE HOPPE #16-1 AWB	EX. STATE HOPPE #16-1 AWP	14356.00	2535.72	14356.00	14704.00	6.52	14704.00	PASS



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION					
Operator	SRC ENERGY		Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)	
Area	COLORADO		Well	HARVESTERS STATE 32N-16A-M	
Field	WELD COUNTY (NAD83, TRUE NORTH)		Wellbore	HARVESTERS STATE 32N-16A-M PWB	
Facility	SEC.15-T06N-R66W		Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD	

CALCULATION RANGE & CUTOFF		
From: 4.00ft MD	To: 14774.85ft MD	C-C Cutoff: 1000.00 ft

OFFSET WELL CLEARANCE SUMMARY (92 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.15-T06N-R66W	SLOT#09 HARVESTERS STATE 5N-16C-M (1753°FNL & 2334°FEL, SEC.15)	HARVESTERS STATE 5N-16C-M	HARVESTERS STATE 5N-16C-M AWB	HARVESTERS STATE 5N-16C-M AWP	1756.00	122.04	1756.00	1756.00	6.57	14704.00	PASS
SEC.17-T06N-R66W	SLOT#05 EX. FRITZLER 1-17 (60°FSL & 660°FEL, CODL/PR/7800°TD)	FRITZLER 1-17	FRITZLER 1-17 AWB	FRITZLER 1-17 AWP	14774.85	2485.23	14774.85	14774.85	6.61	14774.85	PASS
SEC.17-T06N-R66W	SLOT#10 EX. FRITZLER 6-6-17 (717°FSL & 657°FEL, NB-CD/PR/7408°TD)	FRITZLER 6-6-17	FRITZLER 6-6-17 AWB	FRITZLER 6-6-17 AWP	14774.85	2275.41	14774.85	14774.85	7.48	14774.85	PASS
SEC.17-T06N-R66W	SLOT#01 EX. FRITZLER #8-8-17 (658°FSL & 608°FEL, PR,NB/CD)	EX. FRITZLER #8-8-17	EX. FRITZLER #8-8-17 AWB	EX. FRITZLER #8-8-17 AWP	14774.85	2983.83	14774.85	14774.85	7.49	14774.85	PASS
SEC.17-T06N-R66W	SLOT#03 EX. ULRICH PC I 17-08 (1938°FNL & 835°FEL, NB-CD/PR/7366°TD)	ULRICH PC I 17-08	ULRICH PC I 17-08 AWB	ULRICH PC I 17-08 AWP	14774.85	1090.63	14774.85	14774.85	7.59	14774.85	PASS
SEC.21-T06N-R66W	SLOT#06 EX. FRITZLER 11-21-4 (645°FNL & 664°FWL, PR, NB/CD)	EX. FRITZLER 11-21-4	EX. FRITZLER 11-21-4 AWB	EX. FRITZLER 11-21-4 AWP	13704.00	3002.63	13704.00	14304.00	8.22	14604.00	PASS
SEC.17-T06N-R66W	SLOT#04 EX. ULRICH PC I 17-17D (1963°FNL & 836°FEL, NB-CD/PR/7580°TD)	ULRICH PC I 17-17D	ULRICH PC I 17-17D AWB	ULRICH PC I 17-17D AWP	14774.85	2043.73	14774.85	14774.85	8.39	14774.85	PASS
SEC.17-T06N-R66W	SLOT#02 EX. FRITZLER #6-8-17 (660°FSL & 668°FEL, PR NB/CD)	EX. FRITZLER #6-8-17	EX. FRITZLER #6-8-17 AWB	EX. FRITZLER #6-8-17 AWP	14774.85	3263.23	14774.85	14774.85	9.02	14774.85	PASS
SEC.21-T06N-R66W	SLOT#02 EX. FRITZLER 11-21 (736°FNL & 695°FWL, PR, NB/CD)	EX. FRITZLER 11-21	EX. FRITZLER 11-21 AWB	EX. FRITZLER 11-21 AWP	14348.20	3682.87	14348.20	14774.85	9.40	14774.85	PASS
SEC.15-T06N-R66W	SLOT#05 EX. HARVESTERS RESOURCES #15R-243 (323°FNL & 2023°FEL, HORIZ/PR)	EX. HARVESTERS RESOURCES #15R-243	EX. HARVESTERS RESOURCES #15R-243 AWB	EX. HARVESTERS RESOURCES #15R-243 AWP	6704.00	983.70	6704.00	6819.86	9.45	6819.86	PASS
SEC.15-T06N-R66W	SLOT#08 HARVESTERS STATE 5C-16-M (1733°FNL & 2334°FEL, SEC.15)	HARVESTERS STATE 5C-16-M	HARVESTERS STATE 5C-16-M AWB	HARVESTERS STATE 5C-16-M AWP	1756.00	180.58	1756.00	1756.00	9.61	14704.00	PASS
SEC.16-T06N-R66W	SLOT#02 EX. BURMAN #16-43 (466°FSL & 1793°FEL, PR, NB/CD)	EX. BURMAN #16-43	EX. BURMAN #16-43 AWB	EX. BURMAN #16-43 AWP	11515.70	2525.97	11515.70	12104.00	9.61	12404.00	PASS
SEC.20-T06N-R66W	SLOT#03 EX. HOOD 41-20 (661°FNL & 661°FEL, PR, NB/CD)	EX. HOOD 41-20	EX. HOOD 41-20AWB	EX. HOOD 41-20AWP	14774.85	3831.49	14774.85	14774.85	9.99	14774.85	PASS
SEC.17-T06N-R66W	SLOT#03 EX. FRITZLER #34-17 (660°FSL & 683°FEL, PR, NB/CD)	EX. FRITZLER #34-17	EX. FRITZLER #34-17 AWB	EX. FRITZLER #34-17 AWP	14774.85	3154.96	14774.85	14774.85	10.14	14774.85	PASS
SEC.21-T06N-R66W	SLOT#01 EX. MAURICE LEFFLER 1 (660°FNL & 1980°FWL, PA, UNK)	EX. MAURICE LEFFLER 1	EX. MAURICE LEFFLER 1 AWB	EX. MAURICE LEFFLER 1 AWP	13011.80	4409.24	13011.80	14204.00	10.24	14704.00	PASS
SEC.15-T06N-R66W	SLOT#01 EX. BURBACH 15-22 (839°FNL & 844°FWL, CODL/SI/7399°TD)	BURBACH 15-22	BURBACH 15-22 AWB	BURBACH 15-22 AWP	8856.00	1480.95	8856.00	9304.00	10.67	9504.00	PASS
SEC.15-T06N-R66W	SLOT#25 EX. SENA 15-25 (1197°FNL & 1538°FWL, NB-CD/PR/7425°TD)	SENA 15-25	SENA 15-25 AWB	SENA 15-25 AWP	8175.20	1027.38	8175.20	8504.00	10.87	8604.00	PASS
SEC.15-T06N-R66W	SLOT#10 EX. HARVESTERS 32-15 (1790°FNL & 1810°FEL, CODL/SI/7440°TD)	HARVESTERS 32-15	HARVESTERS 32-15 AWB	HARVESTERS 32-15 AWP	1756.00	565.05	1756.00	1756.00	10.95	6604.00	PASS
SEC.17-T06N-R66W	SLOT#07 EX. FRITZLER 17-32-12 (718°FSL & 642°FEL,B-CD/PR/7755°TD)	FRITZLER 17-32-12	FRITZLER 17-32-12 AWB	FRITZLER 17-32-12 AWP	14774.85	1527.52	14774.85	14774.85	11.50	14774.85	PASS
SEC.17-T06N-R66W	SLOT#04 EX. HOOD #6-2-20 (659°FSL & 653°FEL, PR, NB/CD)	EX. HOOD #6-2-20	EX. HOOD #6-2-20 AWB	EX. HOOD #6-2-20 AWP	14774.85	4499.65	14774.85	14774.85	11.74	14774.85	PASS
SEC.15-T06N-R66W	SLOT#02 EX. HARVESTERS RESOURCES #15R-403 (330°FNL & 638°FEL, HORIZ/PR)	EX. HARVESTERS RESOURCES #15R-403	EX. HARVESTERS RESOURCES #15R-403 AWB	EX. HARVESTERS RESOURCES #15R-403 AWP	6687.20	1314.09	6687.20	6804.00	12.41	6804.00	PASS
SEC.21-T06N-R66W	SLOT#04 EX. LEFFLER 1 #21-2 (660°FNL & 1880°FEL SEC.21,PR.7340°MD)	LEFFLER 1 #21-2	LEFFLER 1 #21-2 AWB	LEFFLER 1 #21-2 AWP	11648.20	3631.51	11648.20	12804.00	12.90	13504.00	PASS
SEC.15-T06N-R66W	SLOT#07 HARVESTERS STATE 31N-16B-M (1713°FNL & 2334°FEL, SEC.15)	HARVESTERS STATE 31N-16B-M	HARVESTERS STATE 31N-16B-M AWB	HARVESTERS STATE 31N-16B-M AWP	1756.00	245.25	1756.00	1756.00	13.06	14704.00	PASS
SEC.22-T06N-R66W	SLOT#01EX:RUTT-ADAMS HEIRS #2-22 (660°FNL&1980°FWL,SEC.22,7762°PA)	RUTT-ADAMS HEIRS #2-22	RUTT-ADAMS HEIRS #2-22 AWB	RUTT-ADAMS HEIRS #2-22 AWP	7692.00	3656.69	7692.00	9304.00	13.44	10204.00	PASS
SEC.21-T06N-R66W	SLOT#01 LEFFLER 26N-23B-L (1801°FNL & 275°FEL SEC.21)	LEFFLER 26N-23B-L	LEFFLER 26N-23B-L AWB	LEFFLER 26N-23B-L AWP	8181.50	3028.81	9756.00	11304.00	14.08	11904.00	PASS



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION					
Operator	SRC ENERGY		Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)	
Area	COLORADO		Well	HARVESTERS STATE 32N-16A-M	
Field	WELD COUNTY (NAD83, TRUE NORTH)		Wellbore	HARVESTERS STATE 32N-16A-M PWB	
Facility	SEC.15-T06N-R66W		Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD	

CALCULATION RANGE & CUTOFF		
From: 4.00ft MD	To: 14774.85ft MD	C-C Cutoff: 1000.00 ft

OFFSET WELL CLEARANCE SUMMARY (92 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.17-T06N-R66W	SLOT#06 EX. FRITZLER 17-23-18 (716°FSL & 672°FEL,NB-CD/PR/7752TD)	FRITZLER 17-23-18	FRITZLER 17-23-18 AWB	FRITZLER 17-23-18 AWP	14774.85	3331.04	14774.85	14774.85	14.71	14774.85	PASS
SEC.21-T06N-R66W	SLOT#02 LEFFLER 26C-23-L (1821°FNL & 275°FEL SEC.21)	LEFFLER 26C-23-L	LEFFLER 26C-23-L AWB	LEFFLER 26C-23-L AWP	7680.00	3253.32	9556.00	11404.00	14.80	12104.00	PASS
SEC.15-T06N-R66W	SLOT#06 HARVESTERS STATE 31C-16-M (1693°FNL & 2333°FEL, SEC.15)	HARVESTERS STATE 31C-16-M	HARVESTERS STATE 31C-16-M AWB	HARVESTERS STATE 31C-16-M AWP	1756.00	301.05	1756.00	1756.00	15.88	14704.00	PASS
SEC.10-T06N-R66W	SLOT#01 EX. BLACK GOLD PETROLEUM #1 (660°FSL & 660°FNL, PR)	EX. BLACK GOLD PETROLEUM #1	EX. BLACK GOLD PETROLEUM #1 AWB	EX. BLACK GOLD PETROLEUM #1 AWP	8948.20	2899.09	8948.20	10304.00	17.79	11004.00	PASS
SEC.15-T06N-R66W	SLOT#08 EX. BERG 33-15 (1830°FSL & 1980°FEL, NB-CD/PA/7346TD)	BERG 33-15	BERG 33-15 AWB	BERG 33-15 AWP	6484.80	1210.57	6484.80	6704.00	17.96	7404.00	PASS
SEC.15-T06N-R66W	SLOT#26 EX. SENA 15-21 (559°FNL & 1858°FNL, NB-CD/PR/7441TD)	SENA 15-21	SENA 15-21 AWB	SENA 15-21 AWP	7833.90	1662.78	7833.90	8604.00	18.35	9104.00	PASS
SEC.15-T06N-R66W	SLOT#05 HARVESTERS STATE 4N-16A-M (1673°FNL & 2333°FEL, SEC.15)	HARVESTERS STATE 4N-16A-M	HARVESTERS STATE 4N-16A-M AWB	HARVESTERS STATE 4N-16A-M AWP	1756.00	368.39	1756.00	1756.00	19.37	14704.00	PASS
SEC.15-T06N-R66W	SLOT#04 HARVESTERS STATE 4N-16C-M (1653°FNL & 2333°FEL, SEC.15)	HARVESTERS STATE 4N-16C-M	HARVESTERS STATE 4N-16C-M AWB	HARVESTERS STATE 4N-16C-M AWP	1756.00	418.01	1756.00	1756.00	22.05	14704.00	PASS
SEC.17-T06N-R66W	SLOT#02 EX. ULRICH PC I 17-07D ( 1988°FNL & 836°FEL, NB-CD/PR/7581TD)	ULRICH PC I 17-07D	ULRICH PC I 17-07D AWB	ULRICH PC I 17-07D AWP	14774.85	2146.08	14774.85	14774.85	22.70	14774.85	PASS
SEC.10-T06N-R66W	SLOT#03 EX. BLACK GOLD #3 (660°FSL & 1830°FNL, PA)	EX. BLACK GOLD #3	EX. BLACK GOLD #3 AWB	EX. BLACK GOLD #3 AWP	1756.00	2716.21	7804.00	9404.00	22.89	10504.00	PASS
SEC.15-T06N-R66W	SLOT#09 EX. HARVESTERS 31-15 (850°FNL & 1810°FEL, COOL/SI/7443TD)	HARVESTERS 31-15	HARVESTERS 31-15 AWB	HARVESTERS 31-15 AWP	1756.00	1220.51	1756.00	1756.00	23.72	7404.00	PASS
SEC.15-T06N-R66W	SLOT#03 HARVESTERS STATE 4C-16-M (1633°FNL & 2333°FEL, SEC.15)	HARVESTERS STATE 4C-16-M	HARVESTERS STATE 4C-16-M AWB	HARVESTERS STATE 4C-16-M AWP	1756.00	465.70	1756.00	1756.00	24.61	14704.00	PASS
SEC.15-T06N-R66W	SLOT#01 HARVESTERS STATE 30C-16-M (1593°FNL & 2332°FEL, SEC.15)	HARVESTERS STATE 30C-16-M	HARVESTERS STATE 30C-16-M AWB	HARVESTERS STATE 30C-16-M AWP	1756.00	559.29	1756.00	1756.00	29.22	14704.00	PASS
SEC.10-T06N-R66W	SLOT#01 EX. MONTERA 10-34 (469°FSL & 2191°FEL, PR)	EX. MONTERA 10-34	EX. MONTERA 10-34 AWB	EX. MONTERA 10-34 AWP	1756.00	2365.76	1756.00	8904.00	32.75	10604.00	PASS
SEC.22-T06N-R66W	SLOT#04 EX.BERRY #22-2 (847°FNL & 1808°FEL SEC.22,PR,7325MD)	BERRY #22-2	BERRY #22-2 AWB	BERRY #22-2 AWP	6680.00	3879.38	6680.00	9904.00	38.15	12604.00	PASS
SEC.21-T06N-R66W	SLOT#14 DONN 30N-20B-L (758°FNL & 250°FEL, SEC.21)	DONN 30N-20B-L	DONN 30N-20B-L AWB	DONN 30N-20B-L AWP	2144.30	5059.88	9804.00	13804.00	39.75	14704.00	PASS
SEC.21-T06N-R66W	SLOT#13 DONN 30N-20A-L (738°FNL & 250°FEL, SEC.21)	DONN 30N-20A-L	DONN 30N-20A-L AWB	DONN 30N-20A-L AWP	2156.00	5001.65	9756.00	13704.00	39.92	14704.00	PASS



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5N-16B-M PWB Offset Wellpath: HARVESTERS STATE 5N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W				Slot: SLOT#10 HARVESTERS STATE 5N-16B-M (1773°FNL & 2334°FEL, SEC.15)				Well: HARVESTERS STATE 5N-16B-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			
1756.00†	1752.35	-99.25	-35.49	1756.69	1754.97	-41.02	-33.53	161.96	58.32	19.56	3.08	PASS			
1783.00†	1779.36	-101.16	-36.14	1783.77	1782.01	-42.21	-34.19	164.35	59.04	19.49	3.10	PASS			
1856.00†	1852.04	-106.64	-37.87	1856.65	1854.79	-45.43	-35.97	164.24	61.30	19.58	3.21	PASS			
1956.00†	1951.73	-114.15	-40.25	1956.60	1954.62	-49.83	-38.41	164.10	64.41	19.67	3.36	PASS			
2056.00†	2051.42	-121.67	-42.62	2056.55	2054.44	-54.24	-40.84	163.97	67.52	19.81	3.50	PASS			
2156.00†	2151.11	-129.18	-45.00	2156.50	2154.27	-58.65	-43.28	163.86	70.63	20.02	3.62	PASS			
2256.00†	2250.80	-136.70	-47.38	2256.46	2254.09	-63.06	-45.72	163.75	73.73	20.27	3.73	PASS			
2356.00†	2350.49	-144.21	-49.75	2356.41	2353.92	-67.47	-48.16	163.65	76.84	20.58	3.83	PASS			
2456.00†	2450.18	-151.73	-52.13	2456.36	2453.74	-71.87	-50.59	163.56	79.95	20.94	3.92	PASS			
2556.00†	2549.87	-159.25	-54.51	2556.31	2553.57	-76.28	-53.03	163.48	83.06	21.35	3.99	PASS			
2656.00†	2649.55	-166.76	-56.88	2656.26	2653.39	-80.69	-55.47	163.40	86.17	21.81	4.05	PASS			
2756.00†	2749.24	-174.28	-59.26	2756.21	2753.21	-85.10	-57.91	163.33	89.28	22.30	4.10	PASS			
2856.00†	2848.93	-181.79	-61.63	2856.16	2853.04	-89.51	-60.34	163.26	92.39	22.84	4.14	PASS			
2956.00†	2948.62	-189.31	-64.01	2956.12	2952.86	-93.91	-62.78	163.20	95.50	23.41	4.18	PASS			
3056.00†	3048.31	-196.82	-66.39	3056.07	3052.69	-98.32	-65.22	163.14	98.61	24.01	4.20	PASS			
3156.00†	3148.00	-204.34	-68.76	3156.02	3152.51	-102.73	-67.66	163.09	101.71	24.65	4.22	PASS			
3256.00†	3247.69	-211.85	-71.14	3255.97	3252.34	-107.14	-70.09	163.03	104.82	25.32	4.23	PASS			
3356.00†	3347.38	-219.37	-73.52	3355.92	3352.16	-111.54	-72.53	162.99	107.93	26.01	4.24	PASS			
3456.00†	3447.07	-226.88	-75.89	3455.87	3451.99	-115.95	-74.97	162.94	111.04	26.73	4.24	PASS			
3556.00†	3546.75	-234.40	-78.27	3555.83	3551.81	-120.36	-77.41	162.90	114.15	27.46	4.24	PASS			
3656.00†	3646.44	-241.91	-80.65	3655.78	3651.64	-124.77	-79.84	162.85	117.26	28.22	4.24	PASS			
3756.00†	3746.13	-249.43	-83.02	3755.73	3751.46	-129.18	-82.28	162.81	120.37	29.00	4.23	PASS			
3856.00†	3845.82	-256.94	-85.40	3855.68	3851.29	-133.58	-84.72	162.78	123.48	29.80	4.22	PASS			
3956.00†	3945.51	-264.46	-87.77	3955.63	3951.11	-137.99	-87.16	162.74	126.59	30.61	4.21	PASS			
4056.00†	4045.20	-271.98	-90.15	4055.58	4050.93	-142.40	-89.59	162.71	129.70	31.44	4.20	PASS			
4156.00†	4144.89	-279.49	-92.53	4155.54	4150.76	-146.81	-92.03	162.68	132.81	32.28	4.18	PASS			
4256.00†	4244.58	-287.01	-94.90	4255.49	4250.58	-151.22	-94.47	162.65	135.92	33.13	4.17	PASS			
4356.00†	4344.27	-294.52	-97.28	4355.44	4350.41	-155.62	-96.91	162.62	139.03	34.00	4.16	PASS			
4456.00†	4443.95	-302.04	-99.66	4455.39	4450.23	-160.03	-99.34	162.59	142.15	34.87	4.14	PASS			
4556.00†	4543.64	-309.55	-102.03	4555.34	4550.06	-164.44	-101.78	162.56	145.26	35.76	4.12	PASS			

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5N-16B-M PWB Offset Wellpath: HARVESTERS STATE 5N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#10 HARVESTERS STATE 5N-16B-M (1773°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 5N-16B-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	
4656.00†	4643.33	-317.07	-104.41	4655.29	4649.88	-168.85	-104.22	162.54	148.37	36.65	4.11	PASS	
4756.00†	4743.02	-324.58	-106.79	4755.24	4749.71	-173.25	-106.66	162.51	151.48	37.56	4.09	PASS	
4856.00†	4842.71	-332.10	-109.16	4855.20	4849.53	-177.66	-109.09	162.49	154.59	38.47	4.08	PASS	
4956.00†	4942.40	-339.61	-111.54	4955.13	4949.36	-182.07	-111.53	162.46	157.70	39.39	4.06	PASS	
5056.00†	5042.09	-347.13	-113.92	5055.10	5049.18	-186.48	-113.97	162.44	160.81	40.31	4.04	PASS	
5156.00†	5141.78	-354.64	-116.29	5155.05	5149.01	-190.89	-116.41	162.42	163.92	41.25	4.03	PASS	
5256.00†	5241.47	-362.16	-118.67	5255.00	5248.83	-195.29	-118.84	162.40	167.03	42.18	4.01	PASS	
5356.00†	5341.15	-369.68	-121.04	5354.95	5348.65	-199.70	-121.28	162.38	170.14	43.13	3.99	PASS	
5456.00†	5440.84	-377.19	-123.42	5454.91	5448.48	-204.11	-123.72	162.36	173.25	44.08	3.98	PASS	
5556.00†	5540.53	-384.71	-125.80	5554.86	5548.30	-208.52	-126.16	162.35	176.36	45.03	3.96	PASS	
5656.00†	5640.22	-392.22	-128.17	5654.81	5648.13	-212.93	-128.59	162.33	179.47	45.99	3.93	PASS	
5756.00†	5739.91	-399.74	-130.55	5754.76	5747.95	-217.33	-131.03	162.31	182.58	46.95	3.93	PASS	
5856.00†	5839.60	-407.25	-132.93	5854.71	5847.78	-221.74	-133.47	162.29	185.69	47.92	3.92	PASS	
5956.00†	5939.29	-414.77	-135.30	5954.66	5947.60	-226.15	-135.91	162.28	188.80	48.89	3.90	PASS	
6056.00†	6038.98	-422.28	-137.68	6054.62	6047.43	-230.56	-138.34	162.26	191.91	49.86	3.89	PASS	
6156.00†	6138.67	-429.80	-140.06	6154.57	6147.25	-234.96	-140.78	162.25	195.02	50.84	3.88	PASS	
6256.00†	6238.35	-437.31	-142.43	6254.52	6247.08	-239.37	-143.22	162.23	198.13	51.82	3.86	PASS	
6356.00†	6338.04	-444.83	-144.81	6354.47	6346.90	-243.78	-145.66	162.22	201.24	52.80	3.85	PASS	
6412.80	6394.66	-449.10	-146.16	6411.24	6403.60	-246.28	-147.04	162.21	203.01	53.36	3.84	PASS	
6456.00†	6437.66	-452.35	-148.65	6454.41	6446.71	-248.19	-148.12	129.68	204.36	53.79	3.84	PASS	
6556.00†	6535.83	-459.87	-165.57	6554.99	6546.45	-252.66	-159.43	108.71	207.57	54.88	3.82	PASS	
6656.00†	6630.14	-467.23	-197.68	6656.50	6644.03	-257.16	-186.62	103.76	210.81	56.00	3.80	PASS	
6756.00†	6718.27	-474.24	-244.19	6758.93	6736.86	-261.58	-229.43	102.13	213.98	57.09	3.78	PASS	
6856.00†	6798.05	-480.73	-303.96	6862.24	6822.32	-265.79	-287.13	101.61	216.97	58.46	3.74	PASS	
6956.00†	6867.52	-486.55	-375.51	6966.36	6897.88	-269.67	-358.49	101.55	219.66	60.38	3.67	PASS	
7056.00†	6924.96	-491.55	-457.09	7071.19	6961.20	-273.10	-441.81	101.66	221.95	63.06	3.55	PASS	
7156.00†	6988.96	-495.60	-546.68	7176.61	7010.25	-275.99	-534.95	101.81	223.76	66.65	3.38	PASS	
7256.00†	6998.45	-498.60	-642.08	7282.47	7043.39	-278.23	-635.33	101.94	225.01	71.05	3.19	PASS	
7356.00†	7012.68	-500.49	-740.94	7388.59	7059.48	-279.76	-740.09	102.01	225.65	76.15	2.98	PASS	
7401.17	7014.00	-500.97	-786.08	7436.50	7061.00	-280.20	-787.96	102.02	225.72	78.61	2.89	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5N-16B-M PWB Offset Wellpath: HARVESTERS STATE 5N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#10 HARVESTERS STATE 5N-16B-M (1773°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 5N-16B-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
7456.00†	7013.67	-501.39	-840.91	7491.33	7060.76	-280.61	-842.79	102.04	225.75	81.62	2.78	PASS
7556.00†	7013.06	-502.18	-940.90	7591.33	7060.32	-281.38	-942.79	102.08	225.81	87.56	2.59	PASS
7656.00†	7012.44	-502.96	-1040.90	7691.33	7059.89	-282.14	-1042.79	102.13	225.87	94.00	2.41	PASS
7756.00†	7011.83	-503.74	-1140.89	7791.33	7059.46	-282.90	-1142.78	102.17	225.92	100.82	2.25	PASS
7856.00†	7011.22	-504.52	-1240.89	7891.33	7059.02	-283.66	-1242.78	102.21	225.98	107.97	2.10	PASS
7956.00†	7010.61	-505.31	-1340.88	7991.33	7058.59	-284.43	-1342.77	102.25	226.04	115.38	1.96	PASS
8056.00†	7010.00	-506.09	-1440.88	8091.33	7058.15	-285.19	-1442.77	102.30	226.09	123.01	1.84	PASS
8156.00†	7009.39	-506.87	-1540.87	8191.33	7057.72	-285.95	-1542.77	102.34	226.15	130.81	1.73	PASS
8256.00†	7008.78	-507.65	-1640.87	8291.33	7057.29	-286.71	-1642.76	102.38	226.21	138.76	1.63	PASS
8356.00†	7008.17	-508.43	-1740.86	8391.33	7056.85	-287.48	-1742.76	102.42	226.26	146.82	1.54	PASS
8456.00†	7007.56	-509.22	-1840.86	8491.33	7056.42	-288.24	-1842.75	102.47	226.32	154.99	1.46	PASS
8556.00†	7006.95	-510.00	-1940.85	8591.33	7055.98	-289.00	-1942.75	102.51	226.38	163.29	1.39	PASS
8656.00†	7006.34	-510.78	-2040.85	8691.33	7055.55	-289.77	-2042.75	102.55	226.44	171.57	1.32	PASS
8756.00†	7005.73	-511.56	-2140.84	8791.33	7055.12	-290.53	-2142.74	102.59	226.49	179.96	1.26	PASS
8856.00†	7005.12	-512.35	-2240.84	8891.33	7054.68	-291.29	-2242.74	102.64	226.55	188.40	1.20	PASS
8956.00†	7004.51	-513.13	-2340.83	8991.33	7054.25	-292.05	-2342.73	102.68	226.61	196.89	1.15	PASS
9056.00†	7003.90	-513.91	-2440.83	9091.33	7053.81	-292.82	-2442.73	102.72	226.67	205.42	1.10	PASS
9156.00†	7003.29	-514.69	-2540.82	9191.33	7053.38	-293.58	-2542.73	102.76	226.72	213.98	1.06	PASS
9256.00†	7002.68	-515.47	-2640.82	9291.33	7052.95	-294.34	-2642.72	102.81	226.78	222.57	1.02	PASS
9356.00†	7002.07	-516.26	-2740.81	9391.33	7052.51	-295.10	-2742.72	102.85	226.84	231.19	0.98	FAIL
9456.00†	7001.46	-517.04	-2840.81	9491.33	7052.08	-295.87	-2842.71	102.89	226.90	239.83	0.95	FAIL
9556.00†	7000.85	-517.82	-2940.80	9591.33	7051.64	-296.63	-2942.71	102.93	226.96	248.49	0.91	FAIL
9656.00†	7000.24	-518.60	-3040.80	9691.33	7051.21	-297.39	-3042.71	102.98	227.02	257.17	0.88	FAIL
9756.00†	6999.63	-519.39	-3140.79	9791.33	7050.78	-298.15	-3142.70	103.02	227.08	265.87	0.85	FAIL
9856.00†	6999.02	-520.17	-3240.79	9891.33	7050.34	-298.92	-3242.70	103.06	227.14	274.58	0.83	FAIL
9956.00†	6998.41	-520.95	-3340.78	9991.33	7049.91	-299.68	-3342.69	103.10	227.19	283.31	0.80	FAIL
10056.00†	6997.80	-521.73	-3440.78	10091.33	7049.47	-300.44	-3442.69	103.14	227.25	292.04	0.78	FAIL
10156.00†	6997.19	-522.52	-3540.77	10191.33	7049.04	-301.20	-3542.69	103.19	227.31	300.79	0.76	FAIL
10256.00†	6996.58	-523.30	-3640.77	10291.33	7048.61	-301.97	-3642.68	103.23	227.37	309.54	0.73	FAIL
10356.00†	6995.97	-524.08	-3740.76	10391.33	7048.17	-302.73	-3742.68	103.27	227.43	318.30	0.71	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5N-16B-M PWB Offset Wellpath: HARVESTERS STATE 5N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#10 HARVESTERS STATE 5N-16B-M (1773°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 5N-16B-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	
10456.00†	6995.36	-524.86	-3840.76	10491.33	7047.74	-303.49	-3842.67	103.31	227.49	327.07	0.69	FAIL	
10556.00†	6994.75	-525.64	-3940.75	10591.33	7047.30	-304.25	-3942.67	103.35	227.55	335.85	0.68	FAIL	
10656.00†	6994.14	-526.43	-4040.75	10691.33	7046.87	-305.02	-4042.67	103.40	227.61	344.63	0.66	FAIL	
10756.00†	6993.53	-527.21	-4140.74	10791.33	7046.44	-305.78	-4142.66	103.44	227.67	353.41	0.64	FAIL	
10856.00†	6992.92	-527.99	-4240.74	10891.33	7046.00	-306.54	-4242.66	103.48	227.73	362.20	0.63	FAIL	
10956.00†	6992.31	-528.77	-4340.73	10991.32	7045.57	-307.30	-4342.65	103.52	227.79	370.99	0.61	FAIL	
11056.00†	6991.70	-529.56	-4440.73	11091.32	7045.13	-308.07	-4442.65	103.56	227.85	379.79	0.60	FAIL	
11156.00†	6991.09	-530.34	-4540.72	11191.32	7044.70	-308.83	-4542.65	103.61	227.91	388.59	0.59	FAIL	
11256.00†	6990.47	-531.12	-4640.72	11291.32	7044.27	-309.59	-4642.64	103.65	227.97	397.39	0.57	FAIL	
11356.00†	6989.86	-531.90	-4740.71	11391.32	7043.83	-310.35	-4742.64	103.69	228.03	406.19	0.56	FAIL	
11456.00†	6989.25	-532.68	-4840.71	11491.32	7043.40	-311.12	-4842.63	103.73	228.10	415.00	0.55	FAIL	
11556.00†	6988.64	-533.47	-4940.70	11591.32	7042.96	-311.88	-4942.63	103.77	228.16	423.80	0.54	FAIL	
11656.00†	6988.03	-534.25	-5040.70	11691.32	7042.53	-312.64	-5042.63	103.82	228.22	432.61	0.53	FAIL	
11756.00†	6987.42	-535.03	-5140.69	11791.32	7042.10	-313.40	-5142.62	103.86	228.28	441.42	0.52	FAIL	
11856.00†	6986.81	-535.81	-5240.69	11891.32	7041.66	-314.17	-5242.62	103.90	228.34	450.23	0.51	FAIL	
11956.00†	6986.20	-536.60	-5340.68	11991.32	7041.23	-314.93	-5342.61	103.94	228.40	459.04	0.50	FAIL	
12056.00†	6985.59	-537.38	-5440.68	12091.32	7040.79	-315.69	-5442.61	103.98	228.46	467.85	0.49	FAIL	
12156.00†	6984.98	-538.16	-5540.67	12191.32	7040.36	-316.45	-5542.61	104.02	228.53	476.65	0.48	FAIL	
12256.00†	6984.37	-538.94	-5640.67	12291.32	7039.93	-317.22	-5642.60	104.07	228.59	485.46	0.47	FAIL	
12356.00†	6983.76	-539.73	-5740.66	12391.32	7039.49	-317.98	-5742.60	104.11	228.65	494.27	0.46	FAIL	
12456.00†	6983.15	-540.51	-5840.66	12491.32	7039.06	-318.74	-5842.59	104.15	228.71	503.08	0.45	FAIL	
12556.00†	6982.54	-541.29	-5940.66	12591.32	7038.62	-319.50	-5942.59	104.19	228.77	511.88	0.45	FAIL	
12656.00†	6981.93	-542.07	-6040.65	12691.32	7038.19	-320.27	-6042.59	104.23	228.84	520.69	0.44	FAIL	
12756.00†	6981.32	-542.85	-6140.65	12791.32	7037.76	-321.03	-6142.58	104.27	228.90	529.49	0.43	FAIL	
12856.00†	6980.71	-543.64	-6240.64	12891.32	7037.32	-321.79	-6242.58	104.32	228.96	538.30	0.42	FAIL	
12956.00†	6980.10	-544.42	-6340.64	12991.32	7036.89	-322.55	-6342.57	104.36	229.02	547.10	0.42	FAIL	
13056.00†	6979.49	-545.20	-6440.63	13091.32	7036.45	-323.32	-6442.57	104.40	229.09	555.90	0.41	FAIL	
13156.00†	6978.88	-545.98	-6540.63	13191.32	7036.02	-324.08	-6542.57	104.44	229.15	564.70	0.41	FAIL	
13256.00†	6978.27	-546.77	-6640.62	13291.32	7035.59	-324.84	-6642.56	104.48	229.21	573.50	0.40	FAIL	
13356.00†	6977.66	-547.55	-6740.62	13391.32	7035.15	-325.61	-6742.56	104.52	229.28	582.29	0.39	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5N-16B-M PWB Offset Wellpath: HARVESTERS STATE 5N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W				Slot: SLOT#10 HARVESTERS STATE 5N-16B-M (1773°FNL & 2334°FEL, SEC.15)			Well: HARVESTERS STATE 5N-16B-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
13456.00†	6977.05	-548.33	-6840.61	13491.32	7034.72	-326.37	-6842.55	104.56	229.34	591.09	0.39	FAIL
13556.00†	6976.44	-549.11	-6940.61	13591.32	7034.28	-327.13	-6942.55	104.61	229.40	599.88	0.38	FAIL
13656.00†	6975.83	-549.89	-7040.60	13691.32	7033.85	-327.89	-7042.55	104.65	229.47	608.67	0.38	FAIL
13756.00†	6975.22	-550.68	-7140.60	13791.32	7033.42	-328.66	-7142.54	104.69	229.53	617.46	0.37	FAIL
13856.00†	6974.61	-551.46	-7240.59	13891.32	7032.98	-329.42	-7242.54	104.73	229.59	626.24	0.37	FAIL
13956.00†	6974.00	-552.24	-7340.59	13991.32	7032.55	-330.18	-7342.53	104.77	229.66	635.03	0.36	FAIL
14056.00†	6973.39	-553.02	-7440.58	14091.32	7032.11	-330.94	-7442.53	104.81	229.72	643.81	0.36	FAIL
14156.00†	6972.78	-553.81	-7540.58	14191.32	7031.68	-331.71	-7542.53	104.85	229.79	652.59	0.35	FAIL
14256.00†	6972.17	-554.59	-7640.57	14291.32	7031.25	-332.47	-7642.52	104.89	229.85	661.37	0.35	FAIL
14356.00†	6971.56	-555.37	-7740.57	14391.32	7030.81	-333.23	-7742.52	104.94	229.92	670.14	0.34	FAIL
14456.00†	6970.95	-556.15	-7840.56	14491.32	7030.38	-333.99	-7842.51	104.98	229.98	678.92	0.34	FAIL
14556.00†	6970.34	-556.94	-7940.56	14591.32	7029.94	-334.76	-7942.51	105.02	230.04	687.69	0.33	FAIL
14656.00†	6969.73	-557.72	-8040.55	14691.32	7029.51	-335.52	-8042.51	105.06	230.11	696.45	0.33	FAIL
14756.00†	6969.12	-558.50	-8140.55	14791.32	7029.08	-336.28	-8142.50	105.10	230.17	705.22	0.33	FAIL
14774.85	6969.00	-558.65	-8159.39	14808.69	7029.00	-336.41	-8159.87	105.11	230.19	706.77	0.33	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 5N-16B-M PWB Offset Wellpath: HARVESTERS STATE 5N-16B-M 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: HARVESTERS STATE 5N-16B-M PWB Offset Wellpath: HARVESTERS STATE 5N-16B-M 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	4.00	1750.00	1746.00	4.00	1748.28	12.21	0.14	-6.31	-10.10
9.625in Casing Surface	4.00	1750.00	1746.00	4.00	1748.28	12.21	0.14	-6.31	-10.10
8.5in Open Hole	1750.00	14808.69	13058.69	1748.28	7029.00	-6.31	-10.10	-96.43	-2487.06



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HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 5N-16B-M PWB    Offset Wellpath: HARVESTERS STATE 5N-16B-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 5N-16B-M PWB
1750.00	14808.69	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 5N-16B-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 5N-16B-M PWB    Offset Wellpath: HARVESTERS STATE 5N-16B-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32N-16C-M PWB Offset Wellpath: HARVESTERS STATE 32N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W				Slot: SLOTH12 HARVESTERS STATE 32N-16C-M (1813°FNL & 2335°FEL, SEC.15)				Well: HARVESTERS STATE 32N-16C-M				Threshold Value=1.00 † = interpolated/extrapolated static			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status			
1756.00	1752.35	-99.25	-35.49	1753.32	1745.91	-162.65	-33.20	-21.95	63.77	19.94	3.30	PASS			
1783.09	1779.36	-101.16	-36.14	1780.40	1772.84	-165.41	-33.84	-19.50	64.62	19.88	3.33	PASS			
1856.00†	1852.04	-106.64	-37.87	1853.28	1845.32	-172.83	-35.56	-19.45	66.57	19.97	3.42	PASS			
1956.00†	1951.73	-114.15	-40.25	1953.25	1944.74	-183.01	-37.93	-19.38	69.25	20.05	3.54	PASS			
2056.00†	2051.42	-121.67	-42.62	2053.21	2044.15	-193.19	-40.29	-19.32	71.93	20.20	3.65	PASS			
2156.00†	2151.11	-129.18	-45.00	2153.18	2143.57	-203.37	-42.66	-19.26	74.61	20.40	3.75	PASS			
2256.00†	2250.80	-136.70	-47.38	2253.14	2242.99	-213.55	-45.02	-19.21	77.28	20.65	3.84	PASS			
2356.00†	2350.49	-144.21	-49.75	2353.11	2342.40	-223.73	-47.38	-19.16	79.96	20.96	3.91	PASS			
2456.00†	2450.18	-151.73	-52.13	2453.07	2441.82	-233.91	-49.75	-19.11	82.64	21.32	3.98	PASS			
2556.00†	2549.87	-159.25	-54.51	2553.03	2541.24	-244.09	-52.11	-19.07	85.32	21.72	4.03	PASS			
2656.00†	2649.55	-166.76	-56.88	2653.00	2640.65	-254.27	-54.48	-19.03	87.99	22.17	4.07	PASS			
2756.00†	2749.24	-174.28	-59.26	2752.96	2740.07	-264.45	-56.84	-18.99	90.67	22.67	4.10	PASS			
2856.00†	2848.93	-181.79	-61.63	2852.93	2839.48	-274.63	-59.21	-18.95	93.35	23.20	4.12	PASS			
2956.00†	2948.62	-189.31	-64.01	2952.89	2938.90	-284.81	-61.57	-18.92	96.03	23.77	4.13	PASS			
3056.00†	3048.31	-196.82	-66.39	3052.85	3038.32	-294.99	-63.94	-18.88	98.71	24.38	4.14	PASS			
3156.00†	3148.00	-204.34	-68.76	3152.82	3137.73	-305.17	-66.30	-18.85	101.38	25.01	4.14	PASS			
3256.00†	3247.69	-211.85	-71.14	3252.78	3237.15	-315.35	-68.67	-18.82	104.06	25.68	4.14	PASS			
3356.00†	3347.38	-219.37	-73.52	3352.75	3336.57	-325.53	-71.03	-18.80	106.74	26.37	4.13	PASS			
3456.00†	3447.07	-226.88	-75.89	3452.71	3435.98	-335.71	-73.39	-18.77	109.42	27.09	4.12	PASS			
3556.00†	3546.75	-234.40	-78.27	3552.67	3535.40	-345.89	-75.76	-18.74	112.10	27.83	4.11	PASS			
3656.00†	3646.44	-241.91	-80.65	3652.64	3634.81	-356.07	-78.12	-18.72	114.77	28.59	4.09	PASS			
3756.00†	3746.13	-249.43	-83.02	3752.60	3734.23	-366.25	-80.49	-18.70	117.45	29.37	4.07	PASS			
3856.00†	3845.82	-256.94	-85.40	3852.57	3833.65	-376.43	-82.85	-18.67	120.13	30.17	4.05	PASS			
3956.00†	3945.51	-264.46	-87.77	3952.53	3933.06	-386.61	-85.22	-18.65	122.81	30.99	4.03	PASS			
4056.00†	4045.20	-271.98	-90.15	4052.50	4032.48	-396.79	-87.58	-18.63	125.49	31.82	4.01	PASS			
4156.00†	4144.89	-279.49	-92.53	4152.46	4131.90	-406.97	-89.95	-18.61	128.16	32.66	3.99	PASS			
4256.00†	4244.58	-287.01	-94.90	4252.42	4231.31	-417.15	-92.31	-18.60	130.84	33.52	3.97	PASS			
4356.00†	4344.27	-294.52	-97.28	4352.39	4330.73	-427.33	-94.68	-18.58	133.52	34.39	3.94	PASS			
4456.00†	4443.95	-302.04	-99.66	4452.35	4430.15	-437.51	-97.04	-18.56	136.20	35.27	3.92	PASS			
4556.00†	4543.64	-309.55	-102.03	4552.32	4529.56	-447.69	-99.40	-18.55	138.88	36.16	3.90	PASS			

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32N-16C-M PWB Offset Wellpath: HARVESTERS STATE 32N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W				Slot: SLOT#12 HARVESTERS STATE 32N-16C-M (1813°FNL & 2335°FEL, SEC.15)				Well: HARVESTERS STATE 32N-16C-M				Threshold Value=1.00		† = interpolated/extrapolated static	
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status			
4656.00†	4643.33	-317.07	-104.41	4652.28	4628.98	-457.87	-101.77	-18.53	141.55	37.06	3.87	PASS			
4756.00†	4743.02	-324.58	-106.79	4752.24	4728.39	-468.05	-104.13	-18.51	144.23	37.97	3.85	PASS			
4856.00†	4842.71	-332.10	-109.16	4852.21	4827.81	-478.23	-106.50	-18.50	146.91	38.88	3.83	PASS			
4956.00†	4942.40	-339.61	-111.54	4952.17	4927.23	-488.41	-108.86	-18.49	149.59	39.81	3.81	PASS			
5056.00†	5042.09	-347.13	-113.92	5052.14	5026.64	-498.59	-111.23	-18.47	152.27	40.74	3.79	PASS			
5156.00†	5141.78	-354.64	-116.29	5152.10	5126.06	-508.77	-113.59	-18.46	154.94	41.68	3.76	PASS			
5256.00†	5241.47	-362.16	-118.67	5252.06	5225.48	-518.95	-115.96	-18.45	157.62	42.62	3.74	PASS			
5356.00†	5341.15	-369.68	-121.04	5352.03	5324.89	-529.13	-118.32	-18.43	160.30	43.57	3.72	PASS			
5456.00†	5440.84	-377.19	-123.42	5451.99	5424.31	-539.31	-120.69	-18.42	162.98	44.52	3.70	PASS			
5556.00†	5540.53	-384.71	-125.80	5551.96	5523.72	-549.49	-123.05	-18.41	165.66	45.48	3.68	PASS			
5656.00†	5640.22	-392.22	-128.17	5651.92	5623.14	-559.67	-125.42	-18.40	168.34	46.45	3.66	PASS			
5756.00†	5739.91	-399.74	-130.55	5751.89	5722.56	-569.85	-127.78	-18.39	171.01	47.42	3.65	PASS			
5856.00†	5839.60	-407.25	-132.93	5851.85	5821.97	-580.03	-130.14	-18.38	173.69	48.39	3.63	PASS			
5956.00†	5939.29	-414.77	-135.30	5951.81	5921.39	-590.20	-132.51	-18.37	176.37	49.37	3.61	PASS			
6056.00†	6038.98	-422.28	-137.68	6051.78	6020.81	-600.38	-134.87	-18.36	179.05	50.35	3.59	PASS			
6156.00†	6138.67	-429.80	-140.06	6151.74	6120.22	-610.56	-137.24	-18.35	181.73	51.33	3.58	PASS			
6256.00†	6238.35	-437.31	-142.43	6251.71	6219.64	-620.74	-139.60	-18.34	184.41	52.32	3.56	PASS			
6356.00†	6338.04	-444.83	-144.81	6351.67	6319.06	-630.92	-141.97	-18.33	187.08	53.31	3.54	PASS			
6412.80	6394.66	-449.10	-146.16	6408.45	6375.52	-636.71	-143.31	-18.33	188.60	53.87	3.53	PASS			
6456.00†	6437.66	-452.35	-148.65	6451.60	6418.44	-641.10	-144.33	-51.47	189.78	54.31	3.53	PASS			
6556.00†	6535.83	-459.87	-165.57	6550.49	6516.79	-651.17	-146.68	-77.70	193.17	55.40	3.52	PASS			
6656.00†	6630.14	-467.23	-197.68	6652.62	6617.66	-661.57	-157.83	-89.68	198.78	56.64	3.54	PASS			
6756.00†	6718.27	-474.24	-244.19	6758.62	6719.06	-672.17	-186.38	-97.76	206.20	58.49	3.56	PASS			
6856.00†	6798.05	-480.73	-303.96	6868.74	6817.88	-682.66	-233.49	-103.95	214.78	60.18	3.60	PASS			
6956.00†	6867.52	-486.55	-375.51	6983.07	6910.34	-692.65	-299.75	-108.83	223.72	61.79	3.65	PASS			
7056.00†	6924.96	-491.55	-457.09	7101.52	6992.09	-701.70	-384.74	-112.59	232.18	63.48	3.69	PASS			
7156.00†	6968.96	-495.60	-546.68	7223.67	7058.50	-709.33	-486.76	-115.36	239.35	65.54	3.68	PASS			
7256.00†	6998.43	-498.60	-642.08	7348.81	7105.17	-715.05	-602.51	-117.18	244.55	68.15	3.62	PASS			
7356.00†	7012.68	-500.49	-740.94	7475.89	7128.61	-718.47	-727.15	-118.08	247.27	71.55	3.48	PASS			
7401.17	7014.00	-500.97	-786.08	7533.60	7131.00	-719.19	-784.79	-118.20	247.61	73.32	3.40	PASS			

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32N-16C-M PWB Offset Wellpath: HARVESTERS STATE 32N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#12 HARVESTERS STATE 32N-16C-M (1813°FNL & 2335°FEL, SEC.15) Well: HARVESTERS STATE 32N-16C-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
7456.00†	7013.67	-501.39	-840.91	7588.53	7130.76	-719.61	-839.72	-118.22	247.66	75.90	3.28	PASS	
7556.00†	7013.06	-502.18	-940.90	7688.53	7130.33	-720.39	-939.71	-118.26	247.74	81.05	3.07	PASS	
7656.00†	7012.44	-502.96	-1040.90	7788.53	7129.90	-721.17	-1039.71	-118.29	247.81	86.57	2.88	PASS	
7756.00†	7011.83	-503.74	-1140.89	7888.53	7129.46	-721.95	-1139.71	-118.33	247.89	92.53	2.69	PASS	
7856.00†	7011.22	-504.52	-1240.89	7988.53	7129.03	-722.72	-1239.70	-118.36	247.97	98.81	2.52	PASS	
7956.00†	7010.61	-505.31	-1340.88	8088.53	7128.59	-723.50	-1339.70	-118.40	248.05	105.34	2.36	PASS	
8056.00†	7010.00	-506.09	-1440.88	8188.53	7128.16	-724.28	-1439.69	-118.44	248.13	112.09	2.22	PASS	
8156.00†	7009.39	-506.87	-1540.87	8288.53	7127.73	-725.06	-1539.69	-118.47	248.21	119.02	2.09	PASS	
8256.00†	7008.78	-507.65	-1640.87	8388.53	7127.29	-725.83	-1639.69	-118.51	248.29	126.08	1.97	PASS	
8356.00†	7008.17	-508.43	-1740.86	8488.53	7126.86	-726.61	-1739.68	-118.55	248.37	133.27	1.87	PASS	
8456.00†	7007.56	-509.22	-1840.86	8588.53	7126.42	-727.39	-1839.68	-118.58	248.45	140.57	1.77	PASS	
8556.00†	7006.95	-510.00	-1940.85	8688.53	7125.99	-728.16	-1939.67	-118.62	248.53	147.94	1.68	PASS	
8656.00†	7006.34	-510.78	-2040.85	8788.53	7125.56	-728.94	-2039.67	-118.65	248.61	155.39	1.60	PASS	
8756.00†	7005.73	-511.56	-2140.84	8888.53	7125.12	-729.72	-2139.66	-118.69	248.69	162.90	1.53	PASS	
8856.00†	7005.12	-512.35	-2240.84	8988.53	7124.69	-730.50	-2239.66	-118.73	248.77	170.46	1.46	PASS	
8956.00†	7004.51	-513.13	-2340.83	9088.53	7124.25	-731.27	-2339.66	-118.76	248.85	178.07	1.40	PASS	
9056.00†	7003.90	-513.91	-2440.83	9188.53	7123.82	-732.05	-2439.65	-118.80	248.93	185.72	1.34	PASS	
9156.00†	7003.29	-514.69	-2540.82	9288.53	7123.39	-732.83	-2539.65	-118.84	249.01	193.40	1.29	PASS	
9256.00†	7002.68	-515.47	-2640.82	9388.53	7122.95	-733.61	-2639.64	-118.87	249.09	201.10	1.24	PASS	
9356.00†	7002.07	-516.26	-2740.81	9488.53	7122.52	-734.38	-2739.64	-118.91	249.18	208.84	1.19	PASS	
9456.00†	7001.46	-517.04	-2840.81	9588.53	7122.08	-735.16	-2839.64	-118.94	249.26	216.59	1.15	PASS	
9556.00†	7000.85	-517.82	-2940.80	9688.53	7121.65	-735.94	-2939.63	-118.98	249.34	224.37	1.11	PASS	
9656.00†	7000.24	-518.60	-3040.80	9788.53	7121.22	-736.72	-3039.63	-119.02	249.42	232.16	1.07	PASS	
9756.00†	6999.63	-519.39	-3140.79	9888.53	7120.78	-737.49	-3139.62	-119.05	249.50	239.97	1.04	PASS	
9856.00†	6999.02	-520.17	-3240.79	9988.53	7120.35	-738.27	-3239.62	-119.09	249.58	247.79	1.01	PASS	
9956.00†	6998.41	-520.95	-3340.78	10088.53	7119.91	-739.05	-3339.62	-119.12	249.66	255.62	0.98	FAIL	
10056.00†	6997.80	-521.73	-3440.78	10188.53	7119.48	-739.82	-3439.61	-119.16	249.74	263.46	0.95	FAIL	
10156.00†	6997.19	-522.52	-3540.77	10288.53	7119.05	-740.60	-3539.61	-119.20	249.83	271.30	0.92	FAIL	
10256.00†	6996.58	-523.30	-3640.77	10388.53	7118.61	-741.38	-3639.60	-119.23	249.91	279.16	0.89	FAIL	
10356.00†	6995.97	-524.08	-3740.76	10488.53	7118.18	-742.16	-3739.60	-119.27	249.99	287.02	0.87	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32N-16C-M PWB Offset Wellpath: HARVESTERS STATE 32N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#12 HARVESTERS STATE 32N-16C-M (1813°FNL & 2335°FEL, SEC.15) Well: HARVESTERS STATE 32N-16C-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
10456.00†	6995.36	-524.86	-3840.76	10588.53	7117.74	-742.93	-3839.59	-119.30	250.07	294.89	0.85	FAIL	
10556.00†	6994.75	-525.64	-3940.75	10688.53	7117.31	-743.71	-3939.59	-119.34	250.15	302.76	0.83	FAIL	
10656.00†	6994.14	-526.43	-4040.75	10788.53	7116.88	-744.49	-4039.59	-119.37	250.23	310.63	0.81	FAIL	
10756.00†	6993.53	-527.21	-4140.74	10888.53	7116.44	-745.27	-4139.58	-119.41	250.32	318.50	0.79	FAIL	
10856.00†	6992.92	-527.99	-4240.74	10988.53	7116.01	-746.04	-4239.58	-119.45	250.40	326.38	0.77	FAIL	
10956.00†	6992.31	-528.77	-4340.73	11088.53	7115.58	-746.82	-4339.57	-119.48	250.48	334.26	0.75	FAIL	
11056.00†	6991.70	-529.56	-4440.73	11188.53	7115.14	-747.60	-4439.57	-119.52	250.56	342.15	0.73	FAIL	
11156.00†	6991.09	-530.34	-4540.72	11288.53	7114.71	-748.37	-4539.57	-119.55	250.65	350.03	0.72	FAIL	
11256.00†	6990.47	-531.12	-4640.72	11388.53	7114.27	-749.15	-4639.56	-119.59	250.73	357.91	0.70	FAIL	
11356.00†	6989.86	-531.90	-4740.71	11488.53	7113.84	-749.93	-4739.56	-119.62	250.81	365.79	0.69	FAIL	
11456.00†	6989.25	-532.68	-4840.71	11588.53	7113.41	-750.71	-4839.55	-119.66	250.90	373.68	0.67	FAIL	
11556.00†	6988.64	-533.47	-4940.70	11688.53	7112.97	-751.48	-4939.55	-119.69	250.98	381.56	0.66	FAIL	
11656.00†	6988.03	-534.25	-5040.70	11788.53	7112.54	-752.26	-5039.54	-119.73	251.06	389.44	0.64	FAIL	
11756.00†	6987.42	-535.03	-5140.69	11888.53	7112.10	-753.04	-5139.54	-119.77	251.14	397.32	0.63	FAIL	
11856.00†	6986.81	-535.81	-5240.69	11988.53	7111.67	-753.82	-5239.54	-119.80	251.23	405.20	0.62	FAIL	
11956.00†	6986.20	-536.60	-5340.68	12088.53	7111.24	-754.59	-5339.53	-119.84	251.31	413.07	0.61	FAIL	
12056.00†	6985.59	-537.38	-5440.68	12188.53	7110.80	-755.37	-5439.53	-119.87	251.39	420.95	0.60	FAIL	
12156.00†	6984.98	-538.16	-5540.67	12288.53	7110.37	-756.15	-5539.52	-119.91	251.48	428.82	0.59	FAIL	
12256.00†	6984.37	-538.94	-5640.67	12388.53	7109.93	-756.93	-5639.52	-119.94	251.56	436.69	0.58	FAIL	
12356.00†	6983.76	-539.73	-5740.66	12488.53	7109.50	-757.70	-5739.52	-119.98	251.65	444.56	0.57	FAIL	
12456.00†	6983.15	-540.51	-5840.66	12588.53	7109.07	-758.48	-5839.51	-120.01	251.73	452.42	0.56	FAIL	
12556.00†	6982.54	-541.29	-5940.66	12688.53	7108.63	-759.26	-5939.51	-120.05	251.81	460.28	0.55	FAIL	
12656.00†	6981.93	-542.07	-6040.65	12788.53	7108.20	-760.03	-6039.50	-120.08	251.90	468.14	0.54	FAIL	
12756.00†	6981.32	-542.85	-6140.65	12888.53	7107.76	-760.81	-6139.50	-120.12	251.98	476.00	0.53	FAIL	
12856.00†	6980.71	-543.64	-6240.64	12988.53	7107.33	-761.59	-6239.50	-120.15	252.07	483.85	0.52	FAIL	
12956.00†	6980.10	-544.42	-6340.64	13088.53	7106.90	-762.37	-6339.49	-120.19	252.15	491.70	0.51	FAIL	
13056.00†	6979.49	-545.20	-6440.63	13188.53	7106.46	-763.14	-6439.49	-120.23	252.23	499.55	0.50	FAIL	
13156.00†	6978.88	-545.98	-6540.63	13288.53	7106.03	-763.92	-6539.48	-120.26	252.32	507.39	0.50	FAIL	
13256.00†	6978.27	-546.77	-6640.62	13388.53	7105.59	-764.70	-6639.48	-120.30	252.40	515.23	0.49	FAIL	
13356.00†	6977.66	-547.55	-6740.62	13488.53	7105.16	-765.48	-6739.47	-120.33	252.49	523.07	0.48	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32N-16C-M PWB Offset Wellpath: HARVESTERS STATE 32N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#12 HARVESTERS STATE 32N-16C-M (1813'FNL & 2335'FEL, SEC.15) Well: HARVESTERS STATE 32N-16C-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
13456.00†	6977.05	-548.33	-6840.61	13588.53	7104.73	-766.25	-6839.47	-120.37	252.57	530.90	0.48	FAIL	
13556.00†	6976.44	-549.11	-6940.61	13688.52	7104.29	-767.03	-6939.47	-120.40	252.66	538.73	0.47	FAIL	
13656.00†	6975.83	-549.89	-7040.60	13788.52	7103.86	-767.81	-7039.46	-120.44	252.74	546.56	0.46	FAIL	
13756.00†	6975.22	-550.68	-7140.60	13888.52	7103.42	-768.58	-7139.46	-120.47	252.83	554.38	0.46	FAIL	
13856.00†	6974.61	-551.46	-7240.59	13988.52	7102.99	-769.36	-7239.45	-120.51	252.91	562.20	0.45	FAIL	
13956.00†	6974.00	-552.24	-7340.59	14088.52	7102.56	-770.14	-7339.45	-120.54	253.00	570.01	0.44	FAIL	
14056.00†	6973.39	-553.02	-7440.58	14188.52	7102.12	-770.92	-7439.45	-120.58	253.08	577.82	0.44	FAIL	
14156.00†	6972.78	-553.81	-7540.58	14288.52	7101.69	-771.69	-7539.44	-120.61	253.17	585.62	0.43	FAIL	
14256.00†	6972.17	-554.59	-7640.57	14388.52	7101.25	-772.47	-7639.44	-120.65	253.25	593.42	0.43	FAIL	
14356.00†	6971.56	-555.37	-7740.57	14488.52	7100.82	-773.25	-7739.43	-120.68	253.34	601.22	0.42	FAIL	
14456.00†	6970.95	-556.15	-7840.56	14588.52	7100.39	-774.03	-7839.43	-120.72	253.43	609.01	0.42	FAIL	
14556.00†	6970.34	-556.94	-7940.56	14688.52	7099.95	-774.80	-7939.43	-120.75	253.51	616.80	0.41	FAIL	
14656.00†	6969.73	-557.72	-8040.55	14788.52	7099.52	-775.58	-8039.42	-120.79	253.60	624.59	0.41	FAIL	
14756.00†	6969.12	-558.50	-8140.55	14888.52	7099.08	-776.36	-8139.42	-120.82	253.68	632.37	0.40	FAIL	
14774.85	6969.00	-558.65	-8159.39	14907.37	7099.00	-776.50	-8158.26	-120.83	253.70	633.83	0.40	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 32N-16C-M PWB Offset Wellpath: HARVESTERS STATE 32N-16C-M 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: HARVESTERS STATE 32N-16C-M PWB Offset Wellpath: HARVESTERS STATE 32N-16C-M 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	4.00	1750.00	1746.00	4.00	1742.60	-12.03	0.00	-55.49	-10.09
9.625in Casing Surface	4.00	1750.00	1746.00	4.00	1742.60	-12.03	0.00	-55.49	-10.09
8.5in Open Hole	1750.00	14908.01	13158.01	1742.60	7099.00	-55.49	-10.09	-242.69	-2486.83





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HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 32N-16C-M PWB    Offset Wellpath: HARVESTERS STATE 32N-16C-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 32N-16C-M PWB
1750.00	14908.01	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 32N-16C-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 32N-16C-M PWB    Offset Wellpath: HARVESTERS STATE 32N-16C-M PWP (REV-A.0)	
MD Reference: PROPOETRO 12 (4") (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: STATE HOPPE 16-3 AWB Offset Wellpath: STATE HOPPE 16-3 AWP

Facility: SEC.16-T06N-R66W Slot: SLOT#04 EX. STATE HOPPE 16-3 (2157°FNL & 664°FNL, NB-CD/PR/7330°TD) Well: STATE HOPPE 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
1756.00	1752.35	-99.25	-35.49	1680.06	1703.00	-419.70	-7666.09	67.64	7637.48	52.60	147.90	PASS
1783.09	1779.36	-101.16	-36.14	1708.34	1731.28	-419.72	-7666.27	70.09	7636.93	52.39	147.74	PASS
1856.00†	1852.04	-106.64	-37.87	1779.78	1802.72	-419.79	-7666.72	70.13	7635.43	52.46	147.52	PASS
1956.00†	1951.73	-114.15	-40.25	1881.88	1904.82	-419.98	-7667.36	70.19	7633.39	52.57	147.18	PASS
2056.00†	2051.42	-121.67	-42.62	1974.71	1997.64	-420.20	-7667.95	70.24	7631.36	52.68	146.81	PASS
2156.00†	2151.11	-129.18	-45.00	2110.24	2133.18	-420.29	-7668.65	70.31	7629.22	52.86	146.28	PASS
2256.00†	2250.80	-136.70	-47.38	2215.90	2238.83	-420.60	-7668.86	70.37	7626.78	53.00	145.84	PASS
2356.00†	2350.49	-144.21	-49.75	2329.84	2352.77	-421.30	-7668.86	70.43	7624.15	53.13	145.42	PASS
2456.00†	2450.18	-151.73	-52.13	2425.84	2448.76	-421.81	-7668.85	70.48	7621.51	53.26	145.01	PASS
2556.00†	2549.87	-159.25	-54.51	2538.23	2561.16	-422.25	-7668.81	70.54	7618.85	53.40	144.57	PASS
2656.00†	2649.55	-166.76	-56.88	2667.24	2690.17	-422.52	-7668.33	70.61	7615.85	53.54	144.15	PASS
2756.00†	2749.24	-174.28	-59.26	2768.79	2791.72	-422.38	-7667.75	70.67	7612.65	53.66	143.75	PASS
2856.00†	2848.93	-181.79	-61.63	2836.39	2859.31	-422.08	-7667.46	70.71	7609.63	53.81	143.30	PASS
2956.00†	2948.62	-189.31	-64.01	2890.74	2913.66	-421.65	-7667.56	70.74	7607.18	53.96	142.83	PASS
3056.00†	3048.31	-196.82	-66.39	2949.68	2972.59	-421.03	-7668.02	70.78	7605.31	54.16	142.28	PASS
3156.00†	3148.00	-204.34	-68.76	3014.33	3037.23	-420.26	-7668.86	70.82	7603.97	54.37	141.70	PASS
3256.00†	3247.69	-211.85	-71.14	3102.53	3125.42	-419.05	-7670.23	70.88	7602.90	54.62	141.02	PASS
3356.00†	3347.38	-219.37	-73.52	3158.55	3181.42	-418.17	-7671.32	70.92	7602.22	54.84	140.43	PASS
3456.00†	3447.07	-226.88	-75.89	3219.20	3242.04	-417.13	-7672.85	70.96	7602.10	55.07	139.82	PASS
3556.00†	3546.75	-234.40	-78.27	3293.09	3315.89	-415.74	-7675.00	71.01	7602.40	55.34	139.14	PASS
3656.00†	3646.44	-241.91	-80.65	3392.60	3415.32	-413.51	-7678.09	71.08	7602.90	55.66	138.35	PASS
3756.00†	3746.13	-249.43	-83.02	3523.23	3545.85	-409.94	-7681.88	71.18	7603.19	56.02	137.44	PASS
3856.00†	3845.82	-256.94	-85.40	3639.55	3662.09	-406.90	-7684.84	71.27	7603.14	56.38	136.55	PASS
3956.00†	3945.51	-264.46	-87.77	3741.66	3764.15	-404.63	-7687.34	71.35	7603.02	56.73	135.70	PASS
4056.00†	4045.20	-271.98	-90.15	3845.06	3867.50	-402.58	-7689.82	71.42	7602.86	57.10	134.81	PASS
4156.00†	4144.89	-279.49	-92.53	3948.60	3971.00	-400.79	-7692.25	71.49	7602.68	57.48	133.90	PASS
4256.00†	4244.58	-287.01	-94.90	4062.97	4085.33	-399.20	-7694.80	71.57	7602.40	57.90	132.82	PASS
4356.00†	4344.27	-294.52	-97.28	4164.64	4186.96	-397.66	-7696.90	71.64	7601.95	58.30	131.98	PASS
4456.00†	4443.95	-302.04	-99.66	4267.41	4289.69	-396.43	-7699.05	71.71	7601.54	58.72	131.01	PASS
4556.00†	4543.64	-309.55	-102.03	4374.06	4396.33	-395.45	-7701.17	71.78	7601.05	59.17	130.01	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: STATE HOPPE 16-3 AWB Offset Wellpath: STATE HOPPE 16-3 AWP

Facility: SEC.16-T06N-R66W Slot: SLOT#04 EX. STATE HOPPE 16-3 (2157°FNL & 664°FNL, NB-CD/PR/7330°TD) Well: STATE HOPPE 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
4656.00†	4643.33	-317.07	-104.41	4488.16	4510.40	-394.82	-7703.29	71.84	7600.45	59.64	128.96	PASS
4756.00†	4743.02	-324.58	-106.79	4631.32	4653.55	-394.30	-7705.32	71.93	7599.38	60.19	127.75	PASS
4856.00†	4842.71	-332.10	-109.16	4728.25	4750.47	-393.99	-7706.48	71.99	7598.13	60.65	126.74	PASS
4956.00†	4942.40	-339.61	-111.54	4826.86	4849.07	-393.69	-7707.71	72.04	7596.94	61.13	125.71	PASS
5056.00†	5042.09	-347.13	-113.92	4935.48	4957.68	-393.30	-7708.96	72.11	7595.65	61.64	124.64	PASS
5156.00†	5141.78	-354.64	-116.29	5039.26	5061.46	-392.85	-7710.11	72.17	7594.34	62.15	123.59	PASS
5256.00†	5241.47	-362.16	-118.67	5144.09	5166.28	-392.37	-7711.16	72.23	7592.92	62.67	122.53	PASS
5356.00†	5341.15	-369.68	-121.04	5244.65	5266.83	-392.03	-7712.16	72.29	7591.52	63.19	121.49	PASS
5456.00†	5440.84	-377.19	-123.42	5407.74	5429.92	-391.33	-7713.25	72.39	7589.85	63.81	120.26	PASS
5556.00†	5540.53	-384.71	-125.80	5516.08	5538.26	-390.54	-7713.29	72.46	7587.50	64.28	119.34	PASS
5656.00†	5640.22	-392.22	-128.17	5588.34	5610.51	-390.18	-7713.43	72.50	7585.33	64.73	118.47	PASS
5756.00†	5739.91	-399.74	-130.55	5687.59	5709.77	-389.89	-7713.87	72.56	7583.38	65.26	117.46	PASS
5856.00†	5839.60	-407.25	-132.93	5777.79	5799.96	-389.57	-7714.27	72.61	7581.47	65.79	116.49	PASS
5956.00†	5939.29	-414.77	-135.30	5873.53	5895.70	-389.16	-7714.81	72.67	7579.67	66.33	115.49	PASS
6056.00†	6038.98	-422.28	-137.68	5955.80	5977.96	-388.82	-7715.35	72.72	7577.99	66.86	114.55	PASS
6156.00†	6138.67	-429.80	-140.06	6050.65	6072.81	-388.60	-7716.21	72.78	7576.55	67.43	113.54	PASS
6256.00†	6238.35	-437.31	-142.43	6140.75	6162.91	-388.48	-7716.97	72.83	7575.07	68.00	112.56	PASS
6356.00†	6338.04	-444.83	-144.81	6214.29	6236.44	-388.42	-7717.85	72.87	7573.93	68.54	111.65	PASS
6412.80	6394.66	-449.10	-146.16	6271.05	6293.20	-388.45	-7718.61	72.90	7573.38	68.89	111.07	PASS
6456.00†	6437.66	-452.35	-148.65	6314.09	6336.23	-388.53	-7719.19	40.12	7571.49	69.16	110.60	PASS
6556.00†	6535.83	-459.87	-165.57	6416.42	6438.55	-388.75	-7720.56	17.93	7555.96	70.09	108.89	PASS
6656.00†	6630.14	-467.23	-197.68	6536.67	6558.79	-389.26	-7721.88	11.88	7524.94	71.58	106.17	PASS
6756.00†	6718.27	-474.24	-244.19	6628.06	6650.18	-389.73	-7722.70	9.28	7479.31	72.80	103.74	PASS
6856.00†	6798.05	-480.73	-303.96	6700.25	6722.36	-390.42	-7723.41	7.98	7420.39	73.81	101.50	PASS
6956.00†	6867.52	-486.55	-375.51	6754.87	6776.98	-391.12	-7724.03	7.37	7349.70	74.61	99.44	PASS
7056.00†	6924.96	-491.55	-457.09	6800.55	6822.65	-391.76	-7724.65	7.28	7268.96	75.22	97.54	PASS
7156.00†	6968.96	-495.60	-546.68	6841.41	6863.50	-392.31	-7725.24	7.82	7180.08	75.67	95.78	PASS
7256.00†	6998.45	-498.60	-642.08	6869.33	6891.41	-392.66	-7725.66	9.73	7085.18	75.94	94.17	PASS
7356.00†	7012.68	-500.49	-740.94	6883.57	6905.65	-392.82	-7725.88	19.68	6986.59	76.07	92.70	PASS
7401.17	7014.00	-500.97	-786.08	6885.40	6907.49	-392.84	-7725.91	68.44	6941.49	76.09	92.07	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: STATE HOPPE 16-3 AWB Offset Wellpath: STATE HOPPE 16-3 AWP

Facility: SEC.16-T06N-R66W Slot: SLOT#04 EX. STATE HOPPE 16-3 (2157°FNL & 664°FNL, NB-CD/PR/7330°TD) Well: STATE HOPPE 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	
7456.00†	7013.67	-501.39	-840.91	6885.88	6907.96	-392.85	-7725.92	68.58	6886.68	76.11	91.33	PASS	
7556.00†	7013.06	-502.18	-940.90	6886.74	6908.82	-392.86	-7725.93	68.85	6786.71	76.13	89.97	PASS	
7656.00†	7012.44	-502.96	-1040.90	6887.60	6909.68	-392.87	-7725.94	69.11	6686.74	76.16	88.62	PASS	
7756.00†	7011.83	-503.74	-1140.89	6888.47	6910.55	-392.88	-7725.96	69.38	6586.78	76.18	87.26	PASS	
7856.00†	7011.22	-504.52	-1240.89	6889.34	6911.42	-392.89	-7725.97	69.65	6486.81	76.21	85.90	PASS	
7956.00†	7010.61	-505.31	-1340.88	6890.21	6912.29	-392.90	-7725.98	69.92	6386.85	76.25	84.54	PASS	
8056.00†	7010.00	-506.09	-1440.88	6891.08	6913.16	-392.91	-7726.00	70.19	6286.89	76.28	83.18	PASS	
8156.00†	7009.39	-506.87	-1540.87	6891.96	6914.04	-392.92	-7726.01	70.46	6186.92	76.32	81.82	PASS	
8256.00†	7008.78	-507.65	-1640.87	6892.83	6914.91	-392.92	-7726.02	70.73	6086.96	76.35	80.46	PASS	
8356.00†	7008.17	-508.43	-1740.86	6893.71	6915.79	-392.93	-7726.04	71.01	5987.00	76.39	79.09	PASS	
8456.00†	7007.56	-509.22	-1840.86	6894.60	6916.68	-392.94	-7726.05	71.29	5887.05	76.44	77.73	PASS	
8556.00†	7006.95	-510.00	-1940.85	6895.48	6917.56	-392.95	-7726.07	71.57	5787.09	76.48	76.36	PASS	
8656.00†	7006.34	-510.78	-2040.85	6896.37	6918.45	-392.96	-7726.08	71.85	5687.13	76.53	75.00	PASS	
8756.00†	7005.73	-511.56	-2140.84	6897.26	6919.34	-392.97	-7726.09	72.13	5587.18	76.58	73.63	PASS	
8856.00†	7005.12	-512.35	-2240.84	6898.15	6920.23	-392.98	-7726.11	72.42	5487.23	76.63	72.26	PASS	
8956.00†	7004.51	-513.13	-2340.83	6899.04	6921.12	-392.99	-7726.12	72.70	5387.28	76.69	70.89	PASS	
9056.00†	7003.90	-513.91	-2440.83	6899.94	6922.02	-393.00	-7726.14	72.99	5287.33	76.75	69.52	PASS	
9156.00†	7003.29	-514.69	-2540.82	6900.83	6922.91	-393.01	-7726.15	73.23	5187.38	76.81	68.15	PASS	
9256.00†	7002.68	-515.47	-2640.82	6901.72	6923.80	-393.02	-7726.16	73.46	5087.43	76.88	66.78	PASS	
9356.00†	7002.07	-516.26	-2740.81	6902.61	6924.69	-393.03	-7726.17	73.70	4987.49	76.95	65.41	PASS	
9456.00†	7001.46	-517.04	-2840.81	6903.50	6925.58	-393.04	-7726.18	73.94	4887.55	77.02	64.04	PASS	
9556.00†	7000.85	-517.82	-2940.80	6904.39	6926.47	-393.05	-7726.19	74.18	4787.61	77.09	62.67	PASS	
9656.00†	7000.24	-518.60	-3040.80	6905.28	6927.36	-393.06	-7726.21	74.43	4687.67	77.17	61.30	PASS	
9756.00†	6999.63	-519.39	-3140.79	6906.17	6928.25	-393.07	-7726.22	74.68	4587.74	77.26	59.92	PASS	
9856.00†	6999.02	-520.17	-3240.79	6907.06	6929.14	-393.08	-7726.23	74.93	4487.81	77.35	58.55	PASS	
9956.00†	6998.41	-520.95	-3340.78	6907.95	6930.03	-393.09	-7726.24	75.19	4387.88	77.44	57.17	PASS	
10056.00†	6997.80	-521.73	-3440.78	6908.84	6930.92	-393.10	-7726.26	75.45	4287.95	77.54	55.80	PASS	
10156.00†	6997.19	-522.52	-3540.77	6909.73	6931.81	-393.11	-7726.27	75.71	4188.03	77.65	54.43	PASS	
10256.00†	6996.58	-523.30	-3640.77	6910.62	6932.70	-393.12	-7726.28	75.98	4088.11	77.76	53.05	PASS	
10356.00†	6995.97	-524.08	-3740.76	6911.51	6933.59	-393.13	-7726.30	76.25	3988.20	77.87	51.67	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: STATE HOPPE 16-3 AWB Offset Wellpath: STATE HOPPE 16-3 AWP

Facility: SEC.16-T06N-R66W Slot: SLOT#04 EX. STATE HOPPE 16-3 (2157°FNL & 664°FNL, NB-CD/PR/7330°TD) Well: STATE HOPPE 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
10456.00†	6995.36	-524.86	-3840.76	6910.71	6932.79	-393.12	-7726.31	76.52	3888.29	78.00	50.30	PASS
10556.00†	6994.75	-525.64	-3940.75	6911.54	6933.62	-393.12	-7726.32	76.80	3788.38	78.13	48.92	PASS
10656.00†	6994.14	-526.43	-4040.75	6912.38	6934.45	-393.13	-7726.34	77.08	3688.48	78.27	47.54	PASS
10756.00†	6993.53	-527.21	-4140.74	6913.22	6935.30	-393.14	-7726.35	77.36	3588.59	78.43	46.17	PASS
10856.00†	6992.92	-527.99	-4240.74	6914.08	6936.16	-393.15	-7726.37	77.65	3488.70	78.59	44.79	PASS
10956.00†	6992.31	-528.77	-4340.73	6914.95	6937.02	-393.16	-7726.38	77.94	3388.81	78.76	43.41	PASS
11056.00†	6991.70	-529.56	-4440.73	6915.82	6937.90	-393.17	-7726.39	78.24	3288.94	78.95	42.03	PASS
11156.00†	6991.09	-530.34	-4540.72	6916.71	6938.78	-393.18	-7726.41	78.54	3189.07	79.15	40.65	PASS
11256.00†	6990.47	-531.12	-4640.72	6917.60	6939.68	-393.19	-7726.42	78.84	3089.20	79.37	39.26	PASS
11356.00†	6989.86	-531.90	-4740.71	6918.50	6940.58	-393.19	-7726.44	79.15	2989.35	79.60	37.88	PASS
11456.00†	6989.25	-532.68	-4840.71	6919.42	6941.49	-393.20	-7726.46	79.46	2889.51	79.86	36.50	PASS
11556.00†	6988.64	-533.47	-4940.70	6920.34	6942.42	-393.21	-7726.47	79.77	2789.68	80.14	35.11	PASS
11656.00†	6988.03	-534.25	-5040.70	6921.28	6943.35	-393.22	-7726.49	80.09	2689.86	80.45	33.72	PASS
11756.00†	6987.42	-535.03	-5140.69	6922.22	6944.30	-393.23	-7726.50	80.42	2590.05	80.78	32.34	PASS
11856.00†	6986.81	-535.81	-5240.69	6923.18	6945.25	-393.24	-7726.52	80.75	2490.26	81.16	30.95	PASS
11956.00†	6986.20	-536.60	-5340.68	6924.15	6946.22	-393.25	-7726.54	81.08	2390.49	81.57	29.55	PASS
12056.00†	6985.59	-537.38	-5440.68	6925.13	6947.20	-393.26	-7726.55	81.42	2290.73	82.04	28.16	PASS
12156.00†	6984.98	-538.16	-5540.67	6926.11	6948.19	-393.27	-7726.57	81.76	2191.00	82.56	26.76	PASS
12256.00†	6984.37	-538.94	-5640.67	6927.12	6949.19	-393.28	-7726.59	82.11	2091.29	83.14	25.36	PASS
12356.00†	6983.76	-539.73	-5740.66	6928.13	6950.20	-393.29	-7726.61	82.46	1991.62	83.81	23.96	PASS
12456.00†	6983.15	-540.51	-5840.66	6929.15	6951.23	-393.30	-7726.62	82.81	1891.97	84.57	22.55	PASS
12556.00†	6982.54	-541.29	-5940.66	6930.19	6952.26	-393.31	-7726.64	83.17	1792.36	85.44	21.14	PASS
12656.00†	6981.93	-542.07	-6040.65	6931.24	6953.31	-393.32	-7726.66	83.54	1692.80	86.46	19.73	PASS
12756.00†	6981.32	-542.85	-6140.65	6932.30	6954.37	-393.33	-7726.68	83.91	1593.30	87.64	18.32	PASS
12856.00†	6980.71	-543.64	-6240.64	6933.38	6955.45	-393.34	-7726.70	84.29	1493.85	89.03	16.90	PASS
12956.00†	6980.10	-544.42	-6340.64	6934.46	6956.54	-393.35	-7726.72	84.67	1394.49	90.69	15.49	PASS
13056.00†	6979.49	-545.20	-6440.63	6935.57	6957.64	-393.36	-7726.74	85.05	1295.23	92.69	14.07	PASS
13156.00†	6978.88	-545.98	-6540.63	6936.68	6958.75	-393.37	-7726.76	85.45	1196.08	95.11	12.66	PASS
13256.00†	6978.27	-546.77	-6640.62	6937.81	6959.88	-393.38	-7726.78	85.84	1097.09	98.09	11.26	PASS
13356.00†	6977.66	-547.55	-6740.62	6938.95	6961.02	-393.39	-7726.80	86.24	998.30	101.81	9.87	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: STATE HOPPE 16-3 AWB Offset Wellpath: STATE HOPPE 16-3 AWP

Facility: SEC.16-T06N-R66W Slot: SLOT#04 EX. STATE HOPPE 16-3 (2157°FNL & 664°FWL, NB-CD/PR/7330°TD) Well: STATE HOPPE 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
13456.00†	6977.05	-548.33	-6840.61	6940.11	6962.18	-393.41	-7726.82	86.65	899.77	106.54	8.50	PASS
13556.00†	6976.44	-549.11	-6940.61	6941.28	6963.35	-393.42	-7726.84	87.07	801.61	112.66	7.15	PASS
13656.00†	6975.83	-549.89	-7040.60	6942.47	6964.54	-393.43	-7726.87	87.48	703.97	120.73	5.86	PASS
13756.00†	6975.22	-550.68	-7140.60	6943.67	6965.74	-393.44	-7726.89	87.91	607.08	131.75	4.63	PASS
13856.00†	6974.61	-551.46	-7240.59	6944.88	6966.95	-393.45	-7726.91	88.34	511.40	147.23	3.49	PASS
13956.00†	6974.00	-552.24	-7340.59	6946.12	6968.19	-393.46	-7726.93	88.78	417.74	169.90	2.46	PASS
14056.00†	6973.39	-553.02	-7440.58	6947.36	6969.43	-393.47	-7726.96	89.22	327.85	204.69	1.60	PASS
14156.00†	6972.78	-553.81	-7540.58	6948.63	6970.70	-393.48	-7726.98	89.66	245.87	259.61	0.95	FAIL
14256.00†	6972.17	-554.59	-7640.57	6949.91	6971.98	-393.50	-7727.01	90.12	182.82	336.53	0.54	FAIL
14341.33†	6971.65	-555.26	-7725.90	6950.78	6972.85	-393.50	-7727.02	90.43	161.76	377.34	0.43	FAIL
14356.00†	6971.56	-555.37	-7740.57	6951.21	6973.28	-393.51	-7727.03	90.58	162.44	376.00	0.43	FAIL
14456.00†	6970.95	-556.15	-7840.56	6952.53	6974.59	-393.52	-7727.06	91.04	198.36	318.06	0.62	FAIL
14556.00†	6970.34	-556.94	-7940.56	6953.86	6975.93	-393.53	-7727.08	91.52	268.89	248.04	1.08	PASS
14656.00†	6969.73	-557.72	-8040.55	6955.21	6977.28	-393.54	-7727.11	92.00	353.92	200.95	1.76	PASS
14756.00†	6969.12	-558.50	-8140.55	6956.58	6978.65	-393.56	-7727.13	92.48	445.20	170.86	2.61	PASS
14774.85	6969.00	-558.65	-8159.39	6956.84	6978.91	-393.56	-7727.14	92.57	462.81	166.47	2.79	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: STATE HOPPE 16-3 AWB Offset Wellpath: STATE HOPPE 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: STATE HOPPE 16-3 AWB Offset Wellpath: STATE HOPPE 16-3 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7200.00	BHI Generic gyro - continuous (Standard)	VES GYRO SURVEYS PROVIDED BY SRC <100-7200>	STATE HOPPE 16-3 AWB
7200.00	7330.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMEED VERTICAL TO TD FROM COGCC <7330>	STATE HOPPE 16-3 AWB



**Clearance Report**  
**HARVESTERS STATE 32N-16A-M (REV-B.0) PWP**  
**Closest Approach**  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

OFFSET WELLPATH REFERENCE - Offset Wellbore: STATE HOPPE 16-3 AWB Offset Wellpath: STATE HOPPE 16-3 AWP	
MD Reference: Rig on SLOT#04 EX. STATE HOPPE 16-3 (2157'FNL & 664'FWL, NB-CD/PR/7330'TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: STATE BEATRICE 32-16 AWB Offset Wellpath: STATE BEATRICE 32-16 AWP

Facility: SEC.16-T06N-R66W		Slot: SLOT#02 EX. STATE BEATRICE 32-16 (1980°FNL & 1984°FEL, NB-CD/PR/7490°TD)					Well: STATE BEATRICE 32-16		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
1756.00†	1752.35	-99.25	-35.49	1643.32	1681.20	-348.27	-4924.29	67.10	4895.65	52.39	95.18	PASS
1783.09	1779.36	-101.16	-36.14	1668.90	1706.77	-348.59	-4924.65	69.55	4895.30	52.17	95.10	PASS
1856.00†	1852.04	-106.64	-37.87	1738.26	1776.12	-349.45	-4925.66	69.60	4894.40	52.21	95.01	PASS
1956.00†	1951.73	-114.15	-40.25	1836.98	1874.82	-350.79	-4927.15	69.67	4893.24	52.28	94.86	PASS
2056.00†	2051.42	-121.67	-42.62	1936.92	1974.73	-352.58	-4928.61	69.74	4892.04	52.37	94.69	PASS
2156.00†	2151.11	-129.18	-45.00	2039.98	2077.75	-354.88	-4930.15	69.80	4890.92	52.47	94.48	PASS
2256.00†	2250.80	-136.70	-47.38	2139.21	2176.94	-357.62	-4931.41	69.86	4889.58	52.58	94.25	PASS
2356.00†	2350.49	-144.21	-49.75	2224.15	2261.83	-359.97	-4932.78	69.90	4888.60	52.69	94.03	PASS
2456.00†	2450.18	-151.73	-52.13	2327.47	2365.10	-362.74	-4934.41	69.96	4887.58	52.83	93.75	PASS
2556.00†	2549.87	-159.25	-54.51	2408.34	2445.94	-364.46	-4935.92	70.01	4886.83	52.97	93.49	PASS
2656.00†	2649.55	-166.76	-56.88	2520.60	2558.16	-366.61	-4938.05	70.09	4886.12	53.16	93.15	PASS
2756.00†	2749.24	-174.28	-59.26	2618.51	2656.04	-368.43	-4939.82	70.19	4885.31	53.34	92.81	PASS
2856.00†	2848.93	-181.79	-61.63	2712.75	2750.24	-370.02	-4941.63	70.22	4884.63	53.53	92.46	PASS
2956.00†	2948.62	-189.31	-64.01	2835.10	2872.55	-372.27	-4943.75	70.30	4883.76	53.77	92.02	PASS
3056.00†	3048.31	-196.82	-66.39	2947.21	2984.64	-373.55	-4945.23	70.38	4882.46	54.02	91.58	PASS
3156.00†	3148.00	-204.34	-68.76	3044.19	3081.62	-374.05	-4946.51	70.46	4881.15	54.26	91.13	PASS
3256.00†	3247.69	-211.85	-71.14	3139.99	3177.41	-374.17	-4947.84	70.54	4879.90	54.52	90.67	PASS
3356.00†	3347.38	-219.37	-73.52	3235.48	3272.88	-374.46	-4949.26	70.62	4878.78	54.80	90.19	PASS
3456.00†	3447.07	-226.88	-75.89	3342.00	3379.40	-374.72	-4950.85	70.71	4877.66	55.10	89.67	PASS
3556.00†	3546.75	-234.40	-78.27	3441.52	3478.90	-375.76	-4952.11	70.79	4876.36	55.40	89.15	PASS
3656.00†	3646.44	-241.91	-80.65	3520.91	3558.27	-377.08	-4953.32	70.84	4875.35	55.68	88.68	PASS
3756.00†	3746.13	-249.43	-83.02	3593.88	3631.22	-378.45	-4954.80	70.89	4874.85	55.96	88.22	PASS
3856.00†	3845.82	-256.94	-85.40	3673.26	3710.56	-379.88	-4956.81	70.94	4874.84	56.27	87.73	PASS
3956.00†	3945.51	-264.46	-87.77	3756.02	3793.27	-381.23	-4959.23	71.00	4875.23	56.59	87.23	PASS
4056.00†	4045.20	-271.98	-90.15	3859.13	3896.31	-383.07	-4962.47	71.07	4875.86	56.96	86.67	PASS
4156.00†	4144.89	-279.49	-92.53	3968.34	4005.45	-385.53	-4965.60	71.14	4876.22	57.35	86.08	PASS
4256.00†	4244.58	-287.01	-94.90	4055.04	4092.08	-387.97	-4968.09	71.19	4876.62	57.70	85.55	PASS
4356.00†	4344.27	-294.52	-97.28	4138.92	4175.87	-390.54	-4970.82	71.23	4877.39	58.07	85.02	PASS
4456.00†	4443.95	-302.04	-99.66	4226.76	4263.62	-393.19	-4973.90	71.28	4878.43	58.45	84.48	PASS
4556.00†	4543.64	-309.55	-102.03	4318.70	4355.47	-395.15	-4977.40	71.34	4879.74	58.85	83.92	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: STATE BEATRICE 32-16 AWB Offset Wellpath: STATE BEATRICE 32-16 AWP

Facility: SEC.16-T06N-R66W		Slot: SLOT#02 EX. STATE BEATRICE 32-16 (1980°FNL & 1984°FEL, NB-CD/PR/7490°TD)				Well: STATE BEATRICE 32-16				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		
4656.00†	4643.33	-317.07	-104.41	4446.41	4483.08	-397.80	-4981.86	71.42	4880.75	59.33	83.24	PASS		
4756.00†	4743.02	-324.58	-106.79	4552.17	4588.76	-399.83	-4985.19	71.49	4881.42	59.79	82.61	PASS		
4856.00†	4842.71	-332.10	-109.16	4648.06	4684.60	-401.03	-4988.24	71.56	4882.12	60.24	82.00	PASS		
4956.00†	4942.40	-339.61	-111.54	4745.38	4781.86	-402.41	-4991.40	71.63	4882.91	60.69	81.39	PASS		
5056.00†	5042.09	-347.13	-113.92	4854.62	4891.02	-404.77	-4994.91	71.70	4883.67	61.18	80.74	PASS		
5156.00†	5141.78	-354.64	-116.29	4964.69	5001.00	-407.64	-4998.13	71.76	4884.15	61.68	80.10	PASS		
5256.00†	5241.47	-362.16	-118.67	5068.81	5105.04	-410.35	-5001.05	71.82	4884.53	62.17	79.47	PASS		
5356.00†	5341.15	-369.68	-121.04	5199.44	5235.60	-412.93	-5004.35	71.91	4884.63	62.72	78.75	PASS		
5456.00†	5440.84	-377.19	-123.42	5289.33	5325.47	-413.84	-5006.37	71.97	4884.45	63.21	78.13	PASS		
5556.00†	5540.53	-384.71	-125.80	5383.71	5419.82	-413.78	-5008.66	72.06	4884.44	63.73	77.50	PASS		
5656.00†	5640.22	-392.22	-128.17	5478.48	5514.56	-413.24	-5011.05	72.15	4884.54	64.25	76.86	PASS		
5756.00†	5739.91	-399.74	-130.55	5547.29	5583.34	-412.67	-5012.98	72.22	4884.95	64.72	76.31	PASS		
5856.00†	5839.60	-407.25	-132.93	5617.58	5653.58	-412.19	-5015.52	72.28	4886.14	65.19	75.76	PASS		
5956.00†	5939.29	-414.77	-135.30	5745.80	5781.72	-412.47	-5020.04	72.39	4887.28	65.83	75.04	PASS		
6056.00†	6038.98	-422.28	-137.68	5890.36	5926.22	-411.83	-5024.09	72.53	4887.73	66.51	74.27	PASS		
6156.00†	6138.67	-429.80	-140.06	6009.22	6045.04	-410.00	-5026.59	72.65	4887.47	67.11	73.59	PASS		
6256.00†	6238.35	-437.31	-142.43	6123.34	6159.10	-407.03	-5028.41	72.79	4886.71	67.68	72.96	PASS		
6356.00†	6338.04	-444.83	-144.81	6186.96	6222.69	-405.14	-5029.66	72.87	4886.37	68.15	72.44	PASS		
6412.80	6394.66	-449.10	-146.16	6221.00	6256.69	-404.12	-5030.53	72.91	4886.52	68.42	72.16	PASS		
6456.00†	6437.66	-452.35	-148.63	6245.97	6281.65	-403.39	-5031.27	40.13	4885.36	68.63	71.91	PASS		
6556.00†	6535.83	-459.87	-165.57	6304.46	6340.08	-401.73	-5033.37	17.95	4872.09	69.42	70.89	PASS		
6656.00†	6630.14	-467.23	-197.68	6380.07	6415.59	-399.59	-5036.54	11.92	4844.09	70.79	69.11	PASS		
6756.00†	6718.27	-474.24	-244.19	6496.66	6532.01	-395.70	-5041.44	9.45	4801.51	72.08	67.27	PASS		
6856.00†	6798.05	-480.73	-303.96	6633.83	6668.96	-389.24	-5045.73	8.39	4744.42	73.21	65.43	PASS		
6956.00†	6867.52	-486.55	-375.51	6713.35	6748.33	-384.69	-5047.70	8.02	4674.82	74.04	63.74	PASS		
7056.00†	6924.98	-491.55	-457.09	6763.43	6798.28	-381.43	-5048.95	8.21	4594.93	74.65	62.13	PASS		
7156.00†	6968.96	-495.60	-546.68	6802.69	6837.42	-378.63	-5049.99	9.20	4506.75	75.09	60.58	PASS		
7256.00†	6998.45	-498.60	-642.08	6831.93	6866.57	-376.39	-5050.80	12.02	4412.38	75.36	59.10	PASS		
7356.00†	7012.68	-500.49	-740.94	6847.39	6881.97	-375.16	-5051.22	24.00	4314.09	75.49	57.68	PASS		
7401.17	7014.00	-500.97	-786.08	6849.72	6884.30	-374.97	-5051.29	56.95	4269.04	75.52	57.05	PASS		

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: STATE BEATRICE 32-16 AWB Offset Wellpath: STATE BEATRICE 32-16 AWP

Facility: SEC.16-T06N-R66W Slot: SLOT#02 EX. STATE BEATRICE 32-16 (1980°FNL & 1984°FEL, NB-CD/PR/7490°TD) Well: STATE BEATRICE 32-16 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	
7456.00†	7013.67	-501.39	-840.91	6850.80	6885.37	-374.89	-5051.32	57.24	4214.27	75.54	56.31	PASS	
7556.00†	7013.06	-502.18	-940.90	6852.76	6887.32	-374.73	-5051.37	57.76	4114.37	75.57	54.95	PASS	
7656.00†	7012.44	-502.96	-1040.90	6854.72	6889.28	-374.57	-5051.43	58.29	4014.48	75.61	53.59	PASS	
7756.00†	7011.83	-503.74	-1140.89	6856.69	6891.24	-374.41	-5051.48	58.83	3914.59	75.65	52.23	PASS	
7856.00†	7011.22	-504.52	-1240.89	6858.67	6893.21	-374.25	-5051.54	59.38	3814.71	75.69	50.87	PASS	
7956.00†	7010.61	-505.31	-1340.88	6860.65	6895.18	-374.08	-5051.60	59.93	3714.83	75.73	49.50	PASS	
8056.00†	7010.00	-506.09	-1440.88	6862.63	6897.16	-373.92	-5051.65	60.49	3614.95	75.79	48.14	PASS	
8156.00†	7009.39	-506.87	-1540.87	6864.62	6899.14	-373.75	-5051.71	61.05	3515.09	75.84	46.78	PASS	
8256.00†	7008.78	-507.65	-1640.87	6866.62	6901.13	-373.59	-5051.76	61.62	3415.23	75.90	45.41	PASS	
8356.00†	7008.17	-508.43	-1740.86	6868.62	6903.13	-373.42	-5051.82	62.20	3315.37	75.97	44.04	PASS	
8456.00†	7007.56	-509.22	-1840.86	6870.63	6905.13	-373.25	-5051.88	62.78	3215.53	76.04	42.68	PASS	
8556.00†	7006.95	-510.00	-1940.85	6872.64	6907.13	-373.08	-5051.93	63.37	3115.69	76.12	41.31	PASS	
8656.00†	7006.34	-510.78	-2040.85	6874.66	6909.14	-372.91	-5051.99	63.97	3015.86	76.20	39.94	PASS	
8756.00†	7005.73	-511.56	-2140.84	6876.68	6911.16	-372.74	-5052.05	64.58	2916.05	76.30	38.57	PASS	
8856.00†	7005.12	-512.35	-2240.84	6878.71	6913.18	-372.57	-5052.10	65.19	2816.24	76.41	37.19	PASS	
8956.00†	7004.51	-513.13	-2340.83	6880.74	6915.20	-372.40	-5052.16	65.80	2716.45	76.52	35.82	PASS	
9056.00†	7003.90	-513.91	-2440.83	6882.78	6917.23	-372.22	-5052.22	66.43	2616.67	76.65	34.45	PASS	
9156.00†	7003.29	-514.69	-2540.82	6884.83	6919.27	-372.05	-5052.28	67.06	2516.91	76.80	33.07	PASS	
9256.00†	7002.68	-515.47	-2640.82	6886.88	6921.31	-371.87	-5052.34	67.69	2417.16	76.96	31.69	PASS	
9356.00†	7002.07	-516.26	-2740.81	6888.93	6923.36	-371.69	-5052.40	68.33	2317.44	77.14	30.31	PASS	
9456.00†	7001.46	-517.04	-2840.81	6891.00	6925.41	-371.51	-5052.45	68.98	2217.73	77.35	28.93	PASS	
9556.00†	7000.85	-517.82	-2940.80	6893.06	6927.47	-371.34	-5052.51	69.64	2118.06	77.58	27.54	PASS	
9656.00†	7000.24	-518.60	-3040.80	6895.13	6929.53	-371.15	-5052.57	70.30	2018.41	77.85	26.16	PASS	
9756.00†	6999.63	-519.39	-3140.79	6897.21	6931.60	-370.97	-5052.63	70.96	1918.80	78.16	24.76	PASS	
9856.00†	6999.02	-520.17	-3240.79	6899.30	6933.68	-370.79	-5052.69	71.64	1819.22	78.52	23.37	PASS	
9956.00†	6998.41	-520.95	-3340.78	6901.00	6935.38	-370.64	-5052.74	72.19	1719.70	78.95	21.97	PASS	
10056.00†	6997.80	-521.73	-3440.78	6902.56	6936.92	-370.50	-5052.79	72.70	1620.23	79.45	20.57	PASS	
10156.00†	6997.19	-522.52	-3540.77	6904.16	6938.52	-370.36	-5052.83	73.22	1520.83	80.05	19.16	PASS	
10256.00†	6996.58	-523.30	-3640.77	6905.82	6940.17	-370.21	-5052.88	73.77	1421.51	80.77	17.75	PASS	
10356.00†	6995.97	-524.08	-3740.76	6907.54	6941.88	-370.06	-5052.93	74.33	1322.29	81.65	16.33	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: STATE BEATRICE 32-16 AWB Offset Wellpath: STATE BEATRICE 32-16 AWP

Facility: SEC.16-T06N-R66W Slot: SLOT#02 EX. STATE BEATRICE 32-16 (1980°FNL & 1984°FEL, NB-CD/PR/7490°TD) Well: STATE BEATRICE 32-16 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		
10456.00†	6995.36	-524.86	-3840.76	6909.31	6943.65	-369.90	-5052.99	74.92	1223.19	82.75	14.90	PASS		
10556.00†	6994.75	-525.64	-3940.79	6911.15	6945.48	-369.73	-5053.08	75.53	1124.25	84.12	13.47	PASS		
10656.00†	6994.14	-526.43	-4040.75	6913.06	6947.37	-369.55	-5053.11	76.16	1025.51	85.87	12.03	PASS		
10756.00†	6993.53	-527.21	-4140.74	6915.03	6949.34	-369.37	-5053.17	76.82	927.03	88.14	10.60	PASS		
10856.00†	6992.92	-527.99	-4240.74	6917.08	6951.38	-369.18	-5053.24	77.51	828.91	91.14	9.16	PASS		
10956.00†	6992.31	-528.77	-4340.73	6919.20	6953.49	-368.98	-5053.31	78.22	731.30	95.21	7.73	PASS		
11056.00†	6991.70	-529.56	-4440.73	6921.41	6955.69	-368.77	-5053.38	78.97	634.42	100.88	6.33	PASS		
11156.00†	6991.09	-530.34	-4540.72	6923.70	6957.97	-368.56	-5053.46	79.74	538.67	109.01	4.97	PASS		
11256.00†	6990.47	-531.12	-4640.72	6926.09	6960.34	-368.33	-5053.54	80.55	444.78	121.11	3.69	PASS		
11356.00†	6989.86	-531.90	-4740.71	6928.57	6962.82	-368.09	-5053.63	81.40	354.23	139.88	2.54	PASS		
11456.00†	6989.25	-532.68	-4840.71	6931.16	6965.39	-367.84	-5053.72	82.28	270.40	169.88	1.59	PASS		
11556.00†	6988.64	-533.47	-4940.70	6933.86	6968.07	-367.57	-5053.82	83.20	201.84	214.91	0.94	FAIL		
11656.00†	6988.03	-534.25	-5040.70	6936.68	6970.88	-367.29	-5053.92	84.16	168.35	253.39	0.66	FAIL		
11668.01†	6987.96	-534.34	-5052.71	6937.07	6971.26	-367.26	-5053.93	84.29	167.92	254.82	0.66	FAIL		
11672.52†	6987.93	-534.38	-5057.22	6937.16	6971.35	-367.25	-5053.94	84.32	167.98	255.07	0.66	FAIL		
11756.00†	6987.42	-535.03	-5140.69	6939.63	6973.80	-367.00	-5054.03	85.17	189.55	234.25	0.81	FAIL		
11856.00†	6986.81	-535.81	-5240.69	6942.70	6976.87	-366.69	-5054.15	86.21	251.99	190.24	1.33	PASS		
11956.00†	6986.20	-536.60	-5340.68	6945.93	6980.07	-366.36	-5054.27	87.31	333.24	157.48	2.12	PASS		
12056.00†	6985.59	-537.38	-5440.68	6949.30	6983.42	-366.02	-5054.41	88.46	422.58	136.43	3.11	PASS		
12156.00†	6984.98	-538.16	-5540.67	6952.85	6986.95	-365.65	-5054.55	89.66	515.83	122.70	4.22	PASS		
12256.00†	6984.37	-538.94	-5640.67	6956.57	6990.64	-365.26	-5054.71	90.91	611.19	113.39	5.42	PASS		
12356.00†	6983.76	-539.73	-5740.66	6960.48	6994.53	-364.85	-5054.87	92.22	707.82	106.82	6.66	PASS		
12456.00†	6983.15	-540.51	-5840.66	6964.60	6998.63	-364.40	-5055.05	93.59	805.25	102.04	7.94	PASS		
12556.00†	6982.54	-541.29	-5940.66	6968.95	7002.94	-363.93	-5055.24	95.03	903.23	98.46	9.23	PASS		

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

POSITIONAL UNCERTAINTY - Offset Wellbore: STATE BEATRICE 32-16 AWB Offset Wellpath: STATE BEATRICE 32-16 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: STATE BEATRICE 32-16 AWB Offset Wellpath: STATE BEATRICE 32-16 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7100.00	BHI Generic gyro - continuous (Standard)	VES GYRO SURVEYS PROVIDED BY SRC <100-7100>	STATE BEATRICE 32-16 AWB
7100.00	7490.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7490>	STATE BEATRICE 32-16 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: STATE BEATRICE 32-16 AWB Offset Wellpath: STATE BEATRICE 32-16 AWP	
MD Reference: Rig on SLOT#02 EX. STATE BEATRICE 32-16 (1980'FNL & 1984'FEL, NB-CD/PR/7490'TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5N-16C-M PWB Offset Wellpath: HARVESTERS STATE 5N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#09 HARVESTERS STATE 5N-16C-M (1753°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 5N-16C-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	
1756.00	1752.35	-99.25	-35.49	1754.62	1754.07	20.04	-33.98	160.72	119.31	19.48	6.38	PASS	
1783.09	1779.36	-101.16	-36.14	1781.67	1781.11	19.66	-34.63	163.14	120.84	19.41	6.42	PASS	
1856.00†	1852.04	-106.64	-37.87	1854.44	1853.85	18.63	-36.39	163.10	125.29	19.50	6.63	PASS	
1956.00†	1951.73	-114.15	-40.25	1954.26	1953.63	17.21	-38.81	163.05	131.39	19.59	6.92	PASS	
2056.00†	2051.42	-121.67	-42.62	2054.07	2053.40	15.80	-41.22	163.01	137.49	19.74	7.19	PASS	
2156.00†	2151.11	-129.18	-45.00	2153.89	2153.18	14.39	-43.64	162.97	143.59	19.94	7.43	PASS	
2256.00†	2250.80	-136.70	-47.38	2253.70	2252.95	12.97	-46.05	162.93	149.69	20.19	7.65	PASS	
2356.00†	2350.49	-144.21	-49.75	2353.51	2352.73	11.56	-48.46	162.90	155.80	20.50	7.84	PASS	
2456.00†	2450.18	-151.73	-52.13	2453.33	2452.50	10.15	-50.88	162.86	161.90	20.86	8.00	PASS	
2556.00†	2549.87	-159.25	-54.51	2553.14	2552.28	8.73	-53.29	162.84	168.00	21.27	8.14	PASS	
2656.00†	2649.55	-166.76	-56.88	2652.95	2652.05	7.32	-55.71	162.81	174.10	21.72	8.25	PASS	
2756.00†	2749.24	-174.28	-59.26	2752.77	2751.82	5.90	-58.12	162.78	180.20	22.21	8.35	PASS	
2856.00†	2848.93	-181.79	-61.63	2852.58	2851.60	4.49	-60.54	162.76	186.30	22.75	8.42	PASS	
2956.00†	2948.62	-189.31	-64.01	2952.39	2951.37	3.08	-62.95	162.74	192.41	23.32	8.48	PASS	
3056.00†	3048.31	-196.82	-66.39	3052.21	3051.15	1.66	-65.36	162.72	198.51	23.92	8.52	PASS	
3156.00†	3148.00	-204.34	-68.76	3152.02	3150.92	0.25	-67.78	162.70	204.61	24.55	8.55	PASS	
3256.00†	3247.69	-211.85	-71.14	3251.83	3250.70	-1.16	-70.19	162.68	210.71	25.22	8.57	PASS	
3356.00†	3347.38	-219.37	-73.52	3351.65	3350.47	-2.58	-72.61	162.66	216.81	25.91	8.58	PASS	
3456.00†	3447.07	-226.88	-75.89	3451.46	3450.25	-3.99	-75.02	162.65	222.92	26.62	8.57	PASS	
3556.00†	3546.75	-234.40	-78.27	3551.28	3550.02	-5.40	-77.43	162.63	229.02	27.36	8.57	PASS	
3656.00†	3646.44	-241.91	-80.65	3651.09	3649.79	-6.82	-79.85	162.62	235.12	28.12	8.55	PASS	
3756.00†	3746.13	-249.43	-83.02	3750.90	3749.57	-8.23	-82.26	162.60	241.22	28.89	8.53	PASS	
3856.00†	3845.82	-256.94	-85.40	3850.72	3849.34	-9.65	-84.68	162.59	247.33	29.69	8.51	PASS	
3956.00†	3945.51	-264.46	-87.77	3950.53	3949.12	-11.06	-87.09	162.58	253.43	30.50	8.48	PASS	
4056.00†	4045.20	-271.98	-90.15	4050.34	4048.89	-12.47	-89.51	162.56	259.53	31.32	8.45	PASS	
4156.00†	4144.89	-279.49	-92.53	4150.16	4148.67	-13.89	-91.92	162.55	265.63	32.16	8.42	PASS	
4256.00†	4244.58	-287.01	-94.90	4249.97	4248.44	-15.30	-94.33	162.54	271.73	33.01	8.39	PASS	
4356.00†	4344.27	-294.52	-97.28	4349.78	4348.21	-16.71	-96.75	162.53	277.84	33.87	8.36	PASS	
4456.00†	4443.95	-302.04	-99.66	4449.60	4447.99	-18.13	-99.16	162.52	283.94	34.75	8.32	PASS	
4556.00†	4543.64	-309.55	-102.03	4549.41	4547.76	-19.54	-101.58	162.51	290.04	35.63	8.28	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5N-16C-M PWB Offset Wellpath: HARVESTERS STATE 5N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#09 HARVESTERS STATE 5N-16C-M (1753°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 5N-16C-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	
4656.00†	4643.33	-317.07	-104.41	4649.23	4647.54	-20.96	-103.99	162.50	296.14	36.52	8.25	PASS	
4756.00†	4743.02	-324.58	-106.79	4749.04	4747.31	-22.37	-106.40	162.49	302.24	37.42	8.21	PASS	
4856.00†	4842.71	-332.10	-109.16	4848.85	4847.09	-23.78	-108.82	162.49	308.35	38.33	8.18	PASS	
4956.00†	4942.40	-339.61	-111.54	4948.67	4946.86	-25.20	-111.23	162.48	314.45	39.25	8.14	PASS	
5056.00†	5042.09	-347.13	-113.92	5048.48	5046.64	-26.61	-113.65	162.47	320.55	40.17	8.10	PASS	
5156.00†	5141.78	-354.64	-116.29	5148.29	5146.41	-28.02	-116.06	162.46	326.65	41.10	8.07	PASS	
5256.00†	5241.47	-362.16	-118.67	5248.11	5246.18	-29.44	-118.48	162.45	332.76	42.04	8.03	PASS	
5356.00†	5341.15	-369.68	-121.04	5347.92	5345.96	-30.85	-120.89	162.45	338.86	42.98	8.00	PASS	
5456.00†	5440.84	-377.19	-123.42	5447.73	5445.73	-32.26	-123.30	162.44	344.96	43.92	7.97	PASS	
5556.00†	5540.53	-384.71	-125.80	5547.55	5545.51	-33.68	-125.72	162.43	351.06	44.88	7.93	PASS	
5656.00†	5640.22	-392.22	-128.17	5647.36	5645.28	-35.09	-128.13	162.43	357.17	45.83	7.90	PASS	
5756.00†	5739.91	-399.74	-130.55	5747.18	5745.06	-36.51	-130.53	162.42	363.27	46.79	7.87	PASS	
5856.00†	5839.60	-407.25	-132.93	5846.99	5844.83	-37.92	-132.96	162.42	369.37	47.75	7.84	PASS	
5956.00†	5939.29	-414.77	-135.30	5946.80	5944.61	-39.33	-135.37	162.41	375.47	48.72	7.81	PASS	
6056.00†	6038.98	-422.28	-137.68	6046.62	6044.38	-40.75	-137.79	162.40	381.57	49.69	7.78	PASS	
6156.00†	6138.67	-429.80	-140.06	6146.43	6144.15	-42.16	-140.20	162.40	387.68	50.67	7.75	PASS	
6256.00†	6238.35	-437.31	-142.43	6246.24	6243.93	-43.57	-142.62	162.39	393.78	51.65	7.72	PASS	
6356.00†	6338.04	-444.83	-144.81	6346.06	6343.70	-44.99	-145.03	162.39	399.88	52.63	7.69	PASS	
6412.80	6394.66	-449.10	-146.16	6402.75	6400.37	-45.79	-146.40	162.39	403.35	53.18	7.67	PASS	
6456.00†	6437.66	-452.35	-148.65	6445.84	6443.44	-46.40	-147.44	129.54	405.99	53.61	7.66	PASS	
6556.00†	6535.83	-459.87	-165.57	6545.43	6542.96	-47.82	-150.71	108.60	412.38	54.68	7.63	PASS	
6656.00†	6630.14	-467.23	-197.68	6648.09	6644.24	-49.36	-166.73	104.17	419.26	55.80	7.60	PASS	
6756.00†	6718.27	-474.24	-244.19	6753.79	6744.43	-51.01	-199.98	103.05	426.34	56.90	7.58	PASS	
6856.00†	6798.05	-480.73	-303.96	6862.63	6840.39	-52.74	-251.04	103.03	433.33	58.20	7.53	PASS	
6956.00†	6867.52	-486.55	-375.51	6974.59	6928.54	-54.49	-319.81	103.41	439.89	59.98	7.41	PASS	
7056.00†	6924.96	-491.55	-457.09	7089.49	7005.06	-56.21	-405.29	103.91	445.66	62.50	7.20	PASS	
7156.00†	6968.96	-495.60	-546.68	7206.94	7066.13	-57.82	-505.41	104.37	450.32	65.96	6.89	PASS	
7256.00†	6998.45	-498.60	-642.08	7326.37	7108.31	-59.26	-616.95	104.71	453.57	70.39	6.50	PASS	
7356.00†	7012.68	-500.49	-740.94	7447.04	7129.06	-60.45	-735.63	104.88	455.20	75.74	6.06	PASS	
7401.17	7014.00	-500.97	-786.08	7501.28	7130.99	-60.88	-789.82	104.89	455.38	78.31	5.86	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5N-16C-M PWB Offset Wellpath: HARVESTERS STATE 5N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLO#09 HARVESTERS STATE 5N-16C-M (1753°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 5N-16C-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
7456.00†	7013.67	-501.39	-840.91	7556.11	7130.79	-61.30	-844.65	104.90	455.43	81.30	5.64	PASS
7556.00†	7013.06	-502.18	-940.90	7656.11	7130.43	-62.05	-944.64	104.93	455.52	87.13	5.26	PASS
7656.00†	7012.44	-502.96	-1040.90	7756.11	7130.06	-62.80	-1044.64	104.96	455.61	93.46	4.90	PASS
7756.00†	7011.83	-503.74	-1140.89	7856.11	7129.69	-63.56	-1144.64	104.99	455.71	100.19	4.57	PASS
7856.00†	7011.22	-504.52	-1240.89	7956.11	7129.33	-64.31	-1244.63	105.02	455.80	107.24	4.27	PASS
7956.00†	7010.61	-505.31	-1340.88	8056.11	7128.96	-65.06	-1344.63	105.05	455.89	114.55	4.00	PASS
8056.00†	7010.00	-506.09	-1440.88	8156.11	7128.59	-65.81	-1444.62	105.08	455.98	122.05	3.75	PASS
8156.00†	7009.39	-506.87	-1540.87	8256.11	7128.23	-66.57	-1544.62	105.10	456.07	129.77	3.53	PASS
8256.00†	7008.78	-507.65	-1640.87	8356.11	7127.86	-67.32	-1644.62	105.13	456.17	137.61	3.33	PASS
8356.00†	7008.17	-508.43	-1740.86	8456.11	7127.50	-68.07	-1744.61	105.16	456.26	145.58	3.14	PASS
8456.00†	7007.56	-509.22	-1840.86	8556.11	7127.13	-68.82	-1844.61	105.19	456.35	153.64	2.98	PASS
8556.00†	7006.95	-510.00	-1940.85	8656.11	7126.76	-69.58	-1944.61	105.22	456.44	161.80	2.83	PASS
8656.00†	7006.34	-510.78	-2040.85	8756.11	7126.40	-70.33	-2044.60	105.25	456.54	170.02	2.69	PASS
8756.00†	7005.73	-511.56	-2140.84	8856.11	7126.03	-71.08	-2144.60	105.28	456.63	178.31	2.57	PASS
8856.00†	7005.12	-512.35	-2240.84	8956.11	7125.66	-71.84	-2244.59	105.30	456.72	186.66	2.45	PASS
8956.00†	7004.51	-513.13	-2340.83	9056.11	7125.30	-72.59	-2344.59	105.33	456.81	195.05	2.35	PASS
9056.00†	7003.90	-513.91	-2440.83	9156.11	7124.93	-73.34	-2444.59	105.36	456.91	203.48	2.25	PASS
9156.00†	7003.29	-514.69	-2540.82	9256.11	7124.57	-74.09	-2544.58	105.39	457.00	211.94	2.16	PASS
9256.00†	7002.68	-515.47	-2640.82	9356.11	7124.20	-74.85	-2644.58	105.42	457.09	220.44	2.08	PASS
9356.00†	7002.07	-516.26	-2740.81	9456.11	7123.83	-75.60	-2744.58	105.45	457.19	228.97	2.00	PASS
9456.00†	7001.46	-517.04	-2840.81	9556.11	7123.47	-76.35	-2844.57	105.48	457.28	237.50	1.93	PASS
9556.00†	7000.85	-517.82	-2940.80	9656.11	7123.10	-77.10	-2944.57	105.50	457.37	246.09	1.86	PASS
9656.00†	7000.24	-518.60	-3040.80	9756.11	7122.74	-77.86	-3044.56	105.53	457.47	254.68	1.80	PASS
9756.00†	6999.63	-519.39	-3140.79	9856.11	7122.37	-78.61	-3144.56	105.56	457.56	263.29	1.74	PASS
9856.00†	6999.02	-520.17	-3240.79	9956.11	7122.00	-79.36	-3244.56	105.59	457.66	271.91	1.68	PASS
9956.00†	6998.41	-520.95	-3340.78	10056.10	7121.64	-80.12	-3344.55	105.62	457.75	280.54	1.63	PASS
10056.00†	6997.80	-521.73	-3440.78	10156.10	7121.27	-80.87	-3444.55	105.65	457.84	289.19	1.58	PASS
10156.00†	6997.19	-522.52	-3540.77	10256.10	7120.90	-81.62	-3544.55	105.67	457.94	297.85	1.54	PASS
10256.00†	6996.58	-523.30	-3640.77	10356.10	7120.54	-82.37	-3644.54	105.70	458.03	306.52	1.50	PASS
10356.00†	6995.97	-524.08	-3740.76	10456.10	7120.17	-83.13	-3744.54	105.73	458.13	315.19	1.45	PASS

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5N-16C-M PWB Offset Wellpath: HARVESTERS STATE 5N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#09 HARVESTERS STATE 5N-16C-M (1753°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 5N-16C-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	
10456.00†	6995.36	-524.86	-3840.76	10556.10	7119.81	-83.88	-3844.53	105.76	458.22	323.88	1.42	PASS	
10556.00†	6994.75	-525.64	-3940.75	10656.10	7119.44	-84.63	-3944.53	105.79	458.32	332.57	1.38	PASS	
10656.00†	6994.14	-526.43	-4040.75	10756.10	7119.07	-85.38	-4044.53	105.82	458.41	341.26	1.34	PASS	
10756.00†	6993.53	-527.21	-4140.74	10856.10	7118.71	-86.14	-4144.52	105.84	458.51	349.97	1.31	PASS	
10856.00†	6992.92	-527.99	-4240.74	10956.10	7118.34	-86.89	-4244.52	105.87	458.60	358.67	1.28	PASS	
10956.00†	6992.31	-528.77	-4340.73	11056.10	7117.97	-87.64	-4344.51	105.90	458.70	367.39	1.25	PASS	
11056.00†	6991.70	-529.56	-4440.73	11156.10	7117.61	-88.39	-4444.51	105.93	458.79	376.10	1.22	PASS	
11156.00†	6991.09	-530.34	-4540.72	11256.10	7117.24	-89.15	-4544.51	105.96	458.89	384.82	1.19	PASS	
11256.00†	6990.47	-531.12	-4640.72	11356.10	7116.88	-89.90	-4644.50	105.99	458.98	393.54	1.17	PASS	
11356.00†	6989.86	-531.90	-4740.71	11456.10	7116.51	-90.65	-4744.50	106.01	459.08	402.27	1.14	PASS	
11456.00†	6989.25	-532.68	-4840.71	11556.10	7116.14	-91.41	-4844.50	106.04	459.18	411.00	1.12	PASS	
11556.00†	6988.64	-533.47	-4940.70	11656.10	7115.78	-92.16	-4944.49	106.07	459.27	419.73	1.09	PASS	
11656.00†	6988.03	-534.25	-5040.70	11756.10	7115.41	-92.91	-5044.49	106.10	459.37	428.46	1.07	PASS	
11756.00†	6987.42	-535.03	-5140.69	11856.10	7115.04	-93.66	-5144.48	106.13	459.46	437.19	1.05	PASS	
11856.00†	6986.81	-535.81	-5240.69	11956.10	7114.68	-94.42	-5244.48	106.16	459.56	445.93	1.03	PASS	
11956.00†	6986.20	-536.60	-5340.68	12056.10	7114.31	-95.17	-5344.48	106.18	459.66	454.66	1.01	PASS	
12056.00†	6985.59	-537.38	-5440.68	12156.10	7113.95	-95.92	-5444.47	106.21	459.75	463.40	0.99	FAIL	
12156.00†	6984.98	-538.16	-5540.67	12256.10	7113.58	-96.67	-5544.47	106.24	459.85	472.13	0.97	FAIL	
12256.00†	6984.37	-538.94	-5640.67	12356.10	7113.21	-97.43	-5644.47	106.27	459.95	480.87	0.96	FAIL	
12356.00†	6983.76	-539.73	-5740.66	12456.10	7112.85	-98.18	-5744.46	106.30	460.04	489.61	0.94	FAIL	
12456.00†	6983.15	-540.51	-5840.66	12556.10	7112.48	-98.93	-5844.46	106.32	460.14	498.35	0.92	FAIL	
12556.00†	6982.54	-541.29	-5940.66	12656.10	7112.12	-99.69	-5944.45	106.35	460.24	507.09	0.91	FAIL	
12656.00†	6981.93	-542.07	-6040.65	12756.10	7111.75	-100.44	-6044.45	106.38	460.33	515.82	0.89	FAIL	
12756.00†	6981.32	-542.85	-6140.65	12856.10	7111.38	-101.19	-6144.45	106.41	460.43	524.56	0.88	FAIL	
12856.00†	6980.71	-543.64	-6240.64	12956.10	7111.02	-101.94	-6244.44	106.44	460.53	533.30	0.86	FAIL	
12956.00†	6980.10	-544.42	-6340.64	13056.10	7110.65	-102.70	-6344.44	106.46	460.63	542.04	0.85	FAIL	
13056.00†	6979.49	-545.20	-6440.63	13156.10	7110.28	-103.45	-6444.43	106.49	460.72	550.77	0.84	FAIL	
13156.00†	6978.88	-545.98	-6540.63	13256.10	7109.92	-104.20	-6544.43	106.52	460.82	559.51	0.82	FAIL	
13256.00†	6978.27	-546.77	-6640.62	13356.09	7109.55	-104.95	-6644.43	106.55	460.92	568.24	0.81	FAIL	
13356.00†	6977.66	-547.55	-6740.62	13456.09	7109.19	-105.71	-6744.42	106.58	461.02	576.98	0.80	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5N-16C-M PWB Offset Wellpath: HARVESTERS STATE 5N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOTH09 HARVESTERS STATE 5N-16C-M (1753°FNL & 2334°FEL SEC.15) Well: HARVESTERS STATE 5N-16C-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	
13456.00†	6977.05	-548.33	-6840.61	13556.09	7108.82	-106.46	-6844.42	106.61	461.12	585.71	0.79	FAIL	
13556.00†	6976.44	-549.11	-6940.61	13656.09	7108.45	-107.21	-6944.42	106.63	461.21	594.44	0.78	FAIL	
13656.00†	6975.83	-549.89	-7040.60	13756.09	7108.09	-107.97	-7044.41	106.66	461.31	603.18	0.76	FAIL	
13756.00†	6975.22	-550.68	-7140.60	13856.09	7107.72	-108.72	-7144.41	106.69	461.41	611.91	0.75	FAIL	
13856.00†	6974.61	-551.46	-7240.59	13956.09	7107.35	-109.47	-7244.40	106.72	461.51	620.64	0.74	FAIL	
13956.00†	6974.00	-552.24	-7340.59	14056.09	7106.99	-110.22	-7344.40	106.74	461.61	629.36	0.73	FAIL	
14056.00†	6973.39	-553.02	-7440.58	14156.09	7106.62	-110.98	-7444.40	106.77	461.71	638.09	0.72	FAIL	
14156.00†	6972.78	-553.81	-7540.58	14256.09	7106.26	-111.73	-7544.39	106.80	461.80	646.82	0.71	FAIL	
14256.00†	6972.17	-554.59	-7640.57	14356.09	7105.89	-112.48	-7644.39	106.83	461.90	655.54	0.70	FAIL	
14356.00†	6971.56	-555.37	-7740.57	14456.09	7105.52	-113.23	-7744.39	106.86	462.00	664.26	0.70	FAIL	
14456.00†	6970.95	-556.15	-7840.56	14556.09	7105.16	-113.99	-7844.38	106.88	462.10	672.98	0.69	FAIL	
14556.00†	6970.34	-556.94	-7940.56	14656.09	7104.79	-114.74	-7944.38	106.91	462.20	681.70	0.68	FAIL	
14656.00†	6969.73	-557.72	-8040.55	14756.09	7104.42	-115.49	-8044.37	106.94	462.30	690.42	0.67	FAIL	
14756.00†	6969.12	-558.50	-8140.55	14856.09	7104.06	-116.24	-8144.37	106.97	462.40	699.14	0.66	FAIL	
14774.85	6969.00	-558.65	-8159.39	14872.08	7104.00	-116.37	-8160.36	106.97	462.43	700.63	0.66	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 5N-16C-M PWB Offset Wellpath: HARVESTERS STATE 5N-16C-M 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: HARVESTERS STATE 5N-16C-M PWB Offset Wellpath: HARVESTERS STATE 5N-16C-M 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	4.00	1750.00	1746.00	4.00	1749.45	24.43	0.14	18.34	-10.25
9.625in Casing Surface	4.00	1750.00	1746.00	4.00	1749.45	24.43	0.14	18.34	-10.25
8.5in Open Hole	1750.00	14872.08	13122.08	1749.45	N/A	18.34	-10.25	N/A	N/A



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HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 5N-16C-M PWB    Offset Wellpath: HARVESTERS STATE 5N-16C-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 5N-16C-M PWB
1750.00	14872.08	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 5N-16C-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 5N-16C-M PWB    Offset Wellpath: HARVESTERS STATE 5N-16C-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32N-16B-M PWB Offset Wellpath: HARVESTERS STATE 32N-16B-M PWP (REV-A.0)													
Facility: SEC.15-T06N-R66W Slot: SLOT#13 HARVESTERS STATE 32N-16B-M (1893°FNL & 2335°FEL, SEC.15)				Well: HARVESTERS STATE 32N-16B-M				Threshold Value=1.00 † = interpolated/extrapolated static					
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
1756.00	1752.35	-99.25	-35.49	1738.25	1726.85	-283.62	-32.70	-20.70	186.14	20.15	9.65	PASS	
1783.09	1779.36	-101.16	-36.14	1765.28	1753.62	-287.33	-33.34	-18.26	187.96	20.04	9.69	PASS	
1856.00†	1852.04	-106.64	-37.87	1838.05	1825.68	-297.32	-35.08	-18.25	192.52	20.17	9.86	PASS	
1956.00†	1951.73	-114.15	-40.25	1937.86	1924.51	-311.02	-37.45	-18.22	198.76	20.25	10.14	PASS	
2056.00†	2051.42	-121.67	-42.62	2037.66	2023.34	-324.72	-39.83	-18.19	205.01	20.39	10.38	PASS	
2156.00†	2151.11	-129.18	-45.00	2137.46	2122.17	-338.43	-42.20	-18.17	211.25	20.59	10.59	PASS	
2256.00†	2250.80	-136.70	-47.38	2237.27	2221.00	-352.13	-44.58	-18.15	217.50	20.84	10.77	PASS	
2356.00†	2350.49	-144.21	-49.75	2337.07	2319.83	-365.83	-46.95	-18.13	223.74	21.14	10.91	PASS	
2456.00†	2450.18	-151.73	-52.13	2436.88	2418.66	-379.53	-49.33	-18.11	229.99	21.50	11.03	PASS	
2556.00†	2549.87	-159.25	-54.51	2536.68	2517.49	-393.23	-51.70	-18.09	236.23	21.90	11.11	PASS	
2656.00†	2649.55	-166.76	-56.88	2636.49	2616.33	-406.93	-54.08	-18.08	242.48	22.33	11.17	PASS	
2756.00†	2749.24	-174.28	-59.26	2736.29	2715.16	-420.64	-56.45	-18.06	248.72	22.85	11.20	PASS	
2856.00†	2848.93	-181.79	-61.63	2836.10	2813.99	-434.34	-58.83	-18.04	254.97	23.38	11.21	PASS	
2956.00†	2948.62	-189.31	-64.01	2935.90	2912.82	-448.04	-61.20	-18.03	261.21	23.95	11.21	PASS	
3056.00†	3048.31	-196.82	-66.39	3035.71	3011.65	-461.74	-63.58	-18.01	267.46	24.56	11.19	PASS	
3156.00†	3148.00	-204.34	-68.76	3135.51	3110.48	-475.44	-65.95	-18.00	273.70	25.19	11.15	PASS	
3256.00†	3247.69	-211.85	-71.14	3235.32	3209.31	-489.14	-68.33	-17.99	279.95	25.86	11.10	PASS	
3356.00†	3347.38	-219.37	-73.52	3335.12	3308.14	-502.85	-70.70	-17.98	286.19	26.56	11.05	PASS	
3456.00†	3447.07	-226.88	-75.89	3434.93	3406.98	-516.55	-73.08	-17.96	292.44	27.27	10.98	PASS	
3556.00†	3546.75	-234.40	-78.27	3534.73	3505.81	-530.25	-75.45	-17.95	298.68	28.02	10.91	PASS	
3656.00†	3646.44	-241.91	-80.65	3634.54	3604.64	-543.95	-77.83	-17.94	304.93	28.78	10.84	PASS	
3756.00†	3746.13	-249.43	-83.02	3734.34	3703.47	-557.65	-80.20	-17.93	311.17	29.57	10.76	PASS	
3856.00†	3845.82	-256.94	-85.40	3834.15	3802.30	-571.35	-82.58	-17.92	317.42	30.37	10.68	PASS	
3956.00†	3945.51	-264.46	-87.77	3933.95	3901.13	-585.06	-84.95	-17.91	323.67	31.19	10.60	PASS	
4056.00†	4045.20	-271.98	-90.15	4033.76	3999.96	-598.76	-87.33	-17.90	329.91	32.02	10.51	PASS	
4156.00†	4144.89	-279.49	-92.53	4133.56	4098.79	-612.46	-89.70	-17.89	336.16	32.87	10.43	PASS	
4256.00†	4244.58	-287.01	-94.90	4233.36	4197.63	-626.16	-92.08	-17.88	342.40	33.73	10.35	PASS	
4356.00†	4344.27	-294.52	-97.28	4333.17	4296.46	-639.86	-94.46	-17.88	348.65	34.60	10.27	PASS	
4456.00†	4443.95	-302.04	-99.66	4432.97	4395.29	-653.56	-96.83	-17.87	354.89	35.49	10.18	PASS	
4556.00†	4543.64	-309.55	-102.03	4532.78	4494.12	-667.27	-99.21	-17.86	361.14	36.38	10.10	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32N-16B-M PWB Offset Wellpath: HARVESTERS STATE 32N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W				Slot: SLOT#13 HARVESTERS STATE 32N-16B-M (1893'FNL & 2335'FEL, SEC.15)				Well: HARVESTERS STATE 32N-16B-M				Threshold Value=1.00		† = interpolated/extrapolated static	
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status			
4656.00†	4643.33	-317.07	-104.41	4632.58	4592.95	-680.97	-101.58	-17.85	367.38	37.29	10.02	PASS			
4756.00†	4743.02	-324.58	-106.79	4732.39	4691.78	-694.67	-103.96	-17.85	373.63	38.20	9.95	PASS			
4856.00†	4842.71	-332.10	-109.16	4832.19	4790.61	-708.37	-106.33	-17.84	379.87	39.12	9.87	PASS			
4956.00†	4942.40	-339.61	-111.54	4932.00	4889.44	-722.07	-108.71	-17.83	386.12	40.05	9.80	PASS			
5056.00†	5042.09	-347.13	-113.92	5031.80	4988.28	-735.77	-111.08	-17.83	392.36	40.99	9.72	PASS			
5156.00†	5141.78	-354.64	-116.29	5131.61	5087.11	-749.48	-113.46	-17.82	398.61	41.93	9.65	PASS			
5256.00†	5241.47	-362.16	-118.67	5231.41	5185.94	-763.18	-115.83	-17.81	404.85	42.88	9.58	PASS			
5356.00†	5341.15	-369.68	-121.04	5331.22	5284.77	-776.88	-118.21	-17.81	411.10	43.83	9.52	PASS			
5456.00†	5440.84	-377.19	-123.42	5431.02	5383.60	-790.58	-120.58	-17.80	417.35	44.79	9.45	PASS			
5556.00†	5540.53	-384.71	-125.80	5530.83	5482.43	-804.28	-122.96	-17.80	423.59	45.76	9.39	PASS			
5656.00†	5640.22	-392.22	-128.17	5630.63	5581.26	-817.99	-125.33	-17.79	429.84	46.73	9.32	PASS			
5756.00†	5739.91	-399.74	-130.55	5730.44	5680.09	-831.69	-127.71	-17.79	436.08	47.70	9.26	PASS			
5856.00†	5839.60	-407.25	-132.93	5830.24	5778.93	-845.39	-130.08	-17.78	442.33	48.68	9.21	PASS			
5956.00†	5939.29	-414.77	-135.30	5930.05	5877.76	-859.09	-132.46	-17.77	448.57	49.67	9.15	PASS			
6056.00†	6038.98	-422.28	-137.68	6029.85	5976.59	-872.79	-134.83	-17.77	454.82	50.65	9.09	PASS			
6156.00†	6138.67	-429.80	-140.06	6129.66	6075.42	-886.49	-137.21	-17.77	461.06	51.64	9.04	PASS			
6256.00†	6238.35	-437.31	-142.43	6229.46	6174.25	-900.20	-139.58	-17.76	467.31	52.64	8.99	PASS			
6356.00†	6338.04	-444.83	-144.81	6329.27	6273.08	-913.90	-141.96	-17.76	473.55	53.63	8.93	PASS			
6412.80	6394.66	-449.10	-146.16	6385.95	6329.22	-921.68	-143.31	-17.75	477.10	54.20	8.91	PASS			
6456.00†	6437.66	-452.35	-148.65	6429.04	6371.88	-927.59	-144.33	-50.49	479.79	54.63	8.88	PASS			
6556.00†	6535.83	-459.87	-165.57	6528.12	6469.98	-941.20	-146.98	-73.86	486.16	55.70	8.83	PASS			
6656.00†	6630.14	-467.23	-197.68	6629.93	6569.81	-955.13	-160.53	-81.69	493.02	57.05	8.74	PASS			
6756.00†	6718.27	-474.24	-244.19	6735.14	6669.34	-969.18	-191.20	-86.02	500.16	58.60	8.63	PASS			
6856.00†	6798.05	-480.73	-303.96	6843.93	6765.52	-982.91	-239.86	-89.00	507.30	60.09	8.53	PASS			
6956.00†	6867.52	-486.55	-375.51	6956.37	6854.79	-995.85	-306.75	-91.23	514.08	61.98	8.38	PASS			
7056.00†	6924.98	-491.55	-457.09	7072.34	6933.16	-1007.43	-391.22	-92.95	520.14	64.49	8.14	PASS			
7156.00†	6968.96	-495.60	-546.68	7191.49	6996.51	-1017.07	-491.46	-94.22	525.11	67.82	7.81	PASS			
7256.00†	6998.45	-498.60	-642.08	7313.20	7040.97	-1024.20	-604.34	-95.09	528.66	72.06	7.40	PASS			
7356.00†	7012.68	-500.49	-740.94	7436.64	7063.52	-1028.37	-725.44	-95.55	530.55	77.09	6.94	PASS			
7401.17	7014.00	-500.97	-786.08	7492.69	7066.00	-1029.20	-781.41	-95.62	530.81	79.57	6.72	PASS			

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32N-16B-M PWB Offset Wellpath: HARVESTERS STATE 32N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#13 HARVESTERS STATE 32N-16B-M (1893°FNL & 2335°FEL, SEC.15) Well: HARVESTERS STATE 32N-16B-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
7456.00†	7013.67	-501.39	-840.91	7548.11	7065.79	-1029.65	-836.82	-95.64	530.84	80.03	6.68	PASS	
7556.00†	7013.06	-502.18	-940.90	7648.11	7065.40	-1030.46	-936.82	-95.66	530.89	88.55	6.04	PASS	
7656.00†	7012.44	-502.96	-1040.90	7748.11	7065.01	-1031.27	-1036.81	-95.68	530.94	95.02	5.62	PASS	
7756.00†	7011.83	-503.74	-1140.89	7848.11	7064.61	-1032.09	-1136.81	-95.70	530.99	101.91	5.24	PASS	
7856.00†	7011.22	-504.52	-1240.89	7948.11	7064.22	-1032.90	-1236.81	-95.73	531.04	109.14	4.89	PASS	
7956.00†	7010.61	-505.31	-1340.88	8048.11	7063.83	-1033.71	-1336.80	-95.75	531.09	116.64	4.57	PASS	
8056.00†	7010.00	-506.09	-1440.88	8148.11	7063.43	-1034.52	-1436.80	-95.77	531.14	124.37	4.29	PASS	
8156.00†	7009.39	-506.87	-1540.87	8248.11	7063.04	-1035.33	-1536.79	-95.80	531.19	132.29	4.03	PASS	
8256.00†	7008.78	-507.65	-1640.87	8348.11	7062.65	-1036.14	-1636.79	-95.82	531.25	140.36	3.80	PASS	
8356.00†	7008.17	-508.43	-1740.86	8448.11	7062.26	-1036.96	-1736.78	-95.84	531.30	148.56	3.59	PASS	
8456.00†	7007.56	-509.22	-1840.86	8548.11	7061.86	-1037.77	-1836.78	-95.87	531.35	156.86	3.40	PASS	
8556.00†	7006.95	-510.00	-1940.85	8648.11	7061.47	-1038.58	-1936.78	-95.89	531.40	165.26	3.23	PASS	
8656.00†	7006.34	-510.78	-2040.85	8748.11	7061.08	-1039.39	-2036.77	-95.91	531.45	173.74	3.07	PASS	
8756.00†	7005.73	-511.56	-2140.84	8848.11	7060.68	-1040.20	-2136.77	-95.93	531.50	182.28	2.92	PASS	
8856.00†	7005.12	-512.35	-2240.84	8948.11	7060.29	-1041.01	-2236.76	-95.96	531.56	190.88	2.79	PASS	
8956.00†	7004.51	-513.13	-2340.83	9048.11	7059.90	-1041.83	-2336.76	-95.98	531.61	199.54	2.67	PASS	
9056.00†	7003.90	-513.91	-2440.83	9148.11	7059.50	-1042.64	-2436.75	-96.00	531.66	208.23	2.56	PASS	
9156.00†	7003.29	-514.69	-2540.82	9248.11	7059.11	-1043.45	-2536.75	-96.03	531.71	216.97	2.46	PASS	
9256.00†	7002.68	-515.47	-2640.82	9348.11	7058.72	-1044.26	-2636.75	-96.05	531.76	225.74	2.36	PASS	
9356.00†	7002.07	-516.26	-2740.81	9448.11	7058.32	-1045.07	-2736.74	-96.07	531.82	234.54	2.27	PASS	
9456.00†	7001.46	-517.04	-2840.81	9548.11	7057.93	-1045.89	-2836.74	-96.10	531.87	243.36	2.19	PASS	
9556.00†	7000.85	-517.82	-2940.80	9648.11	7057.54	-1046.70	-2936.73	-96.12	531.92	252.21	2.11	PASS	
9656.00†	7000.24	-518.60	-3040.80	9748.11	7057.14	-1047.51	-3036.73	-96.14	531.97	261.08	2.04	PASS	
9756.00†	6999.63	-519.39	-3140.79	9848.11	7056.75	-1048.32	-3136.72	-96.16	532.03	269.97	1.97	PASS	
9856.00†	6999.02	-520.17	-3240.79	9948.11	7056.36	-1049.13	-3236.72	-96.19	532.08	278.88	1.91	PASS	
9956.00†	6998.41	-520.95	-3340.78	10048.10	7055.96	-1049.94	-3336.72	-96.21	532.13	287.80	1.85	PASS	
10056.00†	6997.80	-521.73	-3440.78	10148.10	7055.57	-1050.76	-3436.71	-96.23	532.18	296.74	1.80	PASS	
10156.00†	6997.19	-522.52	-3540.77	10248.10	7055.18	-1051.57	-3536.71	-96.26	532.24	305.69	1.74	PASS	
10256.00†	6996.58	-523.30	-3640.77	10348.10	7054.78	-1052.38	-3636.70	-96.28	532.29	314.65	1.69	PASS	
10356.00†	6995.97	-524.08	-3740.76	10448.10	7054.39	-1053.19	-3736.70	-96.30	532.34	323.62	1.65	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32N-16B-M PWB Offset Wellpath: HARVESTERS STATE 32N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLO#13 HARVESTERS STATE 32N-16B-M (1893°FNL & 2335°FEL, SEC.15) Well: HARVESTERS STATE 32N-16B-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
10456.00†	6995.36	-524.86	-3840.76	10548.10	7054.00	-1054.00	-3836.69	-96.32	532.40	332.61	1.60	PASS	
10556.00†	6994.75	-525.64	-3940.79	10648.10	7053.60	-1054.81	-3936.69	-96.35	532.45	341.60	1.56	PASS	
10656.00†	6994.14	-526.43	-4040.75	10748.10	7053.21	-1055.63	-4036.69	-96.37	532.50	350.59	1.52	PASS	
10756.00†	6993.53	-527.21	-4140.74	10848.10	7052.82	-1056.44	-4136.68	-96.39	532.56	359.60	1.48	PASS	
10856.00†	6992.92	-527.99	-4240.74	10948.10	7052.43	-1057.25	-4236.68	-96.42	532.61	368.61	1.45	PASS	
10956.00†	6992.31	-528.77	-4340.73	11048.10	7052.03	-1058.06	-4336.67	-96.44	532.66	377.63	1.41	PASS	
11056.00†	6991.70	-529.56	-4440.73	11148.10	7051.64	-1058.87	-4436.67	-96.46	532.72	386.65	1.38	PASS	
11156.00†	6991.09	-530.34	-4540.72	11248.10	7051.25	-1059.68	-4536.66	-96.48	532.77	395.68	1.35	PASS	
11256.00†	6990.47	-531.12	-4640.72	11348.10	7050.85	-1060.50	-4636.66	-96.51	532.82	404.72	1.32	PASS	
11356.00†	6989.86	-531.90	-4740.71	11448.10	7050.46	-1061.31	-4736.65	-96.53	532.88	413.76	1.29	PASS	
11456.00†	6989.25	-532.68	-4840.71	11548.10	7050.07	-1062.12	-4836.65	-96.55	532.93	422.80	1.26	PASS	
11556.00†	6988.64	-533.47	-4940.70	11648.10	7049.67	-1062.93	-4936.65	-96.58	532.99	431.85	1.23	PASS	
11656.00†	6988.03	-534.25	-5040.70	11748.10	7049.28	-1063.74	-5036.64	-96.60	533.04	440.90	1.21	PASS	
11756.00†	6987.42	-535.03	-5140.69	11848.10	7048.89	-1064.55	-5136.64	-96.62	533.09	449.95	1.19	PASS	
11856.00†	6986.81	-535.81	-5240.69	11948.10	7048.49	-1065.37	-5236.63	-96.64	533.15	459.01	1.16	PASS	
11956.00†	6986.20	-536.60	-5340.68	12048.10	7048.10	-1066.18	-5336.63	-96.67	533.20	468.07	1.14	PASS	
12056.00†	6985.59	-537.38	-5440.68	12148.10	7047.71	-1066.99	-5436.62	-96.69	533.26	477.13	1.12	PASS	
12156.00†	6984.98	-538.16	-5540.67	12248.10	7047.31	-1067.80	-5536.62	-96.71	533.31	486.19	1.10	PASS	
12256.00†	6984.37	-538.94	-5640.67	12348.10	7046.92	-1068.61	-5636.62	-96.74	533.37	495.26	1.08	PASS	
12356.00†	6983.76	-539.73	-5740.66	12448.10	7046.53	-1069.43	-5736.61	-96.76	533.42	504.33	1.06	PASS	
12456.00†	6983.15	-540.51	-5840.66	12548.10	7046.13	-1070.24	-5836.61	-96.78	533.48	513.40	1.04	PASS	
12556.00†	6982.54	-541.29	-5940.66	12648.10	7045.74	-1071.05	-5936.60	-96.80	533.53	522.47	1.02	PASS	
12656.00†	6981.93	-542.07	-6040.65	12748.10	7045.35	-1071.86	-6036.60	-96.83	533.59	531.54	1.00	PASS	
12756.00†	6981.32	-542.85	-6140.65	12848.10	7044.95	-1072.67	-6136.59	-96.85	533.64	540.62	0.99	FAIL	
12856.00†	6980.71	-543.64	-6240.64	12948.10	7044.56	-1073.48	-6236.59	-96.87	533.70	549.70	0.97	FAIL	
12956.00†	6980.10	-544.42	-6340.64	13048.10	7044.17	-1074.30	-6336.59	-96.89	533.75	558.77	0.96	FAIL	
13056.00†	6979.49	-545.20	-6440.63	13148.10	7043.78	-1075.11	-6436.58	-96.92	533.81	567.85	0.94	FAIL	
13156.00†	6978.88	-545.98	-6540.63	13248.10	7043.38	-1075.92	-6536.58	-96.94	533.86	576.93	0.93	FAIL	
13256.00†	6978.27	-546.77	-6640.62	13348.10	7042.99	-1076.73	-6636.57	-96.96	533.92	586.01	0.91	FAIL	
13356.00†	6977.66	-547.55	-6740.62	13448.10	7042.60	-1077.54	-6736.57	-96.99	533.97	595.10	0.90	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32N-16B-M PWB Offset Wellpath: HARVESTERS STATE 32N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W				Slot: SLOT#13 HARVESTERS STATE 32N-16B-M (1893'FNL & 2335'FEL, SEC.15)				Well: HARVESTERS STATE 32N-16B-M				Threshold Value=1.00 † = interpolated/extrapolated static			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status			
13456.00†	6977.05	-548.33	-6840.61	13548.10	7042.20	-1078.35	-6836.56	-97.01	534.03	604.18	0.88	FAIL			
13556.00†	6976.44	-549.11	-6940.61	13648.10	7041.81	-1079.17	-6936.56	-97.03	534.08	613.26	0.87	FAIL			
13656.00†	6975.83	-549.89	-7040.60	13748.10	7041.42	-1079.98	-7036.56	-97.05	534.14	622.35	0.86	FAIL			
13756.00†	6975.22	-550.68	-7140.60	13848.10	7041.02	-1080.79	-7136.55	-97.08	534.20	631.43	0.85	FAIL			
13856.00†	6974.61	-551.46	-7240.59	13948.10	7040.63	-1081.60	-7236.55	-97.10	534.25	640.51	0.83	FAIL			
13956.00†	6974.00	-552.24	-7340.59	14048.10	7040.24	-1082.41	-7336.54	-97.12	534.31	649.60	0.82	FAIL			
14056.00†	6973.39	-553.02	-7440.58	14148.10	7039.84	-1083.22	-7436.54	-97.14	534.36	658.69	0.81	FAIL			
14156.00†	6972.78	-553.81	-7540.58	14248.09	7039.45	-1084.04	-7536.53	-97.17	534.42	667.77	0.80	FAIL			
14256.00†	6972.17	-554.59	-7640.57	14348.09	7039.06	-1084.85	-7636.53	-97.19	534.48	676.86	0.79	FAIL			
14356.00†	6971.56	-555.37	-7740.57	14448.09	7038.66	-1085.66	-7736.53	-97.21	534.53	685.94	0.78	FAIL			
14456.00†	6970.95	-556.15	-7840.56	14548.09	7038.27	-1086.47	-7836.52	-97.24	534.59	695.03	0.77	FAIL			
14556.00†	6970.34	-556.94	-7940.56	14648.09	7037.88	-1087.28	-7936.52	-97.26	534.65	704.12	0.76	FAIL			
14656.00†	6969.73	-557.72	-8040.55	14748.09	7037.48	-1088.09	-8036.51	-97.28	534.70	713.20	0.75	FAIL			
14756.00†	6969.12	-558.50	-8140.55	14848.09	7037.09	-1088.91	-8136.51	-97.30	534.76	722.29	0.74	FAIL			
14774.85	6969.00	-558.65	-8159.39	14866.94	7037.02	-1089.06	-8155.35	-97.31	534.77	724.00	0.74	FAIL			

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 32N-16B-M PWB Offset Wellpath: HARVESTERS STATE 32N-16B-M 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: HARVESTERS STATE 32N-16B-M PWB Offset Wellpath: HARVESTERS STATE 32N-16B-M 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	4.00	1750.00	1746.00	5.00	1738.48	-60.89	-0.52	-117.38	-10.31
9.625in Casing Surface	4.00	1750.00	1746.00	5.00	1738.48	-60.89	-0.52	-117.38	-10.31
8.5in Open Hole	1750.00	14871.15	13121.15	1738.48	7037.00	-117.38	-10.31	-362.40	-2487.29





Clearance Report  
HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 32N-16B-M PWB    Offset Wellpath: HARVESTERS STATE 32N-16B-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 32N-16B-M PWB
1750.00	14871.15	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 32N-16B-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 32N-16B-M PWB    Offset Wellpath: HARVESTERS STATE 32N-16B-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: BURBACH 15-23 AWB Offset Wellpath: BURBACH 15-23 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#02 EX. BURBACH 15-23 (2169°FNL & 475°FNL, CODL/SI/7409°TD) Well: BURBACH 15-23 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	
1756.00	1752.35	-99.25	-35.49	1725.55	1745.50	-372.90	-2527.71	63.80	2507.20	52.63	48.51	PASS	
1783.09	1779.36	-101.16	-36.14	1751.08	1771.03	-373.00	-2527.77	66.28	2506.43	52.41	48.47	PASS	
1856.00†	1852.04	-106.64	-37.87	1821.14	1841.09	-373.20	-2528.04	66.39	2504.42	52.43	48.41	PASS	
1956.00†	1951.73	-114.15	-40.25	1921.55	1941.50	-373.28	-2528.45	66.56	2501.68	52.46	48.32	PASS	
2056.00†	2051.42	-121.67	-42.62	2018.93	2038.88	-373.10	-2528.89	66.72	2498.97	52.51	48.22	PASS	
2156.00†	2151.11	-129.18	-45.00	2110.22	2130.17	-372.81	-2529.55	66.88	2496.55	52.58	48.12	PASS	
2256.00†	2250.80	-136.70	-47.38	2210.01	2229.95	-372.56	-2530.41	67.06	2494.29	52.66	47.99	PASS	
2356.00†	2350.49	-144.21	-49.75	2307.79	2327.72	-372.29	-2531.30	67.23	2492.11	52.76	47.86	PASS	
2456.00†	2450.18	-151.73	-52.13	2409.10	2429.04	-371.96	-2532.22	67.41	2489.94	52.88	47.71	PASS	
2556.00†	2549.87	-159.25	-54.51	2508.95	2528.88	-371.75	-2533.08	67.58	2487.75	53.01	47.55	PASS	
2656.00†	2649.55	-166.76	-56.88	2603.27	2623.19	-371.53	-2534.00	67.75	2485.71	53.15	47.38	PASS	
2756.00†	2749.24	-174.28	-59.26	2706.61	2726.52	-371.26	-2535.03	67.93	2483.70	53.32	47.20	PASS	
2856.00†	2848.93	-181.79	-61.63	2800.72	2820.63	-371.10	-2536.02	68.09	2481.78	53.49	47.01	PASS	
2956.00†	2948.62	-189.31	-64.01	2897.87	2917.78	-370.87	-2537.20	68.26	2480.03	53.68	46.80	PASS	
3056.00†	3048.31	-196.82	-66.39	2994.88	3014.77	-370.62	-2538.48	68.44	2478.42	53.89	46.59	PASS	
3156.00†	3148.00	-204.34	-68.76	3090.54	3110.42	-370.39	-2539.87	68.61	2476.96	54.11	46.37	PASS	
3256.00†	3247.69	-211.85	-71.14	3184.91	3204.78	-370.06	-2541.42	68.78	2475.72	54.34	46.15	PASS	
3356.00†	3347.38	-219.37	-73.52	3280.48	3300.34	-369.82	-2543.18	68.95	2474.69	54.59	45.92	PASS	
3456.00†	3447.07	-226.88	-75.89	3367.27	3387.10	-369.98	-2545.02	69.09	2473.99	54.84	45.69	PASS	
3556.00†	3546.75	-234.40	-78.27	3465.72	3485.52	-370.46	-2547.51	69.25	2473.75	55.12	45.43	PASS	
3656.00†	3646.44	-241.91	-80.65	3563.05	3612.83	-370.73	-2550.07	69.47	2473.01	55.46	45.16	PASS	
3756.00†	3746.13	-249.43	-83.02	3661.29	3711.06	-370.54	-2551.41	69.64	2471.61	55.77	44.88	PASS	
3856.00†	3845.82	-256.94	-85.40	3762.26	3802.02	-370.16	-2552.87	69.81	2470.46	56.08	44.60	PASS	
3956.00†	3945.51	-264.46	-87.77	3861.17	3880.91	-369.85	-2554.57	69.95	2469.89	56.39	44.35	PASS	
4056.00†	4045.20	-271.98	-90.15	3949.17	3968.87	-369.47	-2557.22	70.11	2470.18	56.72	44.09	PASS	
4156.00†	4144.89	-279.49	-92.53	4052.77	4072.41	-369.25	-2560.39	70.30	2470.55	57.09	43.80	PASS	
4256.00†	4244.58	-287.01	-94.90	4152.79	4172.40	-369.47	-2563.25	70.47	2470.78	57.47	43.52	PASS	
4356.00†	4344.27	-294.52	-97.28	4266.05	4285.61	-370.89	-2566.39	70.64	2470.99	57.88	43.21	PASS	
4456.00†	4443.95	-302.04	-99.66	4377.05	4396.56	-373.02	-2568.60	70.78	2470.42	58.29	42.88	PASS	
4556.00†	4543.64	-309.55	-102.03	4480.07	4499.54	-375.11	-2570.45	70.91	2469.68	58.70	42.58	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: BURBACH 15-23 AWB Offset Wellpath: BURBACH 15-23 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#02 EX. BURBACH 15-23 (2169°FNL & 475°FNL, CODL/SL/7409°TD) Well: BURBACH 15-23 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	
4656.00†	4643.33	-317.07	-104.41	4574.88	4594.31	-377.18	-2572.15	71.03	2468.96	59.10	42.27	PASS	
4756.00†	4743.02	-324.58	-106.79	4678.64	4698.03	-379.46	-2574.14	71.16	2468.37	59.52	41.96	PASS	
4856.00†	4842.71	-332.10	-109.16	4768.22	4787.57	-381.52	-2575.84	71.26	2467.78	59.93	41.66	PASS	
4956.00†	4942.40	-339.61	-111.54	4874.85	4894.15	-383.16	-2578.20	71.41	2467.52	60.39	41.33	PASS	
5056.00†	5042.09	-347.13	-113.92	4975.36	4994.65	-383.59	-2580.06	71.58	2466.87	60.86	41.00	PASS	
5156.00†	5141.78	-354.64	-116.29	5090.94	5110.21	-383.49	-2582.02	71.78	2466.10	61.37	40.64	PASS	
5256.00†	5241.47	-362.16	-118.67	5216.92	5236.19	-383.12	-2582.87	72.01	2464.29	61.88	40.27	PASS	
5356.00†	5341.15	-369.68	-121.04	5314.64	5333.91	-382.71	-2583.16	72.19	2462.17	62.34	39.94	PASS	
5456.00†	5440.84	-377.19	-123.42	5433.11	5452.38	-382.51	-2583.09	72.40	2459.70	62.77	39.62	PASS	
5556.00†	5540.53	-384.71	-125.80	5547.39	5566.66	-382.83	-2582.11	72.59	2456.45	63.16	39.32	PASS	
5656.00†	5640.22	-392.22	-128.17	5641.53	5660.78	-383.50	-2581.12	72.74	2453.05	63.56	39.02	PASS	
5756.00†	5739.91	-399.74	-130.55	5732.46	5751.72	-383.96	-2580.61	72.89	2450.14	63.98	38.72	PASS	
5856.00†	5839.60	-407.25	-132.93	5842.62	5861.87	-384.97	-2579.92	73.06	2447.20	64.42	38.40	PASS	
5956.00†	5939.29	-414.77	-135.30	5958.11	5977.34	-385.92	-2578.48	73.25	2443.63	64.86	38.08	PASS	
6056.00†	6038.98	-422.28	-137.68	6080.45	6099.65	-386.41	-2576.08	73.45	2439.42	65.30	37.75	PASS	
6156.00†	6138.67	-429.80	-140.06	6264.13	6283.10	-385.40	-2567.09	73.81	2431.74	65.79	37.35	PASS	
6256.00†	6238.35	-437.31	-142.43	6337.01	6355.85	-384.07	-2563.03	73.97	2424.03	66.27	36.96	PASS	
6356.00†	6338.04	-444.83	-144.81	6400.95	6419.70	-382.25	-2560.36	74.13	2417.74	66.74	36.61	PASS	
6412.80	6394.66	-449.10	-146.16	6439.71	6458.42	-380.92	-2559.15	74.23	2414.80	67.01	36.41	PASS	
6456.00†	6437.66	-452.35	-148.65	6469.13	6487.82	-379.87	-2558.43	41.52	2411.39	67.23	36.24	PASS	
6556.00†	6535.83	-459.87	-165.57	6535.93	6554.56	-377.42	-2557.39	19.50	2393.32	68.02	35.55	PASS	
6656.00†	6630.14	-467.23	-197.68	6600.17	6618.76	-375.18	-2557.21	13.68	2361.36	69.32	34.40	PASS	
6756.00†	6718.27	-474.24	-244.19	6672.81	6691.36	-372.92	-2557.72	11.44	2315.90	70.46	33.19	PASS	
6856.00†	6798.05	-480.73	-303.96	6747.92	6766.45	-371.00	-2558.65	10.68	2257.59	71.44	31.91	PASS	
6956.00†	6867.52	-486.55	-375.51	6818.36	6836.87	-369.66	-2559.57	10.88	2187.40	72.25	30.56	PASS	
7056.00†	6924.96	-491.55	-457.09	6875.58	6894.08	-368.72	-2560.33	12.07	2107.06	72.88	29.19	PASS	
7156.00†	6968.96	-495.60	-546.68	6917.93	6936.41	-368.06	-2560.93	14.84	2018.55	73.33	27.79	PASS	
7256.00†	6998.45	-498.60	-642.08	6945.42	6963.90	-367.67	-2561.38	21.54	1924.07	73.62	26.38	PASS	
7356.00†	7012.68	-500.49	-740.94	6959.65	6978.13	-367.49	-2561.63	45.92	1825.87	73.79	24.97	PASS	
7401.17	7014.00	-500.97	-786.08	6961.57	6980.04	-367.46	-2561.66	81.08	1780.92	73.83	24.35	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: BURBACH 15-23 AWB Offset Wellpath: BURBACH 15-23 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#02 EX. BURBACH 15-23 (2169°FNL & 475°FNL, CODL/SI/7409°TD) Well: BURBACH 15-23 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
7456.00†	7013.67	-501.39	-840.91	6962.16	6980.63	-367.46	-2561.67	81.31	1726.29	73.87	23.59	PASS
7556.00†	7013.08	-502.18	-940.90	6963.25	6981.72	-367.44	-2561.69	81.72	1626.69	73.95	22.20	PASS
7656.00†	7012.44	-502.96	-1040.90	6964.35	6982.83	-367.43	-2561.71	82.14	1527.13	74.05	20.81	PASS
7756.00†	7011.83	-503.74	-1140.89	6965.47	6983.95	-367.42	-2561.74	82.57	1427.64	74.17	19.42	PASS
7856.00†	7011.22	-504.52	-1240.89	6966.60	6985.08	-367.40	-2561.76	83.01	1328.23	74.33	18.03	PASS
7956.00†	7010.61	-505.31	-1340.88	6967.75	6986.22	-367.39	-2561.78	83.45	1228.90	74.52	16.64	PASS
8056.00†	7010.00	-506.09	-1440.88	6968.91	6987.38	-367.38	-2561.80	83.89	1129.70	74.77	15.24	PASS
8156.00†	7009.39	-506.87	-1540.87	6970.09	6988.56	-367.36	-2561.82	84.34	1030.65	75.11	13.84	PASS
8256.00†	7008.78	-507.65	-1640.87	6971.28	6989.75	-367.35	-2561.84	84.80	931.80	75.55	12.44	PASS
8356.00†	7008.17	-508.43	-1740.86	6972.49	6990.96	-367.33	-2561.87	85.27	833.22	76.17	11.03	PASS
8456.00†	7007.56	-509.22	-1840.86	6973.71	6992.18	-367.32	-2561.89	85.74	735.02	77.06	9.62	PASS
8556.00†	7006.95	-510.00	-1940.85	6974.95	6993.42	-367.30	-2561.91	86.22	637.39	78.38	8.20	PASS
8656.00†	7006.34	-510.78	-2040.85	6976.21	6994.68	-367.29	-2561.94	86.71	540.61	80.44	6.77	PASS
8756.00†	7005.73	-511.56	-2140.84	6977.48	6995.95	-367.27	-2561.96	87.20	445.26	83.82	5.35	PASS
8856.00†	7005.12	-512.35	-2240.84	6978.77	6997.24	-367.26	-2561.99	87.70	352.49	89.73	3.95	PASS
8956.00†	7004.51	-513.13	-2340.83	6980.08	6998.54	-367.24	-2562.01	88.21	265.02	100.64	2.64	PASS
9056.00†	7003.90	-513.91	-2440.83	6981.40	6999.87	-367.23	-2562.04	88.72	190.32	120.39	1.58	PASS
9156.00†	7003.29	-514.69	-2540.82	6982.74	7001.21	-367.21	-2562.06	89.24	149.01	142.43	1.05	PASS
9175.82†	7003.17	-514.85	-2560.64	6983.00	7001.47	-367.21	-2562.07	89.34	147.65	144.30	1.02	PASS
9180.66†	7003.14	-514.89	-2565.48	6983.08	7001.55	-367.21	-2562.07	89.37	147.72	144.50	1.02	PASS
9256.00†	7002.68	-515.47	-2640.82	6984.11	7002.57	-367.20	-2562.09	89.77	167.88	134.26	1.25	PASS
9356.00†	7002.07	-516.26	-2740.81	6985.49	7003.95	-367.18	-2562.12	90.31	232.72	112.88	2.07	PASS
9456.00†	7001.46	-517.04	-2840.81	6986.89	7005.35	-367.17	-2562.15	90.85	316.43	99.02	3.21	PASS
9556.00†	7000.85	-517.82	-2940.80	6988.31	7006.77	-367.15	-2562.17	91.40	407.55	91.16	4.50	PASS
9656.00†	7000.24	-518.60	-3040.80	6989.75	7008.21	-367.14	-2562.20	91.96	502.05	86.53	5.84	PASS
9756.00†	6999.63	-519.39	-3140.79	6991.21	7009.67	-367.12	-2562.23	92.52	598.35	83.63	7.21	PASS
9856.00†	6999.02	-520.17	-3240.79	6992.69	7011.16	-367.11	-2562.26	93.10	695.68	81.72	8.58	PASS
9956.00†	6998.41	-520.95	-3340.78	6994.19	7012.66	-367.09	-2562.29	93.68	793.68	80.40	9.95	PASS
10056.00†	6997.80	-521.73	-3440.78	6995.72	7014.18	-367.07	-2562.32	94.26	892.11	79.46	11.32	PASS
10156.00†	6997.19	-522.52	-3540.77	6997.27	7015.73	-367.06	-2562.36	94.86	990.86	78.77	12.68	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report  
HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

POSITIONAL UNCERTAINTY - Offset Wellbore: BURBACH 15-23 AWB Offset Wellpath: BURBACH 15-23 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: BURBACH 15-23 AWB Offset Wellpath: BURBACH 15-23 AWP				
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7100.00	BHI Generic gyro - continuous (Standard)	VES GYRO SURVEYS PROVIDED BY SRC <100-7100>	BURBACH 15-23 AWB
7100.00	7409.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7409>	BURBACH 15-23 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: BURBACH 15-23 AWB Offset Wellpath: BURBACH 15-23 AWP	
MD Reference: Rig on SLOT#02 EX. BURBACH 15-23 (2169°FNL & 475°FNL, CODL/SI/7409°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5C-16-M PWB Offset Wellpath: HARVESTERS STATE 5C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#08 HARVESTERS STATE 5C-16-M (1733°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 5C-16-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
1756.00†	1752.35	-99.25	-35.49	1750.24	1749.69	81.30	-33.24	160.67	180.58	19.45	9.69	PASS
1783.00†	1779.36	-101.16	-36.14	1777.23	1776.67	81.70	-33.88	163.09	182.90	19.39	9.75	PASS
1856.00†	1852.04	-106.64	-37.87	1849.85	1849.25	82.80	-35.62	163.06	189.47	19.49	10.05	PASS
1956.00†	1951.73	-114.13	-40.25	1949.44	1948.80	84.29	-38.01	163.03	198.48	19.58	10.48	PASS
2056.00†	2051.42	-121.67	-42.62	2049.03	2048.36	85.79	-40.39	163.00	207.49	19.72	10.88	PASS
2156.00†	2151.11	-129.18	-45.00	2148.63	2147.91	87.29	-42.78	162.97	216.51	19.92	11.23	PASS
2256.00†	2250.80	-136.70	-47.38	2248.22	2247.46	88.78	-45.17	162.95	225.52	20.17	11.55	PASS
2356.00†	2350.49	-144.21	-49.75	2347.81	2347.02	90.28	-47.55	162.92	234.53	20.48	11.83	PASS
2456.00†	2450.18	-151.73	-52.13	2447.41	2446.57	91.78	-49.94	162.90	243.54	20.84	12.06	PASS
2556.00†	2549.87	-159.25	-54.51	2547.00	2546.12	93.27	-52.32	162.88	252.56	21.24	12.26	PASS
2656.00†	2649.55	-166.76	-56.88	2646.59	2645.67	94.77	-54.71	162.86	261.57	21.69	12.43	PASS
2756.00†	2749.24	-174.28	-59.26	2746.18	2745.23	96.27	-57.10	162.84	270.58	22.18	12.57	PASS
2856.00†	2848.93	-181.79	-61.63	2845.78	2844.78	97.76	-59.48	162.82	279.59	22.72	12.67	PASS
2956.00†	2948.62	-189.31	-64.01	2945.37	2944.33	99.26	-61.87	162.81	288.61	23.26	12.75	PASS
3056.00†	3048.31	-196.82	-66.39	3044.96	3043.89	100.76	-64.26	162.79	297.62	23.88	12.81	PASS
3156.00†	3148.00	-204.34	-68.76	3144.56	3143.44	102.25	-66.64	162.78	306.63	24.52	12.85	PASS
3256.00†	3247.69	-211.85	-71.14	3244.15	3242.99	103.75	-69.03	162.77	315.65	25.18	12.87	PASS
3356.00†	3347.38	-219.37	-73.52	3343.74	3342.55	105.25	-71.41	162.75	324.66	25.86	12.88	PASS
3456.00†	3447.07	-226.88	-75.89	3443.34	3442.10	106.74	-73.80	162.74	333.67	26.58	12.87	PASS
3556.00†	3546.75	-234.40	-78.27	3542.93	3541.65	108.24	-76.19	162.73	342.68	27.31	12.85	PASS
3656.00†	3646.44	-241.91	-80.65	3642.52	3641.21	109.74	-78.57	162.72	351.70	28.07	12.83	PASS
3756.00†	3746.13	-249.43	-83.02	3742.11	3740.76	111.23	-80.96	162.71	360.71	28.84	12.80	PASS
3856.00†	3845.82	-256.94	-85.40	3841.71	3840.31	112.73	-83.34	162.70	369.72	29.63	12.76	PASS
3956.00†	3945.51	-264.46	-87.77	3941.30	3939.87	114.23	-85.73	162.69	378.74	30.44	12.71	PASS
4056.00†	4045.20	-271.98	-90.15	4040.89	4039.42	115.73	-88.12	162.68	387.75	31.26	12.67	PASS
4156.00†	4144.89	-279.49	-92.53	4140.49	4138.97	117.22	-90.50	162.67	396.76	32.10	12.62	PASS
4256.00†	4244.58	-287.01	-94.90	4240.08	4238.53	118.72	-92.89	162.67	405.78	32.95	12.56	PASS
4356.00†	4344.27	-294.52	-97.28	4339.67	4338.08	120.22	-95.28	162.66	414.79	33.81	12.51	PASS
4456.00†	4443.95	-302.04	-99.66	4439.27	4437.63	121.71	-97.66	162.65	423.80	34.68	12.45	PASS
4556.00†	4543.64	-309.55	-102.03	4538.86	4537.18	123.21	-100.05	162.65	432.81	35.56	12.40	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5C-16-M PWB Offset Wellpath: HARVESTERS STATE 5C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#08 HARVESTERS STATE 5C-16-M (1733°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 5C-16-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	
4656.00†	4643.33	-317.07	-104.41	4638.45	4636.74	124.71	-102.43	162.64	441.83	36.45	12.34	PASS	
4756.00†	4743.02	-324.58	-106.79	4738.04	4736.29	126.20	-104.82	162.63	450.84	37.35	12.28	PASS	
4856.00†	4842.71	-332.10	-109.16	4837.64	4835.84	127.70	-107.21	162.63	459.85	38.26	12.23	PASS	
4956.00†	4942.40	-339.61	-111.54	4937.23	4935.40	129.20	-109.59	162.62	468.87	39.17	12.17	PASS	
5056.00†	5042.09	-347.13	-113.92	5036.82	5034.95	130.69	-111.98	162.61	477.88	40.09	12.12	PASS	
5156.00†	5141.78	-354.64	-116.29	5136.42	5134.50	132.19	-114.36	162.61	486.89	41.02	12.06	PASS	
5256.00†	5241.47	-362.16	-118.67	5236.01	5234.06	133.69	-116.75	162.60	495.91	41.95	12.01	PASS	
5356.00†	5341.15	-369.68	-121.04	5335.60	5333.61	135.18	-119.14	162.60	504.92	42.89	11.95	PASS	
5456.00†	5440.84	-377.19	-123.42	5435.20	5433.16	136.68	-121.52	162.59	513.93	43.83	11.90	PASS	
5556.00†	5540.53	-384.71	-125.80	5534.79	5532.72	138.18	-123.91	162.59	522.94	44.78	11.85	PASS	
5656.00†	5640.22	-392.22	-128.17	5634.38	5632.27	139.67	-126.30	162.58	531.96	45.74	11.80	PASS	
5756.00†	5739.91	-399.74	-130.55	5733.97	5731.82	141.17	-128.68	162.58	540.97	46.69	11.75	PASS	
5856.00†	5839.60	-407.25	-132.93	5833.57	5831.38	142.67	-131.07	162.57	549.98	47.66	11.70	PASS	
5956.00†	5939.29	-414.77	-135.30	5933.16	5930.93	144.16	-133.45	162.57	559.00	48.62	11.65	PASS	
6056.00†	6038.98	-422.28	-137.68	6032.75	6030.48	145.66	-135.84	162.57	568.01	49.59	11.61	PASS	
6156.00†	6138.67	-429.80	-140.06	6132.35	6130.04	147.16	-138.23	162.56	577.02	50.56	11.56	PASS	
6256.00†	6238.35	-437.31	-142.43	6231.94	6229.59	148.65	-140.61	162.56	586.04	51.54	11.52	PASS	
6356.00†	6338.04	-444.83	-144.81	6331.53	6329.14	150.15	-143.00	162.56	595.05	52.52	11.47	PASS	
6412.80	6394.66	-449.10	-146.16	6388.10	6385.69	151.00	-144.35	162.55	600.17	53.07	11.45	PASS	
6456.00†	6437.66	-452.35	-148.63	6431.09	6428.66	151.65	-145.38	129.53	604.07	53.50	11.43	PASS	
6556.00†	6535.83	-459.87	-165.57	6529.51	6527.04	153.13	-147.74	107.76	613.32	54.53	11.38	PASS	
6656.00†	6630.14	-467.23	-197.68	6624.44	6621.93	154.55	-150.02	103.25	623.66	55.56	11.36	PASS	
6756.00†	6718.27	-474.24	-244.19	6728.19	6725.03	156.04	-160.49	102.88	635.85	56.70	11.34	PASS	
6856.00†	6798.05	-480.73	-303.96	6840.11	6832.72	157.45	-190.37	103.70	649.14	58.13	11.29	PASS	
6956.00†	6867.52	-486.55	-375.51	6961.31	6941.50	158.70	-243.41	105.00	662.78	59.80	11.20	PASS	
7056.00†	6924.96	-491.55	-457.09	7092.94	7045.91	159.68	-323.15	106.43	675.77	61.99	11.02	PASS	
7156.00†	6968.96	-495.60	-546.68	7235.35	7137.83	160.26	-431.55	107.77	686.96	65.09	10.66	PASS	
7256.00†	6998.45	-498.60	-642.08	7387.52	7206.85	160.28	-566.75	108.79	695.15	69.39	10.11	PASS	
7356.00†	7012.68	-500.49	-740.94	7546.47	7242.64	159.64	-721.20	109.32	699.32	74.91	9.41	PASS	
7401.17	7014.00	-500.97	-786.08	7617.26	7245.99	159.15	-791.87	109.36	699.72	77.71	9.08	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5C-16-M PWB Offset Wellpath: HARVESTERS STATE 5C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#08 HARVESTERS STATE 5C-16-M (1733°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 5C-16-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	
7456.00†	7013.67	-501.39	-840.91	7672.09	7245.82	158.73	-846.70	109.38	699.78	80.59	8.75	PASS	
7556.00†	7013.06	-502.18	-940.90	7772.09	7245.51	157.97	-946.69	109.40	699.90	86.23	8.18	PASS	
7656.00†	7012.44	-502.96	-1040.90	7872.09	7245.19	157.20	-1046.69	109.42	700.01	92.36	7.63	PASS	
7756.00†	7011.83	-503.74	-1140.89	7972.09	7244.88	156.43	-1146.69	109.44	700.12	98.87	7.12	PASS	
7856.00†	7011.22	-504.52	-1240.89	8072.09	7244.57	155.66	-1246.68	109.47	700.24	105.71	6.66	PASS	
7956.00†	7010.61	-505.31	-1340.88	8172.09	7244.26	154.90	-1346.68	109.49	700.35	112.81	6.24	PASS	
8056.00†	7010.00	-506.09	-1440.88	8272.09	7243.95	154.13	-1446.67	109.51	700.46	120.12	5.86	PASS	
8156.00†	7009.39	-506.87	-1540.87	8372.09	7243.63	153.36	-1546.67	109.53	700.58	127.60	5.52	PASS	
8256.00†	7008.78	-507.65	-1640.87	8472.09	7243.32	152.59	-1646.67	109.56	700.69	135.24	5.20	PASS	
8356.00†	7008.17	-508.43	-1740.86	8572.08	7243.01	151.82	-1746.66	109.58	700.80	142.99	4.92	PASS	
8456.00†	7007.56	-509.22	-1840.86	8672.08	7242.70	151.06	-1846.66	109.60	700.92	150.84	4.66	PASS	
8556.00†	7006.95	-510.00	-1940.85	8772.08	7242.39	150.29	-1946.65	109.62	701.03	158.79	4.43	PASS	
8656.00†	7006.34	-510.78	-2040.85	8872.08	7242.08	149.52	-2046.65	109.65	701.15	166.81	4.22	PASS	
8756.00†	7005.73	-511.56	-2140.84	8972.08	7241.76	148.75	-2146.65	109.67	701.26	174.89	4.02	PASS	
8856.00†	7005.12	-512.35	-2240.84	9072.08	7241.45	147.99	-2246.64	109.69	701.37	183.02	3.84	PASS	
8956.00†	7004.51	-513.13	-2340.83	9172.08	7241.14	147.22	-2346.64	109.71	701.49	191.21	3.68	PASS	
9056.00†	7003.90	-513.91	-2440.83	9272.08	7240.83	146.45	-2446.64	109.74	701.60	199.43	3.53	PASS	
9156.00†	7003.29	-514.69	-2540.82	9372.08	7240.52	145.68	-2546.63	109.76	701.72	207.69	3.39	PASS	
9256.00†	7002.68	-515.47	-2640.82	9472.08	7240.20	144.92	-2646.63	109.78	701.83	215.98	3.26	PASS	
9356.00†	7002.07	-516.26	-2740.81	9572.08	7239.89	144.15	-2746.62	109.80	701.95	224.30	3.14	PASS	
9456.00†	7001.46	-517.04	-2840.81	9672.08	7239.58	143.38	-2846.62	109.83	702.06	232.65	3.02	PASS	
9556.00†	7000.85	-517.82	-2940.80	9772.08	7239.27	142.61	-2946.62	109.85	702.18	241.01	2.92	PASS	
9656.00†	7000.24	-518.60	-3040.80	9872.08	7238.96	141.85	-3046.61	109.87	702.29	249.40	2.82	PASS	
9756.00†	6999.63	-519.39	-3140.79	9972.08	7238.64	141.08	-3146.61	109.89	702.41	257.80	2.73	PASS	
9856.00†	6999.02	-520.17	-3240.79	10072.08	7238.33	140.31	-3246.60	109.92	702.52	266.22	2.64	PASS	
9956.00†	6998.41	-520.95	-3340.78	10172.08	7238.02	139.54	-3346.60	109.94	702.64	274.65	2.56	PASS	
10056.00†	6997.80	-521.73	-3440.78	10272.08	7237.71	138.78	-3446.60	109.96	702.75	283.09	2.49	PASS	
10156.00†	6997.19	-522.52	-3540.77	10372.08	7237.40	138.01	-3546.59	109.98	702.87	291.55	2.41	PASS	
10256.00†	6996.58	-523.30	-3640.77	10472.08	7237.08	137.24	-3646.59	110.01	702.99	300.01	2.35	PASS	
10356.00†	6995.97	-524.08	-3740.76	10572.08	7236.77	136.47	-3746.58	110.03	703.10	308.49	2.28	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5C-16-M PWB Offset Wellpath: HARVESTERS STATE 5C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#08 HARVESTERS STATE 5C-16-M (1733°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 5C-16-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	
10456.00†	6995.36	-524.86	-3840.76	10672.08	7236.46	135.71	-3846.58	110.09	703.22	316.97	2.22	PASS	
10556.00†	6994.75	-525.64	-3940.75	10772.08	7236.15	134.94	-3946.58	110.07	703.33	325.46	2.16	PASS	
10656.00†	6994.14	-526.43	-4040.75	10872.07	7235.84	134.17	-4046.57	110.10	703.45	333.95	2.11	PASS	
10756.00†	6993.53	-527.21	-4140.74	10972.07	7235.52	133.40	-4146.57	110.12	703.57	342.45	2.06	PASS	
10856.00†	6992.92	-527.99	-4240.74	11072.07	7235.21	132.64	-4246.57	110.14	703.68	350.96	2.01	PASS	
10956.00†	6992.31	-528.77	-4340.73	11172.07	7234.90	131.87	-4346.56	110.16	703.80	359.47	1.96	PASS	
11056.00†	6991.70	-529.56	-4440.73	11272.07	7234.59	131.10	-4446.56	110.19	703.92	367.98	1.91	PASS	
11156.00†	6991.09	-530.34	-4540.72	11372.07	7234.28	130.33	-4546.55	110.21	704.03	376.50	1.87	PASS	
11256.00†	6990.47	-531.12	-4640.72	11472.07	7233.96	129.57	-4646.55	110.23	704.15	385.02	1.83	PASS	
11356.00†	6989.86	-531.90	-4740.71	11572.07	7233.65	128.80	-4746.55	110.25	704.27	393.55	1.79	PASS	
11456.00†	6989.25	-532.68	-4840.71	11672.07	7233.34	128.03	-4846.54	110.28	704.38	402.07	1.75	PASS	
11556.00†	6988.64	-533.47	-4940.70	11772.07	7233.03	127.26	-4946.54	110.30	704.50	410.60	1.72	PASS	
11656.00†	6988.03	-534.25	-5040.70	11872.07	7232.72	126.50	-5046.53	110.32	704.62	419.13	1.68	PASS	
11756.00†	6987.42	-535.03	-5140.69	11972.07	7232.40	125.73	-5146.53	110.34	704.74	427.66	1.65	PASS	
11856.00†	6986.81	-535.81	-5240.69	12072.07	7232.09	124.96	-5246.53	110.36	704.85	436.20	1.62	PASS	
11956.00†	6986.20	-536.60	-5340.68	12172.07	7231.78	124.19	-5346.52	110.39	704.97	444.73	1.59	PASS	
12056.00†	6985.59	-537.38	-5440.68	12272.07	7231.47	123.43	-5446.52	110.41	705.09	453.27	1.56	PASS	
12156.00†	6984.98	-538.16	-5540.67	12372.07	7231.16	122.66	-5546.51	110.43	705.21	461.81	1.53	PASS	
12256.00†	6984.37	-538.94	-5640.67	12472.07	7230.84	121.89	-5646.51	110.45	705.33	470.34	1.50	PASS	
12356.00†	6983.76	-539.73	-5740.66	12572.07	7230.53	121.12	-5746.51	110.48	705.44	478.88	1.47	PASS	
12456.00†	6983.15	-540.51	-5840.66	12672.07	7230.22	120.36	-5846.50	110.50	705.56	487.42	1.45	PASS	
12556.00†	6982.54	-541.29	-5940.66	12772.07	7229.91	119.59	-5946.50	110.52	705.68	495.96	1.42	PASS	
12656.00†	6981.93	-542.07	-6040.65	12872.07	7229.60	118.82	-6046.50	110.54	705.80	504.50	1.40	PASS	
12756.00†	6981.32	-542.85	-6140.65	12972.07	7229.28	118.05	-6146.49	110.57	705.92	513.04	1.38	PASS	
12856.00†	6980.71	-543.64	-6240.64	13072.06	7228.97	117.29	-6246.49	110.59	706.04	521.57	1.35	PASS	
12956.00†	6980.10	-544.42	-6340.64	13172.06	7228.66	116.52	-6346.48	110.61	706.15	530.11	1.33	PASS	
13056.00†	6979.49	-545.20	-6440.63	13272.06	7228.35	115.75	-6446.48	110.63	706.27	538.65	1.31	PASS	
13156.00†	6978.88	-545.98	-6540.63	13372.06	7228.04	114.98	-6546.48	110.65	706.39	547.19	1.29	PASS	
13256.00†	6978.27	-546.77	-6640.62	13472.06	7227.73	114.22	-6646.47	110.68	706.51	555.72	1.27	PASS	
13356.00†	6977.66	-547.55	-6740.62	13572.06	7227.41	113.45	-6746.47	110.70	706.63	564.26	1.25	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5C-16-M PWB Offset Wellpath: HARVESTERS STATE 5C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#08 HARVESTERS STATE 5C-16-M (1733'FNL & 2334'FEL, SEC.15) Well: HARVESTERS STATE 5C-16-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	
13456.00†	6977.05	-548.33	-6840.61	13672.06	7227.10	112.68	-6846.46	110.72	706.75	572.80	1.23	PASS	
13556.00†	6976.44	-549.11	-6940.61	13772.06	7226.79	111.91	-6946.46	110.74	706.87	581.33	1.22	PASS	
13656.00†	6975.83	-549.89	-7040.60	13872.06	7226.48	111.15	-7046.46	110.77	706.99	589.86	1.20	PASS	
13756.00†	6975.22	-550.68	-7140.60	13972.06	7226.17	110.38	-7146.45	110.79	707.11	598.40	1.18	PASS	
13856.00†	6974.61	-551.46	-7240.59	14072.06	7225.85	109.61	-7246.45	110.81	707.23	606.93	1.17	PASS	
13956.00†	6974.00	-552.24	-7340.59	14172.06	7225.54	108.84	-7346.45	110.83	707.35	615.46	1.15	PASS	
14056.00†	6973.39	-553.02	-7440.58	14272.06	7225.23	108.08	-7446.44	110.85	707.47	623.99	1.13	PASS	
14156.00†	6972.78	-553.81	-7540.58	14372.06	7224.92	107.31	-7546.44	110.88	707.59	632.51	1.12	PASS	
14256.00†	6972.17	-554.59	-7640.57	14472.06	7224.61	106.54	-7646.43	110.90	707.71	641.04	1.10	PASS	
14356.00†	6971.56	-555.37	-7740.57	14572.06	7224.29	105.77	-7746.43	110.92	707.83	649.57	1.09	PASS	
14456.00†	6970.95	-556.15	-7840.56	14672.06	7223.98	105.01	-7846.43	110.94	707.95	658.09	1.08	PASS	
14556.00†	6970.34	-556.94	-7940.56	14772.06	7223.67	104.24	-7946.42	110.96	708.07	666.61	1.06	PASS	
14656.00†	6969.73	-557.72	-8040.55	14872.06	7223.36	103.47	-8046.42	110.99	708.19	675.13	1.05	PASS	
14756.00†	6969.12	-558.50	-8140.55	14972.06	7223.05	102.70	-8146.41	111.01	708.31	683.65	1.04	PASS	
14774.85	6969.00	-558.65	-8159.39	14986.76	7223.00	102.59	-8161.12	111.01	708.35	685.06	1.03	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 5C-16-M PWB Offset Wellpath: HARVESTERS STATE 5C-16-M 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: HARVESTERS STATE 5C-16-M PWB Offset Wellpath: HARVESTERS STATE 5C-16-M 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	4.00	1750.00	1746.00	4.00	1749.44	36.64	0.33	43.10	-9.96
9.625in Casing Surface	4.00	1750.00	1746.00	4.00	1749.44	36.64	0.33	43.10	-9.96
8.5in Open Hole	1750.00	14986.76	13236.76	1749.44	7223.00	43.10	-9.96	49.59	-2487.34



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HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 5C-16-M PWB    Offset Wellpath: HARVESTERS STATE 5C-16-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 5C-16-M PWB
1750.00	14986.76	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 5C-16-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 5C-16-M PWB    Offset Wellpath: HARVESTERS STATE 5C-16-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32C-16-M PWB Offset Wellpath: HARVESTERS STATE 32C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#14 HARVESTERS STATE 32C-16-M (1913°FNL & 2335°FEL, SEC.15) Well: HARVESTERS STATE 32C-16-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	
1756.00†	1752.35	-99.25	-35.49	1729.90	1714.44	-330.16	-30.55	-21.02	234.05	20.27	12.07	PASS	
1783.09	1779.36	-101.16	-36.14	1756.88	1741.05	-334.54	-31.17	-18.58	236.55	20.16	12.13	PASS	
1856.00†	1852.04	-106.64	-37.87	1829.51	1812.70	-346.33	-32.84	-18.57	242.95	20.30	12.36	PASS	
1956.00†	1951.73	-114.15	-40.25	1929.12	1910.96	-362.51	-35.13	-18.55	251.73	20.38	12.76	PASS	
2056.00†	2051.42	-121.67	-42.62	2028.73	2009.23	-378.69	-37.41	-18.53	260.51	20.52	13.11	PASS	
2156.00†	2151.11	-129.18	-45.00	2128.35	2107.49	-394.87	-39.70	-18.51	269.29	20.71	13.43	PASS	
2256.00†	2250.80	-136.70	-47.38	2227.96	2205.75	-411.05	-41.98	-18.49	278.07	20.97	13.69	PASS	
2356.00†	2350.49	-144.21	-49.75	2327.58	2304.02	-427.23	-44.27	-18.48	286.85	21.27	13.92	PASS	
2456.00†	2450.18	-151.73	-52.13	2427.19	2402.28	-443.41	-46.56	-18.46	295.63	21.63	14.10	PASS	
2556.00†	2549.87	-159.25	-54.51	2526.80	2500.55	-459.59	-48.84	-18.45	304.41	22.03	14.24	PASS	
2656.00†	2649.55	-166.76	-56.88	2626.42	2598.81	-475.76	-51.13	-18.43	313.19	22.48	14.35	PASS	
2756.00†	2749.24	-174.28	-59.26	2726.03	2697.08	-491.94	-53.41	-18.42	321.97	22.98	14.43	PASS	
2856.00†	2848.93	-181.79	-61.63	2825.64	2795.34	-508.12	-55.70	-18.41	330.75	23.51	14.47	PASS	
2956.00†	2948.62	-189.31	-64.01	2925.26	2893.61	-524.30	-57.99	-18.40	339.53	24.08	14.50	PASS	
3056.00†	3048.31	-196.82	-66.39	3024.87	2991.87	-540.48	-60.27	-18.39	348.31	24.69	14.50	PASS	
3156.00†	3148.00	-204.34	-68.76	3124.49	3090.14	-556.66	-62.56	-18.38	357.09	25.33	14.48	PASS	
3256.00†	3247.69	-211.85	-71.14	3224.10	3188.40	-572.84	-64.84	-18.37	365.87	26.00	14.44	PASS	
3356.00†	3347.38	-219.37	-73.52	3323.71	3286.66	-589.02	-67.13	-18.36	374.66	26.69	14.39	PASS	
3456.00†	3447.07	-226.88	-75.89	3423.33	3384.93	-605.20	-69.42	-18.35	383.44	27.41	14.33	PASS	
3556.00†	3546.75	-234.40	-78.27	3522.94	3483.19	-621.37	-71.70	-18.34	392.22	28.16	14.26	PASS	
3656.00†	3646.44	-241.91	-80.65	3622.55	3581.46	-637.55	-73.99	-18.33	401.00	28.93	14.19	PASS	
3756.00†	3746.13	-249.43	-83.02	3722.17	3679.72	-653.73	-76.27	-18.32	409.78	29.71	14.10	PASS	
3856.00†	3845.82	-256.94	-85.40	3821.78	3777.99	-669.91	-78.56	-18.32	418.56	30.52	14.02	PASS	
3956.00†	3945.51	-264.46	-87.77	3921.40	3876.25	-686.09	-80.85	-18.31	427.34	31.34	13.93	PASS	
4056.00†	4045.20	-271.98	-90.15	4021.01	3974.52	-702.27	-83.13	-18.30	436.12	32.18	13.84	PASS	
4156.00†	4144.89	-279.49	-92.53	4120.62	4072.78	-718.45	-85.42	-18.30	444.90	33.03	13.74	PASS	
4256.00†	4244.58	-287.01	-94.90	4220.24	4171.05	-734.63	-87.70	-18.29	453.68	33.89	13.65	PASS	
4356.00†	4344.27	-294.52	-97.28	4319.85	4269.31	-750.81	-89.99	-18.28	462.46	34.77	13.56	PASS	
4456.00†	4443.95	-302.04	-99.66	4419.46	4367.57	-766.98	-92.28	-18.28	471.24	35.66	13.46	PASS	
4556.00†	4543.64	-309.55	-102.03	4519.08	4465.84	-783.16	-94.56	-18.27	480.02	36.56	13.37	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32C-16-M PWB Offset Wellpath: HARVESTERS STATE 32C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#14 HARVESTERS STATE 32C-16-M (1913°FNL & 2335°FEL, SEC.15) Well: HARVESTERS STATE 32C-16-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	
4656.00†	4643.33	-317.07	-104.41	4618.69	4564.10	-799.34	-96.85	-18.27	488.80	37.47	13.28	PASS	
4756.00†	4743.02	-324.58	-106.79	4718.31	4662.37	-815.52	-99.13	-18.26	497.58	38.39	13.19	PASS	
4856.00†	4842.71	-332.10	-109.16	4817.92	4760.63	-831.70	-101.42	-18.26	506.36	39.31	13.10	PASS	
4956.00†	4942.40	-339.61	-111.54	4917.53	4858.90	-847.88	-103.71	-18.25	515.14	40.24	13.01	PASS	
5056.00†	5042.09	-347.13	-113.92	5017.15	4957.16	-864.06	-105.99	-18.25	523.92	41.19	12.93	PASS	
5156.00†	5141.78	-354.64	-116.29	5116.76	5055.43	-880.24	-108.28	-18.24	532.70	42.13	12.84	PASS	
5256.00†	5241.47	-362.16	-118.67	5216.38	5153.69	-896.42	-110.56	-18.24	541.48	43.09	12.76	PASS	
5356.00†	5341.15	-369.68	-121.04	5315.99	5251.96	-912.59	-112.85	-18.23	550.26	44.05	12.68	PASS	
5456.00†	5440.84	-377.19	-123.42	5415.60	5350.22	-928.77	-115.14	-18.23	559.04	45.01	12.60	PASS	
5556.00†	5540.53	-384.71	-125.80	5515.22	5448.48	-944.95	-117.42	-18.23	567.82	45.98	12.53	PASS	
5656.00†	5640.22	-392.22	-128.17	5614.83	5546.75	-961.13	-119.71	-18.22	576.60	46.96	12.45	PASS	
5756.00†	5739.91	-399.74	-130.55	5714.44	5645.01	-977.31	-121.99	-18.22	585.38	47.94	12.38	PASS	
5856.00†	5839.60	-407.25	-132.93	5814.06	5743.28	-993.49	-124.28	-18.21	594.16	48.92	12.31	PASS	
5956.00†	5939.29	-414.77	-135.30	5913.67	5841.54	-1009.67	-126.57	-18.21	602.94	49.91	12.24	PASS	
6056.00†	6038.98	-422.28	-137.68	6013.29	5939.81	-1025.85	-128.85	-18.21	611.72	50.90	12.17	PASS	
6156.00†	6138.67	-429.80	-140.06	6112.90	6038.07	-1042.03	-131.14	-18.20	620.50	51.90	12.11	PASS	
6256.00†	6238.35	-437.31	-142.43	6212.51	6136.34	-1058.20	-133.42	-18.20	629.28	52.90	12.04	PASS	
6356.00†	6338.04	-444.83	-144.81	6312.13	6234.60	-1074.38	-135.71	-18.20	638.06	53.90	11.98	PASS	
6412.80	6394.66	-449.10	-146.16	6368.71	6290.41	-1083.57	-137.01	-18.20	643.05	54.47	11.95	PASS	
6456.00†	6437.66	-452.35	-148.65	6411.71	6332.83	-1090.56	-137.99	-50.79	646.85	54.91	11.92	PASS	
6556.00†	6535.83	-459.87	-165.57	6510.15	6429.95	-1106.55	-140.25	-73.51	655.77	55.97	11.85	PASS	
6656.00†	6630.14	-467.23	-197.68	6605.12	6523.62	-1121.97	-142.43	-81.24	665.64	57.15	11.78	PASS	
6756.00†	6718.27	-474.24	-244.19	6694.26	6611.56	-1136.45	-144.48	-86.21	678.12	58.32	11.76	PASS	
6856.00†	6798.05	-480.73	-303.96	6793.53	6709.19	-1152.55	-151.35	-90.67	694.64	59.85	11.73	PASS	
6956.00†	6867.52	-486.55	-375.51	6910.22	6820.99	-1171.12	-178.47	-94.81	713.88	62.05	11.63	PASS	
7056.00†	6924.96	-491.55	-457.09	7045.17	6941.59	-1191.34	-234.93	-98.68	734.40	64.56	11.49	PASS	
7156.00†	6968.96	-495.60	-546.68	7203.96	7064.64	-1212.24	-332.45	-102.29	754.07	67.18	11.33	PASS	
7256.00†	6998.45	-498.60	-642.08	7390.63	7173.53	-1231.15	-482.05	-105.33	770.00	70.42	11.04	PASS	
7356.00†	7012.68	-500.49	-740.94	7602.22	7239.37	-1243.32	-681.74	-107.15	778.90	75.11	10.46	PASS	
7401.17	7014.00	-500.97	-786.08	7702.38	7247.01	-1245.25	-781.49	-107.38	779.92	77.84	10.10	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32C-16-M PWB Offset Wellpath: HARVESTERS STATE 32C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#14 HARVESTERS STATE 32C-16-M (1913°FNL & 2335°FEL, SEC.15) Well: HARVESTERS STATE 32C-16-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	
7456.00†	7013.67	-501.39	-840.91	7758.68	7246.72	-1245.58	-837.79	-107.39	779.83	81.01	9.70	PASS	
7556.00†	7013.06	-502.18	-940.90	7858.68	7246.19	-1246.16	-937.79	-107.40	779.67	86.25	9.11	PASS	
7656.00†	7012.44	-502.96	-1040.90	7958.68	7245.66	-1246.75	-1037.78	-107.41	779.50	92.34	8.50	PASS	
7756.00†	7011.83	-503.74	-1140.89	8058.68	7245.13	-1247.33	-1137.78	-107.42	779.34	98.84	7.93	PASS	
7856.00†	7011.22	-504.52	-1240.89	8158.68	7244.60	-1247.92	-1237.78	-107.43	779.17	105.68	7.42	PASS	
7956.00†	7010.61	-505.31	-1340.88	8258.68	7244.07	-1248.50	-1337.77	-107.44	779.01	112.79	6.94	PASS	
8056.00†	7010.00	-506.09	-1440.88	8358.68	7243.54	-1249.09	-1437.77	-107.45	778.84	120.14	6.52	PASS	
8156.00†	7009.39	-506.87	-1540.87	8458.68	7243.02	-1249.67	-1537.77	-107.46	778.68	127.68	6.13	PASS	
8256.00†	7008.78	-507.65	-1640.87	8558.68	7242.49	-1250.25	-1637.76	-107.47	778.51	135.37	5.78	PASS	
8356.00†	7008.17	-508.43	-1740.86	8658.68	7241.96	-1250.84	-1737.76	-107.48	778.35	143.19	5.46	PASS	
8456.00†	7007.56	-509.22	-1840.86	8758.68	7241.43	-1251.42	-1837.76	-107.49	778.19	151.13	5.17	PASS	
8556.00†	7006.95	-510.00	-1940.85	8858.68	7240.90	-1252.01	-1937.75	-107.50	778.02	159.15	4.91	PASS	
8656.00†	7006.34	-510.78	-2040.85	8958.68	7240.37	-1252.59	-2037.75	-107.51	777.86	167.26	4.67	PASS	
8756.00†	7005.73	-511.56	-2140.84	9058.68	7239.84	-1253.18	-2137.75	-107.52	777.69	175.44	4.45	PASS	
8856.00†	7005.12	-512.35	-2240.84	9158.68	7239.32	-1253.76	-2237.74	-107.53	777.53	183.67	4.25	PASS	
8956.00†	7004.51	-513.13	-2340.83	9258.68	7238.79	-1254.34	-2337.74	-107.54	777.37	191.96	4.06	PASS	
9056.00†	7003.90	-513.91	-2440.83	9358.68	7238.26	-1254.93	-2437.74	-107.55	777.20	200.29	3.89	PASS	
9156.00†	7003.29	-514.69	-2540.82	9458.68	7237.73	-1255.51	-2537.73	-107.56	777.04	208.66	3.73	PASS	
9256.00†	7002.68	-515.47	-2640.82	9558.68	7237.20	-1256.10	-2637.73	-107.57	776.87	217.07	3.59	PASS	
9356.00†	7002.07	-516.26	-2740.81	9658.68	7236.67	-1256.68	-2737.73	-107.58	776.71	225.51	3.45	PASS	
9456.00†	7001.46	-517.04	-2840.81	9758.68	7236.14	-1257.27	-2837.72	-107.59	776.55	233.97	3.33	PASS	
9556.00†	7000.85	-517.82	-2940.80	9858.68	7235.61	-1257.85	-2937.72	-107.60	776.38	242.46	3.21	PASS	
9656.00†	7000.24	-518.60	-3040.80	9958.68	7235.09	-1258.44	-3037.72	-107.61	776.22	250.97	3.10	PASS	
9756.00†	6999.63	-519.39	-3140.79	10058.68	7234.56	-1259.02	-3137.71	-107.62	776.05	259.50	3.00	PASS	
9856.00†	6999.02	-520.17	-3240.79	10158.68	7234.03	-1259.60	-3237.71	-107.63	775.89	268.05	2.90	PASS	
9956.00†	6998.41	-520.95	-3340.78	10258.68	7233.50	-1260.19	-3337.71	-107.64	775.73	276.61	2.81	PASS	
10056.00†	6997.80	-521.73	-3440.78	10358.68	7232.97	-1260.77	-3437.70	-107.65	775.56	285.19	2.72	PASS	
10156.00†	6997.19	-522.52	-3540.77	10458.68	7232.44	-1261.36	-3537.70	-107.66	775.40	293.78	2.64	PASS	
10256.00†	6996.58	-523.30	-3640.77	10558.68	7231.91	-1261.94	-3637.70	-107.67	775.23	302.38	2.57	PASS	
10356.00†	6995.97	-524.08	-3740.76	10658.68	7231.39	-1262.53	-3737.69	-107.68	775.07	310.99	2.50	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32C-16-M PWB Offset Wellpath: HARVESTERS STATE 32C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W				Slot: SLOT#14 HARVESTERS STATE 32C-16-M (1913°FNL & 2335°FEL, SEC.15)				Well: HARVESTERS STATE 32C-16-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			
10456.00†	6995.36	-524.86	-3840.76	10758.68	7230.86	-1263.11	-3837.69	-107.69	774.91	319.62	2.43	PASS			
10556.00†	6994.75	-525.64	-3940.75	10858.68	7230.33	-1263.69	-3937.69	-107.70	774.74	328.25	2.36	PASS			
10656.00†	6994.14	-526.43	-4040.75	10958.68	7229.80	-1264.28	-4037.68	-107.71	774.58	336.89	2.30	PASS			
10756.00†	6993.53	-527.21	-4140.74	11058.67	7229.27	-1264.86	-4137.68	-107.72	774.42	345.54	2.24	PASS			
10856.00†	6992.92	-527.99	-4240.74	11158.67	7228.74	-1265.45	-4237.68	-107.73	774.25	354.19	2.19	PASS			
10956.00†	6992.31	-528.77	-4340.73	11258.67	7228.21	-1266.03	-4337.67	-107.74	774.09	362.85	2.14	PASS			
11056.00†	6991.70	-529.56	-4440.73	11358.67	7227.68	-1266.62	-4437.67	-107.76	773.92	371.52	2.09	PASS			
11156.00†	6991.09	-530.34	-4540.72	11458.67	7227.16	-1267.20	-4537.67	-107.77	773.76	380.19	2.04	PASS			
11256.00†	6990.47	-531.12	-4640.72	11558.67	7226.63	-1267.79	-4637.66	-107.78	773.60	388.87	1.99	PASS			
11356.00†	6989.86	-531.90	-4740.71	11658.67	7226.10	-1268.37	-4737.66	-107.79	773.43	397.55	1.95	PASS			
11456.00†	6989.25	-532.68	-4840.71	11758.67	7225.57	-1268.95	-4837.66	-107.80	773.27	406.24	1.91	PASS			
11556.00†	6988.64	-533.47	-4940.70	11858.67	7225.04	-1269.54	-4937.65	-107.81	773.11	414.92	1.86	PASS			
11656.00†	6988.03	-534.25	-5040.70	11958.67	7224.51	-1270.12	-5037.65	-107.82	772.94	423.62	1.83	PASS			
11756.00†	6987.42	-535.03	-5140.69	12058.67	7223.98	-1270.71	-5137.65	-107.83	772.78	432.31	1.79	PASS			
11856.00†	6986.81	-535.81	-5240.69	12158.67	7223.46	-1271.29	-5237.64	-107.84	772.62	441.01	1.75	PASS			
11956.00†	6986.20	-536.60	-5340.68	12258.67	7222.93	-1271.88	-5337.64	-107.85	772.45	449.72	1.72	PASS			
12056.00†	6985.59	-537.38	-5440.68	12358.67	7222.40	-1272.46	-5437.64	-107.86	772.29	458.42	1.69	PASS			
12156.00†	6984.98	-538.16	-5540.67	12458.67	7221.87	-1273.04	-5537.63	-107.87	772.13	467.13	1.65	PASS			
12256.00†	6984.37	-538.94	-5640.67	12558.67	7221.34	-1273.63	-5637.63	-107.88	771.96	475.84	1.62	PASS			
12356.00†	6983.76	-539.73	-5740.66	12658.67	7220.81	-1274.21	-5737.63	-107.89	771.80	484.55	1.59	PASS			
12456.00†	6983.15	-540.51	-5840.66	12758.67	7220.28	-1274.80	-5837.62	-107.90	771.64	493.26	1.57	PASS			
12556.00†	6982.54	-541.29	-5940.66	12858.67	7219.75	-1275.38	-5937.62	-107.91	771.47	501.97	1.54	PASS			
12656.00†	6981.93	-542.07	-6040.65	12958.67	7219.23	-1275.97	-6037.62	-107.92	771.31	510.69	1.51	PASS			
12756.00†	6981.32	-542.85	-6140.65	13058.67	7218.70	-1276.55	-6137.61	-107.93	771.15	519.41	1.49	PASS			
12856.00†	6980.71	-543.64	-6240.64	13158.67	7218.17	-1277.13	-6237.61	-107.94	770.98	528.13	1.46	PASS			
12956.00†	6980.10	-544.42	-6340.64	13258.67	7217.64	-1277.72	-6337.61	-107.95	770.82	536.85	1.44	PASS			
13056.00†	6979.49	-545.20	-6440.63	13358.67	7217.11	-1278.30	-6437.60	-107.96	770.66	545.57	1.41	PASS			
13156.00†	6978.88	-545.98	-6540.63	13458.67	7216.58	-1278.89	-6537.60	-107.97	770.49	554.29	1.39	PASS			
13256.00†	6978.27	-546.77	-6640.62	13558.67	7216.05	-1279.47	-6637.60	-107.98	770.33	563.01	1.37	PASS			
13356.00†	6977.66	-547.55	-6740.62	13658.67	7215.53	-1280.06	-6737.59	-107.99	770.17	571.74	1.35	PASS			

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32C-16-M PWB Offset Wellpath: HARVESTERS STATE 32C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#14 HARVESTERS STATE 32C-16-M (1913°FNL & 2335°FEL, SEC.15) Well: HARVESTERS STATE 32C-16-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	
13456.00†	6977.05	-548.33	-6840.61	13758.67	7215.00	-1280.64	-6837.59	-108.00	770.01	580.46	1.33	PASS	
13556.00†	6976.44	-549.11	-6940.61	13858.67	7214.47	-1281.23	-6937.59	-108.01	769.84	589.19	1.31	PASS	
13656.00†	6975.83	-549.89	-7040.60	13958.67	7213.94	-1281.81	-7037.58	-108.02	769.68	597.91	1.29	PASS	
13756.00†	6975.22	-550.68	-7140.60	14058.67	7213.41	-1282.39	-7137.58	-108.03	769.52	606.64	1.27	PASS	
13856.00†	6974.61	-551.46	-7240.59	14158.67	7212.88	-1282.98	-7237.58	-108.04	769.35	615.37	1.25	PASS	
13956.00†	6974.00	-552.24	-7340.59	14258.67	7212.35	-1283.56	-7337.57	-108.05	769.19	624.09	1.23	PASS	
14056.00†	6973.39	-553.02	-7440.58	14358.67	7211.82	-1284.15	-7437.57	-108.06	769.03	632.82	1.22	PASS	
14156.00†	6972.78	-553.81	-7540.58	14458.67	7211.30	-1284.73	-7537.57	-108.07	768.86	641.55	1.20	PASS	
14256.00†	6972.17	-554.59	-7640.57	14558.67	7210.77	-1285.32	-7637.56	-108.08	768.70	650.28	1.18	PASS	
14356.00†	6971.56	-555.37	-7740.57	14658.67	7210.24	-1285.90	-7737.56	-108.09	768.54	659.00	1.17	PASS	
14456.00†	6970.95	-556.15	-7840.56	14758.67	7209.71	-1286.48	-7837.56	-108.11	768.38	667.73	1.15	PASS	
14556.00†	6970.34	-556.94	-7940.56	14858.67	7209.18	-1287.07	-7937.55	-108.12	768.21	676.46	1.14	PASS	
14656.00†	6969.73	-557.72	-8040.55	14958.67	7208.65	-1287.65	-8037.55	-108.13	768.05	685.19	1.12	PASS	
14756.00†	6969.12	-558.50	-8140.55	15058.67	7208.12	-1288.24	-8137.55	-108.14	767.89	693.92	1.11	PASS	
14774.85	6969.00	-558.65	-8159.39	15077.51	7208.02	-1288.35	-8156.39	-108.14	767.86	695.56	1.10	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 32C-16-M PWB Offset Wellpath: HARVESTERS STATE 32C-16-M 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: HARVESTERS STATE 32C-16-M PWB Offset Wellpath: HARVESTERS STATE 32C-16-M 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	4.00	1750.00	1746.00	5.00	1734.27	-73.10	-0.52	-138.18	-9.71
9.625in Casing Surface	4.00	1750.00	1746.00	5.00	1734.27	-73.10	-0.52	-138.18	-9.71
8.5in Open Hole	1750.00	15082.14	13332.14	1734.27	7208.00	-138.18	-9.71	-429.25	-2487.74





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HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 32C-16-M PWB    Offset Wellpath: HARVESTERS STATE 32C-16-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 32C-16-M PWB
1750.00	15082.14	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 32C-16-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 32C-16-M PWB    Offset Wellpath: HARVESTERS STATE 32C-16-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: FRITZLER 17-42-11 AWB Offset Wellpath: FRITZLER 17-42-11 AWP

Facility: SEC.17-T06N-R66W Slot: SLOT#08 EX. FRITZLER 17-42-11 (720°FSL & 612°FEL, NB-CD/PR/7713°TD) Well: FRITZLER 17-42-11 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
1756.00	1752.35	-99.25	-35.49	3466.22	3293.35	-1812.97	-8616.89	59.40	8885.49	54.51	165.92	PASS
1783.09	1779.36	-101.16	-36.14	3481.30	3307.47	-1807.90	-8615.38	61.97	8879.83	54.32	165.62	PASS
1856.00†	1852.04	-106.64	-37.87	3555.64	3377.22	-1783.29	-8607.88	62.16	8864.67	54.45	164.93	PASS
1956.00†	1951.73	-114.15	-40.25	3672.60	3487.12	-1745.23	-8595.55	62.44	8843.70	54.66	163.89	PASS
2056.00†	2051.42	-121.67	-42.62	3904.37	3703.82	-1667.21	-8569.74	63.02	8822.18	55.03	162.39	PASS
2156.00†	2151.11	-129.18	-45.00	4039.53	3828.85	-1618.38	-8553.93	63.38	8799.69	55.32	161.13	PASS
2256.00†	2250.80	-136.70	-47.38	4129.51	3911.80	-1585.17	-8543.34	63.63	8777.15	55.56	160.00	PASS
2356.00†	2350.49	-144.21	-49.75	4199.37	3976.26	-1559.46	-8535.20	63.82	8754.93	55.79	158.93	PASS
2456.00†	2450.18	-151.73	-52.13	4281.02	4051.67	-1529.63	-8525.76	64.05	8733.03	56.05	157.79	PASS
2556.00†	2549.87	-159.25	-54.51	4675.54	4409.23	-1371.10	-8475.72	65.23	8708.77	56.86	155.08	PASS
2656.00†	2649.55	-166.76	-56.88	4725.46	4453.70	-1349.43	-8469.09	65.39	8684.41	57.12	153.92	PASS
2756.00†	2749.24	-174.28	-59.26	4765.76	4489.79	-1332.25	-8463.88	65.52	8660.72	57.38	152.81	PASS
2856.00†	2848.93	-181.79	-61.63	4804.78	4524.90	-1315.93	-8458.96	65.64	8637.72	57.64	151.70	PASS
2956.00†	2948.62	-189.31	-64.01	4835.13	4552.35	-1303.56	-8455.26	65.74	8615.48	57.90	150.64	PASS
3056.00†	3048.31	-196.82	-66.39	4865.93	4580.40	-1291.37	-8451.62	65.83	8594.03	58.16	149.58	PASS
3156.00†	3148.00	-204.34	-68.76	4897.21	4609.06	-1279.36	-8448.06	65.92	8573.38	58.43	148.52	PASS
3256.00†	3247.69	-211.85	-71.14	4957.79	4664.84	-1256.67	-8441.36	66.10	8553.39	58.77	147.31	PASS
3356.00†	3347.38	-219.37	-73.52	5042.31	4742.78	-1225.32	-8432.17	66.34	8533.82	59.16	145.98	PASS
3456.00†	3447.07	-226.88	-75.89	5122.69	4816.74	-1195.09	-8423.39	66.58	8514.35	59.55	144.68	PASS
3556.00†	3546.75	-234.40	-78.27	5165.30	4856.11	-1179.41	-8418.87	66.70	8495.47	59.88	143.57	PASS
3656.00†	3646.44	-241.91	-80.65	5209.06	4896.73	-1163.78	-8414.39	66.83	8477.28	60.21	142.45	PASS
3756.00†	3746.13	-249.43	-83.02	5255.83	4940.33	-1147.49	-8409.77	66.96	8459.75	60.56	141.33	PASS
3856.00†	3845.82	-256.94	-85.40	5302.50	4984.00	-1131.62	-8405.34	67.08	8442.86	60.92	140.22	PASS
3956.00†	3945.51	-264.46	-87.77	5341.92	5021.05	-1118.68	-8401.75	67.19	8426.67	61.26	139.15	PASS
4056.00†	4045.20	-271.98	-90.15	5381.89	5058.85	-1106.13	-8398.28	67.29	8411.20	61.61	138.10	PASS
4156.00†	4144.89	-279.49	-92.53	5419.94	5095.01	-1094.74	-8395.13	67.38	8396.46	61.96	137.07	PASS
4256.00†	4244.58	-287.01	-94.90	5456.50	5129.96	-1084.38	-8392.27	67.47	8382.48	62.31	136.06	PASS
4356.00†	4344.27	-294.52	-97.28	5493.58	5165.59	-1074.50	-8389.55	67.56	8369.27	62.67	135.06	PASS
4456.00†	4443.95	-302.04	-99.66	5534.84	5205.44	-1064.20	-8386.71	67.64	8356.79	63.04	134.06	PASS
4556.00†	4543.64	-309.55	-102.03	5577.39	5246.73	-1054.30	-8383.96	67.73	8345.01	63.41	133.07	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: FRITZLER 17-42-11 AWB Offset Wellpath: FRITZLER 17-42-11 AWP

Facility: SEC.17-T06N-R66W Slot: SLOT#08 EX. FRITZLER 17-42-11 (720°FSL & 612°FEL, NB-CD/PR/7713°TD) Well: FRITZLER 17-42-11 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	
4656.00†	4643.33	-317.07	-104.41	5625.42	5293.55	-1044.01	-8381.06	67.82	8333.92	63.80	132.08	PASS	
4756.00†	4743.02	-324.58	-106.79	5679.65	5346.68	-1033.53	-8377.95	67.92	8323.41	64.20	131.08	PASS	
4856.00†	4842.71	-332.10	-109.16	5746.38	5412.30	-1022.00	-8374.29	68.03	8313.41	64.63	130.04	PASS	
4956.00†	4942.40	-339.61	-111.54	5812.70	5477.64	-1011.21	-8370.78	68.14	8303.77	65.06	129.03	PASS	
5056.00†	5042.09	-347.13	-113.92	5858.84	5523.21	-1004.33	-8368.53	68.21	8294.70	65.45	128.11	PASS	
5156.00†	5141.78	-354.64	-116.29	5911.83	5575.66	-997.23	-8366.21	68.28	8286.28	65.86	127.18	PASS	
5256.00†	5241.47	-362.16	-118.67	6007.49	5670.53	-985.70	-8362.09	68.41	8278.10	66.35	126.10	PASS	
5356.00†	5341.15	-369.68	-121.04	6056.88	5719.60	-980.38	-8360.09	68.47	8270.31	66.75	125.21	PASS	
5456.00†	5440.84	-377.19	-123.42	6108.58	5771.03	-975.37	-8358.26	68.53	8263.13	67.17	124.32	PASS	
5556.00†	5540.53	-384.71	-125.80	6174.31	5836.46	-969.53	-8356.19	68.60	8256.45	67.61	123.41	PASS	
5656.00†	5640.22	-392.22	-128.17	6257.96	5919.78	-962.50	-8353.81	68.69	8250.12	68.08	122.44	PASS	
5756.00†	5739.91	-399.74	-130.55	6334.86	5996.38	-955.96	-8351.71	68.77	8243.95	68.55	121.50	PASS	
5856.00†	5839.60	-407.25	-132.93	6397.56	6058.86	-951.10	-8350.23	68.84	8238.20	69.00	120.63	PASS	
5956.00†	5939.29	-414.77	-135.30	6450.61	6111.77	-947.26	-8349.22	68.89	8232.96	69.43	119.80	PASS	
6056.00†	6038.98	-422.28	-137.68	6503.49	6164.51	-943.50	-8348.50	68.94	8228.31	69.86	118.98	PASS	
6156.00†	6138.67	-429.80	-140.06	6559.20	6220.10	-939.83	-8348.03	69.00	8224.21	70.29	118.18	PASS	
6256.00†	6238.35	-437.31	-142.43	6618.33	6279.13	-936.46	-8347.81	69.05	8220.65	70.73	117.39	PASS	
6356.00†	6338.04	-444.83	-144.81	6686.47	6347.19	-933.19	-8347.80	69.11	8217.53	71.19	116.58	PASS	
6412.80	6394.66	-449.10	-146.16	6745.38	6406.06	-930.86	-8347.89	69.16	8215.88	71.48	116.08	PASS	
6456.00†	6437.66	-452.35	-148.65	6798.39	6459.04	-929.15	-8347.89	36.37	8213.12	71.72	115.64	PASS	
6556.00†	6535.83	-459.87	-165.57	6902.48	6563.09	-926.40	-8347.74	14.09	8195.51	72.53	114.09	PASS	
6656.00†	6630.14	-467.23	-197.68	7026.65	6687.22	-923.45	-8347.27	7.83	8162.56	73.87	111.56	PASS	
6756.00†	6718.27	-474.24	-244.19	7125.57	6786.13	-921.50	-8346.54	4.87	8114.97	75.01	109.21	PASS	
6856.00†	6798.05	-480.73	-303.96	7181.83	6842.37	-920.64	-8346.20	2.98	8054.39	75.92	107.08	PASS	
6956.00†	6867.52	-486.55	-375.51	7252.61	6913.15	-919.86	-8345.88	1.46	7982.27	76.69	105.05	PASS	
7056.00†	6924.96	-491.55	-457.09	7317.74	6978.27	-919.51	-8345.48	-0.16	7900.17	77.27	103.17	PASS	
7156.00†	6968.96	-495.60	-546.68	7361.28	7021.82	-919.23	-8345.20	-2.55	7810.20	77.66	101.48	PASS	
7256.00†	6998.45	-498.60	-642.08	7390.23	7050.77	-918.97	-8345.02	-7.85	7714.58	77.89	99.95	PASS	
7356.00†	7012.68	-500.49	-740.94	7403.04	7063.57	-918.83	-8344.94	-35.84	7615.67	77.98	98.55	PASS	
7401.17	7014.00	-500.97	-786.08	7403.86	7064.39	-918.82	-8344.93	-105.06	7570.57	77.99	97.95	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: FRITZLER 17-42-11 AWB Offset Wellpath: FRITZLER 17-42-11 AWP

Facility: SEC.17-T06N-R66W Slot: SLOT#08 EX. FRITZLER 17-42-11 (720°FSL & 612°FEL, NB-CD/PR/7713°TD) Well: FRITZLER 17-42-11 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	
7456.00†	7013.67	-501.39	-840.91	7403.33	7063.86	-918.83	-8344.94	-104.98	7515.80	77.99	97.24	PASS	
7556.00†	7013.06	-502.18	-940.90	7402.36	7062.89	-918.84	-8344.94	-104.84	7415.92	78.00	95.94	PASS	
7656.00†	7012.44	-502.96	-1040.90	7401.38	7061.91	-918.85	-8344.95	-104.69	7316.05	78.01	94.64	PASS	
7756.00†	7011.83	-503.74	-1140.89	7400.40	7060.93	-918.86	-8344.96	-104.55	7216.18	78.02	93.33	PASS	
7856.00†	7011.22	-504.52	-1240.89	7399.26	7059.79	-918.87	-8344.96	-104.37	7116.32	78.03	92.02	PASS	
7956.00†	7010.61	-505.31	-1340.88	7398.01	7058.54	-918.89	-8344.97	-104.19	7016.45	78.05	90.71	PASS	
8056.00†	7010.00	-506.09	-1440.88	7396.76	7057.30	-918.90	-8344.98	-104.00	6916.59	78.07	89.40	PASS	
8156.00†	7009.39	-506.87	-1540.87	7395.51	7056.05	-918.91	-8344.99	-103.81	6816.74	78.09	88.08	PASS	
8256.00†	7008.78	-507.65	-1640.87	7394.27	7054.80	-918.93	-8344.99	-103.62	6716.89	78.12	86.76	PASS	
8356.00†	7008.17	-508.43	-1740.86	7393.02	7053.55	-918.94	-8345.00	-103.43	6617.04	78.15	85.44	PASS	
8456.00†	7007.56	-509.22	-1840.86	7391.77	7052.30	-918.95	-8345.01	-103.24	6517.20	78.18	84.11	PASS	
8556.00†	7006.95	-510.00	-1940.85	7390.52	7051.05	-918.96	-8345.02	-103.05	6417.36	78.22	82.78	PASS	
8656.00†	7006.34	-510.78	-2040.85	7389.26	7049.80	-918.98	-8345.02	-102.86	6317.53	78.26	81.45	PASS	
8756.00†	7005.73	-511.56	-2140.84	7388.01	7048.55	-918.99	-8345.03	-102.67	6217.70	78.31	80.12	PASS	
8856.00†	7005.12	-512.35	-2240.84	7386.76	7047.29	-919.00	-8345.04	-102.48	6117.88	78.36	78.78	PASS	
8956.00†	7004.51	-513.13	-2340.83	7385.51	7046.04	-919.01	-8345.05	-102.29	6018.06	78.41	77.44	PASS	
9056.00†	7003.90	-513.91	-2440.83	7384.25	7044.78	-919.03	-8345.06	-102.10	5918.25	78.48	76.09	PASS	
9156.00†	7003.29	-514.69	-2540.82	7383.00	7043.53	-919.04	-8345.06	-101.91	5818.45	78.54	74.74	PASS	
9256.00†	7002.68	-515.47	-2640.82	7381.74	7042.27	-919.05	-8345.07	-101.71	5718.65	78.62	73.39	PASS	
9356.00†	7002.07	-516.26	-2740.81	7380.48	7041.02	-919.06	-8345.08	-101.52	5618.86	78.70	72.04	PASS	
9456.00†	7001.46	-517.04	-2840.81	7379.23	7039.76	-919.07	-8345.09	-101.33	5519.08	78.79	70.68	PASS	
9556.00†	7000.85	-517.82	-2940.80	7377.97	7038.50	-919.09	-8345.10	-101.13	5419.30	78.88	69.31	PASS	
9656.00†	7000.24	-518.60	-3040.80	7376.71	7037.24	-919.10	-8345.10	-100.94	5319.53	78.99	67.95	PASS	
9756.00†	6999.63	-519.39	-3140.79	7375.45	7035.98	-919.11	-8345.11	-100.75	5219.77	79.10	66.58	PASS	
9856.00†	6999.02	-520.17	-3240.79	7374.19	7034.72	-919.12	-8345.12	-100.55	5120.02	79.22	65.20	PASS	
9956.00†	6998.41	-520.95	-3340.78	7372.93	7033.46	-919.13	-8345.13	-100.36	5020.28	79.35	63.83	PASS	
10056.00†	6997.80	-521.73	-3440.78	7371.67	7032.20	-919.14	-8345.14	-100.16	4920.55	79.50	62.44	PASS	
10156.00†	6997.19	-522.52	-3540.77	7370.40	7030.94	-919.15	-8345.14	-99.97	4820.83	79.65	61.06	PASS	
10256.00†	6996.58	-523.30	-3640.77	7369.14	7029.68	-919.16	-8345.15	-99.77	4721.13	79.82	59.67	PASS	
10356.00†	6995.97	-524.08	-3740.76	7367.88	7028.41	-919.17	-8345.16	-99.57	4621.43	80.01	58.27	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: FRITZLER 17-42-11 AWB Offset Wellpath: FRITZLER 17-42-11 AWP

Facility: SEC.17-T06N-R66W Slot: SLOT#08 EX. FRITZLER 17-42-11 (720°FSL & 612°FEL, NB-CD/PR/7713°TD) Well: FRITZLER 17-42-11 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
10456.00†	6995.36	-524.86	-3840.76	7366.61	7027.15	-919.18	-8345.17	-99.38	4521.75	80.21	56.87	PASS
10556.00†	6994.75	-525.64	-3940.75	7365.35	7025.88	-919.20	-8345.17	-99.18	4422.08	80.42	55.47	PASS
10656.00†	6994.14	-526.43	-4040.75	7364.08	7024.62	-919.21	-8345.18	-98.98	4322.43	80.66	54.06	PASS
10756.00†	6993.53	-527.21	-4140.74	7362.81	7023.35	-919.22	-8345.19	-98.79	4222.79	80.91	52.64	PASS
10856.00†	6992.92	-527.99	-4240.74	7361.55	7022.08	-919.23	-8345.20	-98.59	4123.17	81.19	51.22	PASS
10956.00†	6992.31	-528.77	-4340.73	7360.28	7020.81	-919.24	-8345.21	-98.39	4023.57	81.50	49.80	PASS
11056.00†	6991.70	-529.56	-4440.73	7359.01	7019.54	-919.25	-8345.22	-98.19	3923.98	81.83	48.36	PASS
11156.00†	6991.09	-530.34	-4540.72	7357.74	7018.27	-919.26	-8345.22	-97.99	3824.42	82.19	46.93	PASS
11256.00†	6990.47	-531.12	-4640.72	7356.47	7017.00	-919.27	-8345.23	-97.79	3724.89	82.58	45.49	PASS
11356.00†	6989.86	-531.90	-4740.71	7355.20	7015.73	-919.28	-8345.24	-97.59	3625.37	83.01	44.04	PASS
11456.00†	6989.25	-532.68	-4840.71	7353.92	7014.46	-919.29	-8345.25	-97.39	3525.89	83.49	42.59	PASS
11556.00†	6988.64	-533.47	-4940.70	7352.65	7013.19	-919.29	-8345.26	-97.19	3426.43	84.00	41.13	PASS
11656.00†	6988.03	-534.25	-5040.70	7351.38	7011.91	-919.30	-8345.26	-96.99	3327.01	84.57	39.66	PASS
11756.00†	6987.42	-535.03	-5140.69	7350.10	7010.64	-919.31	-8345.27	-96.79	3227.62	85.20	38.19	PASS
11856.00†	6986.81	-535.81	-5240.69	7348.83	7009.37	-919.32	-8345.28	-96.59	3128.27	85.88	36.72	PASS
11956.00†	6986.20	-536.60	-5340.68	7347.55	7008.09	-919.33	-8345.29	-96.39	3028.96	86.64	35.24	PASS
12056.00†	6985.59	-537.38	-5440.68	7346.28	7006.81	-919.34	-8345.30	-96.19	2929.70	87.48	33.76	PASS
12156.00†	6984.98	-538.16	-5540.67	7345.00	7005.54	-919.35	-8345.30	-95.99	2830.49	88.41	32.27	PASS
12256.00†	6984.37	-538.94	-5640.67	7343.72	7004.26	-919.36	-8345.31	-95.79	2731.34	89.43	30.78	PASS
12356.00†	6983.76	-539.73	-5740.66	7342.44	7002.98	-919.37	-8345.32	-95.59	2632.25	90.58	29.28	PASS
12456.00†	6983.15	-540.51	-5840.66	7341.16	7001.70	-919.37	-8345.33	-95.38	2533.23	91.85	27.79	PASS
12556.00†	6982.54	-541.29	-5940.66	7339.88	7000.42	-919.38	-8345.34	-95.18	2434.29	93.27	26.29	PASS
12656.00†	6981.93	-542.07	-6040.65	7338.60	6999.14	-919.39	-8345.35	-94.98	2335.44	94.85	24.80	PASS
12756.00†	6981.32	-542.85	-6140.65	7337.32	6997.86	-919.40	-8345.35	-94.77	2236.69	96.63	23.31	PASS
12856.00†	6980.71	-543.64	-6240.64	7336.04	6996.57	-919.41	-8345.36	-94.57	2138.06	98.63	21.83	PASS
12956.00†	6980.10	-544.42	-6340.64	7334.75	6995.29	-919.42	-8345.37	-94.37	2039.56	100.89	20.35	PASS
13056.00†	6979.49	-545.20	-6440.63	7333.47	6994.01	-919.42	-8345.38	-94.16	1941.22	103.44	18.89	PASS
13156.00†	6978.88	-545.98	-6540.63	7332.19	6992.72	-919.43	-8345.39	-93.96	1843.05	106.33	17.44	PASS
13256.00†	6978.27	-546.77	-6640.62	7330.90	6991.44	-919.44	-8345.40	-93.76	1745.08	109.64	16.01	PASS
13356.00†	6977.66	-547.55	-6740.62	7329.61	6990.15	-919.45	-8345.40	-93.55	1647.36	113.41	14.61	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: FRITZLER 17-42-11 AWB Offset Wellpath: FRITZLER 17-42-11 AWP

Facility: SEC.17-T06N-R66W Slot: SLOT#08 EX. FRITZLER 17-42-11 (720°FSL & 612°FEL, NB-CD/PR/7713°TD) Well: FRITZLER 17-42-11 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		
13456.00†	6977.05	-548.33	-6840.61	7328.33	6988.86	-919.45	-8345.41	-93.35	1549.93	117.76	13.24	PASS		
13556.00†	6976.44	-549.11	-6940.61	7327.04	6987.58	-919.46	-8345.42	-93.14	1452.85	122.78	11.90	PASS		
13656.00†	6975.83	-549.89	-7040.60	7325.75	6986.29	-919.47	-8345.43	-92.94	1356.20	128.62	10.60	PASS		
13756.00†	6975.22	-550.68	-7140.60	7324.46	6985.00	-919.47	-8345.44	-92.73	1260.06	135.45	9.35	PASS		
13856.00†	6974.61	-551.46	-7240.59	7323.17	6983.71	-919.48	-8345.44	-92.53	1164.57	143.50	8.15	PASS		
13956.00†	6974.00	-552.24	-7340.59	7321.88	6982.42	-919.49	-8345.45	-92.32	1069.91	153.07	7.02	PASS		
14056.00†	6973.39	-553.02	-7440.58	7320.59	6981.13	-919.50	-8345.46	-92.12	976.30	164.55	5.95	PASS		
14156.00†	6972.78	-553.81	-7540.58	7319.30	6979.83	-919.50	-8345.47	-91.91	884.10	178.44	4.97	PASS		
14256.00†	6972.17	-554.59	-7640.57	7318.00	6978.54	-919.51	-8345.48	-91.70	793.79	195.42	4.07	PASS		
14356.00†	6971.56	-555.37	-7740.57	7316.71	6977.25	-919.51	-8345.49	-91.50	706.09	216.34	3.27	PASS		
14456.00†	6970.95	-556.15	-7840.56	7315.42	6975.95	-919.52	-8345.50	-91.29	622.11	242.25	2.57	PASS		
14556.00†	6970.34	-556.94	-7940.56	7314.12	6974.66	-919.53	-8345.50	-91.09	543.57	274.15	1.99	PASS		
14656.00†	6969.73	-557.72	-8040.55	7312.82	6973.36	-919.53	-8345.51	-90.88	473.21	312.33	1.52	PASS		
14756.00†	6969.12	-558.50	-8140.55	7311.53	6972.07	-919.54	-8345.52	-90.67	415.18	354.44	1.17	PASS		
14774.85	6969.00	-558.65	-8159.39	7311.28	6971.82	-919.54	-8345.52	-90.63	406.07	362.29	1.12	PASS		

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: FRITZLER 17-42-11 AWB Offset Wellpath: FRITZLER 17-42-11 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: FRITZLER 17-42-11 AWB Offset Wellpath: FRITZLER 17-42-11 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7425.08	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100-7425.08>	FRITZLER 17-42-11 AWB
7425.08	7713.00	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL SURVEY FROM COGCC PROVIDED BY SRC <57-7713>	FRITZLER 17-42-11 AWB



**Clearance Report**  
**HARVESTERS STATE 32N-16A-M (REV-B.0) PWP**  
**Closest Approach**  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

OFFSET WELLPATH REFERENCE - Offset Wellbore: FRITZLER 17-42-11 AWB Offset Wellpath: FRITZLER 17-42-11 AWP	
MD Reference: Rig on SLOT#08 EX. FRITZLER 17-42-11 (720'FSL & 612'FEL, NB-CD/PR/7713'TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 31N-16B-M PWB Offset Wellpath: HARVESTERS STATE 31N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#07 HARVESTERS STATE 31N-16B-M (1713°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 31N-16B-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
1756.00	1752.35	-99.25	-35.49	1743.25	1741.42	145.96	-33.09	160.48	245.47	19.56	13.15	PASS	
1783.09	1779.36	-101.16	-36.14	1770.16	1768.29	147.16	-33.71	162.90	248.58	19.45	13.23	PASS	
1856.00†	1852.04	-106.64	-37.87	1842.55	1840.59	150.40	-35.38	162.90	257.31	19.56	13.61	PASS	
1956.00†	1951.73	-114.15	-40.25	1941.83	1939.74	154.84	-37.67	162.89	269.28	19.65	14.18	PASS	
2056.00†	2051.42	-121.67	-42.62	2041.11	2038.90	159.28	-39.96	162.89	281.24	19.79	14.71	PASS	
2156.00†	2151.11	-129.18	-45.00	2140.39	2138.05	163.72	-42.25	162.88	293.21	19.98	15.18	PASS	
2256.00†	2250.80	-136.70	-47.38	2239.67	2237.21	168.17	-44.54	162.88	305.18	20.23	15.59	PASS	
2356.00†	2350.49	-144.21	-49.75	2338.95	2336.37	172.61	-46.83	162.87	317.15	20.54	15.96	PASS	
2456.00†	2450.18	-151.73	-52.13	2438.24	2435.52	177.05	-49.12	162.87	329.12	20.89	16.27	PASS	
2556.00†	2549.87	-159.25	-54.51	2537.52	2534.68	181.49	-51.41	162.86	341.09	21.29	16.54	PASS	
2656.00†	2649.55	-166.76	-56.88	2636.80	2633.83	185.93	-53.70	162.86	353.06	21.74	16.76	PASS	
2756.00†	2749.24	-174.28	-59.26	2736.08	2732.99	190.37	-55.99	162.86	365.03	22.23	16.93	PASS	
2856.00†	2848.93	-181.79	-61.63	2835.36	2832.14	194.81	-58.28	162.85	376.99	22.75	17.07	PASS	
2956.00†	2948.62	-189.31	-64.01	2934.64	2931.30	199.25	-60.57	162.85	388.96	23.32	17.17	PASS	
3056.00†	3048.31	-196.82	-66.39	3033.92	3030.45	203.70	-62.86	162.85	400.93	23.91	17.25	PASS	
3156.00†	3148.00	-204.34	-68.76	3133.20	3129.61	208.14	-65.15	162.84	412.90	24.54	17.29	PASS	
3256.00†	3247.69	-211.85	-71.14	3232.48	3228.76	212.58	-67.44	162.84	424.87	25.20	17.32	PASS	
3356.00†	3347.38	-219.37	-73.52	3331.77	3327.92	217.02	-69.73	162.84	436.84	25.88	17.32	PASS	
3456.00†	3447.07	-226.88	-75.89	3431.05	3427.07	221.46	-72.02	162.84	448.81	26.59	17.31	PASS	
3556.00†	3546.75	-234.40	-78.27	3530.33	3526.23	225.90	-74.32	162.84	460.78	27.32	17.29	PASS	
3656.00†	3646.44	-241.91	-80.65	3629.61	3625.38	230.34	-76.61	162.83	472.74	28.08	17.25	PASS	
3756.00†	3746.13	-249.43	-83.02	3728.89	3724.54	234.78	-78.90	162.83	484.71	28.85	17.20	PASS	
3856.00†	3845.82	-256.94	-85.40	3828.17	3823.70	239.23	-81.19	162.83	496.68	29.64	17.15	PASS	
3956.00†	3945.51	-264.46	-87.77	3927.45	3922.85	243.67	-83.48	162.83	508.65	30.44	17.08	PASS	
4056.00†	4045.20	-271.98	-90.15	4026.73	4022.01	248.11	-85.77	162.83	520.62	31.26	17.02	PASS	
4156.00†	4144.89	-279.49	-92.53	4126.02	4121.16	252.55	-88.06	162.82	532.59	32.09	16.95	PASS	
4256.00†	4244.58	-287.01	-94.90	4225.30	4220.32	256.99	-90.35	162.82	544.56	32.94	16.87	PASS	
4356.00†	4344.27	-294.52	-97.28	4324.58	4319.47	261.43	-92.64	162.82	556.53	33.80	16.80	PASS	
4456.00†	4443.95	-302.04	-99.66	4423.86	4418.63	265.87	-94.93	162.82	568.49	34.67	16.72	PASS	
4556.00†	4543.64	-309.55	-102.03	4523.14	4517.78	270.31	-97.22	162.82	580.46	35.55	16.64	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 31N-16B-M PWB Offset Wellpath: HARVESTERS STATE 31N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W				Slot: SLOT#07 HARVESTERS STATE 31N-16B-M (1713°FNL & 2334°FEL, SEC.15)				Well: HARVESTERS STATE 31N-16B-M				Threshold Value=1.00		† = interpolated/extrapolated static	
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status			
4656.00†	4643.33	-317.07	-104.41	4622.42	4616.94	274.76	-99.51	162.82	592.43	36.43	16.56	PASS			
4756.00†	4743.02	-324.58	-106.79	4721.70	4716.09	279.20	-101.80	162.82	604.40	37.33	16.48	PASS			
4856.00†	4842.71	-332.10	-109.16	4820.98	4815.25	283.64	-104.09	162.82	616.37	38.24	16.41	PASS			
4956.00†	4942.40	-339.61	-111.54	4920.26	4914.40	288.08	-106.38	162.81	628.34	39.15	16.33	PASS			
5056.00†	5042.09	-347.13	-113.92	5019.55	5013.56	292.52	-108.67	162.81	640.31	40.07	16.25	PASS			
5156.00†	5141.78	-354.64	-116.29	5118.83	5112.71	296.96	-110.96	162.81	652.28	40.99	16.17	PASS			
5256.00†	5241.47	-362.16	-118.67	5218.11	5211.87	301.40	-113.25	162.81	664.24	41.92	16.10	PASS			
5356.00†	5341.15	-369.68	-121.04	5317.39	5311.02	305.84	-115.54	162.81	676.21	42.86	16.03	PASS			
5456.00†	5440.84	-377.19	-123.42	5416.67	5410.18	310.28	-117.83	162.81	688.18	43.80	15.95	PASS			
5556.00†	5540.53	-384.71	-125.80	5515.95	5509.34	314.73	-120.12	162.81	700.15	44.75	15.88	PASS			
5656.00†	5640.22	-392.22	-128.17	5615.23	5608.49	319.17	-122.41	162.81	712.12	45.70	15.81	PASS			
5756.00†	5739.91	-399.74	-130.55	5714.51	5707.65	323.61	-124.70	162.81	724.09	46.66	15.74	PASS			
5856.00†	5839.60	-407.25	-132.93	5813.79	5806.80	328.05	-126.99	162.81	736.06	47.62	15.68	PASS			
5956.00†	5939.29	-414.77	-135.30	5913.08	5905.96	332.49	-129.28	162.80	748.03	48.58	15.61	PASS			
6056.00†	6038.98	-422.28	-137.68	6012.36	6005.11	336.93	-131.57	162.80	759.99	49.55	15.55	PASS			
6156.00†	6138.67	-429.80	-140.06	6111.64	6104.27	341.37	-133.86	162.80	771.96	50.52	15.48	PASS			
6256.00†	6238.35	-437.31	-142.43	6210.92	6203.42	345.81	-136.15	162.80	783.93	51.49	15.42	PASS			
6356.00†	6338.04	-444.83	-144.81	6310.20	6302.58	350.26	-138.44	162.80	795.90	52.47	15.36	PASS			
6412.80	6394.66	-449.10	-146.16	6366.59	6358.90	352.78	-139.75	162.80	802.70	53.03	15.33	PASS			
6456.00†	6437.66	-452.35	-148.65	6409.43	6401.70	354.70	-140.73	129.63	807.89	53.45	15.30	PASS			
6556.00†	6535.83	-459.87	-165.57	6510.12	6502.07	359.17	-146.14	107.08	819.97	54.52	15.22	PASS			
6656.00†	6630.14	-467.23	-197.68	6613.79	6603.41	363.58	-167.02	100.72	831.81	55.76	15.10	PASS			
6756.00†	6718.27	-474.24	-244.19	6719.80	6702.13	367.76	-205.08	97.78	843.07	56.97	14.97	PASS			
6856.00†	6798.05	-480.73	-303.96	6828.15	6795.09	371.57	-260.35	96.09	853.42	58.41	14.78	PASS			
6956.00†	6867.52	-486.55	-375.51	6938.72	6878.92	374.85	-332.17	95.01	862.57	60.41	14.44	PASS			
7056.00†	6924.96	-491.55	-457.09	7051.29	6950.22	377.47	-419.05	94.26	870.22	63.26	13.90	PASS			
7156.00†	6968.96	-495.60	-546.68	7165.47	7005.80	379.30	-518.60	93.73	876.12	67.12	13.18	PASS			
7256.00†	6998.43	-498.60	-642.08	7280.76	7043.02	380.24	-627.54	93.36	880.09	71.85	12.36	PASS			
7356.00†	7012.68	-500.49	-740.94	7396.55	7060.06	380.23	-741.91	93.12	882.00	77.33	11.50	PASS			
7401.17	7014.00	-500.97	-786.08	7448.19	7060.93	379.92	-793.53	93.05	882.17	79.94	11.13	PASS			

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 31N-16B-M PWB Offset Wellpath: HARVESTERS STATE 31N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLO#07 HARVESTERS STATE 31N-16B-M (1713°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 31N-16B-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
7456.00†	7013.67	-501.39	-840.91	7503.02	7059.97	379.51	-848.35	93.01	882.15	83.02	10.71	PASS	
7556.00†	7013.06	-502.18	-940.90	7603.01	7058.22	378.76	-948.32	92.94	882.12	89.13	9.97	PASS	
7656.00†	7012.44	-502.96	-1040.90	7703.01	7056.47	378.01	-1048.30	92.86	882.10	95.74	9.27	PASS	
7756.00†	7011.83	-503.74	-1140.89	7803.00	7054.72	377.25	-1148.27	92.79	882.07	102.76	8.64	PASS	
7856.00†	7011.22	-504.52	-1240.89	7902.99	7052.97	376.50	-1248.25	92.71	882.04	110.11	8.06	PASS	
7956.00†	7010.61	-505.31	-1340.88	8002.99	7051.22	375.75	-1348.22	92.64	882.02	117.72	7.53	PASS	
8056.00†	7010.00	-506.09	-1440.88	8102.98	7049.47	375.00	-1448.20	92.57	882.00	125.56	7.06	PASS	
8156.00†	7009.39	-506.87	-1540.87	8202.98	7047.72	374.24	-1548.18	92.49	881.98	133.57	6.63	PASS	
8256.00†	7008.78	-507.65	-1640.87	8302.97	7045.97	373.49	-1648.15	92.42	881.96	141.73	6.25	PASS	
8356.00†	7008.17	-508.43	-1740.86	8402.96	7044.22	372.74	-1748.13	92.34	881.94	150.02	5.90	PASS	
8456.00†	7007.56	-509.22	-1840.86	8502.96	7042.47	371.99	-1848.10	92.27	881.92	158.41	5.59	PASS	
8556.00†	7006.95	-510.00	-1940.85	8602.95	7040.73	371.23	-1948.08	92.20	881.91	166.89	5.30	PASS	
8656.00†	7006.34	-510.78	-2040.85	8702.94	7038.98	370.48	-2048.05	92.12	881.90	175.45	5.04	PASS	
8756.00†	7005.73	-511.56	-2140.84	8802.94	7037.23	369.73	-2148.03	92.05	881.88	184.07	4.81	PASS	
8856.00†	7005.12	-512.35	-2240.84	8902.93	7035.48	368.98	-2248.00	91.97	881.87	192.75	4.59	PASS	
8956.00†	7004.51	-513.13	-2340.83	9002.92	7033.73	368.22	-2347.98	91.90	881.86	201.48	4.39	PASS	
9056.00†	7003.90	-513.91	-2440.83	9102.92	7031.98	367.47	-2447.95	91.83	881.86	210.26	4.20	PASS	
9156.00†	7003.29	-514.69	-2540.82	9202.91	7030.23	366.72	-2547.93	91.75	881.85	219.07	4.04	PASS	
9256.00†	7002.68	-515.47	-2640.82	9302.90	7028.48	365.97	-2647.90	91.68	881.85	227.91	3.88	PASS	
9356.00†	7002.07	-516.26	-2740.81	9402.90	7026.73	365.21	-2747.88	91.60	881.84	236.79	3.73	PASS	
9456.00†	7001.46	-517.04	-2840.81	9502.89	7024.98	364.46	-2847.85	91.53	881.84	245.69	3.60	PASS	
9556.00†	7000.85	-517.82	-2940.80	9602.88	7023.23	363.71	-2947.83	91.45	881.84	254.62	3.47	PASS	
9656.00†	7000.24	-518.60	-3040.80	9702.88	7021.48	362.95	-3047.81	91.38	881.84	263.57	3.35	PASS	
9756.00†	6999.63	-519.39	-3140.79	9802.87	7019.73	362.20	-3147.78	91.31	881.85	272.54	3.24	PASS	
9856.00†	6999.02	-520.17	-3240.79	9902.86	7017.98	361.45	-3247.76	91.23	881.85	281.52	3.14	PASS	
9956.00†	6998.41	-520.95	-3340.78	10002.86	7016.23	360.70	-3347.73	91.16	881.86	290.52	3.04	PASS	
10056.00†	6997.80	-521.73	-3440.78	10102.85	7014.48	359.94	-3447.71	91.08	881.86	299.54	2.95	PASS	
10156.00†	6997.19	-522.52	-3540.77	10202.85	7012.73	359.19	-3547.68	91.01	881.87	308.56	2.86	PASS	
10256.00†	6996.58	-523.30	-3640.77	10302.84	7010.99	358.44	-3647.66	90.94	881.88	317.60	2.78	PASS	
10356.00†	6995.97	-524.08	-3740.76	10402.83	7009.24	357.69	-3747.63	90.86	881.89	326.66	2.70	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 31N-16B-M PWB Offset Wellpath: HARVESTERS STATE 31N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#07 HARVESTERS STATE 31N-16B-M (1713°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 31N-16B-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
10456.00†	6995.36	-524.86	-3840.76	10502.83	7007.49	356.93	-3847.61	90.79	881.91	335.72	2.63	PASS	
10556.00†	6994.75	-525.64	-3940.75	10602.82	7005.74	356.18	-3947.58	90.71	881.92	344.79	2.56	PASS	
10656.00†	6994.14	-526.43	-4040.75	10702.81	7003.99	355.43	-4047.56	90.64	881.94	353.86	2.50	PASS	
10756.00†	6993.53	-527.21	-4140.74	10802.81	7002.24	354.68	-4147.53	90.57	881.95	362.95	2.43	PASS	
10856.00†	6992.92	-527.99	-4240.74	10902.80	7000.49	353.92	-4247.51	90.49	881.97	372.04	2.37	PASS	
10956.00†	6992.31	-528.77	-4340.73	11002.79	6998.74	353.17	-4347.49	90.42	881.99	381.14	2.32	PASS	
11056.00†	6991.70	-529.56	-4440.73	11102.79	6996.99	352.42	-4447.46	90.34	882.02	390.25	2.26	PASS	
11156.00†	6991.09	-530.34	-4540.72	11202.78	6995.24	351.67	-4547.44	90.27	882.04	399.36	2.21	PASS	
11256.00†	6990.47	-531.12	-4640.72	11302.77	6993.49	350.91	-4647.41	90.20	882.06	408.47	2.16	PASS	
11356.00†	6989.86	-531.90	-4740.71	11402.77	6991.74	350.16	-4747.39	90.12	882.09	417.59	2.11	PASS	
11456.00†	6989.25	-532.68	-4840.71	11502.76	6989.99	349.41	-4847.36	90.05	882.12	426.72	2.07	PASS	
11556.00†	6988.64	-533.47	-4940.70	11602.75	6988.24	348.66	-4947.34	89.97	882.15	435.85	2.03	PASS	
11656.00†	6988.03	-534.25	-5040.70	11702.75	6986.49	347.90	-5047.31	89.90	882.18	444.98	1.98	PASS	
11756.00†	6987.42	-535.03	-5140.69	11802.74	6984.74	347.15	-5147.29	89.83	882.21	454.12	1.94	PASS	
11856.00†	6986.81	-535.81	-5240.69	11902.73	6983.00	346.40	-5247.26	89.75	882.24	463.25	1.91	PASS	
11956.00†	6986.20	-536.60	-5340.68	12002.73	6981.25	345.65	-5347.24	89.68	882.28	472.39	1.87	PASS	
12056.00†	6985.59	-537.38	-5440.68	12102.72	6979.50	344.89	-5447.21	89.60	882.32	481.54	1.83	PASS	
12156.00†	6984.98	-538.16	-5540.67	12202.72	6977.75	344.14	-5547.19	89.53	882.35	490.68	1.80	PASS	
12256.00†	6984.37	-538.94	-5640.67	12302.71	6976.00	343.39	-5647.17	89.46	882.39	499.83	1.77	PASS	
12356.00†	6983.76	-539.73	-5740.66	12402.70	6974.25	342.64	-5747.14	89.38	882.44	508.98	1.73	PASS	
12456.00†	6983.15	-540.51	-5840.66	12502.70	6972.50	341.88	-5847.12	89.31	882.48	518.13	1.70	PASS	
12556.00†	6982.54	-541.29	-5940.66	12602.69	6970.75	341.13	-5947.09	89.23	882.52	527.29	1.67	PASS	
12656.00†	6981.93	-542.07	-6040.65	12702.68	6969.00	340.38	-6047.07	89.16	882.57	536.44	1.65	PASS	
12756.00†	6981.32	-542.85	-6140.65	12802.68	6967.25	339.62	-6147.04	89.09	882.61	545.60	1.62	PASS	
12856.00†	6980.71	-543.64	-6240.64	12902.67	6965.50	338.87	-6247.02	89.01	882.66	554.75	1.59	PASS	
12956.00†	6980.10	-544.42	-6340.64	13002.66	6963.75	338.12	-6346.99	88.94	882.71	563.91	1.57	PASS	
13056.00†	6979.49	-545.20	-6440.63	13102.66	6962.00	337.37	-6446.97	88.87	882.76	573.07	1.54	PASS	
13156.00†	6978.88	-545.98	-6540.63	13202.65	6960.25	336.61	-6546.94	88.79	882.82	582.23	1.52	PASS	
13256.00†	6978.27	-546.77	-6640.62	13302.64	6958.50	335.86	-6646.92	88.72	882.87	591.39	1.49	PASS	
13356.00†	6977.66	-547.55	-6740.62	13402.64	6956.75	335.11	-6746.89	88.64	882.93	600.54	1.47	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 31N-16B-M PWB Offset Wellpath: HARVESTERS STATE 31N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#07 HARVESTERS STATE 31N-16B-M (1713°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 31N-16B-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
13456.00†	6977.05	-548.33	-6840.61	13502.63	6955.01	334.36	-6846.87	88.57	882.98	609.70	1.45	PASS	
13556.00†	6976.44	-549.11	-6940.61	13602.62	6953.26	333.60	-6946.85	88.50	883.04	618.86	1.43	PASS	
13656.00†	6975.83	-549.89	-7040.60	13702.62	6951.51	332.85	-7046.82	88.42	883.10	628.02	1.41	PASS	
13756.00†	6975.22	-550.68	-7140.60	13802.61	6949.76	332.10	-7146.80	88.35	883.16	637.18	1.39	PASS	
13856.00†	6974.61	-551.46	-7240.59	13902.61	6948.01	331.35	-7246.77	88.27	883.23	646.34	1.37	PASS	
13956.00†	6974.00	-552.24	-7340.59	14002.60	6946.26	330.59	-7346.75	88.20	883.29	655.50	1.35	PASS	
14056.00†	6973.39	-553.02	-7440.58	14102.59	6944.51	329.84	-7446.72	88.13	883.36	664.66	1.33	PASS	
14156.00†	6972.78	-553.81	-7540.58	14202.59	6942.76	329.09	-7546.70	88.05	883.43	673.82	1.31	PASS	
14256.00†	6972.17	-554.59	-7640.57	14302.58	6941.01	328.34	-7646.67	87.98	883.49	682.97	1.29	PASS	
14356.00†	6971.56	-555.37	-7740.57	14402.57	6939.26	327.58	-7746.65	87.91	883.57	692.13	1.28	PASS	
14456.00†	6970.95	-556.15	-7840.56	14502.57	6937.51	326.83	-7846.62	87.83	883.64	701.29	1.26	PASS	
14556.00†	6970.34	-556.94	-7940.56	14602.56	6935.76	326.08	-7946.60	87.76	883.71	710.44	1.24	PASS	
14656.00†	6969.73	-557.72	-8040.55	14702.55	6934.01	325.33	-8046.57	87.68	883.79	719.60	1.23	PASS	
14756.00†	6969.12	-558.50	-8140.55	14802.55	6932.26	324.57	-8146.55	87.61	883.86	728.75	1.21	PASS	
14774.85	6969.00	-558.65	-8159.39	14817.60	6932.00	324.46	-8161.60	87.60	883.88	730.29	1.21	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 31N-16B-M PWB Offset Wellpath: HARVESTERS STATE 31N-16B-M 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: HARVESTERS STATE 31N-16B-M PWB Offset Wellpath: HARVESTERS STATE 31N-16B-M 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	4.00	1750.00	1746.00	4.00	1748.16	48.86	0.52	69.01	-9.87
9.625in Casing Surface	4.00	1750.00	1746.00	4.00	1748.16	48.86	0.52	69.01	-9.87
8.5in Open Hole	1750.00	14817.60	13067.60	1748.16	6932.00	69.01	-9.87	123.32	-2487.40



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HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 31N-16B-M PWB    Offset Wellpath: HARVESTERS STATE 31N-16B-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 31N-16B-M PWB
1750.00	14817.60	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 31N-16B-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 31N-16B-M PWB    Offset Wellpath: HARVESTERS STATE 31N-16B-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 12N-16C-M PWB Offset Wellpath: HARVESTERS STATE 12N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#15 HARVESTERS STATE 12N-16C-M (1933°FNL & 2336°FEL, SEC.15) Well: HARVESTERS STATE 12N-16C-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
1756.00	1752.35	-99.25	-35.49	1718.24	1697.38	-379.15	-30.01	-20.87	285.30	20.41	14.62	PASS	
1783.09	1779.36	-101.16	-36.14	1745.12	1723.75	-384.34	-30.64	-18.43	288.64	20.34	14.70	PASS	
1856.00†	1852.04	-106.64	-37.87	1817.51	1794.76	-398.32	-32.32	-18.41	297.30	20.47	15.01	PASS	
1956.00†	1951.73	-114.15	-40.25	1916.80	1892.16	-417.49	-34.64	-18.38	309.18	20.55	15.55	PASS	
2056.00†	2051.42	-121.67	-42.62	2016.10	1989.55	-436.66	-36.95	-18.35	321.06	20.68	16.04	PASS	
2156.00†	2151.11	-129.18	-45.00	2115.39	2086.95	-455.83	-39.26	-18.33	332.94	20.88	16.47	PASS	
2256.00†	2250.80	-136.70	-47.38	2214.68	2184.34	-475.01	-41.57	-18.30	344.82	21.13	16.85	PASS	
2356.00†	2350.49	-144.21	-49.75	2313.97	2281.74	-494.18	-43.89	-18.28	356.70	21.43	17.18	PASS	
2456.00†	2450.18	-151.73	-52.13	2413.26	2379.13	-513.35	-46.20	-18.26	368.58	21.78	17.45	PASS	
2556.00†	2549.87	-159.25	-54.51	2512.55	2476.53	-532.52	-48.51	-18.24	380.46	22.19	17.68	PASS	
2656.00†	2649.55	-166.76	-56.88	2611.85	2573.93	-551.69	-50.82	-18.22	392.34	22.64	17.86	PASS	
2756.00†	2749.24	-174.28	-59.26	2711.14	2671.32	-570.87	-53.14	-18.21	404.22	23.13	17.99	PASS	
2856.00†	2848.93	-181.79	-61.63	2810.43	2768.72	-590.04	-55.45	-18.19	416.10	23.67	18.09	PASS	
2956.00†	2948.62	-189.31	-64.01	2909.72	2866.11	-609.21	-57.76	-18.18	427.98	24.24	18.16	PASS	
3056.00†	3048.31	-196.82	-66.39	3009.01	2963.51	-628.38	-60.07	-18.16	439.86	24.85	18.19	PASS	
3156.00†	3148.00	-204.34	-68.76	3108.31	3060.91	-647.55	-62.39	-18.15	451.74	25.49	18.20	PASS	
3256.00†	3247.69	-211.85	-71.14	3207.60	3158.30	-666.73	-64.70	-18.14	463.62	26.16	18.18	PASS	
3356.00†	3347.38	-219.37	-73.52	3306.89	3255.70	-685.90	-67.01	-18.12	475.50	26.86	18.15	PASS	
3456.00†	3447.07	-226.88	-75.89	3406.18	3353.09	-705.07	-69.33	-18.11	487.38	27.59	18.10	PASS	
3556.00†	3546.75	-234.40	-78.27	3505.47	3450.49	-724.24	-71.64	-18.10	499.26	28.34	18.04	PASS	
3656.00†	3646.44	-241.91	-80.65	3604.76	3547.88	-743.41	-73.95	-18.09	511.14	29.11	17.97	PASS	
3756.00†	3746.13	-249.43	-83.02	3704.06	3645.28	-762.59	-76.26	-18.08	523.02	29.90	17.89	PASS	
3856.00†	3845.82	-256.94	-85.40	3803.35	3742.68	-781.76	-78.58	-18.07	534.90	30.71	17.81	PASS	
3956.00†	3945.51	-264.46	-87.77	3902.64	3840.07	-800.93	-80.89	-18.06	546.78	31.54	17.71	PASS	
4056.00†	4045.20	-271.98	-90.15	4001.93	3937.47	-820.10	-83.20	-18.05	558.66	32.38	17.62	PASS	
4156.00†	4144.89	-279.49	-92.53	4101.22	4034.86	-839.27	-85.51	-18.04	570.54	33.24	17.52	PASS	
4256.00†	4244.58	-287.01	-94.90	4200.52	4132.26	-858.45	-87.83	-18.04	582.42	34.11	17.42	PASS	
4356.00†	4344.27	-294.52	-97.28	4299.81	4229.66	-877.62	-90.14	-18.03	594.30	34.99	17.32	PASS	
4456.00†	4443.95	-302.04	-99.66	4399.10	4327.05	-896.79	-92.45	-18.02	606.18	35.88	17.21	PASS	
4556.00†	4543.64	-309.55	-102.03	4498.39	4424.45	-915.96	-94.76	-18.01	618.06	36.79	17.11	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 12N-16C-M PWB Offset Wellpath: HARVESTERS STATE 12N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W		Slot: SLOT#15 HARVESTERS STATE 12N-16C-M (1933°FNL & 2336°FEL, SEC.15)		Well: HARVESTERS STATE 12N-16C-M		Threshold Value=1.00		† = interpolated/extrapolated static				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4656.00†	4643.33	-317.07	-104.41	4597.68	4521.84	-935.13	-97.08	-18.01	629.94	37.70	17.01	PASS
4756.00†	4743.02	-324.58	-106.79	4696.97	4619.24	-954.31	-99.39	-18.00	641.82	38.63	16.91	PASS
4856.00†	4842.71	-332.10	-109.16	4796.27	4716.63	-973.48	-101.70	-17.99	653.70	39.56	16.81	PASS
4956.00†	4942.40	-339.61	-111.54	4895.56	4814.03	-992.65	-104.01	-17.99	665.58	40.50	16.71	PASS
5056.00†	5042.09	-347.13	-113.92	4994.85	4911.43	-1011.82	-106.33	-17.98	677.46	41.44	16.61	PASS
5156.00†	5141.78	-354.64	-116.29	5094.14	5008.82	-1030.99	-108.64	-17.97	689.34	42.40	16.52	PASS
5256.00†	5241.47	-362.16	-118.67	5193.43	5106.22	-1050.17	-110.95	-17.97	701.22	43.36	16.42	PASS
5356.00†	5341.15	-369.68	-121.04	5292.72	5203.61	-1069.34	-113.26	-17.96	713.10	44.33	16.33	PASS
5456.00†	5440.84	-377.19	-123.42	5392.02	5301.01	-1088.51	-115.58	-17.96	724.98	45.30	16.24	PASS
5556.00†	5540.53	-384.71	-125.80	5491.31	5398.41	-1107.68	-117.89	-17.95	736.86	46.28	16.16	PASS
5656.00†	5640.22	-392.22	-128.17	5590.60	5495.80	-1126.85	-120.20	-17.95	748.74	47.26	16.07	PASS
5756.00†	5739.91	-399.74	-130.55	5689.89	5593.20	-1146.03	-122.52	-17.94	760.62	48.24	15.99	PASS
5856.00†	5839.60	-407.25	-132.93	5789.18	5690.59	-1165.20	-124.83	-17.94	772.50	49.24	15.90	PASS
5956.00†	5939.29	-414.77	-135.30	5888.48	5787.99	-1184.37	-127.14	-17.93	784.38	50.23	15.82	PASS
6056.00†	6038.98	-422.28	-137.68	5987.77	5885.38	-1203.54	-129.45	-17.93	796.26	51.23	15.75	PASS
6156.00†	6138.67	-429.80	-140.06	6087.06	5982.78	-1222.71	-131.77	-17.93	808.14	52.23	15.67	PASS
6256.00†	6238.35	-437.31	-142.43	6186.35	6080.18	-1241.89	-134.08	-17.92	820.02	53.24	15.60	PASS
6356.00†	6338.04	-444.83	-144.81	6285.64	6177.57	-1261.06	-136.39	-17.92	831.90	54.25	15.52	PASS
6412.80	6394.66	-449.10	-146.16	6342.04	6232.89	-1271.95	-137.70	-17.92	838.64	54.82	15.48	PASS
6456.00†	6437.66	-452.35	-148.65	6384.90	6274.94	-1280.22	-138.70	-50.36	843.77	55.26	15.45	PASS
6556.00†	6535.83	-459.87	-165.57	6483.04	6371.20	-1299.17	-140.99	-72.52	855.65	56.33	15.37	PASS
6656.00†	6630.14	-467.23	-197.68	6577.72	6464.07	-1317.45	-143.19	-79.45	868.00	57.49	15.27	PASS
6756.00†	6718.27	-474.24	-244.19	6669.99	6554.56	-1335.27	-145.77	-83.60	881.96	58.65	15.21	PASS
6856.00†	6798.05	-480.73	-303.96	6776.92	6658.26	-1355.77	-161.08	-86.95	897.58	60.18	15.08	PASS
6956.00†	6867.52	-486.55	-375.51	6895.92	6768.83	-1377.79	-198.60	-89.77	913.97	62.24	14.84	PASS
7056.00†	6924.98	-491.55	-457.09	7030.17	6882.84	-1400.68	-265.20	-92.30	930.12	64.66	14.53	PASS
7156.00†	6968.96	-495.60	-546.68	7182.63	6992.37	-1422.95	-368.35	-94.56	944.63	67.64	14.10	PASS
7256.00†	6998.45	-498.60	-642.08	7354.28	7082.91	-1441.77	-512.35	-96.37	955.79	71.68	13.46	PASS
7356.00†	7012.68	-500.49	-740.94	7541.63	7134.86	-1453.25	-691.27	-97.43	961.85	77.12	12.58	PASS
7401.17	7014.00	-500.97	-786.08	7629.04	7141.01	-1455.08	-778.38	-97.58	962.56	80.17	12.10	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 12N-16C-M PWB Offset Wellpath: HARVESTERS STATE 12N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#15 HARVESTERS STATE 12N-16C-M (1933°FNL & 2336°FEL, SEC.15) Well: HARVESTERS STATE 12N-16C-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
7456.00†	7013.67	-501.39	-840.91	7686.54	7140.72	-1455.42	-835.88	-97.59	962.47	83.05	11.68	PASS	
7556.00†	7013.06	-502.18	-940.90	7786.54	7140.18	-1456.02	-935.88	-97.59	962.29	88.91	10.90	PASS	
7656.00†	7012.44	-502.96	-1040.90	7886.54	7139.63	-1456.62	-1035.87	-97.60	962.12	95.28	10.17	PASS	
7756.00†	7011.83	-503.74	-1140.89	7986.54	7139.09	-1457.22	-1135.87	-97.60	961.95	102.08	9.48	PASS	
7856.00†	7011.22	-504.52	-1240.89	8086.54	7138.55	-1457.82	-1235.87	-97.61	961.78	109.22	8.86	PASS	
7956.00†	7010.61	-505.31	-1340.88	8186.54	7138.01	-1458.42	-1335.86	-97.61	961.60	116.65	8.29	PASS	
8056.00†	7010.00	-506.09	-1440.88	8286.54	7137.47	-1459.02	-1435.86	-97.62	961.43	124.31	7.77	PASS	
8156.00†	7009.39	-506.87	-1540.87	8386.54	7136.92	-1459.62	-1535.86	-97.63	961.26	132.16	7.31	PASS	
8256.00†	7008.78	-507.65	-1640.87	8486.54	7136.38	-1460.22	-1635.85	-97.63	961.09	140.16	6.89	PASS	
8356.00†	7008.17	-508.43	-1740.86	8586.54	7135.84	-1460.82	-1735.85	-97.64	960.91	148.30	6.51	PASS	
8456.00†	7007.56	-509.22	-1840.86	8686.54	7135.30	-1461.41	-1835.85	-97.64	960.74	156.56	6.16	PASS	
8556.00†	7006.95	-510.00	-1940.85	8786.54	7134.76	-1462.01	-1935.84	-97.65	960.57	164.91	5.85	PASS	
8656.00†	7006.34	-510.78	-2040.85	8886.54	7134.21	-1462.61	-2035.84	-97.65	960.40	173.33	5.56	PASS	
8756.00†	7005.73	-511.56	-2140.84	8986.54	7133.67	-1463.21	-2135.84	-97.66	960.22	181.83	5.30	PASS	
8856.00†	7005.12	-512.35	-2240.84	9086.54	7133.13	-1463.81	-2235.83	-97.66	960.05	190.39	5.06	PASS	
8956.00†	7004.51	-513.13	-2340.83	9186.54	7132.59	-1464.41	-2335.83	-97.67	959.88	199.00	4.84	PASS	
9056.00†	7003.90	-513.91	-2440.83	9286.54	7132.05	-1465.01	-2435.82	-97.67	959.70	207.66	4.63	PASS	
9156.00†	7003.29	-514.69	-2540.82	9386.54	7131.50	-1465.61	-2535.82	-97.68	959.53	216.36	4.45	PASS	
9256.00†	7002.68	-515.47	-2640.82	9486.54	7130.96	-1466.21	-2635.82	-97.69	959.36	225.09	4.27	PASS	
9356.00†	7002.07	-516.26	-2740.81	9586.54	7130.42	-1466.81	-2735.81	-97.69	959.19	233.86	4.11	PASS	
9456.00†	7001.46	-517.04	-2840.81	9686.54	7129.88	-1467.40	-2835.81	-97.70	959.01	242.65	3.96	PASS	
9556.00†	7000.85	-517.82	-2940.80	9786.54	7129.33	-1468.00	-2935.81	-97.70	958.84	251.47	3.82	PASS	
9656.00†	7000.24	-518.60	-3040.80	9886.54	7128.79	-1468.60	-3035.80	-97.71	958.67	260.31	3.69	PASS	
9756.00†	6999.63	-519.39	-3140.79	9986.54	7128.25	-1469.20	-3135.80	-97.71	958.50	269.18	3.57	PASS	
9856.00†	6999.02	-520.17	-3240.79	10086.54	7127.71	-1469.80	-3235.80	-97.72	958.33	278.06	3.45	PASS	
9956.00†	6998.41	-520.95	-3340.78	10186.54	7127.17	-1470.40	-3335.79	-97.72	958.15	286.95	3.34	PASS	
10056.00†	6997.80	-521.73	-3440.78	10286.54	7126.62	-1471.00	-3435.79	-97.73	957.98	295.86	3.24	PASS	
10156.00†	6997.19	-522.52	-3540.77	10386.54	7126.08	-1471.60	-3535.79	-97.74	957.81	304.79	3.15	PASS	
10256.00†	6996.58	-523.30	-3640.77	10486.54	7125.54	-1472.20	-3635.78	-97.74	957.64	313.73	3.06	PASS	
10356.00†	6995.97	-524.08	-3740.76	10586.54	7125.00	-1472.80	-3735.78	-97.75	957.46	322.68	2.97	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 12N-16C-M PWB Offset Wellpath: HARVESTERS STATE 12N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#15 HARVESTERS STATE 12N-16C-M (1933°FNL & 2336°FEL, SEC.15) Well: HARVESTERS STATE 12N-16C-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
10456.00†	6995.36	-524.86	-3840.76	10686.54	7124.46	-1473.39	-3835.78	-97.75	957.29	331.64	2.89	PASS	
10556.00†	6994.75	-525.64	-3940.79	10786.54	7123.91	-1473.99	-3935.77	-97.76	957.12	340.61	2.81	PASS	
10656.00†	6994.14	-526.43	-4040.75	10886.54	7123.37	-1474.59	-4035.77	-97.76	956.95	349.59	2.74	PASS	
10756.00†	6993.53	-527.21	-4140.74	10986.54	7122.83	-1475.19	-4135.77	-97.77	956.77	358.58	2.67	PASS	
10856.00†	6992.92	-527.99	-4240.74	11086.54	7122.29	-1475.79	-4235.76	-97.77	956.60	367.57	2.61	PASS	
10956.00†	6992.31	-528.77	-4340.73	11186.54	7121.75	-1476.39	-4335.76	-97.78	956.43	376.57	2.54	PASS	
11056.00†	6991.70	-529.56	-4440.73	11286.53	7121.20	-1476.99	-4435.76	-97.78	956.26	385.58	2.48	PASS	
11156.00†	6991.09	-530.34	-4540.72	11386.53	7120.66	-1477.59	-4535.75	-97.79	956.08	394.60	2.43	PASS	
11256.00†	6990.47	-531.12	-4640.72	11486.53	7120.12	-1478.19	-4635.75	-97.80	955.91	403.62	2.37	PASS	
11356.00†	6989.86	-531.90	-4740.71	11586.53	7119.58	-1478.79	-4735.75	-97.80	955.74	412.64	2.32	PASS	
11456.00†	6989.25	-532.68	-4840.71	11686.53	7119.04	-1479.38	-4835.74	-97.81	955.57	421.67	2.27	PASS	
11556.00†	6988.64	-533.47	-4940.70	11786.53	7118.49	-1479.98	-4935.74	-97.81	955.39	430.71	2.22	PASS	
11656.00†	6988.03	-534.25	-5040.70	11886.53	7117.95	-1480.58	-5035.73	-97.82	955.22	439.75	2.17	PASS	
11756.00†	6987.42	-535.03	-5140.69	11986.53	7117.41	-1481.18	-5135.73	-97.82	955.05	448.79	2.13	PASS	
11856.00†	6986.81	-535.81	-5240.69	12086.53	7116.87	-1481.78	-5235.73	-97.83	954.88	457.84	2.09	PASS	
11956.00†	6986.20	-536.60	-5340.68	12186.53	7116.33	-1482.38	-5335.72	-97.83	954.71	466.89	2.05	PASS	
12056.00†	6985.59	-537.38	-5440.68	12286.53	7115.78	-1482.98	-5435.72	-97.84	954.53	475.94	2.01	PASS	
12156.00†	6984.98	-538.16	-5540.67	12386.53	7115.24	-1483.58	-5535.72	-97.85	954.36	485.00	1.97	PASS	
12256.00†	6984.37	-538.94	-5640.67	12486.53	7114.70	-1484.18	-5635.71	-97.85	954.19	494.06	1.93	PASS	
12356.00†	6983.76	-539.73	-5740.66	12586.53	7114.16	-1484.78	-5735.71	-97.86	954.02	503.12	1.90	PASS	
12456.00†	6983.15	-540.51	-5840.66	12686.53	7113.61	-1485.37	-5835.71	-97.86	953.84	512.19	1.86	PASS	
12556.00†	6982.54	-541.29	-5940.66	12786.53	7113.07	-1485.97	-5935.70	-97.87	953.67	521.25	1.83	PASS	
12656.00†	6981.93	-542.07	-6040.65	12886.53	7112.53	-1486.57	-6035.70	-97.87	953.50	530.32	1.80	PASS	
12756.00†	6981.32	-542.85	-6140.65	12986.53	7111.99	-1487.17	-6135.70	-97.88	953.33	539.40	1.77	PASS	
12856.00†	6980.71	-543.64	-6240.64	13086.53	7111.45	-1487.77	-6235.69	-97.88	953.16	548.47	1.74	PASS	
12956.00†	6980.10	-544.42	-6340.64	13186.53	7110.90	-1488.37	-6335.69	-97.89	952.98	557.55	1.71	PASS	
13056.00†	6979.49	-545.20	-6440.63	13286.53	7110.36	-1488.97	-6435.69	-97.90	952.81	566.62	1.68	PASS	
13156.00†	6978.88	-545.98	-6540.63	13386.53	7109.82	-1489.57	-6535.68	-97.90	952.64	575.70	1.66	PASS	
13256.00†	6978.27	-546.77	-6640.62	13486.53	7109.28	-1490.17	-6635.68	-97.91	952.47	584.79	1.63	PASS	
13356.00†	6977.66	-547.55	-6740.62	13586.53	7108.74	-1490.77	-6735.68	-97.91	952.29	593.87	1.60	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 12N-16C-M PWB Offset Wellpath: HARVESTERS STATE 12N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#15 HARVESTERS STATE 12N-16C-M (1933'FNL & 2336'FEL, SEC.15) Well: HARVESTERS STATE 12N-16C-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
13456.00†	6977.05	-548.33	-6840.61	13686.53	7108.19	-1491.36	-6835.67	-97.92	952.12	602.95	1.58	PASS	
13556.00†	6976.44	-549.11	-6940.61	13786.53	7107.65	-1491.96	-6935.67	-97.92	951.96	612.04	1.56	PASS	
13656.00†	6975.83	-549.89	-7040.60	13886.53	7107.11	-1492.56	-7035.67	-97.93	951.78	621.13	1.53	PASS	
13756.00†	6975.22	-550.68	-7140.60	13986.53	7106.57	-1493.16	-7135.66	-97.94	951.61	630.22	1.51	PASS	
13856.00†	6974.61	-551.46	-7240.59	14086.53	7106.03	-1493.76	-7235.66	-97.94	951.43	639.31	1.49	PASS	
13956.00†	6974.00	-552.24	-7340.59	14186.53	7105.48	-1494.36	-7335.66	-97.95	951.26	648.40	1.47	PASS	
14056.00†	6973.39	-553.02	-7440.58	14286.53	7104.94	-1494.96	-7435.65	-97.95	951.09	657.49	1.45	PASS	
14156.00†	6972.78	-553.81	-7540.58	14386.53	7104.40	-1495.56	-7535.65	-97.96	950.92	666.58	1.43	PASS	
14256.00†	6972.17	-554.59	-7640.57	14486.53	7103.86	-1496.16	-7635.65	-97.96	950.75	675.68	1.41	PASS	
14356.00†	6971.56	-555.37	-7740.57	14586.53	7103.32	-1496.76	-7735.64	-97.97	950.57	684.77	1.39	PASS	
14456.00†	6970.95	-556.15	-7840.56	14686.53	7102.77	-1497.35	-7835.64	-97.97	950.40	693.87	1.37	PASS	
14556.00†	6970.34	-556.94	-7940.56	14786.53	7102.23	-1497.95	-7935.63	-97.98	950.23	702.96	1.35	PASS	
14656.00†	6969.73	-557.72	-8040.55	14886.53	7101.69	-1498.55	-8035.63	-97.99	950.06	712.06	1.33	PASS	
14756.00†	6969.12	-558.50	-8140.55	14986.53	7101.15	-1499.15	-8135.63	-97.99	949.89	721.16	1.32	PASS	
14774.85	6969.00	-558.65	-8159.39	15005.37	7101.04	-1499.26	-8154.47	-97.99	949.85	722.87	1.31	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 12N-16C-M PWB Offset Wellpath: HARVESTERS STATE 12N-16C-M 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: HARVESTERS STATE 12N-16C-M PWB Offset Wellpath: HARVESTERS STATE 12N-16C-M 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	4.00	1750.00	1746.00	5.00	1728.54	-85.32	-0.71	-160.09	-9.73
9.625in Casing Surface	4.00	1750.00	1746.00	5.00	1728.54	-85.32	-0.71	-160.09	-9.73
8.5in Open Hole	1750.00	15013.66	13263.66	1728.54	7101.00	-160.09	-9.73	-499.65	-2488.36



Clearance Report  
HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 12N-16C-M PWB    Offset Wellpath: HARVESTERS STATE 12N-16C-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 12N-16C-M PWB
1750.00	15013.66	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 12N-16C-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 12N-16C-M PWB    Offset Wellpath: HARVESTERS STATE 12N-16C-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 12N-16B-M PWB Offset Wellpath: HARVESTERS STATE 12N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#16 HARVESTERS STATE 12N-16B-M (1953°FNL & 2336°FEL, SEC.15) Well: HARVESTERS STATE 12N-16B-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
1756.00	1752.35	-99.25	-35.49	1704.42	1677.98	-424.02	-29.55	-20.75	333.22	20.54	16.98	PASS	
1783.09	1779.36	-101.16	-36.14	1731.18	1704.06	-430.00	-30.19	-18.31	337.40	20.47	17.08	PASS	
1856.00†	1852.04	-106.64	-37.87	1803.27	1774.30	-446.11	-31.91	-18.28	348.31	20.63	17.45	PASS	
1956.00†	1951.73	-114.15	-40.25	1902.14	1870.65	-468.22	-34.27	-18.24	363.28	20.70	18.13	PASS	
2056.00†	2051.42	-121.67	-42.62	2001.02	1966.99	-490.32	-36.63	-18.21	378.25	20.84	18.76	PASS	
2156.00†	2151.11	-129.18	-45.00	2099.89	2063.33	-512.43	-38.98	-18.18	393.21	21.03	19.32	PASS	
2256.00†	2250.80	-136.70	-47.38	2198.77	2159.67	-534.53	-41.34	-18.15	408.18	21.27	19.81	PASS	
2356.00†	2350.49	-144.21	-49.75	2297.64	2256.02	-556.63	-43.70	-18.12	423.14	21.58	20.24	PASS	
2456.00†	2450.18	-151.73	-52.13	2396.51	2352.36	-578.74	-46.06	-18.09	438.11	21.93	20.61	PASS	
2556.00†	2549.87	-159.25	-54.51	2495.39	2448.70	-600.84	-48.41	-18.07	453.07	22.33	20.92	PASS	
2656.00†	2649.55	-166.76	-56.88	2594.26	2545.04	-622.94	-50.77	-18.05	468.04	22.79	21.17	PASS	
2756.00†	2749.24	-174.28	-59.26	2693.13	2641.39	-645.05	-53.13	-18.02	483.01	23.28	21.37	PASS	
2856.00†	2848.93	-181.79	-61.63	2792.01	2737.73	-667.15	-55.49	-18.01	497.97	23.82	21.52	PASS	
2956.00†	2948.62	-189.31	-64.01	2890.88	2834.07	-689.25	-57.84	-17.99	512.94	24.39	21.63	PASS	
3056.00†	3048.31	-196.82	-66.39	2989.75	2930.41	-711.36	-60.20	-17.97	527.91	25.00	21.70	PASS	
3156.00†	3148.00	-204.34	-68.76	3088.63	3026.76	-733.46	-62.56	-17.95	542.87	25.65	21.74	PASS	
3256.00†	3247.69	-211.85	-71.14	3187.50	3123.10	-755.56	-64.92	-17.94	557.84	26.32	21.75	PASS	
3356.00†	3347.38	-219.37	-73.52	3286.37	3219.44	-777.67	-67.28	-17.92	572.81	27.03	21.74	PASS	
3456.00†	3447.07	-226.88	-75.89	3385.25	3315.78	-799.77	-69.63	-17.91	587.77	27.75	21.71	PASS	
3556.00†	3546.75	-234.40	-78.27	3484.12	3412.12	-821.88	-71.99	-17.89	602.74	28.51	21.66	PASS	
3656.00†	3646.44	-241.91	-80.65	3583.00	3508.47	-843.98	-74.35	-17.88	617.71	29.28	21.59	PASS	
3756.00†	3746.13	-249.43	-83.02	3681.87	3604.81	-866.08	-76.71	-17.87	632.67	30.08	21.52	PASS	
3856.00†	3845.82	-256.94	-85.40	3780.74	3701.15	-888.19	-79.06	-17.86	647.64	30.89	21.43	PASS	
3956.00†	3945.51	-264.46	-87.77	3879.62	3797.49	-910.29	-81.42	-17.85	662.61	31.72	21.34	PASS	
4056.00†	4045.20	-271.98	-90.15	3978.49	3893.84	-932.39	-83.78	-17.84	677.57	32.57	21.24	PASS	
4156.00†	4144.89	-279.49	-92.53	4077.36	3990.18	-954.50	-86.14	-17.83	692.54	33.44	21.14	PASS	
4256.00†	4244.58	-287.01	-94.90	4176.24	4086.52	-976.60	-88.49	-17.82	707.51	34.31	21.03	PASS	
4356.00†	4344.27	-294.52	-97.28	4275.11	4182.86	-998.70	-90.85	-17.81	722.47	35.20	20.93	PASS	
4456.00†	4443.95	-302.04	-99.66	4373.98	4279.21	-1020.81	-93.21	-17.80	737.44	36.10	20.82	PASS	
4556.00†	4543.64	-309.55	-102.03	4472.86	4375.55	-1042.91	-95.57	-17.79	752.41	37.01	20.71	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 12N-16B-M PWB Offset Wellpath: HARVESTERS STATE 12N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W		Slot: SLOTH16 HARVESTERS STATE 12N-16B-M (1953'FNL & 2336'FEL, SEC.15)		Well: HARVESTERS STATE 12N-16B-M		Threshold Value=1.00 † = interpolated/extrapolated static						
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4656.00†	4643.33	-317.07	-104.41	4571.73	4471.89	-1065.02	-97.93	-17.78	767.37	37.93	20.60	PASS
4756.00†	4743.02	-324.58	-106.79	4670.60	4568.23	-1087.12	-100.28	-17.77	782.34	38.86	20.49	PASS
4856.00†	4842.71	-332.10	-109.16	4769.48	4664.58	-1109.22	-102.64	-17.76	797.31	39.80	20.38	PASS
4956.00†	4942.40	-339.61	-111.54	4868.35	4760.92	-1131.33	-105.00	-17.76	812.27	40.75	20.27	PASS
5056.00†	5042.09	-347.13	-113.92	4967.23	4857.26	-1153.43	-107.36	-17.75	827.24	41.70	20.16	PASS
5156.00†	5141.78	-354.64	-116.29	5066.10	4953.60	-1175.53	-109.71	-17.74	842.21	42.66	20.06	PASS
5256.00†	5241.47	-362.16	-118.67	5164.97	5049.95	-1197.64	-112.07	-17.74	857.17	43.63	19.95	PASS
5356.00†	5341.15	-369.68	-121.04	5263.85	5146.29	-1219.74	-114.43	-17.73	872.14	44.60	19.85	PASS
5456.00†	5440.84	-377.19	-123.42	5362.72	5242.63	-1241.84	-116.79	-17.72	887.11	45.58	19.75	PASS
5556.00†	5540.53	-384.71	-125.80	5461.59	5338.97	-1263.95	-119.15	-17.72	902.07	46.57	19.65	PASS
5656.00†	5640.22	-392.22	-128.17	5560.47	5435.31	-1286.05	-121.50	-17.71	917.04	47.56	19.56	PASS
5756.00†	5739.91	-399.74	-130.55	5659.34	5531.66	-1308.16	-123.86	-17.71	932.01	48.55	19.46	PASS
5856.00†	5839.60	-407.25	-132.93	5758.21	5628.00	-1330.26	-126.22	-17.70	946.97	49.55	19.37	PASS
5956.00†	5939.29	-414.77	-135.30	5857.09	5724.34	-1352.36	-128.58	-17.70	961.94	50.55	19.28	PASS
6056.00†	6038.98	-422.28	-137.68	5955.96	5820.68	-1374.47	-130.93	-17.69	976.91	51.56	19.20	PASS
6156.00†	6138.67	-429.80	-140.06	6054.83	5917.03	-1396.57	-133.29	-17.68	991.88	52.57	19.11	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 12N-16B-M PWB Offset Wellpath: HARVESTERS STATE 12N-16B-M 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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

HOLE & CASING SECTIONS - Offset Wellbore: HARVESTERS STATE 12N-16B-M PWB Offset Wellpath: HARVESTERS STATE 12N-16B-M 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	4.00	1750.00	1746.00	5.00	1722.40	-97.53	-0.85	-181.11	-9.76
9.625in Casing Surface	4.00	1750.00	1746.00	5.00	1722.40	-97.53	-0.85	-181.11	-9.76
8.5in Open Hole	1750.00	14979.44	13229.44	1722.40	7049.00	-181.11	-9.76	-569.50	-2488.88

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 12N-16B-M PWB Offset Wellpath: HARVESTERS STATE 12N-16B-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 12N-16B-M PWB
1750.00	14979.44	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 12N-16B-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 12N-16B-M PWB Offset Wellpath: HARVESTERS STATE 12N-16B-M PWP (REV-A.0)	
MD Reference: PROEPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 31C-16-M PWB Offset Wellpath: HARVESTERS STATE 31C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#06 HARVESTERS STATE 31C-16-M (1693°FNL & 2333°FEL, SEC.15) Well: HARVESTERS STATE 31C-16-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		
1756.00	1752.35	-99.25	-35.49	1734.40	1730.34	203.66	-33.17	160.32	303.71	19.68	16.18	PASS		
1783.09	1779.36	-101.16	-36.14	1761.21	1757.07	205.60	-33.81	162.74	307.58	19.57	16.27	PASS		
1856.00†	1852.04	-106.64	-37.87	1833.33	1828.98	210.84	-35.53	162.73	318.32	19.71	16.72	PASS		
1956.00†	1951.73	-114.15	-40.25	1932.24	1927.60	218.02	-37.89	162.71	333.06	19.79	17.42	PASS		
2056.00†	2051.42	-121.67	-42.62	2031.15	2026.22	225.21	-40.25	162.70	347.80	19.92	18.06	PASS		
2156.00†	2151.11	-129.18	-45.00	2130.05	2124.83	232.39	-42.61	162.68	362.53	20.12	18.64	PASS		
2256.00†	2250.80	-136.70	-47.38	2228.96	2223.45	239.57	-44.97	162.67	377.27	20.36	19.16	PASS		
2356.00†	2350.49	-144.21	-49.75	2327.87	2322.07	246.75	-47.33	162.66	392.01	20.66	19.61	PASS		
2456.00†	2450.18	-151.73	-52.13	2426.78	2420.69	253.94	-49.69	162.65	406.74	21.01	20.00	PASS		
2556.00†	2549.87	-159.25	-54.51	2525.69	2519.31	261.12	-52.06	162.64	421.48	21.41	20.33	PASS		
2656.00†	2649.55	-166.76	-56.88	2624.59	2617.93	268.30	-54.42	162.63	436.22	21.85	20.60	PASS		
2756.00†	2749.24	-174.28	-59.26	2723.50	2716.55	275.48	-56.78	162.62	450.95	22.33	20.82	PASS		
2856.00†	2848.93	-181.79	-61.63	2822.41	2815.17	282.67	-59.14	162.61	465.69	22.86	20.99	PASS		
2956.00†	2948.62	-189.31	-64.01	2921.32	2913.78	289.85	-61.50	162.60	480.43	23.42	21.13	PASS		
3056.00†	3048.31	-196.82	-66.39	3020.23	3012.40	297.03	-63.86	162.60	495.16	24.01	21.22	PASS		
3156.00†	3148.00	-204.34	-68.76	3119.14	3111.02	304.21	-66.22	162.59	509.90	24.63	21.28	PASS		
3256.00†	3247.69	-211.85	-71.14	3218.04	3209.64	311.40	-68.58	162.58	524.64	25.29	21.32	PASS		
3356.00†	3347.38	-219.37	-73.52	3316.95	3308.26	318.58	-70.95	162.58	539.37	25.97	21.33	PASS		
3456.00†	3447.07	-226.88	-75.89	3415.86	3406.88	325.76	-73.31	162.57	554.11	26.67	21.31	PASS		
3556.00†	3546.75	-234.40	-78.27	3514.77	3505.50	332.94	-75.67	162.57	568.85	27.40	21.29	PASS		
3656.00†	3646.44	-241.91	-80.65	3613.68	3604.12	340.13	-78.03	162.56	583.58	28.15	21.24	PASS		
3756.00†	3746.13	-249.43	-83.02	3712.58	3702.73	347.31	-80.39	162.56	598.32	28.92	21.19	PASS		
3856.00†	3845.82	-256.94	-85.40	3811.49	3801.35	354.49	-82.75	162.55	613.06	29.70	21.12	PASS		
3956.00†	3945.51	-264.46	-87.77	3910.40	3899.97	361.67	-85.11	162.55	627.79	30.50	21.05	PASS		
4056.00†	4045.20	-271.98	-90.15	4009.31	3998.59	368.86	-87.47	162.54	642.53	31.32	20.97	PASS		
4156.00†	4144.89	-279.49	-92.53	4108.22	4097.21	376.04	-89.83	162.54	657.27	32.15	20.88	PASS		
4256.00†	4244.58	-287.01	-94.90	4207.13	4195.83	383.22	-92.20	162.54	672.00	32.99	20.79	PASS		
4356.00†	4344.27	-294.52	-97.28	4306.03	4294.45	390.40	-94.56	162.53	686.74	33.85	20.70	PASS		
4456.00†	4443.95	-302.04	-99.66	4404.94	4393.07	397.58	-96.92	162.53	701.48	34.72	20.61	PASS		
4556.00†	4543.64	-309.55	-102.03	4503.85	4491.69	404.77	-99.28	162.52	716.21	35.59	20.51	PASS		

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 31C-16-M PWB Offset Wellpath: HARVESTERS STATE 31C-16-M PWP (REV-A.0)													
Facility: SEC.15-T06N-R66W Slot: SLOT#06 HARVESTERS STATE 31C-16-M (1693'FNL & 2333'FEL, SEC.15) Well: HARVESTERS STATE 31C-16-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	
4656.00†	4643.33	-317.07	-104.41	4602.76	4590.30	411.95	-101.64	162.52	730.95	36.48	20.42	PASS	
4756.00†	4743.02	-324.58	-106.79	4701.67	4688.92	419.13	-104.00	162.52	745.69	37.37	20.32	PASS	
4856.00†	4842.71	-332.10	-109.16	4800.57	4787.54	426.31	-106.36	162.51	760.42	38.27	20.22	PASS	
4956.00†	4942.40	-339.61	-111.54	4899.48	4886.16	433.50	-108.72	162.51	775.16	39.18	20.13	PASS	
5056.00†	5042.09	-347.13	-113.92	4998.39	4984.78	440.68	-111.09	162.51	789.90	40.10	20.03	PASS	
5156.00†	5141.78	-354.64	-116.29	5097.30	5083.40	447.86	-113.45	162.51	804.63	41.03	19.94	PASS	
5256.00†	5241.47	-362.16	-118.67	5196.21	5182.02	455.04	-115.81	162.50	819.37	41.96	19.85	PASS	
5356.00†	5341.15	-369.68	-121.04	5295.12	5280.64	462.23	-118.17	162.50	834.11	42.89	19.76	PASS	
5456.00†	5440.84	-377.19	-123.42	5394.02	5379.25	469.41	-120.53	162.50	848.84	43.83	19.67	PASS	
5556.00†	5540.53	-384.71	-125.80	5492.93	5477.87	476.59	-122.89	162.50	863.58	44.78	19.58	PASS	
5656.00†	5640.22	-392.22	-128.17	5591.84	5576.49	483.77	-125.25	162.49	878.32	45.73	19.49	PASS	
5756.00†	5739.91	-399.74	-130.55	5690.75	5675.11	490.96	-127.61	162.49	893.05	46.68	19.41	PASS	
5856.00†	5839.60	-407.25	-132.93	5789.66	5773.73	498.14	-129.98	162.49	907.79	47.64	19.33	PASS	
5956.00†	5939.29	-414.77	-135.30	5888.56	5872.35	505.32	-132.34	162.49	922.53	48.60	19.25	PASS	
6056.00†	6038.98	-422.28	-137.68	5987.47	5970.97	512.50	-134.70	162.49	937.26	49.57	19.17	PASS	
6156.00†	6138.67	-429.80	-140.06	6086.38	6069.59	519.69	-137.06	162.48	952.00	50.54	19.09	PASS	
6256.00†	6238.35	-437.31	-142.43	6185.29	6168.20	526.87	-139.42	162.48	966.74	51.51	19.01	PASS	
6356.00†	6338.04	-444.83	-144.81	6284.20	6266.82	534.05	-141.78	162.48	981.47	52.49	18.94	PASS	
6412.80	6394.66	-449.10	-146.16	6340.38	6322.84	538.13	-143.12	162.48	989.84	53.05	18.90	PASS	
6456.00†	6437.66	-452.35	-148.65	6383.07	6365.41	541.23	-144.14	129.17	996.22	53.47	18.87	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 31C-16-M PWB Offset Wellpath: HARVESTERS STATE 31C-16-M 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**  
**HARVESTERS STATE 32N-16A-M (REV-B.0) PWP**  
**Closest Approach**  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

HOLE & CASING SECTIONS - Offset Wellbore: HARVESTERS STATE 31C-16-M PWB Offset Wellpath: HARVESTERS STATE 31C-16-M 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	4.00	1750.00	1746.00	4.00	1745.89	61.07	0.52	92.96	-9.96
9.625in Casing Surface	4.00	1750.00	1746.00	4.00	1745.89	61.07	0.52	92.96	-9.96
8.5in Open Hole	1750.00	15011.53	13261.53	1745.89	N/A	92.96	-9.96	N/A	N/A

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 31C-16-M PWB Offset Wellpath: HARVESTERS STATE 31C-16-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 31C-16-M PWB
1750.00	15011.53	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 31C-16-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 31C-16-M PWB Offset Wellpath: HARVESTERS STATE 31C-16-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 4N-16A-M PWB Offset Wellpath: HARVESTERS STATE 4N-16A-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#05 HARVESTERS STATE 4N-16A-M (1673°FNL & 2333°FEL, SEC.15) Well: HARVESTERS STATE 4N-16A-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	
1756.00†	1752.35	-99.25	-35.49	1721.39	1713.57	264.92	-33.35	160.17	366.23	19.83	19.36	PASS	
1783.09	1779.36	-101.16	-36.14	1748.05	1740.08	267.75	-34.03	162.59	371.00	19.77	19.47	PASS	
1856.00†	1852.04	-106.64	-37.87	1819.77	1811.37	275.35	-35.84	162.56	384.15	19.89	19.99	PASS	
1956.00†	1951.73	-114.15	-40.25	1918.13	1909.14	285.77	-38.32	162.53	402.19	19.96	20.85	PASS	
2056.00†	2051.42	-121.67	-42.62	2016.49	2006.91	296.20	-40.80	162.51	420.23	20.10	21.64	PASS	
2156.00†	2151.11	-129.18	-45.00	2114.84	2104.69	306.62	-43.28	162.48	438.28	20.29	22.35	PASS	
2256.00†	2250.80	-136.70	-47.38	2213.20	2202.46	317.05	-45.76	162.46	456.32	20.53	22.99	PASS	
2356.00†	2350.49	-144.21	-49.75	2311.56	2300.23	327.47	-48.24	162.44	474.36	20.82	23.55	PASS	
2456.00†	2450.18	-151.73	-52.13	2409.92	2398.01	337.90	-50.72	162.42	492.40	21.17	24.03	PASS	
2556.00†	2549.87	-159.25	-54.51	2508.28	2495.78	348.32	-53.20	162.40	510.44	21.56	24.43	PASS	
2656.00†	2649.55	-166.76	-56.88	2606.64	2593.55	358.75	-55.68	162.39	528.48	21.99	24.79	PASS	
2756.00†	2749.24	-174.28	-59.26	2705.00	2691.33	369.17	-58.16	162.37	546.53	22.47	25.08	PASS	
2856.00†	2848.93	-181.79	-61.63	2803.36	2789.10	379.60	-60.65	162.36	564.57	22.99	25.31	PASS	
2956.00†	2948.62	-189.31	-64.01	2901.72	2886.87	390.02	-63.13	162.34	582.61	23.54	25.48	PASS	
3056.00†	3048.31	-196.82	-66.39	3000.07	2984.65	400.45	-65.61	162.33	600.65	24.13	25.61	PASS	
3156.00†	3148.00	-204.34	-68.76	3098.43	3082.42	410.87	-68.09	162.32	618.70	24.75	25.70	PASS	
3256.00†	3247.69	-211.85	-71.14	3196.79	3180.19	421.30	-70.57	162.31	636.74	25.40	25.76	PASS	
3356.00†	3347.38	-219.37	-73.52	3295.15	3277.97	431.72	-73.05	162.30	654.78	26.08	25.78	PASS	
3456.00†	3447.07	-226.88	-75.89	3393.51	3375.74	442.15	-75.53	162.29	672.82	26.78	25.78	PASS	
3556.00†	3546.75	-234.40	-78.27	3491.87	3473.51	452.57	-78.01	162.28	690.86	27.50	25.76	PASS	
3656.00†	3646.44	-241.91	-80.65	3590.23	3571.29	463.00	-80.49	162.27	708.91	28.25	25.71	PASS	
3756.00†	3746.13	-249.43	-83.02	3688.59	3669.06	473.42	-82.97	162.26	726.95	29.01	25.66	PASS	
3856.00†	3845.82	-256.94	-85.40	3786.94	3766.83	483.85	-85.46	162.25	744.99	29.80	25.59	PASS	
3956.00†	3945.51	-264.46	-87.77	3885.30	3864.61	494.27	-87.94	162.24	763.03	30.59	25.51	PASS	
4056.00†	4045.20	-271.98	-90.15	3983.66	3962.38	504.70	-90.42	162.23	781.08	31.41	25.42	PASS	
4156.00†	4144.89	-279.49	-92.53	4082.02	4060.15	515.12	-92.90	162.23	799.12	32.24	25.32	PASS	
4256.00†	4244.58	-287.01	-94.90	4180.38	4157.93	525.55	-95.38	162.22	817.16	33.08	25.22	PASS	
4356.00†	4344.27	-294.52	-97.28	4278.74	4255.70	535.97	-97.86	162.21	835.20	33.93	25.12	PASS	
4456.00†	4443.95	-302.04	-99.66	4377.10	4353.47	546.40	-100.34	162.21	853.25	34.80	25.01	PASS	
4556.00†	4543.64	-309.55	-102.03	4475.46	4451.25	556.82	-102.82	162.20	871.29	35.67	24.90	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 4N-16A-M PWB Offset Wellpath: HARVESTERS STATE 4N-16A-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#05 HARVESTERS STATE 4N-16A-M (1673°FNL & 2333°FEL, SEC.15) Well: HARVESTERS STATE 4N-16A-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	
4656.00†	4643.33	-317.07	-104.41	4573.82	4549.02	567.25	-105.30	162.20	889.33	36.55	24.79	PASS	
4756.00†	4743.02	-324.58	-106.79	4672.17	4646.79	577.67	-107.78	162.19	907.37	37.45	24.68	PASS	
4856.00†	4842.71	-332.10	-109.16	4770.53	4744.57	588.10	-110.27	162.19	925.42	38.35	24.57	PASS	
4956.00†	4942.40	-339.61	-111.54	4868.89	4842.34	598.52	-112.75	162.18	943.46	39.26	24.46	PASS	
5056.00†	5042.09	-347.13	-113.92	4967.25	4940.11	608.95	-115.23	162.18	961.50	40.17	24.35	PASS	
5156.00†	5141.78	-354.64	-116.29	5065.61	5037.89	619.37	-117.71	162.17	979.54	41.10	24.24	PASS	
5256.00†	5241.47	-362.16	-118.67	5163.97	5135.66	629.80	-120.19	162.17	997.59	42.02	24.13	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 4N-16A-M PWB Offset Wellpath: HARVESTERS STATE 4N-16A-M 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: HARVESTERS STATE 4N-16A-M PWB Offset Wellpath: HARVESTERS STATE 4N-16A-M 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	4.00	1750.00	1746.00	4.00	1742.01	73.29	0.66	118.32	-10.06
9.625in Casing Surface	4.00	1750.00	1746.00	4.00	1742.01	73.29	0.66	118.32	-10.06
8.5in Open Hole	1750.00	14728.99	12978.99	1742.01	6929.00	118.32	-10.06	269.68	-2487.71

## SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 4N-16A-M PWB Offset Wellpath: HARVESTERS STATE 4N-16A-M PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 4N-16A-M PWB
1750.00	14728.99	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 4N-16A-M PWB



**Clearance Report**  
**HARVESTERS STATE 32N-16A-M (REV-B.0) PWP**  
**Closest Approach**  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 4N-16A-M PWB Offset Wellpath: HARVESTERS STATE 4N-16A-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 12N-16A-M PWB Offset Wellpath: HARVESTERS STATE 12N-16A-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#17 HARVESTERS STATE 12N-16A-M (1793'FNL & 2336'FEL, SEC.15) Well: HARVESTERS STATE 12N-16A-M Threshold Value=1.00 † = interpolated/extrapolated stati													ACR	
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status		
1756.00	1752.35	-99.25	-35.49	1687.69	1655.35	-466.07	-28.34	-20.77	379.50	20.61	19.27	PASS		
1783.09	1779.36	-101.16	-36.14	1714.30	1681.06	-472.88	-28.98	-18.33	384.57	20.58	19.36	PASS		
1856.00†	1852.04	-106.64	-37.87	1785.98	1750.34	-491.24	-30.71	-18.29	397.88	20.74	19.83	PASS		
1956.00†	1951.73	-114.15	-40.25	1884.30	1845.35	-516.41	-33.08	-18.25	416.14	20.86	20.62	PASS		
2056.00†	2051.42	-121.67	-42.62	1982.62	1940.36	-541.58	-35.46	-18.20	434.41	20.99	21.39	PASS		
2156.00†	2151.11	-129.18	-45.00	2080.94	2035.37	-566.75	-37.83	-18.17	452.67	21.17	22.08	PASS		
2256.00†	2250.80	-136.70	-47.38	2179.26	2130.38	-591.92	-40.20	-18.13	470.93	21.42	22.70	PASS		
2356.00†	2350.49	-144.21	-49.75	2277.57	2225.39	-617.09	-42.57	-18.10	489.19	21.72	23.25	PASS		
2456.00†	2450.18	-151.73	-52.13	2375.89	2320.41	-642.26	-44.94	-18.07	507.45	22.07	23.72	PASS		
2556.00†	2549.87	-159.25	-54.51	2474.21	2415.42	-667.43	-47.31	-18.04	525.72	22.48	24.12	PASS		
2656.00†	2649.55	-166.76	-56.88	2572.53	2510.43	-692.60	-49.68	-18.01	543.98	22.93	24.45	PASS		
2756.00†	2749.24	-174.28	-59.26	2670.85	2605.44	-717.77	-52.06	-17.99	562.24	23.42	24.72	PASS		
2856.00†	2848.93	-181.79	-61.63	2769.16	2700.45	-742.94	-54.43	-17.97	580.51	23.96	24.94	PASS		
2956.00†	2948.62	-189.31	-64.01	2867.48	2795.46	-768.11	-56.80	-17.95	598.77	24.54	25.10	PASS		
3056.00†	3048.31	-196.82	-66.39	2965.80	2890.48	-793.28	-59.17	-17.93	617.03	25.15	25.22	PASS		
3156.00†	3148.00	-204.34	-68.76	3064.12	2985.49	-818.45	-61.54	-17.91	635.29	25.80	25.29	PASS		
3256.00†	3247.69	-211.85	-71.14	3162.44	3080.50	-843.62	-63.91	-17.89	653.56	26.48	25.34	PASS		
3356.00†	3347.38	-219.37	-73.52	3260.75	3175.51	-868.79	-66.29	-17.87	671.82	27.18	25.35	PASS		
3456.00†	3447.07	-226.88	-75.89	3359.07	3270.52	-893.96	-68.66	-17.85	690.08	27.92	25.34	PASS		
3556.00†	3546.75	-234.40	-78.27	3457.39	3365.54	-919.13	-71.03	-17.84	708.35	28.67	25.30	PASS		
3656.00†	3646.44	-241.91	-80.65	3555.71	3460.55	-944.30	-73.40	-17.82	726.61	29.45	25.25	PASS		
3756.00†	3746.13	-249.43	-83.02	3654.02	3555.56	-969.48	-75.77	-17.81	744.87	30.25	25.19	PASS		
3856.00†	3845.82	-256.94	-85.40	3752.34	3650.57	-994.65	-78.14	-17.80	763.14	31.07	25.11	PASS		
3956.00†	3945.51	-264.46	-87.77	3850.66	3745.58	-1019.82	-80.51	-17.79	781.40	31.91	25.02	PASS		
4056.00†	4045.20	-271.98	-90.15	3948.98	3840.59	-1044.99	-82.89	-17.77	799.66	32.77	24.92	PASS		
4156.00†	4144.89	-279.49	-92.53	4047.30	3935.61	-1070.16	-85.26	-17.76	817.93	33.63	24.82	PASS		
4256.00†	4244.58	-287.01	-94.90	4145.61	4030.62	-1095.33	-87.63	-17.75	836.19	34.52	24.71	PASS		
4356.00†	4344.27	-294.52	-97.28	4243.93	4125.63	-1120.50	-90.00	-17.74	854.45	35.41	24.60	PASS		
4456.00†	4443.95	-302.04	-99.66	4342.25	4220.64	-1145.67	-92.37	-17.73	872.72	36.32	24.49	PASS		
4556.00†	4543.64	-309.55	-102.03	4440.57	4315.65	-1170.84	-94.74	-17.72	890.98	37.24	24.37	PASS		

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 12N-16A-M PWB Offset Wellpath: HARVESTERS STATE 12N-16A-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#17 HARVESTERS STATE 12N-16A-M (1973'FNL & 2336'FEL, SEC.15) Well: HARVESTERS STATE 12N-16A-M Threshold Value=1.00 † = interpolated/extrapolated status												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4656.00†	4643.33	-317.07	-104.41	4538.89	4410.67	-1196.01	-97.12	-17.71	909.25	38.17	24.25	PASS
4756.00†	4743.02	-324.58	-106.79	4637.20	4505.68	-1221.18	-99.49	-17.70	927.51	39.10	24.14	PASS
4856.00†	4842.71	-332.10	-109.16	4735.52	4600.69	-1246.35	-101.86	-17.69	945.77	40.05	24.02	PASS
4956.00†	4942.40	-339.61	-111.54	4833.84	4695.70	-1271.52	-104.23	-17.68	964.04	41.01	23.91	PASS
5056.00†	5042.09	-347.13	-113.92	4932.16	4790.71	-1296.69	-106.60	-17.68	982.30	41.97	23.79	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 12N-16A-M PWB Offset Wellpath: HARVESTERS STATE 12N-16A-M 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: HARVESTERS STATE 12N-16A-M PWB Offset Wellpath: HARVESTERS STATE 12N-16A-M 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	4.00	1750.00	1746.00	5.00	1715.56	-109.75	-0.85	-201.80	-9.52
9.625in Casing Surface	4.00	1750.00	1746.00	5.00	1715.56	-109.75	-0.85	-201.80	-9.52
8.5in Open Hole	1750.00	14915.82	13165.82	1715.56	6923.00	-201.80	-9.52	-639.34	-2489.32

## SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 12N-16A-M PWB Offset Wellpath: HARVESTERS STATE 12N-16A-M PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 12N-16A-M PWB
1750.00	14915.82	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 12N-16A-M PWB



**Clearance Report**  
**HARVESTERS STATE 32N-16A-M (REV-B.0) PWP**  
**Closest Approach**  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 12N-16A-M PWB    Offset Wellpath: HARVESTERS STATE 12N-16A-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 4N-16C-M PWB Offset Wellpath: HARVESTERS STATE 4N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#04 HARVESTERS STATE 4N-16C-M (1653°FNL & 2333°FEL, SEC.15) Well: HARVESTERS STATE 4N-16C-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	
1756.00	1752.35	-99.25	-35.49	1708.40	1696.96	314.85	-30.87	160.44	417.81	19.93	21.98	PASS	
1783.09	1779.36	-101.16	-36.14	1734.93	1723.25	318.37	-31.52	162.85	423.29	19.87	22.11	PASS	
1856.00†	1852.04	-106.64	-37.87	1806.27	1793.93	327.84	-33.25	162.83	438.37	20.02	22.66	PASS	
1956.00†	1951.73	-114.15	-40.25	1904.10	1890.87	340.83	-35.63	162.81	459.06	20.09	23.65	PASS	
2056.00†	2051.42	-121.67	-42.62	2001.94	1987.81	353.82	-38.01	162.78	479.75	20.22	24.55	PASS	
2156.00†	2151.11	-129.18	-45.00	2099.78	2084.75	366.82	-40.39	162.76	500.44	20.41	25.37	PASS	
2256.00†	2250.80	-136.70	-47.38	2197.61	2181.69	379.81	-42.76	162.74	521.13	20.65	26.10	PASS	
2356.00†	2350.49	-144.21	-49.75	2295.45	2278.63	392.80	-45.14	162.72	541.82	20.94	26.75	PASS	
2456.00†	2450.18	-151.73	-52.13	2393.28	2375.57	405.79	-47.52	162.70	562.51	21.28	27.31	PASS	
2556.00†	2549.87	-159.25	-54.51	2491.12	2472.51	418.78	-49.90	162.68	583.20	21.66	27.80	PASS	
2656.00†	2649.55	-166.76	-56.88	2588.96	2569.45	431.77	-52.27	162.66	603.89	22.10	28.20	PASS	
2756.00†	2749.24	-174.28	-59.26	2686.79	2666.39	444.77	-54.65	162.65	624.58	22.57	28.54	PASS	
2856.00†	2848.93	-181.79	-61.63	2784.63	2763.34	457.76	-57.03	162.63	645.27	23.09	28.80	PASS	
2956.00†	2948.62	-189.31	-64.01	2882.46	2860.28	470.75	-59.41	162.62	665.96	23.64	29.01	PASS	
3056.00†	3048.31	-196.82	-66.39	2980.30	2957.22	483.74	-61.79	162.61	686.65	24.22	29.17	PASS	
3156.00†	3148.00	-204.34	-68.76	3078.14	3054.16	496.73	-64.16	162.60	707.34	24.84	29.28	PASS	
3256.00†	3247.69	-211.85	-71.14	3175.97	3151.10	509.72	-66.54	162.59	728.03	25.48	29.36	PASS	
3356.00†	3347.38	-219.37	-73.52	3273.81	3248.04	522.72	-68.92	162.58	748.72	26.16	29.39	PASS	
3456.00†	3447.07	-226.88	-75.89	3371.64	3344.98	535.71	-71.30	162.57	769.41	26.86	29.40	PASS	
3556.00†	3546.75	-234.40	-78.27	3469.48	3441.92	548.70	-73.68	162.56	790.10	27.58	29.38	PASS	
3656.00†	3646.44	-241.91	-80.65	3567.32	3538.86	561.69	-76.05	162.55	810.79	28.32	29.34	PASS	
3756.00†	3746.13	-249.43	-83.02	3665.15	3635.80	574.68	-78.43	162.54	831.48	29.08	29.28	PASS	
3856.00†	3845.82	-256.94	-85.40	3762.99	3732.74	587.67	-80.81	162.53	852.17	29.86	29.20	PASS	
3956.00†	3945.51	-264.46	-87.77	3860.83	3829.68	600.67	-83.19	162.52	872.86	30.66	29.12	PASS	
4056.00†	4045.20	-271.98	-90.15	3958.66	3926.62	613.66	-85.56	162.52	893.55	31.47	29.02	PASS	
4156.00†	4144.89	-279.49	-92.53	4056.50	4023.56	626.65	-87.94	162.51	914.24	32.30	28.92	PASS	
4256.00†	4244.58	-287.01	-94.90	4154.33	4120.50	639.64	-90.32	162.50	934.93	33.14	28.81	PASS	
4356.00†	4344.27	-294.52	-97.28	4252.17	4217.44	652.63	-92.70	162.50	955.62	33.99	28.69	PASS	
4456.00†	4443.95	-302.04	-99.66	4350.01	4314.38	665.62	-95.08	162.49	976.31	34.86	28.57	PASS	
4556.00†	4543.64	-309.55	-102.03	4447.84	4411.33	678.62	-97.45	162.49	997.00	35.73	28.45	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 4N-16C-M PWB Offset Wellpath: HARVESTERS STATE 4N-16C-M 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: HARVESTERS STATE 4N-16C-M PWB Offset Wellpath: HARVESTERS STATE 4N-16C-M 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	4.00	1750.00	1746.00	4.00	1738.18	85.50	0.66	140.40	-9.39
9.625in Casing Surface	4.00	1750.00	1746.00	4.00	1738.18	85.50	0.66	140.40	-9.39
8.5in Open Hole	1750.00	14943.26	13193.26	1738.18	N/A	140.40	-9.39	N/A	N/A

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 4N-16C-M PWB Offset Wellpath: HARVESTERS STATE 4N-16C-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 4N-16C-M PWB
1750.00	14943.26	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 4N-16C-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 4N-16C-M PWB Offset Wellpath: HARVESTERS STATE 4N-16C-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 33C-16-M PWB Offset Wellpath: HARVESTERS STATE 33C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#18 HARVESTERS STATE 33C-16-M (1993°FNL & 2336°FEL, SEC.15)						Well: HARVESTERS STATE 33C-16-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
1756.00	1752.35	-99.25	-35.49	1675.97	1640.96	-494.08	-26.18	-20.97	410.34	20.62	20.82	PASS
1783.00	1779.36	-101.16	-36.14	1702.49	1666.48	-501.29	-26.78	-18.54	415.85	20.62	20.90	PASS
1856.00†	1852.04	-106.64	-37.87	1773.94	1735.22	-520.72	-28.40	-18.51	430.35	20.79	21.40	PASS
1956.00†	1951.73	-114.15	-40.25	1871.95	1829.50	-547.37	-30.61	-18.47	450.23	20.93	22.23	PASS
2056.00†	2051.42	-121.67	-42.62	1969.95	1923.78	-574.02	-32.83	-18.44	470.12	21.06	23.07	PASS
2156.00†	2151.11	-129.18	-45.00	2067.95	2018.07	-600.67	-35.05	-18.41	490.00	21.24	23.83	PASS
2256.00†	2250.80	-136.70	-47.38	2165.96	2112.35	-627.32	-37.26	-18.38	509.88	21.49	24.51	PASS
2356.00†	2350.49	-144.21	-49.75	2263.96	2206.64	-653.98	-39.48	-18.35	529.77	21.78	25.10	PASS
2456.00†	2450.18	-151.73	-52.13	2361.96	2300.92	-680.63	-41.70	-18.33	549.65	22.14	25.62	PASS
2556.00†	2549.87	-159.25	-54.51	2459.97	2395.20	-707.28	-43.91	-18.31	569.54	22.54	26.06	PASS
2656.00†	2649.55	-166.76	-56.88	2557.97	2489.49	-733.93	-46.13	-18.29	589.42	22.99	26.42	PASS
2756.00†	2749.24	-174.28	-59.26	2655.97	2583.77	-760.58	-48.35	-18.27	609.31	23.48	26.72	PASS
2856.00†	2848.93	-181.79	-61.63	2753.97	2678.05	-787.23	-50.56	-18.25	629.19	24.02	26.96	PASS
2956.00†	2948.62	-189.31	-64.01	2851.98	2772.34	-813.88	-52.78	-18.23	649.07	24.60	27.14	PASS
3056.00†	3048.31	-196.82	-66.39	2949.98	2866.62	-840.53	-54.99	-18.22	668.96	25.21	27.27	PASS
3156.00†	3148.00	-204.34	-68.76	3047.98	2960.90	-867.18	-57.21	-18.20	688.84	25.86	27.36	PASS
3256.00†	3247.69	-211.85	-71.14	3145.99	3055.19	-893.84	-59.43	-18.19	708.73	26.54	27.41	PASS
3356.00†	3347.38	-219.37	-73.52	3243.99	3149.47	-920.49	-61.64	-18.17	728.61	27.25	27.43	PASS
3456.00†	3447.07	-226.88	-75.89	3341.99	3243.75	-947.14	-63.86	-18.16	748.50	27.98	27.42	PASS
3556.00†	3546.75	-234.40	-78.27	3439.99	3338.04	-973.79	-66.08	-18.15	768.38	28.74	27.39	PASS
3656.00†	3646.44	-241.91	-80.65	3538.00	3432.32	-1000.44	-68.29	-18.14	788.27	29.52	27.33	PASS
3756.00†	3746.13	-249.43	-83.02	3636.00	3526.60	-1027.09	-70.51	-18.13	808.15	30.33	27.26	PASS
3856.00†	3845.82	-256.94	-85.40	3734.00	3620.89	-1053.74	-72.72	-18.11	828.04	31.15	27.18	PASS
3956.00†	3945.51	-264.46	-87.77	3832.01	3715.17	-1080.39	-74.94	-18.11	847.92	31.99	27.08	PASS
4056.00†	4045.20	-271.98	-90.15	3930.01	3809.45	-1107.05	-77.16	-18.10	867.81	32.85	26.98	PASS
4156.00†	4144.89	-279.49	-92.53	4028.01	3903.74	-1133.70	-79.37	-18.09	887.69	33.72	26.87	PASS
4256.00†	4244.58	-287.01	-94.90	4126.02	3998.02	-1160.35	-81.59	-18.08	907.58	34.60	26.76	PASS
4356.00†	4344.27	-294.52	-97.28	4224.02	4092.31	-1187.00	-83.81	-18.07	927.46	35.50	26.64	PASS
4456.00†	4443.95	-302.04	-99.66	4322.02	4186.59	-1213.65	-86.02	-18.06	947.34	36.41	26.51	PASS
4556.00†	4543.64	-309.55	-102.03	4420.02	4280.87	-1240.30	-88.24	-18.05	967.23	37.33	26.39	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 33C-16-M PWB Offset Wellpath: HARVESTERS STATE 33C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#18 HARVESTERS STATE 33C-16-M (1993°FNL & 2336°FEL, SEC.15) Well: HARVESTERS STATE 33C-16-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	
4656.00†	4643.33	-317.07	-104.41	4518.03	4375.16	-1266.95	-90.46	-18.05	987.11	38.27	26.26	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 33C-16-M PWB Offset Wellpath: HARVESTERS STATE 33C-16-M 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: HARVESTERS STATE 33C-16-M PWB Offset Wellpath: HARVESTERS STATE 33C-16-M 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	4.00	1750.00	1746.00	5.00	1712.18	-121.72	-1.04	-217.59	-9.01
9.625in Casing Surface	4.00	1750.00	1746.00	5.00	1712.18	-121.72	-1.04	-217.59	-9.01
8.5in Open Hole	1750.00	15257.76	13507.76	1712.18	N/A	-217.59	-9.01	N/A	N/A

## SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 33C-16-M PWB Offset Wellpath: HARVESTERS STATE 33C-16-M PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 33C-16-M PWB
1750.00	15257.76	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 33C-16-M PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 33C-16-M PWB Offset Wellpath: HARVESTERS STATE 33C-16-M PWP (REV-A.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 33N-16B-M PWB Offset Wellpath: HARVESTERS STATE 33N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#19 HARVESTERS STATE 33N-16B-M (2013°FNL & 2336°FEL, SEC.15)										Well: HARVESTERS STATE 33N-16B-M		Threshold Value=1.00		† = interpolated/extrapolated static	
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status			
1756.00	1752.35	-99.25	-35.49	1654.76	1614.23	-529.35	-25.46	-20.90	451.84	20.64	22.91	PASS			
1783.09	1779.36	-101.16	-36.14	1681.07	1639.27	-537.40	-26.08	-18.46	458.30	20.64	23.01	PASS			
1856.00†	1852.04	-106.64	-37.87	1751.96	1706.73	-559.11	-27.74	-18.43	475.34	20.86	23.55	PASS			
1956.00†	1951.73	-114.15	-40.25	1849.19	1799.27	-588.87	-30.03	-18.38	498.71	21.06	24.47	PASS			
2056.00†	2051.42	-121.67	-42.62	1946.42	1891.80	-618.64	-32.31	-18.33	522.08	21.18	25.46	PASS			
2156.00†	2151.11	-129.18	-45.00	2043.65	1984.33	-648.41	-34.59	-18.29	545.45	21.36	26.37	PASS			
2256.00†	2250.80	-136.70	-47.38	2140.88	2076.86	-678.18	-36.88	-18.26	568.82	21.60	27.19	PASS			
2356.00†	2350.49	-144.21	-49.75	2238.11	2169.40	-707.95	-39.16	-18.22	592.20	21.90	27.92	PASS			
2456.00†	2450.18	-151.73	-52.13	2335.34	2261.93	-737.71	-41.45	-18.19	615.57	22.25	28.55	PASS			
2556.00†	2549.87	-159.25	-54.51	2432.57	2354.46	-767.48	-43.73	-18.16	638.94	22.65	29.09	PASS			
2656.00†	2649.55	-166.76	-56.88	2529.80	2446.95	-797.25	-46.01	-18.14	662.32	23.10	29.55	PASS			
2756.00†	2749.24	-174.28	-59.26	2627.03	2539.53	-827.02	-48.30	-18.11	685.69	23.59	29.94	PASS			
2856.00†	2848.93	-181.79	-61.63	2724.26	2632.06	-856.78	-50.58	-18.09	709.06	24.13	30.24	PASS			
2956.00†	2948.62	-189.31	-64.01	2821.49	2724.59	-886.55	-52.87	-18.07	732.44	24.71	30.49	PASS			
3056.00†	3048.31	-196.82	-66.39	2918.72	2817.12	-916.32	-55.15	-18.05	755.81	25.32	30.68	PASS			
3156.00†	3148.00	-204.34	-68.76	3015.94	2909.66	-946.09	-57.43	-18.03	779.19	25.97	30.81	PASS			
3256.00†	3247.69	-211.85	-71.14	3113.17	3002.19	-975.86	-59.72	-18.01	802.56	26.66	30.90	PASS			
3356.00†	3347.38	-219.37	-73.52	3210.40	3094.72	-1005.62	-62.00	-17.99	825.93	27.37	30.95	PASS			
3456.00†	3447.07	-226.88	-75.89	3307.63	3187.25	-1035.39	-64.29	-17.97	849.31	28.11	30.97	PASS			
3556.00†	3546.75	-234.40	-78.27	3404.86	3279.78	-1065.16	-66.57	-17.96	872.68	28.87	30.96	PASS			
3656.00†	3646.44	-241.91	-80.65	3502.09	3372.32	-1094.93	-68.85	-17.94	896.06	29.66	30.93	PASS			
3756.00†	3746.13	-249.43	-83.02	3599.32	3464.85	-1124.70	-71.14	-17.93	919.43	30.47	30.87	PASS			
3856.00†	3845.82	-256.94	-85.40	3696.55	3557.38	-1154.46	-73.42	-17.92	942.81	31.30	30.80	PASS			
3956.00†	3945.51	-264.46	-87.77	3793.78	3649.91	-1184.23	-75.71	-17.91	966.18	32.15	30.71	PASS			
4056.00†	4045.20	-271.98	-90.15	3891.01	3742.45	-1214.00	-77.99	-17.89	989.55	33.01	30.61	PASS			

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 33N-16B-M PWB Offset Wellpath: HARVESTERS STATE 33N-16B-M 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: HARVESTERS STATE 33N-16B-M PWB Offset Wellpath: HARVESTERS STATE 33N-16B-M 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	4.00	1750.00	1746.00	5.00	1704.87	-133.93	-1.04	-237.20	-8.96
9.625in Casing Surface	4.00	1750.00	1746.00	5.00	1704.87	-133.93	-1.04	-237.20	-8.96
8.5in Open Hole	1750.00	15145.42	13395.42	1704.87	7052.00	-237.20	-8.96	-780.36	-2490.39

## SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 33N-16B-M PWB Offset Wellpath: HARVESTERS STATE 33N-16B-M PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 33N-16B-M PWB
1750.00	15145.42	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 33N-16B-M PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 33N-16B-M PWB Offset Wellpath: HARVESTERS STATE 33N-16B-M PWP (REV-A.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 4C-16-M PWB Offset Wellpath: HARVESTERS STATE 4C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#03 HARVESTERS STATE 4C-16-M (1633°FNL & 2333°FEL, SEC.15) Well: HARVESTERS STATE 4C-16-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	
1756.00	1752.35	-99.25	-35.49	1694.48	1677.95	361.83	-28.81	160.59	467.09	20.00	24.49	PASS	
1783.09	1779.36	-101.16	-36.14	1720.85	1703.98	366.03	-29.44	163.01	473.28	19.96	24.60	PASS	
1856.00†	1852.04	-106.64	-37.87	1791.76	1773.95	377.35	-31.14	162.99	490.29	20.12	25.22	PASS	
1956.00†	1951.73	-114.15	-40.25	1888.99	1869.91	392.87	-33.46	162.96	513.62	20.22	26.29	PASS	
2056.00†	2051.42	-121.67	-42.62	1986.23	1965.88	408.38	-35.79	162.93	536.96	20.34	27.31	PASS	
2156.00†	2151.11	-129.18	-45.00	2083.47	2061.84	423.90	-38.11	162.90	560.29	20.53	28.24	PASS	
2256.00†	2250.80	-136.70	-47.38	2180.71	2157.81	439.42	-40.44	162.88	583.62	20.76	29.07	PASS	
2356.00†	2350.49	-144.21	-49.75	2277.95	2253.77	454.94	-42.76	162.86	606.95	21.05	29.81	PASS	
2456.00†	2450.18	-151.73	-52.13	2375.19	2349.74	470.46	-45.09	162.84	630.28	21.38	30.45	PASS	
2556.00†	2549.87	-159.25	-54.51	2472.43	2445.71	485.97	-47.42	162.82	653.61	21.77	31.00	PASS	
2656.00†	2649.55	-166.76	-56.88	2569.67	2541.67	501.49	-49.74	162.80	676.94	22.20	31.47	PASS	
2756.00†	2749.24	-174.28	-59.26	2666.91	2637.64	517.01	-52.07	162.78	700.27	22.67	31.86	PASS	
2856.00†	2848.93	-181.79	-61.63	2764.15	2733.60	532.53	-54.39	162.77	723.60	23.18	32.17	PASS	
2956.00†	2948.62	-189.31	-64.01	2861.39	2829.57	548.04	-56.72	162.75	746.94	23.73	32.42	PASS	
3056.00†	3048.31	-196.82	-66.39	2958.63	2925.53	563.56	-59.04	162.74	770.27	24.31	32.61	PASS	
3156.00†	3148.00	-204.34	-68.76	3055.87	3021.50	579.08	-61.37	162.73	793.60	24.92	32.75	PASS	
3256.00†	3247.69	-211.85	-71.14	3153.11	3117.46	594.60	-63.69	162.71	816.93	25.57	32.84	PASS	
3356.00†	3347.38	-219.37	-73.52	3250.35	3213.43	610.11	-66.02	162.70	840.26	26.24	32.89	PASS	
3456.00†	3447.07	-226.88	-75.89	3347.59	3309.40	625.63	-68.35	162.69	863.59	26.93	32.90	PASS	
3556.00†	3546.75	-234.40	-78.27	3444.83	3405.36	641.15	-70.67	162.68	886.93	27.65	32.89	PASS	
3656.00†	3646.44	-241.91	-80.65	3542.07	3501.33	656.67	-73.00	162.67	910.26	28.39	32.85	PASS	
3756.00†	3746.13	-249.43	-83.02	3639.31	3597.29	672.19	-75.32	162.66	933.59	29.15	32.80	PASS	
3856.00†	3845.82	-256.94	-85.40	3736.55	3693.26	687.70	-77.65	162.66	956.92	29.93	32.72	PASS	
3956.00†	3945.51	-264.46	-87.77	3833.79	3789.22	703.22	-79.97	162.65	980.25	30.73	32.63	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 4C-16-M PWB Offset Wellpath: HARVESTERS STATE 4C-16-M 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: HARVESTERS STATE 4C-16-M PWB Offset Wellpath: HARVESTERS STATE 4C-16-M 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	4.00	1750.00	1746.00	3.00	1732.74	97.72	0.85	161.84	-8.76
9.625in Casing Surface	4.00	1750.00	1746.00	3.00	1732.74	97.72	0.85	161.84	-8.76
8.5in Open Hole	1750.00	15092.63	13342.63	1732.74	N/A	161.84	-8.76	N/A	N/A

## SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 4C-16-M PWB Offset Wellpath: HARVESTERS STATE 4C-16-M PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 4C-16-M PWB
1750.00	15092.63	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 4C-16-M PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 4C-16-M PWB Offset Wellpath: HARVESTERS STATE 4C-16-M PWP (REV-A.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 30N-16B-M PWB Offset Wellpath: HARVESTERS STATE 30N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#02 HARVESTERS STATE 30N-16B-M (1613°FNL & 2333°FEL, SEC.15) Well: HARVESTERS STATE 30N-16B-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
1756.00	1752.35	-99.25	-35.49	1673.69	1651.50	411.66	-27.98	160.56	520.82	20.06	27.22	PASS	
1783.09	1779.36	-101.16	-36.14	1699.83	1677.13	416.73	-28.62	162.97	527.94	20.07	27.30	PASS	
1856.00†	1852.04	-106.64	-37.87	1770.09	1746.04	430.36	-30.37	162.94	547.41	20.23	28.00	PASS	
1956.00†	1951.73	-114.13	-40.25	1866.46	1840.54	449.05	-32.76	162.90	574.12	20.39	29.14	PASS	
2056.00†	2051.42	-121.67	-42.62	1962.82	1935.05	467.74	-35.15	162.87	600.83	20.51	30.31	PASS	
2156.00†	2151.11	-129.18	-45.00	2059.19	2029.55	486.43	-37.54	162.83	627.54	20.68	31.38	PASS	
2256.00†	2250.80	-136.70	-47.38	2155.56	2124.06	505.12	-39.93	162.80	654.25	20.91	32.35	PASS	
2356.00†	2350.49	-144.21	-49.75	2251.92	2218.57	523.81	-42.32	162.78	680.96	21.19	33.21	PASS	
2456.00†	2450.18	-151.73	-52.13	2348.29	2313.07	542.50	-44.72	162.75	707.67	21.52	33.97	PASS	
2556.00†	2549.87	-159.25	-54.51	2444.65	2407.58	561.19	-47.11	162.73	734.39	21.90	34.62	PASS	
2656.00†	2649.55	-166.76	-56.88	2541.02	2502.08	579.88	-49.50	162.70	761.10	22.32	35.18	PASS	
2756.00†	2749.24	-174.28	-59.26	2637.39	2596.59	598.57	-51.89	162.68	787.81	22.79	35.64	PASS	
2856.00†	2848.93	-181.79	-61.63	2733.75	2691.10	617.26	-54.28	162.66	814.52	23.30	36.03	PASS	
2956.00†	2948.62	-189.31	-64.01	2830.12	2785.60	635.95	-56.67	162.65	841.23	23.84	36.34	PASS	
3056.00†	3048.31	-196.82	-66.39	2926.48	2880.11	654.64	-59.06	162.63	867.94	24.42	36.58	PASS	
3156.00†	3148.00	-204.34	-68.76	3022.85	2974.61	673.33	-61.46	162.61	894.66	25.03	36.76	PASS	
3256.00†	3247.69	-211.85	-71.14	3119.22	3069.12	692.02	-63.85	162.60	921.37	25.67	36.89	PASS	
3356.00†	3347.38	-219.37	-73.52	3215.58	3163.63	710.71	-66.24	162.58	948.08	26.34	36.97	PASS	
3456.00†	3447.07	-226.88	-75.89	3311.95	3258.13	729.40	-68.63	162.57	974.79	27.03	37.01	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 30N-16B-M PWB Offset Wellpath: HARVESTERS STATE 30N-16B-M 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  
HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

HOLE & CASING SECTIONS - Offset Wellbore: HARVESTERS STATE 30N-16B-M PWB Offset Wellpath: HARVESTERS STATE 30N-16B-M 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	4.00	1750.00	1746.00	3.00	1726.33	109.93	0.99	184.95	-8.61
9.625in Casing Surface	4.00	1750.00	1746.00	3.00	1726.33	109.93	0.99	184.95	-8.61
8.5in Open Hole	1750.00	14940.66	13190.66	1726.33	7050.00	184.95	-8.61	488.88	-2487.98

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 30N-16B-M PWB Offset Wellpath: HARVESTERS STATE 30N-16B-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 30N-16B-M PWB
1750.00	14940.66	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 30N-16B-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 30N-16B-M PWB Offset Wellpath: HARVESTERS STATE 30N-16B-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 33N-16C-M PWB Offset Wellpath: HARVESTERS STATE 33N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W				Slot: SLOT#20 HARVESTERS STATE 33N-16C-M (2033°FNL & 2337°FEL, SEC.15)				Well: HARVESTERS STATE 33N-16C-M				Threshold Value=1.00 † = interpolated/extrapolated stati			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status			
1756.00	1752.35	-99.25	-35.49	1635.69	1593.06	-555.66	-23.79	-20.99	483.55	20.60	24.57	PASS			
1783.09	1779.36	-101.16	-36.14	1661.83	1617.73	-564.28	-24.39	-18.55	490.66	20.60	24.69	PASS			
1856.00†	1852.04	-106.64	-37.87	1732.27	1684.20	-587.53	-26.00	-18.52	509.47	20.92	25.23	PASS			
1956.00†	1951.73	-114.15	-40.25	1828.88	1775.38	-619.40	-28.20	-18.47	535.28	21.13	26.18	PASS			
2056.00†	2051.42	-121.67	-42.62	1925.50	1866.55	-651.28	-30.41	-18.42	561.08	21.24	27.29	PASS			
2156.00†	2151.11	-129.18	-45.00	2022.11	1957.73	-683.16	-32.61	-18.38	586.89	21.41	28.31	PASS			
2256.00†	2250.80	-136.70	-47.38	2118.72	2048.90	-715.03	-34.82	-18.35	612.69	21.65	29.23	PASS			
2356.00†	2350.49	-144.21	-49.75	2215.34	2140.08	-746.91	-37.03	-18.32	638.49	21.94	30.04	PASS			
2456.00†	2450.18	-151.73	-52.13	2311.95	2231.26	-778.79	-39.23	-18.28	664.30	22.29	30.75	PASS			
2556.00†	2549.87	-159.25	-54.51	2408.56	2322.43	-810.66	-41.44	-18.26	690.10	22.68	31.37	PASS			
2656.00†	2649.55	-166.76	-56.88	2505.17	2413.61	-842.54	-43.64	-18.23	715.91	23.13	31.90	PASS			
2756.00†	2749.24	-174.28	-59.26	2601.79	2504.78	-874.42	-45.85	-18.20	741.71	23.63	32.33	PASS			
2856.00†	2848.93	-181.79	-61.63	2698.40	2595.96	-906.30	-48.05	-18.18	767.52	24.17	32.69	PASS			
2956.00†	2948.62	-189.31	-64.01	2795.01	2687.13	-938.17	-50.26	-18.16	793.33	24.74	32.98	PASS			
3056.00†	3048.31	-196.82	-66.39	2891.62	2778.31	-970.05	-52.47	-18.14	819.13	25.36	33.20	PASS			
3156.00†	3148.00	-204.34	-68.76	2988.24	2869.49	-1001.93	-54.67	-18.12	844.94	26.01	33.36	PASS			
3256.00†	3247.69	-211.85	-71.14	3084.85	2960.66	-1033.80	-56.88	-18.10	870.74	26.70	33.47	PASS			
3356.00†	3347.38	-219.37	-73.52	3181.46	3051.84	-1065.68	-59.08	-18.09	896.55	27.41	33.55	PASS			
3456.00†	3447.07	-226.88	-75.89	3278.07	3143.01	-1097.56	-61.29	-18.07	922.35	28.16	33.58	PASS			
3556.00†	3546.75	-234.40	-78.27	3374.69	3234.19	-1129.44	-63.49	-18.06	948.16	28.92	33.58	PASS			
3656.00†	3646.44	-241.91	-80.65	3471.30	3325.36	-1161.31	-65.70	-18.04	973.97	29.72	33.55	PASS			
3756.00†	3746.13	-249.43	-83.02	3567.91	3416.54	-1193.19	-67.91	-18.03	999.77	30.53	33.50	PASS			

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 33N-16C-M PWB Offset Wellpath: HARVESTERS STATE 33N-16C-M 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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## HOLE & CASING SECTIONS - Offset Wellbore: HARVESTERS STATE 33N-16C-M PWB Offset Wellpath: HARVESTERS STATE 33N-16C-M 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	4.00	1750.00	1746.00	6.00	1700.93	-146.15	-1.18	-253.93	-8.64
9.625in Casing Surface	4.00	1750.00	1746.00	6.00	1700.93	-146.15	-1.18	-253.93	-8.64
8.5in Open Hole	1750.00	15274.87	13524.87	1700.93	N/A	-253.93	-8.64	N/A	N/A

## SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 33N-16C-M PWB Offset Wellpath: HARVESTERS STATE 33N-16C-M PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 33N-16C-M PWB
1750.00	15274.87	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 33N-16C-M PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 33N-16C-M PWB Offset Wellpath: HARVESTERS STATE 33N-16C-M PWP (REV-A.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 30C-16-M PWB Offset Wellpath: HARVESTERS STATE 30C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#01 HARVESTERS STATE 30C-16-M (1593°FNL & 2332°FEL, SEC.15) Well: HARVESTERS STATE 30C-16-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
1756.00	1752.35	-99.25	-35.49	1656.42	1630.41	448.68	-17.50	161.58	561.62	20.26	29.06	PASS
1783.09	1779.36	-101.16	-36.14	1682.38	1655.75	454.33	-17.94	164.01	569.37	20.26	29.15	PASS
1856.00†	1852.04	-106.64	-37.87	1752.15	1723.83	469.52	-19.10	163.99	590.55	20.48	29.83	PASS
1956.00†	1951.73	-114.15	-40.25	1847.83	1817.21	490.35	-20.70	163.98	619.60	20.68	30.99	PASS
2056.00†	2051.42	-121.67	-42.62	1943.52	1910.58	511.19	-22.31	163.97	648.65	20.80	32.26	PASS
2156.00†	2151.11	-129.18	-45.00	2039.21	2003.96	532.02	-23.91	163.96	677.71	20.96	33.42	PASS
2256.00†	2250.80	-136.70	-47.38	2134.89	2097.34	552.85	-25.51	163.94	706.76	21.19	34.48	PASS
2356.00†	2350.49	-144.21	-49.75	2230.58	2190.72	573.68	-27.11	163.93	735.81	21.46	35.42	PASS
2456.00†	2450.18	-151.73	-52.13	2326.27	2284.10	594.51	-28.71	163.92	764.86	21.78	36.26	PASS
2556.00†	2549.87	-159.25	-54.51	2421.95	2377.47	615.35	-30.32	163.92	793.91	22.15	36.99	PASS
2656.00†	2649.55	-166.76	-56.88	2517.64	2470.85	636.18	-31.92	163.91	822.96	22.57	37.61	PASS
2756.00†	2749.24	-174.28	-59.26	2613.33	2564.23	657.01	-33.52	163.90	852.01	23.03	38.14	PASS
2856.00†	2848.93	-181.79	-61.63	2709.02	2657.61	677.84	-35.12	163.89	881.07	23.53	38.58	PASS
2956.00†	2948.62	-189.31	-64.01	2804.70	2750.99	698.67	-36.72	163.89	910.12	24.06	38.94	PASS
3056.00†	3048.31	-196.82	-66.39	2900.39	2844.36	719.51	-38.32	163.88	939.17	24.64	39.22	PASS
3156.00†	3148.00	-204.34	-68.76	2996.08	2937.74	740.34	-39.93	163.88	968.22	25.24	39.44	PASS
3256.00†	3247.69	-211.85	-71.14	3091.76	3031.12	761.17	-41.53	163.87	997.27	25.87	39.60	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 30C-16-M PWB Offset Wellpath: HARVESTERS STATE 30C-16-M 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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

HOLE & CASING SECTIONS - Offset Wellbore: HARVESTERS STATE 30C-16-M PWB Offset Wellpath: HARVESTERS STATE 30C-16-M 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	4.00	1750.00	1746.00	3.00	1721.73	121.90	0.99	203.92	-5.32
9.625in Casing Surface	4.00	1750.00	1746.00	3.00	1721.73	121.90	0.99	203.92	-5.32
8.5in Open Hole	1750.00	15212.81	13462.81	1721.73	7232.00	203.92	-5.32	561.60	-2488.22

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 30C-16-M PWB Offset Wellpath: HARVESTERS STATE 30C-16-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Standard)		HARVESTERS STATE 30C-16-M PWB
1750.00	15212.81	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 30C-16-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 30C-16-M PWB Offset Wellpath: HARVESTERS STATE 30C-16-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 13C-16-M PWB Offset Wellpath: HARVESTERS STATE 13C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#21 HARVESTERS STATE 13C-16-M (2053°FNL & 2337°FEL, SEC.15) Well: HARVESTERS STATE 13C-16-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	
1756.00†	1752.35	-99.25	-35.49	1617.40	1572.52	-578.78	-22.52	-21.04	512.31	20.56	26.09	PASS	
1783.09	1779.36	-101.16	-36.14	1643.37	1596.82	-587.91	-23.10	-18.60	520.02	20.56	26.22	PASS	
1856.00†	1852.04	-106.64	-37.87	1713.36	1662.32	-612.52	-24.66	-18.56	540.45	20.93	26.75	PASS	
1956.00†	1951.73	-114.15	-40.25	1809.35	1752.16	-646.27	-26.81	-18.51	568.47	21.18	27.73	PASS	
2056.00†	2051.42	-121.67	-42.62	1905.34	1842.00	-680.02	-28.95	-18.47	596.49	21.29	28.95	PASS	
2156.00†	2151.11	-129.18	-45.00	2001.34	1931.84	-713.77	-31.10	-18.43	624.51	21.46	30.06	PASS	
2256.00†	2250.80	-136.70	-47.38	2097.33	2021.68	-747.52	-33.24	-18.39	652.53	21.69	31.07	PASS	
2356.00†	2350.49	-144.21	-49.75	2193.32	2111.52	-781.27	-35.39	-18.36	680.55	21.98	31.96	PASS	
2456.00†	2450.18	-151.73	-52.13	2289.32	2201.36	-815.01	-37.53	-18.33	708.57	22.32	32.75	PASS	
2556.00†	2549.87	-159.25	-54.51	2385.31	2291.20	-848.76	-39.68	-18.30	736.59	22.72	33.43	PASS	
2656.00†	2649.55	-166.76	-56.88	2481.30	2381.04	-882.51	-41.82	-18.27	764.61	23.16	34.02	PASS	
2756.00†	2749.24	-174.28	-59.26	2577.30	2470.88	-916.26	-43.97	-18.25	792.63	23.66	34.51	PASS	
2856.00†	2848.93	-181.79	-61.63	2673.29	2560.72	-950.01	-46.11	-18.23	820.65	24.20	34.91	PASS	
2956.00†	2948.62	-189.31	-64.01	2769.28	2650.56	-983.76	-48.26	-18.21	848.67	24.77	35.23	PASS	
3056.00†	3048.31	-196.82	-66.39	2865.28	2740.40	-1017.51	-50.40	-18.19	876.69	25.39	35.49	PASS	
3156.00†	3148.00	-204.34	-68.76	2961.27	2830.24	-1051.26	-52.55	-18.17	904.71	26.05	35.68	PASS	
3256.00†	3247.69	-211.85	-71.14	3057.26	2920.08	-1085.01	-54.70	-18.15	932.74	26.73	35.82	PASS	
3356.00†	3347.38	-219.37	-73.52	3153.26	3009.91	-1118.75	-56.84	-18.14	960.76	27.45	35.90	PASS	
3456.00†	3447.07	-226.88	-75.89	3249.25	3099.75	-1152.50	-58.99	-18.12	988.78	28.19	35.95	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 13C-16-M PWB Offset Wellpath: HARVESTERS STATE 13C-16-M 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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## HOLE & CASING SECTIONS - Offset Wellbore: HARVESTERS STATE 13C-16-M PWB Offset Wellpath: HARVESTERS STATE 13C-16-M 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	4.00	1750.00	1746.00	6.00	1696.62	-158.36	-1.37	-269.80	-8.45
9.625in Casing Surface	4.00	1750.00	1746.00	6.00	1696.62	-158.36	-1.37	-269.80	-8.45
8.5in Open Hole	1750.00	15436.95	13686.95	1696.62	7210.00	-269.80	-8.45	-920.04	-2491.45

## SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 13C-16-M PWB Offset Wellpath: HARVESTERS STATE 13C-16-M PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 13C-16-M PWB
1750.00	15436.95	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 13C-16-M PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 13C-16-M PWB Offset Wellpath: HARVESTERS STATE 13C-16-M PWP (REV-A.0)

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: STATE 1 AWB Offset Wellpath: STATE 1 AWP

Facility: SEC.16-T06N-R66W Slot: SLOT#01 EX. STATE 1 (658°FNL & 1980°FEL, LYNS/PA/9091°TD) Well: STATE 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
1756.00	1752.35	-99.25	-35.49	1719.35	1752.35	1116.01	-4990.04	83.82	5101.41	107.13	48.04	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: STATE 1 AWB Offset Wellpath: STATE 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: STATE 1 AWB Offset Wellpath: STATE 1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	9091.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <9091>	STATE 1 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: STATE 1 AWB Offset Wellpath: STATE 1 AWP

MD Reference: Rig on SLOT#01 EX. STATE 1 (658°FNL & 1980°FEL, LYNS/PA/9091°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: STATE BEATRICE 16-1 AWB Offset Wellpath: STATE BEATRICE 16-1 AWP

Facility: SEC.16-T06N-R66W Slot: SLOT#01 EX. STATE BEATRICE 16-1 (660°FNL & 2110°FEL, NB-CD/AB/ 7377°TD) Well: STATE BEATRICE 16-1 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
1756.00	1752.35	-99.25	-35.49	1721.35	1752.35	1136.80	-5119.93	83.70	5232.52	107.22	49.24	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: STATE BEATRICE 16-1 AWB Offset Wellpath: STATE BEATRICE 16-1 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: STATE BEATRICE 16-1 AWB Offset Wellpath: STATE BEATRICE 16-1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7377.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7377>	STATE BEATRICE 16-1 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: STATE BEATRICE 16-1 AWB Offset Wellpath: STATE BEATRICE 16-1 AWP

MD Reference: Rig on SLOT#01 EX. STATE BEATRICE 16-1 (660°FNL & 2110°FEL, NB-CD/AB/ 7377°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: STATE HOPPE 16-2 AWB Offset Wellpath: STATE HOPPE 16-2 AWP

Facility: SEC.16-T06N-R66W Slot: SLOT#03 EX. STATE HOPPE 16-2 (3303°FNL & 1797°FWL, NB-CD/PR/7340°TD) Well: STATE HOPPE 16-2 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
1756.00	1752.35	-99.25	-35.49	1762.85	1706.77	-1570.36	-6513.03	57.27	6642.65	52.69	128.39	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: STATE HOPPE 16-2 AWB Offset Wellpath: STATE HOPPE 16-2 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: STATE HOPPE 16-2 AWB Offset Wellpath: STATE HOPPE 16-2 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6000.00	BHI Generic gyro - continuous (Standard)	SUMMIT SLICKLINE INC GYRO SURVEYS PROVIDED BY SRC <100-6000>	STATE HOPPE 16-2 AWB
6000.00	7340.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7340>	STATE HOPPE 16-2 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: STATE HOPPE 16-2 AWB Offset Wellpath: STATE HOPPE 16-2 AWP

MD Reference: Rig on SLOT#03 EX. STATE HOPPE 16-2 (3303°FNL & 1797°FWL, NB-CD/PR/7340°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 32N-16C-M AWB Offset Wellpath: HARVESTERS STATE 32N-16C-M AWP

Facility: SEC.15-T06N-R66W				Slot: SLOT#12 HARVESTERS STATE 32N-16C-M (1813°FNL & 2335°FEL, SEC.15)				Well: HARVESTERS STATE 32N-16C-M				Threshold Value=1.00		† = interpolated/extrapolated static	
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status			
1756.00	1752.35	-99.25	-35.49	1753.75	1746.39	-161.35	-32.65	-22.51	62.45	20.06	3.22	PASS			
1783.09	1779.36	-101.16	-36.14	1762.00	1754.60	-162.15	-32.90	-20.02	65.91	19.30	3.51	PASS			
1856.00†	1852.04	-106.64	-37.87	1762.00	1754.60	-162.15	-32.90	-20.02	112.26	14.84	7.89	PASS			
1956.00†	1951.73	-114.15	-40.25	1762.00	1754.60	-162.15	-32.90	-20.02	203.03	12.89	16.60	PASS			
2056.00†	2051.42	-121.67	-42.62	1762.00	1754.60	-162.15	-32.90	-20.02	299.73	12.47	25.43	PASS			
2156.00†	2151.11	-129.18	-45.00	1762.00	1754.60	-162.15	-32.90	-20.02	398.06	12.38	34.03	PASS			
2256.00†	2250.80	-136.70	-47.38	1762.00	1754.60	-162.15	-32.90	-20.02	497.06	12.41	42.41	PASS			
2356.00†	2350.49	-144.21	-49.75	1762.00	1754.60	-162.15	-32.90	-20.02	596.40	12.49	50.57	PASS			
2456.00†	2450.18	-151.73	-52.13	1762.00	1754.60	-162.15	-32.90	-20.02	695.92	12.59	58.52	PASS			
2556.00†	2549.87	-159.25	-54.51	1762.00	1754.60	-162.15	-32.90	-20.02	795.57	12.70	66.26	PASS			
2656.00†	2649.55	-166.76	-56.88	1762.00	1754.60	-162.15	-32.90	-20.02	895.29	12.83	73.79	PASS			
2756.00†	2749.24	-174.28	-59.26	1762.00	1754.60	-162.15	-32.90	-20.02	995.07	12.97	81.11	PASS			

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 32N-16C-M AWB Offset Wellpath: HARVESTERS STATE 32N-16C-M 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: HARVESTERS STATE 32N-16C-M AWB Offset Wellpath: HARVESTERS STATE 32N-16C-M AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1762.00	BHI NaviTrak (Rotating+Axial Corr)	13 1/2" SURFACE SECTION <86'-1762>	HARVESTERS STATE 32N-16C-M AWB



**Clearance Report**  
**HARVESTERS STATE 32N-16A-M (REV-B.0) PWP**  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 32N-16C-M AWB    Offset Wellpath: HARVESTERS STATE 32N-16C-M AWP	
MD Reference: PROPOETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5N-16B-M AWB Offset Wellpath: HARVESTERS STATE 5N-16B-M AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#10 HARVESTERS STATE 5N-16B-M (1773'FNL & 2334'FEL, SEC.15) Well: HARVESTERS STATE 5N-16B-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	
1756.00	1752.35	-99.25	-35.49	1756.75	1755.12	-35.76	-33.58	161.76	63.58	19.89	3.31	PASS	
1783.09	1779.36	-101.16	-36.14	1760.00	1758.37	-35.90	-33.64	164.20	68.60	18.92	3.73	PASS	
1856.00†	1852.04	-106.64	-37.87	1760.00	1758.37	-35.90	-33.64	164.20	117.46	14.81	8.28	PASS	
1956.00†	1951.73	-114.15	-40.25	1760.00	1758.37	-35.90	-33.64	164.20	208.70	13.00	16.92	PASS	
2056.00†	2051.42	-121.67	-42.62	1760.00	1758.37	-35.90	-33.64	164.20	305.48	12.57	25.68	PASS	
2156.00†	2151.11	-129.18	-45.00	1760.00	1758.37	-35.90	-33.64	164.20	403.83	12.47	34.26	PASS	
2256.00†	2250.80	-136.70	-47.38	1760.00	1758.37	-35.90	-33.64	164.20	502.83	12.49	42.62	PASS	
2356.00†	2350.49	-144.21	-49.75	1760.00	1758.37	-35.90	-33.64	164.20	602.16	12.55	50.77	PASS	
2456.00†	2450.18	-151.73	-52.13	1760.00	1758.37	-35.90	-33.64	164.20	701.68	12.65	58.71	PASS	
2556.00†	2549.87	-159.25	-54.51	1760.00	1758.37	-35.90	-33.64	164.20	801.32	12.76	66.44	PASS	
2656.00†	2649.55	-166.76	-56.88	1760.00	1758.37	-35.90	-33.64	164.20	901.04	12.88	73.97	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 5N-16B-M AWB Offset Wellpath: HARVESTERS STATE 5N-16B-M 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: HARVESTERS STATE 5N-16B-M AWB Offset Wellpath: HARVESTERS STATE 5N-16B-M AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1760.00	BHI NaviTrak (Standard)	13 1/2" SURFACE SECTION <86°-1760°>	HARVESTERS STATE 5N-16B-M AWP

## OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 5N-16B-M AWB Offset Wellpath: HARVESTERS STATE 5N-16B-M AWP

MD Reference: PROPETRO 12 (4*) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 13N-16B-M PWB Offset Wellpath: HARVESTERS STATE 13N-16B-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#22 HARVESTERS STATE 13N-16B-M (2073'FNL & 2337'FEL, SEC.15) Well: HARVESTERS STATE 13N-16B-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
1756.00	1752.35	-99.25	-35.49	1589.96	1542.58	-599.96	-21.32	-21.05	543.06	20.48	27.78	PASS	
1783.09	1779.36	-101.16	-36.14	1615.62	1566.23	-609.89	-21.91	-18.60	551.75	20.47	27.94	PASS	
1856.00†	1852.04	-106.64	-37.87	1684.78	1629.99	-636.64	-23.51	-18.55	574.82	20.87	28.54	PASS	
1956.00†	1951.73	-114.15	-40.25	1779.65	1717.44	-673.34	-25.69	-18.49	606.46	21.18	29.58	PASS	
2056.00†	2051.42	-121.67	-42.62	1874.51	1804.89	-710.04	-27.88	-18.44	638.10	21.35	30.88	PASS	
2156.00†	2151.11	-129.18	-45.00	1969.37	1892.34	-746.73	-30.07	-18.39	669.74	21.51	32.16	PASS	
2256.00†	2250.80	-136.70	-47.38	2064.23	1979.78	-783.43	-32.25	-18.34	701.38	21.74	33.32	PASS	
2356.00†	2350.49	-144.21	-49.75	2159.09	2067.23	-820.13	-34.44	-18.30	733.03	22.02	34.36	PASS	
2456.00†	2450.18	-151.73	-52.13	2253.95	2154.68	-856.82	-36.63	-18.27	764.67	22.36	35.29	PASS	
2556.00†	2549.87	-159.25	-54.51	2348.81	2242.13	-893.52	-38.81	-18.23	796.31	22.75	36.10	PASS	
2656.00†	2649.55	-166.76	-56.88	2443.67	2329.58	-930.22	-41.00	-18.20	827.95	23.19	36.80	PASS	
2756.00†	2749.24	-174.28	-59.26	2538.53	2417.02	-966.91	-43.19	-18.17	859.59	23.68	37.39	PASS	
2856.00†	2848.93	-181.79	-61.63	2633.39	2504.47	-1003.61	-45.37	-18.14	891.24	24.22	37.88	PASS	
2956.00†	2948.62	-189.31	-64.01	2728.25	2591.92	-1040.31	-47.56	-18.12	922.88	24.80	38.29	PASS	
3056.00†	3048.31	-196.82	-66.39	2823.11	2679.37	-1077.00	-49.75	-18.10	954.52	25.41	38.61	PASS	
3156.00†	3148.00	-204.34	-68.76	2917.98	2766.82	-1113.70	-51.93	-18.07	986.17	26.07	38.86	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 13N-16B-M PWB Offset Wellpath: HARVESTERS STATE 13N-16B-M 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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

HOLE & CASING SECTIONS - Offset Wellbore: HARVESTERS STATE 13N-16B-M PWB Offset Wellpath: HARVESTERS STATE 13N-16B-M 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	4.00	1750.00	1746.00	6.00	1690.11	-170.58	-1.37	-287.03	-8.31
9.625in Casing Surface	4.00	1750.00	1746.00	6.00	1690.11	-170.58	-1.37	-287.03	-8.31
8.5in Open Hole	1750.00	15343.97	13593.97	1690.11	7049.00	-287.03	-8.31	-990.12	-2491.98

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 13N-16B-M PWB Offset Wellpath: HARVESTERS STATE 13N-16B-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 13N-16B-M PWB
1750.00	15343.97	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 13N-16B-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 13N-16B-M PWB Offset Wellpath: HARVESTERS STATE 13N-16B-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: FALKEN 34N-9C-L AWB Offset Wellpath: FALKEN 34N-9C-L AWP

Facility: SEC.11-T06N-R66W Slot: SLOT#12 FALKEN 34N-9C-L (1739°FSL & 276°FEL, SEC.11) Well: FALKEN 34N-9C-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	
1756.00	1752.35	-99.25	-35.49	15714.59	7147.35	1943.21	99.92	166.29	5770.27	188.97	30.69	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: FALKEN 34N-9C-L AWB Offset Wellpath: FALKEN 34N-9C-L 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: FALKEN 34N-9C-L AWB Offset Wellpath: FALKEN 34N-9C-L AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1777.00	BHI NaviTrak (Rotating+Axial Corr)	13 1/2" APS EM SURVEYS <153'-1777>	FALKEN 34N-9C-L AWB
1777.00	19166.00	BHI AutoTrak Curve (IFR1, Short)	8 1/2" AT-CURVE SURVEYS <1880'-19166>	FALKEN 34N-9C-L AWB
19166.00	19190.00	Blind Drilling (std)	Projection to bit	FALKEN 34N-9C-L AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: FALKEN 34N-9C-L AWB Offset Wellpath: FALKEN 34N-9C-L AWP

MD Reference: PRECISION DRILLING 562 (25') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft





# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 34N-16C-M PWB Offset Wellpath: HARVESTERS STATE 34N-16C-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#23 HARVESTERS STATE 34N-16C-M (2093'FNL & 2337'FEL, SEC.15) Well: HARVESTERS STATE 34N-16C-M Threshold Value=1.00 † = interpolated/extrapolated stati													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
1756.00	1752.35	-99.25	-35.49	1569.22	1521.67	-616.19	-19.87	-21.11	566.29	20.41	29.07	PASS	
1783.09	1779.36	-101.16	-36.14	1594.67	1544.89	-626.57	-20.44	-18.67	575.57	20.40	29.26	PASS	
1856.00†	1852.04	-106.64	-37.87	1663.28	1607.52	-654.56	-21.97	-18.62	600.22	20.79	29.92	PASS	
1956.00†	1951.73	-114.15	-40.25	1757.39	1693.41	-692.96	-24.07	-18.56	634.04	21.16	30.96	PASS	
2056.00†	2051.42	-121.67	-42.62	1851.50	1779.31	-731.35	-26.17	-18.51	667.85	21.39	32.26	PASS	
2156.00†	2151.11	-129.18	-45.00	1945.60	1865.20	-769.74	-28.28	-18.46	701.67	21.54	33.64	PASS	
2256.00†	2250.80	-136.70	-47.38	2039.71	1951.10	-808.14	-30.38	-18.41	735.48	21.76	34.91	PASS	
2356.00†	2350.49	-144.21	-49.75	2133.82	2036.99	-846.53	-32.48	-18.37	769.30	22.03	36.04	PASS	
2456.00†	2450.18	-151.73	-52.13	2227.93	2122.88	-884.92	-34.58	-18.34	803.12	22.36	37.05	PASS	
2556.00†	2549.87	-159.25	-54.51	2322.03	2208.78	-923.31	-36.68	-18.30	836.94	22.75	37.94	PASS	
2656.00†	2649.55	-166.76	-56.88	2416.14	2294.67	-961.71	-38.79	-18.27	870.75	23.19	38.70	PASS	
2756.00†	2749.24	-174.28	-59.26	2510.25	2380.56	-1000.10	-40.89	-18.24	904.57	23.68	39.35	PASS	
2856.00†	2848.93	-181.79	-61.63	2604.36	2466.46	-1038.49	-42.99	-18.22	938.39	24.21	39.90	PASS	
2956.00†	2948.62	-189.31	-64.01	2698.46	2552.35	-1076.89	-45.09	-18.19	972.21	24.79	40.35	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 34N-16C-M PWB Offset Wellpath: HARVESTERS STATE 34N-16C-M 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: HARVESTERS STATE 34N-16C-M PWB Offset Wellpath: HARVESTERS STATE 34N-16C-M 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	4.00	1750.00	1746.00	6.00	1686.67	-182.79	-1.55	-301.69	-8.06
9.625in Casing Surface	4.00	1750.00	1746.00	6.00	1686.67	-182.79	-1.55	-301.69	-8.06
8.5in Open Hole	1750.00	15491.86	13741.86	1686.67	N/A	-301.69	-8.06	N/A	N/A



**Clearance Report**  
**HARVESTERS STATE 32N-16A-M (REV-B.0) PWP**  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 34N-16C-M PWB    Offset Wellpath: HARVESTERS STATE 34N-16C-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 34N-16C-M PWB
1750.00	15491.86	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 34N-16C-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 34N-16C-M PWB    Offset Wellpath: HARVESTERS STATE 34N-16C-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: FALKEN 34C-9-L AWB Offset Wellpath: FALKEN 34C-9-L AWP

Facility: SEC.11-T06N-R66W Slot: SLOT#11 FALKEN 34C-9-L (1754°FSL & 276°FEL, SEC.11) Well: FALKEN 34C-9-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
1756.00	1752.35	-99.25	-35.49	16213.21	7250.51	2123.85	-297.09	157.09	5936.36	203.81	29.26	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: FALKEN 34C-9-L AWB Offset Wellpath: FALKEN 34C-9-L 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: FALKEN 34C-9-L AWB Offset Wellpath: FALKEN 34C-9-L AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1773.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)	13 1/2" APS EM SURVEYS <153'-1773'>	FALKEN 34C-9-L AWB
1773.00	19284.00	BHI AutoTrak Curve (IFR1, Short)	8 1/2" ATC SURVEYS <1879'-19284'>	FALKEN 34C-9-L AWB
19284.00	19308.00	Blind Drilling (std)	Projection to bit	FALKEN 34C-9-L AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: FALKEN 34C-9-L AWB Offset Wellpath: FALKEN 34C-9-L AWP

MD Reference: PRECISION DRILLING 562 (25') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 34C-16-M PWB Offset Wellpath: HARVESTERS STATE 34C-16-M PWP (REV-A.0)

Facility: SEC.15-T06N-R66W Slot: SLOT#24 HARVESTERS STATE 34C-16-M (2113°FNL & 2337°FEL, SEC.15) Well: HARVESTERS STATE 34C-16-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	
1756.00	1752.35	-99.25	-35.49	1548.93	1502.17	-630.13	-18.52	-21.18	587.12	20.30	30.32	PASS	
1783.09	1779.36	-101.16	-36.14	1574.18	1525.00	-640.91	-19.07	-18.73	596.92	20.29	30.52	PASS	
1856.00†	1852.04	-106.64	-37.87	1642.27	1586.56	-669.96	-20.57	-18.68	622.99	20.67	31.24	PASS	
1956.00†	1951.73	-114.15	-40.25	1735.66	1671.00	-709.82	-22.62	-18.62	658.74	21.15	32.26	PASS	
2056.00†	2051.42	-121.67	-42.62	1829.05	1755.43	-749.67	-24.67	-18.56	694.49	21.38	33.56	PASS	
2156.00†	2151.11	-129.18	-45.00	1922.44	1839.86	-789.52	-26.72	-18.51	730.25	21.53	35.04	PASS	
2256.00†	2250.80	-136.70	-47.38	2015.83	1924.29	-829.38	-28.77	-18.47	766.00	21.74	36.40	PASS	
2356.00†	2350.49	-144.21	-49.75	2109.21	2008.72	-869.23	-30.82	-18.42	801.76	22.00	37.62	PASS	
2456.00†	2450.18	-151.73	-52.13	2202.60	2093.16	-909.09	-32.87	-18.39	837.51	22.33	38.70	PASS	
2556.00†	2549.87	-159.25	-54.51	2295.99	2177.59	-948.94	-34.92	-18.35	873.26	22.71	39.65	PASS	
2656.00†	2649.55	-166.76	-56.88	2389.38	2262.02	-988.79	-36.97	-18.32	909.02	23.15	40.48	PASS	
2756.00†	2749.24	-174.28	-59.26	2482.77	2346.45	-1028.65	-39.03	-18.29	944.78	23.63	41.18	PASS	
2856.00†	2848.93	-181.79	-61.63	2576.15	2430.89	-1068.50	-41.08	-18.26	980.53	24.17	41.77	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 34C-16-M PWB Offset Wellpath: HARVESTERS STATE 34C-16-M 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: HARVESTERS STATE 34C-16-M PWB Offset Wellpath: HARVESTERS STATE 34C-16-M 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	4.00	1750.00	1746.00	6.00	1683.96	-195.01	-1.55	-315.72	-7.77
9.625in Casing Surface	4.00	1750.00	1746.00	6.00	1683.96	-195.01	-1.55	-315.72	-7.77
8.5in Open Hole	1750.00	15658.86	13908.86	1683.96	N/A	-315.72	-7.77	N/A	N/A



Clearance Report  
HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

SURVEY PROGRAM - Offset Wellbore: HARVESTERS STATE 34C-16-M PWB    Offset Wellpath: HARVESTERS STATE 34C-16-M PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1750.00	BHI NaviTrak (Rotating+Axial Corr)		HARVESTERS STATE 34C-16-M PWB
1750.00	15658.86	BHI AutoTrak Curve (IFR1, Short)		HARVESTERS STATE 34C-16-M PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 34C-16-M PWB    Offset Wellpath: HARVESTERS STATE 34C-16-M PWP (REV-A.0)	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. HARVESTERS RESOURCES #15M-303 AWP Offset Wellpath: EX. HARVESTERS RESOURCES #15M-303 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#07 EX. HARVESTERS RESOURCES #15M-303 (323°FNL & 2083°FEL, HORIZ/PR) Well: EX. HARVESTERS RECOURES #15M-303 Threshold Value=1.00 † = Interpolated											
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	I
1756.00	1752.35	-99.25	-35.49	1662.79	1643.18	1503.83	180.53	167.61	1621.25	53.37	
1783.09	1779.36	-101.16	-36.14	1696.17	1676.17	1506.58	176.27	169.90	1624.99	53.22	
1856.00†	1852.04	-106.64	-37.87	1773.38	1752.53	1512.56	166.48	169.56	1635.07	53.39	
1956.00†	1951.73	-114.15	-40.25	1886.17	1864.17	1520.85	152.72	169.11	1648.68	53.68	
2056.00†	2051.42	-121.67	-42.62	1996.99	1973.95	1527.81	139.30	168.67	1661.29	53.98	
2156.00†	2151.11	-129.18	-45.00	2084.43	2060.61	1533.24	129.02	168.34	1673.96	54.21	
2256.00†	2250.80	-136.70	-47.38	2168.99	2144.35	1539.22	118.85	168.02	1687.50	54.45	
2356.00†	2350.49	-144.21	-49.75	2267.65	2241.98	1546.75	106.81	167.64	1701.67	54.77	
2456.00†	2450.18	-151.73	-52.13	2357.46	2330.90	1553.55	96.21	167.32	1715.87	55.07	
2556.00†	2549.87	-159.25	-54.51	2455.71	2428.18	1561.49	84.89	166.97	1730.65	55.43	
2656.00†	2649.59	-166.76	-56.88	2546.94	2518.54	1568.79	74.72	166.67	1745.46	55.77	
2756.00†	2749.24	-174.28	-59.26	2652.84	2623.41	1577.56	62.88	166.32	1760.60	56.21	
2856.00†	2848.93	-181.79	-61.63	2756.67	2726.27	1585.56	51.11	165.99	1775.18	56.65	
2956.00†	2948.62	-189.31	-64.01	2850.59	2819.23	1592.82	39.94	165.67	1789.84	57.07	
3056.00†	3048.31	-196.82	-66.39	2943.45	2911.08	1600.29	28.48	165.34	1804.84	57.50	
3156.00†	3148.00	-204.34	-68.76	3057.20	3023.63	1609.18	14.63	164.96	1819.69	58.05	
3256.00†	3247.69	-211.85	-71.14	3148.59	3114.12	1616.07	3.83	164.67	1834.33	58.51	
3356.00†	3347.38	-219.37	-73.52	3247.57	3212.05	1623.76	-8.35	164.34	1849.24	59.02	
3456.00†	3447.07	-226.88	-75.89	3379.10	3342.34	1632.40	-24.05	163.93	1862.95	59.73	
3556.00†	3546.75	-234.40	-78.27	3479.31	3441.74	1638.23	-35.37	163.65	1876.06	60.28	
3656.00†	3646.44	-241.91	-80.65	3566.15	3527.99	1643.41	-44.03	163.44	1889.40	60.77	
3756.00†	3746.13	-249.43	-83.02	3645.54	3606.79	1648.97	-51.92	163.25	1903.76	61.23	
3856.00†	3845.82	-256.94	-85.40	3735.21	3695.75	1655.93	-60.81	163.04	1918.91	61.75	
3956.00†	3945.51	-264.46	-87.77	3834.09	3793.86	1663.57	-70.50	162.81	1934.06	62.35	
4056.00†	4045.20	-271.98	-90.15	3910.17	3869.33	1670.03	-77.65	162.65	1949.99	62.81	
4156.00†	4144.89	-279.49	-92.53	4009.53	3967.81	1678.96	-87.34	162.43	1966.45	63.43	
4256.00†	4244.58	-287.01	-94.90	4097.26	4054.65	1687.07	-96.71	162.22	1983.19	64.00	
4356.00†	4344.27	-294.52	-97.28	4188.69	4145.12	1695.92	-106.61	161.99	2000.40	64.60	
4456.00†	4443.95	-302.04	-99.66	4328.38	4283.51	1708.10	-121.21	161.67	2016.64	65.52	
4556.00†	4543.64	-309.55	-102.03	4447.18	4401.36	1716.79	-133.28	161.41	2031.57	66.32	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. HARVESTERS RESOURCES #15M-303 AWP Offset Wellpath: EX. HARVESTERS RESOURCES #15M-303 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#07 EX. HARVESTERS RESOURCES #15M-303 (323°FNL & 2083°FEL, HORIZ/PR) Well: EX. HARVESTERS RECOURCES #15M-303 Threshold Value=1.00 † = Interpolated											
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	
4656.00†	4643.33	-317.07	-104.41	4597.05	4550.35	1725.26	-147.14	161.13	2044.89	67.28	
4756.00†	4743.02	-324.58	-106.79	4726.47	4679.20	1729.85	-158.34	160.91	2056.07	68.12	
4856.00†	4842.71	-332.10	-109.16	4848.35	4800.65	1732.71	-168.10	160.73	2066.08	68.93	
4956.00†	4942.40	-339.61	-111.54	4949.42	4901.51	1734.52	-174.27	160.64	2075.48	69.63	
5056.00†	5042.09	-347.13	-113.92	5062.81	5014.82	1736.26	-178.34	160.61	2084.57	70.38	
5156.00†	5141.78	-354.64	-116.29	5007.91	7188.30	-396.13	-178.08	155.81	2047.88	45.94	
5256.00†	5241.47	-362.16	-118.67	9014.14	7188.18	-402.35	-177.97	155.49	1948.03	46.20	
5356.00†	5341.15	-369.68	-121.04	9020.28	7188.05	-408.50	-177.86	155.13	1848.18	46.46	
5456.00†	5440.84	-377.19	-123.42	9026.35	7187.93	-414.56	-177.75	154.73	1748.33	46.72	
5556.00†	5540.53	-384.71	-125.80	9031.76	7187.81	-419.97	-177.64	154.33	1648.48	46.99	
5656.00†	5640.22	-392.22	-128.17	9036.75	7187.71	-424.96	-177.55	153.92	1548.62	47.25	
5756.00†	5739.91	-399.74	-130.55	9041.79	7187.61	-429.99	-177.45	153.46	1448.77	47.52	
5856.00†	5839.60	-407.25	-132.93	9046.87	7187.51	-435.07	-177.35	152.93	1348.93	47.80	
5956.00†	5939.29	-414.77	-135.30	9052.01	7187.40	-440.21	-177.24	152.31	1249.08	48.08	
6056.00†	6038.98	-422.28	-137.68	9057.19	7187.30	-445.39	-177.13	151.60	1149.24	48.37	
6156.00†	6138.67	-429.80	-140.06	9062.41	7187.20	-450.61	-177.03	150.76	1049.40	48.66	
6256.00†	6238.35	-437.31	-142.43	9067.62	7187.10	-455.81	-176.93	149.75	949.56	48.96	
6356.00†	6338.04	-444.83	-144.81	9072.89	7187.01	-461.09	-176.84	148.50	849.72	49.26	
6412.80	6394.66	-449.10	-146.16	9075.92	7186.95	-464.11	-176.79	147.65	793.02	49.44	
6456.00†	6437.66	-452.35	-148.65	9078.22	7186.91	-466.41	-176.76	173.14	749.90	49.57	
6556.00†	6535.83	-459.87	-165.57	9083.51	7186.81	-471.70	-176.69	-176.99	651.18	49.94	
6656.00†	6630.14	-467.23	-197.68	9088.70	7186.72	-476.89	-176.64	-176.84	557.06	50.92	
6756.00†	6718.27	-474.24	-244.19	9093.75	7186.63	-481.94	-176.60	-176.99	473.27	54.30	
6856.00†	6798.05	-480.73	-303.96	9098.48	7186.55	-486.66	-176.57	-177.11	408.89	63.27	
6956.00†	6867.52	-486.55	-375.51	9102.80	7186.48	-490.99	-176.55	-177.16	375.95	78.81	
6987.90†	6887.22	-488.24	-400.54	9103.99	7186.46	-492.17	-176.54	-177.19	373.80	84.73	
7056.00†	6924.96	-491.55	-457.09	9106.62	7186.41	-494.81	-176.53	-177.19	383.51	95.13	
7104.00†	6947.83	-493.61	-499.22	9108.24	7186.38	-496.42	-176.53	-177.20	401.31	101.53	
7156.00†	6968.96	-495.60	-546.68	9109.81	7186.36	-498.00	-176.52	-177.21	429.28	105.88	
7256.00†	6998.45	-498.60	-642.08	9112.26	7186.32	-500.44	-176.51	-177.28	502.05	111.02	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. HARVESTERS RESOURCES #15M-303 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15M-303 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#07 EX. HARVESTERS RESOURCES #15M-303 (323°FNL & 2083°FEL, HORIZ/PR) Well: EX. HARVESTERS RECOURES #15M-303 Threshold Value=1.00 † = interpolated										
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]
7356.00†	7012.68	-500.49	-740.94	9113.84	7186.29	-502.02	-176.51	-177.56	590.53	113.09
7401.17	7014.00	-500.97	-786.08	9114.23	7186.29	-502.42	-176.51	-177.89	633.45	113.52
7456.00†	7013.67	-501.39	-840.91	9114.60	7186.28	-502.78	-176.51	-177.76	686.46	113.84
7556.00†	7013.06	-502.18	-940.90	9115.29	7186.27	-503.48	-176.51	-177.53	783.77	114.24
7656.00†	7012.44	-502.96	-1040.90	9116.02	7186.26	-504.21	-176.51	-177.28	881.69	114.50
7756.00†	7011.83	-503.74	-1140.89	9116.79	7186.24	-504.98	-176.51	-177.02	980.03	114.68

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. HARVESTERS RESOURCES #15M-303 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15M-303 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. HARVESTERS RESOURCES #15M-303 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15M-303 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	11587.00	ISCWSA MWD, Rev. 4 (Standard)	MWD SURVEYS PROVIDED BY SRC FROM COGCC <146°-11587°>	EX. HARVESTERS RESOURCES #15M-303 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. HARVESTERS RESOURCES #15M-303 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15M-303 AWP

MD Reference: Rig on SLOT#07 EX. HARVESTERS RESOURCES #15M-303 ( (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: BURMAN 16-42 AWB Offset Wellpath: BURMAN 16-42 AWP

Facility: SEC.16-T06N-R66W Slot: SLOT#01 EX. BURMAN 16-42 (1979°FSL & 1778°FEL, NB-CD/PR/7355°TD) Well: BURMAN 16-42 Threshold Value=1.00 † = interpolated/extrapolated station											
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	ACR Status
1756.00	1752.35	-99.25	-35.49	1784.84	1728.84	-1524.83	-4780.08	53.35	4954.18	52.43	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: BURMAN 16-42 AWB Offset Wellpath: BURMAN 16-42 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: BURMAN 16-42 AWB Offset Wellpath: BURMAN 16-42 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7100.00	BHI Generic gyro - continuous (Standard)	SUMMIT SLICKLINE INC GYRO SURVEYS PROVIDED BY SRC <100-7100>	BURMAN 16-42 AWB
7100.00	7355.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7355>	BURMAN 16-42 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: BURMAN 16-42 AWB Offset Wellpath: BURMAN 16-42 AWP

MD Reference: Rig on SLOT#01 EX. BURMAN 16-42 (1979°FSL & 1778°FEL, NB-CD/PR/7355°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: FRITZLER 43-17 AWB Offset Wellpath: FRITZLER 43-17 AWP

Facility: SEC.17-T06N-R66W Slot: SLOT#09 EX. FRITZLER 43-17 (719°FSL & 627°FEL, NB-CD/PR/7532°TD) Well: FRITZLER 43-17 Threshold Value=1.00 † = interpolated/extrapolated station												C-C Clear Dist [ft]		ACR MASD [ft]	Sep Ratio	ACR Status
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]								
1756.00	1752.35	-99.25	-35.49	2410.90	2398.48	-2485.53	-8963.76	55.35			9264.22	52.90	178.34	PASS		

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: FRITZLER 43-17 AWB Offset Wellpath: FRITZLER 43-17 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: FRITZLER 43-17 AWB Offset Wellpath: FRITZLER 43-17 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7250.00	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100-7250>	FRITZLER 43-17 AWB
7250.00	7532.00	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL SURVEY FROM COGCC PROVIDED BY SRC <118-7532>	FRITZLER 43-17 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: FRITZLER 43-17 AWB Offset Wellpath: FRITZLER 43-17 AWP

MD Reference: Rig on SLOT#09 EX. FRITZLER 43-17 (719°FSL & 627°FEL, NB-CD/PR/7532°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

CLEARANCE DATA - Offset Wellbore: MCGLOTHLIN 8-6-17 AWB Offset Wellpath: MCGLOTHLIN 8-6-17 AWP												
Facility: SEC.17-T06N-R66W Slot: SLOT#11 EX. MCGLOTHLIN 8-6-17 (659°FSL & 623°FEL, NB-CD/PR/7434°TD)				Well: MCGLOTHLIN 8-6-17		Threshold Value=1.00 † = interpolated/extrapolated station						
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
1756.00	1752.35	-99.25	-35.49	2865.36	2864.26	-2590.71	-8654.26	54.37	9040.29	54.25	169.65	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: MCGLOTHLIN 8-6-17 AWB Offset Wellpath: MCGLOTHLIN 8-6-17 AWP			
Slot Surface Uncertainty @1SD		Horizontal	0.100ft
Facility Surface Uncertainty @1SD		Horizontal	8.200ft

WELLPATH COMPOSITION - Offset Wellbore: MCGLOTHLIN 8-6-17 AWB Offset Wellpath: MCGLOTHLIN 8-6-17 AWP			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment
0.00	7125.00	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100-7125>
7125.00	7434.00	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL SURVEY FROM COGCC PROVIDED BY SRC <82-7434>

OFFSET WELLPATH REFERENCE - Offset Wellbore: MCGLOTHLIN 8-6-17 AWB Offset Wellpath: MCGLOTHLIN 8-6-17 AWP	
MD Reference: Rig on SLOT#11 EX. MCGLOTHLIN 8-6-17 (659°FSL & 623°FEL, NB-CD/PR/7434°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. LOVELY 14-9 AWB Offset Wellpath: EX. LOVELY 14-9 AWP

Facility: SEC.09-T06N-R66W Slot: SLOT#04 EX. LOVELY 14-9 (611°FSL & 466°FWL, PA) Well: EX. LOVELY 14-9 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
1756.00	1752.35	-99.25	-35.49	1752.35	1752.35	2343.41	-7853.61	87.38	8190.82	108.55	76.13	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. LOVELY 14-9 AWB Offset Wellpath: EX. LOVELY 14-9 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. LOVELY 14-9 AWB Offset Wellpath: EX. LOVELY 14-9 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7399.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7399>	EX. LOVELY 14-9 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. LOVELY 14-9 AWB Offset Wellpath: EX. LOVELY 14-9 AWP

MD Reference: Rig on SLOT#04 EX. LOVELY 14-9 (611°FSL & 466°FWL, PA) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

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

Facility: SEC.09-T06N-R66W Slot: SLOT#03 EX. LOVELY 1 (660'FSL & 1980'FWL, PA) Well: EX. LOVELY 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
1756.00	1752.35	-99.25	-35.49	1749.35	1752.35	2408.56	-6357.30	91.65	6801.06	108.42	63.28	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

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

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7365.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7365>	EX. LOVELY 1 AWB

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

MD Reference: Rig on SLOT#03 EX. LOVELY 1 (660'FSL & 1980'FWL, PA) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: DONN 30N-20A-L PWB Offset Wellpath: DONN 30N-20A-L PWP (REV-B.0)

Facility: SEC.21-T06N-R66W Slot: SLOT#13 DONN 30N-20A-L (738°FNL & 250°FEL, SEC.21) Well: DONN 30N 20A-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	
1756.00	1752.35	-99.25	-35.49	2540.13	2541.87	-3990.81	-3004.18	17.59	4957.89	53.63	94.04	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: DONN 30N-20A-L PWB Offset Wellpath: DONN 30N-20A-L PWP (REV-B.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: DONN 30N-20A-L PWB Offset Wellpath: DONN 30N-20A-L PWP (REV-B.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	25.00	1769.00	1744.00	75.00	1802.16	-2565.96	-1992.50	-2523.55	-1941.92
9.625in Casing Surface	25.00	1769.00	1744.00	75.00	1802.16	-2565.96	-1992.50	-2523.55	-1941.92
8.5in Open Hole	1769.00	17652.56	15883.56	1802.16	6905.00	-2523.55	-1941.92	-2436.90	-5100.95

## SURVEY PROGRAM - Offset Wellbore: DONN 30N-20A-L PWB Offset Wellpath: DONN 30N-20A-L PWP (REV-B.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1769.00	BHI NaviTrak (Rotating+Axial Corr)		DONN 30N-20A-L AWP
1769.00	17652.56	BHI AutoTrak Curve (IFR1, Short)		DONN 30N-20A-L PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: DONN 30N-20A-L PWB Offset Wellpath: DONN 30N-20A-L PWP (REV-B.0)

MD Reference: PRECISION DRILLING (25") (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: STOCKOVER 16-1 AWB Offset Wellpath: STOCKOVER 16-1 AWP

Facility: SEC.16-T06N-R66W Slot: SLOT#03 EX. STOCKOVER 16-1 (1977°FSL & 664°FEL, NB-CD/PR/7320°TD) Well: STOCKOVER 16-1 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	
1756.00	1752.35	-99.25	-35.49	1651.37	1697.29	-1517.44	-3576.54	48.22	3814.88	52.60	73.86	PASS	
1783.09	1779.36	-101.16	-36.14	1679.11	1725.02	-1517.65	-3576.89	50.69	3813.96	52.40	73.78	PASS	
1856.00†	1852.04	-106.64	-37.87	1753.57	1799.48	-1518.08	-3577.84	50.75	3811.34	52.47	73.62	PASS	
1956.00†	1951.73	-114.15	-40.25	1855.30	1901.20	-1518.41	-3579.19	50.85	3807.70	52.58	73.39	PASS	
2056.00†	2051.42	-121.67	-42.62	1957.09	2002.98	-1518.49	-3580.58	50.95	3804.02	52.71	73.14	PASS	
2156.00†	2151.11	-129.18	-45.00	2055.69	2101.57	-1518.64	-3581.87	51.05	3800.33	52.85	72.87	PASS	
2256.00†	2250.80	-136.70	-47.38	2159.72	2205.59	-1518.86	-3583.23	51.15	3796.66	53.02	72.57	PASS	
2356.00†	2350.49	-144.21	-49.75	2258.19	2304.05	-1519.12	-3584.34	51.24	3792.86	53.19	72.26	PASS	
2456.00†	2450.18	-151.73	-52.13	2354.46	2400.31	-1519.51	-3585.53	51.33	3789.23	53.38	71.93	PASS	
2556.00†	2549.87	-159.25	-54.51	2461.16	2507.01	-1520.00	-3586.78	51.43	3785.56	53.60	71.56	PASS	
2656.00†	2649.55	-166.76	-56.88	2562.96	2608.80	-1520.31	-3587.82	51.53	3781.70	53.82	71.18	PASS	
2756.00†	2749.24	-174.28	-59.26	2668.91	2714.74	-1520.74	-3588.83	51.63	3777.84	54.07	70.78	PASS	
2856.00†	2848.93	-181.79	-61.63	2766.29	2812.12	-1520.92	-3589.69	51.72	3773.83	54.32	70.37	PASS	
2956.00†	2948.62	-189.31	-64.01	2865.52	2911.35	-1521.14	-3590.69	51.82	3769.96	54.59	69.95	PASS	
3056.00†	3048.31	-196.82	-66.39	2970.12	3015.94	-1521.40	-3591.63	51.92	3766.02	54.89	69.50	PASS	
3156.00†	3148.00	-204.34	-68.76	3066.21	3112.02	-1521.64	-3592.43	52.01	3762.03	55.18	69.05	PASS	
3256.00†	3247.69	-211.85	-71.14	3165.84	3211.65	-1521.92	-3593.39	52.10	3758.16	55.49	68.58	PASS	
3356.00†	3347.38	-219.37	-73.52	3267.88	3313.68	-1522.23	-3594.27	52.20	3754.24	55.83	68.10	PASS	
3456.00†	3447.07	-226.88	-75.89	3368.61	3414.42	-1522.55	-3595.10	52.30	3750.29	56.17	67.61	PASS	
3556.00†	3546.75	-234.40	-78.27	3479.50	3525.30	-1522.72	-3595.94	52.40	3746.23	56.54	67.08	PASS	
3656.00†	3646.44	-241.91	-80.65	3573.81	3619.61	-1523.04	-3596.42	52.49	3742.01	56.90	66.58	PASS	
3756.00†	3746.13	-249.43	-83.02	3676.42	3722.22	-1523.73	-3596.96	52.58	3737.94	57.27	66.08	PASS	
3856.00†	3845.82	-256.94	-85.40	3785.72	3831.50	-1524.92	-3597.13	52.67	3733.66	57.62	65.59	PASS	
3956.00†	3945.51	-264.46	-87.77	3882.98	3928.76	-1525.92	-3597.17	52.75	3729.27	57.96	65.12	PASS	
4056.00†	4045.20	-271.98	-90.15	3986.99	4032.77	-1527.01	-3597.24	52.84	3724.91	58.32	64.64	PASS	
4156.00†	4144.89	-279.49	-92.53	4095.22	4140.99	-1528.07	-3597.12	52.93	3720.36	58.67	64.17	PASS	
4256.00†	4244.58	-287.01	-94.90	4200.44	4246.21	-1528.33	-3597.06	53.02	3715.63	59.00	63.73	PASS	
4356.00†	4344.27	-294.52	-97.28	4299.03	4344.80	-1528.17	-3597.08	53.12	3710.86	59.32	63.30	PASS	
4456.00†	4443.95	-302.04	-99.66	4404.87	4450.64	-1527.64	-3597.17	53.23	3706.04	59.66	62.86	PASS	
4556.00†	4543.64	-309.55	-102.03	4520.01	4565.78	-1526.91	-3596.87	53.36	3700.86	59.96	62.45	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: STOCKOVER 16-1 AWB Offset Wellpath: STOCKOVER 16-1 AWP

Facility: SEC.16-T06N-R66W Slot: SLOT#03 EX. STOCKOVER 16-1 (197°FSL & 664°FEL, NB-CD/PR/7320°TD) Well: STOCKOVER 16-1 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
4656.00†	4643.33	-317.07	-104.41	4611.21	4656.97	-1526.90	-3596.40	53.44	3695.66	60.26	62.05	PASS
4756.00†	4743.02	-324.58	-106.79	4696.53	4742.28	-1526.02	-3596.55	53.54	3690.78	60.63	61.59	PASS
4856.00†	4842.71	-332.10	-109.16	4815.67	4861.40	-1523.73	-3597.02	53.69	3685.85	61.11	61.01	PASS
4956.00†	4942.40	-339.61	-111.54	4916.73	4962.46	-1522.66	-3596.75	53.81	3680.58	61.46	60.57	PASS
5056.00†	5042.09	-347.13	-113.92	4992.91	5038.63	-1521.54	-3596.94	53.90	3675.69	61.82	60.14	PASS
5156.00†	5141.78	-354.64	-116.29	5093.41	5139.12	-1519.94	-3597.60	54.03	3671.16	62.25	59.64	PASS
5256.00†	5241.47	-362.16	-118.67	5178.49	5224.19	-1519.18	-3598.08	54.13	3666.79	62.67	59.16	PASS
5356.00†	5341.15	-369.68	-121.04	5271.78	5317.47	-1518.49	-3598.90	54.23	3662.76	63.14	58.66	PASS
5456.00†	5440.84	-377.19	-123.42	5357.99	5403.68	-1518.12	-3599.73	54.33	3658.94	63.61	58.15	PASS
5556.00†	5540.53	-384.71	-125.80	5447.70	5493.37	-1517.82	-3600.97	54.43	3655.54	64.11	57.64	PASS
5656.00†	5640.22	-392.22	-128.17	5616.48	5662.14	-1516.65	-3602.44	54.63	3651.76	64.72	57.03	PASS
5756.00†	5739.91	-399.74	-130.55	5747.30	5792.95	-1514.83	-3601.41	54.78	3645.97	65.14	56.57	PASS
5856.00†	5839.60	-407.25	-132.93	5832.89	5878.53	-1513.92	-3600.46	54.88	3640.05	65.53	56.15	PASS
5956.00†	5939.29	-414.77	-135.30	5903.12	5948.75	-1513.44	-3600.12	54.95	3634.85	65.92	55.73	PASS
6056.00†	6038.98	-422.28	-137.68	5977.91	6023.54	-1512.88	-3600.36	55.04	3630.40	66.36	55.28	PASS
6156.00†	6138.67	-429.80	-140.06	6148.77	6194.38	-1510.40	-3599.83	55.25	3625.03	66.90	54.76	PASS
6256.00†	6238.35	-437.31	-142.43	6232.58	6278.17	-1509.09	-3599.07	55.35	3619.20	67.32	54.32	PASS
6356.00†	6338.04	-444.83	-144.81	6308.29	6353.88	-1508.88	-3598.45	55.43	3613.88	67.75	53.89	PASS
6412.80	6394.66	-449.10	-146.16	6335.93	6381.52	-1509.12	-3598.37	55.45	3611.31	68.01	53.65	PASS
6456.00†	6437.66	-452.35	-148.65	6356.95	6402.53	-1509.43	-3598.42	22.58	3608.27	68.21	53.44	PASS
6556.00†	6535.83	-459.87	-165.57	6408.82	6454.39	-1510.64	-3598.98	-0.14	3591.53	68.90	52.66	PASS
6656.00†	6630.14	-467.23	-197.68	6489.29	6534.81	-1512.58	-3600.46	-7.25	3561.01	70.12	51.29	PASS
6756.00†	6718.27	-474.24	-244.19	6559.88	6605.37	-1514.02	-3602.18	-11.54	3517.10	71.19	49.89	PASS
6856.00†	6798.05	-480.73	-303.96	6631.11	6676.55	-1515.50	-3604.29	-15.44	3460.88	72.13	48.45	PASS
6956.00†	6867.52	-486.55	-375.51	6704.54	6749.93	-1517.25	-3606.42	-20.08	3393.37	72.93	46.97	PASS
7056.00†	6924.96	-491.55	-457.09	6766.30	6811.65	-1518.87	-3608.13	-26.45	3316.22	73.56	45.51	PASS
7156.00†	6968.96	-495.60	-546.68	6923.66	6968.96	-1521.18	-3610.36	-38.44	3230.78	74.20	43.95	PASS
7256.00†	6998.45	-498.60	-642.08	6953.15	6998.45	-1521.18	-3610.36	-55.27	3139.48	74.63	42.46	PASS
7356.00†	7012.68	-500.49	-740.94	6967.38	7012.68	-1521.18	-3610.36	-79.27	3045.55	74.94	41.02	PASS
7401.17	7014.00	-500.97	-786.08	6968.70	7014.00	-1521.18	-3610.36	-90.99	3002.90	75.04	40.39	PASS

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: STOCKOVER 16-1 AWB Offset Wellpath: STOCKOVER 16-1 AWP

Facility: SEC.16-T06N-R66W Slot: SLOT#03 EX. STOCKOVER 16-1 (1977°FSL & 664°FEL, NB-CD/PR/7320°TD) Well: STOCKOVER 16-1 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	
7456.00†	7013.67	-501.39	-840.91	6968.37	7013.67	-1521.18	-3610.36	-90.97	2951.24	75.18	39.62	PASS	
7556.00†	7013.06	-502.18	-940.90	6967.76	7013.06	-1521.18	-3610.36	-90.94	2857.34	75.50	38.19	PASS	
7656.00†	7012.44	-502.96	-1040.90	6967.14	7012.44	-1521.18	-3610.36	-90.90	2763.86	75.94	36.73	PASS	
7756.00†	7011.83	-503.74	-1140.89	6966.53	7011.83	-1521.18	-3610.36	-90.87	2670.85	76.51	35.22	PASS	
7856.00†	7011.22	-504.52	-1240.89	6965.92	7011.22	-1521.18	-3610.36	-90.83	2578.37	77.23	33.68	PASS	
7956.00†	7010.61	-505.31	-1340.88	6965.31	7010.61	-1521.18	-3610.36	-90.80	2486.47	78.13	32.11	PASS	
8056.00†	7010.00	-506.09	-1440.88	6964.70	7010.00	-1521.18	-3610.36	-90.76	2395.22	79.22	30.50	PASS	
8156.00†	7009.39	-506.87	-1540.87	6964.09	7009.39	-1521.18	-3610.36	-90.73	2304.69	80.54	28.86	PASS	
8256.00†	7008.78	-507.65	-1640.87	6963.48	7008.78	-1521.18	-3610.36	-90.69	2214.98	82.11	27.20	PASS	
8356.00†	7008.17	-508.43	-1740.86	6962.87	7008.17	-1521.18	-3610.36	-90.66	2126.19	83.96	25.53	PASS	
8456.00†	7007.56	-509.22	-1840.86	6962.26	7007.56	-1521.18	-3610.36	-90.62	2038.43	86.13	23.85	PASS	
8556.00†	7006.95	-510.00	-1940.85	6961.65	7006.95	-1521.18	-3610.36	-90.59	1951.86	88.66	22.19	PASS	
8656.00†	7006.34	-510.78	-2040.85	6961.04	7006.34	-1521.18	-3610.36	-90.55	1866.62	91.57	20.54	PASS	
8756.00†	7005.73	-511.56	-2140.84	6960.43	7005.73	-1521.18	-3610.36	-90.52	1782.92	94.91	18.92	PASS	
8856.00†	7005.12	-512.35	-2240.84	6959.82	7005.12	-1521.18	-3610.36	-90.48	1700.98	98.72	17.35	PASS	
8956.00†	7004.51	-513.13	-2340.83	6959.21	7004.51	-1521.18	-3610.36	-90.45	1621.07	103.03	15.84	PASS	
9056.00†	7003.90	-513.91	-2440.83	6958.60	7003.90	-1521.18	-3610.36	-90.41	1543.50	107.88	14.40	PASS	
9156.00†	7003.29	-514.69	-2540.82	6957.99	7003.29	-1521.18	-3610.36	-90.38	1468.65	113.30	13.04	PASS	
9256.00†	7002.68	-515.47	-2640.82	6957.38	7002.68	-1521.18	-3610.36	-90.34	1396.94	119.30	11.77	PASS	
9356.00†	7002.07	-516.26	-2740.81	6956.77	7002.07	-1521.18	-3610.36	-90.31	1328.90	125.90	10.61	PASS	
9456.00†	7001.46	-517.04	-2840.81	6956.16	7001.46	-1521.18	-3610.36	-90.27	1265.11	133.06	9.55	PASS	
9556.00†	7000.85	-517.82	-2940.80	6955.55	7000.85	-1521.18	-3610.36	-90.24	1206.25	140.73	8.61	PASS	
9656.00†	7000.24	-518.60	-3040.80	6954.94	7000.24	-1521.18	-3610.36	-90.20	1153.06	148.79	7.78	PASS	
9756.00†	6999.63	-519.39	-3140.79	6954.33	6999.63	-1521.18	-3610.36	-90.17	1106.38	157.07	7.07	PASS	
9856.00†	6999.02	-520.17	-3240.79	6953.72	6999.02	-1521.18	-3610.36	-90.13	1067.05	165.34	6.48	PASS	
9956.00†	6998.41	-520.95	-3340.78	6953.11	6998.41	-1521.18	-3610.36	-90.10	1035.92	173.27	6.00	PASS	
10056.00†	6997.80	-521.73	-3440.78	6952.50	6997.80	-1521.18	-3610.36	-90.06	1013.73	180.55	5.63	PASS	
10156.00†	6997.19	-522.52	-3540.77	6951.89	6997.19	-1521.18	-3610.36	-90.03	1001.08	186.82	5.38	PASS	
10235.20†	6996.70	-523.13	-3619.97	6950.00	6995.30	-1521.18	-3610.36	-89.92	998.09	191.34	5.23	PASS	
10256.00†	6996.58	-523.30	-3640.77	6951.28	6996.58	-1521.18	-3610.36	-89.99	998.34	191.80	5.22	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

POSITIONAL UNCERTAINTY - Offset Wellbore: STOCKOVER 16-1 AWB Offset Wellpath: STOCKOVER 16-1 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: STOCKOVER 16-1 AWB Offset Wellpath: STOCKOVER 16-1 AWP				
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6800.00	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100-6800>	STOCKOVER 16-1 AWB
6800.00	7320.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7320>	STOCKOVER 16-1 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: STOCKOVER 16-1 AWB Offset Wellpath: STOCKOVER 16-1 AWP	
MD Reference: Rig on SLOT#03 EX. STOCKOVER 16-1 (1977°FSL & 664°FEL, NB-CD/PR/7320°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: DONN 30N-20B-L PWB Offset Wellpath: DONN 30N-20B-L PWP (REV-B.0)

Facility: SEC.21-T06N-R66W Slot: SLOT#14 DONN 30N-20B-L (758°FNL & 250°FEL, SEC.21) Well: DONN 30N-20B-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
1756.00	1752.35	-99.25	-35.49	2427.84	2437.19	-4082.70	-3028.10	17.14	5029.17	53.68	95.30	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: DONN 30N-20B-L PWB Offset Wellpath: DONN 30N-20B-L PWP (REV-B.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: DONN 30N-20B-L PWB Offset Wellpath: DONN 30N-20B-L PWP (REV-B.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	25.00	1749.00	1724.00	75.00	1786.70	-2578.17	-1992.50	-2549.06	-1945.32
9.625in Casing Surface	25.00	1749.00	1724.00	75.00	1786.70	-2578.17	-1992.50	-2549.06	-1945.32
8.5in Open Hole	1749.00	17763.00	16014.00	1786.70	7016.00	-2549.06	-1945.32	-2504.64	-5101.25

## SURVEY PROGRAM - Offset Wellbore: DONN 30N-20B-L PWB Offset Wellpath: DONN 30N-20B-L PWP (REV-B.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1749.00	BHI NaviTrak (Standard)		DONN 30N-20B-L AWP
1749.00	17763.35	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)		DONN 30N-20B-L PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: DONN 30N-20B-L PWB Offset Wellpath: DONN 30N-20B-L PWP (REV-B.0)

MD Reference: PRECISION DRILLING (25") (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: LUCAS SCHOOL 34-9 AWB Offset Wellpath: LUCAS SCHOOL 34-9 AWP

Facility: SEC.09-T06N-R66W Slot: SLOT#04 EX. LUCAS SCHOOL 34-9 (660'FSL & 1840'FEL, NBFHC/TA/7393'TD) Well: LUCAS SCHOOL 34-9 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
1756.00	1752.35	-99.25	-35.49	1729.35	1752.35	2430.07	-4844.32	97.74	5433.44	107.56	50.96	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: LUCAS SCHOOL 34-9 AWB Offset Wellpath: LUCAS SCHOOL 34-9 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: LUCAS SCHOOL 34-9 AWB Offset Wellpath: LUCAS SCHOOL 34-9 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7393.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7393>	LUCAS SCHOOL 34-9 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: LUCAS SCHOOL 34-9 AWB Offset Wellpath: LUCAS SCHOOL 34-9 AWP

MD Reference: Rig on SLOT#04 EX. LUCAS SCHOOL 34-9 (660'FSL & 1840'FEL, NBFHC/TA/7393'TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

CLEARANCE DATA - Offset Wellbore: MCGLOTHLIN 17-11 AWB Offset Wellpath: MCGLOTHLIN 17-11 AWP												
Facility: SEC.17-T06N-R66W Slot: SLOT#01 EX. MCGLOTHLIN 17-11 (470°FNL & 830°FEL, NB-CD/PR/7364°TD) Well: MCGLOTHLIN 17-11 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
1756.00	1752.35	-99.25	-35.49	1786.34	1719.32	1217.41	-9144.38	78.26	9203.61	52.52	178.49	PASS
C-C Clearance Distance Cutoff: 1000.00 ft												

POSITIONAL UNCERTAINTY - Offset Wellbore: MCGLOTHLIN 17-11 AWB Offset Wellpath: MCGLOTHLIN 17-11 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: MCGLOTHLIN 17-11 AWB Offset Wellpath: MCGLOTHLIN 17-11 AWP			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment
0.00	6400.00	BHI Generic gyro - continuous (Standard)	SUMMIT SLICKLINE INC GYRO SURVEYS PROVIDED BY SRC <100-6400>
6400.00	7364.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7364>

OFFSET WELLPATH REFERENCE - Offset Wellbore: MCGLOTHLIN 17-11 AWB Offset Wellpath: MCGLOTHLIN 17-11 AWP	
MD Reference: Rig on SLOT#01 EX. MCGLOTHLIN 17-11 (470°FNL & 830°FEL, NB-CD/PR/7364°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. HARVESTERS RESOURCES #15M-423 AWP Offset Wellpath: EX. HARVESTERS RESOURCES #15M-423 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#06 EX. HARVESTERS RESOURCES #15M-423 (323'FNL & 2053'FEL, HORIZ/PR) Well: EX. HARVESTERS RESOURCES #15M-423 Threshold Value=1.00 † = Interpolated/											
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	I
1756.00	1752.35	-99.25	-35.49	1770.06	1754.95	1460.03	284.50	171.60	1591.78	53.64	
1783.09	1779.36	-101.16	-36.14	1799.41	1784.30	1459.92	284.71	174.05	1593.72	53.47	
1856.00†	1852.04	-106.64	-37.87	1867.39	1852.28	1459.65	285.12	174.09	1599.24	53.61	
1956.00†	1951.73	-114.15	-40.25	1953.67	1938.56	1460.08	284.66	174.09	1607.47	53.79	
2056.00†	2051.42	-121.67	-42.62	2036.62	2021.48	1461.45	283.31	174.06	1616.60	53.97	
2156.00†	2151.11	-129.18	-45.00	2114.44	2099.24	1463.82	281.43	174.00	1626.94	54.14	
2256.00†	2250.80	-136.70	-47.38	2188.42	2173.11	1467.24	279.34	173.93	1638.72	54.31	
2356.00†	2350.49	-144.21	-49.75	2271.43	2255.94	1472.21	276.96	173.83	1651.82	54.53	
2456.00†	2450.18	-151.73	-52.13	2356.39	2340.67	1477.99	274.69	173.74	1665.77	54.76	
2556.00†	2549.87	-159.25	-54.51	2444.49	2428.48	1484.71	272.24	173.64	1680.50	55.02	
2656.00†	2649.55	-166.76	-56.88	2531.47	2515.11	1491.97	269.20	173.51	1695.82	55.30	
2756.00†	2749.24	-174.28	-59.26	2616.23	2599.45	1499.77	266.20	173.39	1711.95	55.57	
2856.00†	2848.93	-181.79	-61.63	2700.70	2683.43	1508.21	263.08	173.26	1728.85	55.86	
2956.00†	2948.62	-189.31	-64.01	2783.48	2765.64	1517.37	259.58	173.11	1746.69	56.15	
3056.00†	3048.31	-196.82	-66.39	2868.59	2869.94	1529.35	254.60	172.91	1764.80	56.58	
3156.00†	3148.00	-204.34	-68.76	2959.93	2980.51	1541.24	249.15	172.70	1782.18	57.07	
3256.00†	3247.69	-211.85	-71.14	3100.87	3080.73	1551.84	243.49	172.49	1799.30	57.51	
3356.00†	3347.38	-219.37	-73.52	3209.02	3188.14	1562.88	237.30	172.27	1816.14	58.02	
3456.00†	3447.07	-226.88	-75.89	3307.49	3286.03	1572.36	232.30	172.09	1832.53	58.48	
3556.00†	3546.75	-234.40	-78.27	3398.07	3376.07	1581.32	228.19	171.95	1849.29	58.92	
3656.00†	3646.44	-241.91	-80.65	3490.68	3468.09	1590.86	223.94	171.80	1866.45	59.38	
3756.00†	3746.13	-249.43	-83.02	3588.93	3565.71	1601.12	219.66	171.65	1883.80	59.90	
3856.00†	3845.82	-256.94	-85.40	3692.03	3668.14	1611.78	214.83	171.49	1901.01	60.45	
3956.00†	3945.51	-264.46	-87.77	3796.83	3772.26	1622.39	209.36	171.31	1917.94	61.03	
4056.00†	4045.20	-271.98	-90.15	3881.59	3856.44	1631.05	204.71	171.17	1934.96	61.51	
4156.00†	4144.89	-279.49	-92.53	3969.77	3943.89	1640.91	199.14	170.99	1952.79	62.02	
4256.00†	4244.58	-287.01	-94.90	4058.28	4031.61	1651.13	193.32	170.81	1970.99	62.54	
4356.00†	4344.27	-294.52	-97.28	4151.21	4123.67	1662.38	187.30	170.62	1989.75	63.10	
4456.00†	4443.95	-302.04	-99.66	4259.82	4231.35	1675.18	181.23	170.43	2008.35	63.78	
4556.00†	4543.64	-309.55	-102.03	4371.98	4342.65	1687.61	175.10	170.25	2026.29	64.49	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. HARVESTERS RESOURCES #15M-423 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15M-423 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#06 EX. HARVESTERS RESOURCES #15M-423 (323'FNL & 2053'FEL, HORIZ/PR) Well: EX. HARVESTERS RESOURCES #15M-423 Threshold Value=1.00 † = Interpolated/											I
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	
4656.00†	4643.33	-317.07	-104.41	4468.13	4438.15	1697.85	170.56	170.12	2043.92	65.11	
4756.00†	4743.02	-324.58	-106.79	4566.54	4536.92	1708.34	166.79	170.01	2061.67	65.75	
4856.00†	4842.71	-332.10	-109.16	4673.78	4642.51	1719.51	162.97	169.90	2079.23	66.47	
4956.00†	4942.40	-339.61	-111.54	4826.43	4794.50	1732.78	158.19	169.78	2095.10	67.46	
5056.00†	5042.09	-347.13	-113.92	4970.25	4937.96	1742.05	154.19	169.69	2108.89	68.38	
5156.00†	5141.78	-354.64	-116.29	9091.82	7218.77	-407.59	124.22	-127.13	2091.54	47.49	
5256.00†	5241.47	-362.16	-118.67	9094.61	7218.73	-410.38	123.97	-126.65	1992.68	47.88	
5356.00†	5341.15	-369.68	-121.04	9097.57	7218.69	-413.32	123.72	-126.15	1893.93	48.30	
5456.00†	5440.84	-377.19	-123.42	9100.69	7218.66	-416.43	123.45	-125.61	1795.30	48.75	
5556.00†	5540.53	-384.71	-125.80	9105.01	7218.62	-420.74	123.08	-124.85	1696.82	49.27	
5656.00†	5640.22	-392.22	-128.17	9111.83	7218.56	-427.53	122.50	-123.65	1598.51	49.85	
5756.00†	5739.91	-399.74	-130.55	9118.65	7218.50	-434.33	121.92	-122.43	1500.39	50.50	
5856.00†	5839.60	-407.25	-132.93	9125.47	7218.44	-441.12	121.34	-121.18	1402.50	51.23	
5956.00†	5939.29	-414.77	-135.30	9132.29	7218.38	-447.92	120.75	-119.92	1304.89	52.06	
6056.00†	6038.98	-422.28	-137.68	9140.96	7218.30	-456.55	120.02	-118.30	1207.63	53.04	
6156.00†	6138.67	-429.80	-140.06	9149.65	7218.19	-465.21	119.30	-116.64	1110.81	54.20	
6256.00†	6238.35	-437.31	-142.43	9157.74	7218.08	-473.27	118.64	-115.07	1014.55	55.58	
6356.00†	6338.04	-444.83	-144.81	9165.28	7217.96	-480.79	118.04	-113.59	919.04	57.27	
6412.80	6394.66	-449.10	-146.16	9169.52	7217.88	-485.02	117.71	-112.75	865.22	58.41	
6456.00†	6437.66	-452.35	-148.65	9172.82	7217.82	-488.31	117.45	-114.25	825.07	59.48	
6556.00†	6535.83	-459.87	-165.57	9181.16	7217.65	-496.62	116.80	-164.63	738.89	63.36	
6656.00†	6630.14	-467.23	-197.68	9190.25	7217.44	-505.68	116.10	-169.57	666.98	70.02	
6756.00†	6718.27	-474.24	-244.19	9199.36	7217.21	-514.76	115.40	-171.39	616.35	79.36	
6856.00†	6798.05	-480.73	-303.96	9207.16	7217.02	-522.53	114.80	-172.17	593.84	90.14	
6877.90†	6814.21	-482.07	-318.68	9209.96	7216.96	-525.33	114.59	-172.14	593.12	92.72	
6956.00†	6867.52	-486.55	-375.51	9215.75	7216.84	-531.09	114.15	-172.23	603.14	100.01	
7004.00†	6896.69	-489.06	-413.53	9220.08	7216.76	-535.41	113.81	-172.05	618.62	104.24	
7056.00†	6924.96	-491.55	-457.09	9224.87	7216.68	-540.19	113.45	-171.71	642.63	107.20	
7156.00†	6968.96	-495.60	-546.68	9233.54	7216.55	-548.83	112.78	-170.59	706.42	111.54	
7256.00†	6998.45	-498.60	-642.08	9240.68	7216.49	-555.95	112.25	-168.58	787.30	113.85	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. HARVESTERS RESOURCES #15M-423 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15M-423 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#06 EX. HARVESTERS RESOURCES #15M-423 (323°FNL & 2053°FEL, HORIZ/PR) Well: EX. HARVESTERS RESOURCES #15M-423 Threshold Value=1.00 † = Interpolated/										
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]
7356.00†	7012.68	-500.49	-740.94	9247.18	7216.46	-562.44	111.77	-164.19	878.91	114.98
7401.17	7014.00	-500.97	-786.08	9249.82	7216.46	-565.07	111.58	-160.15	922.44	115.25
7456.00†	7013.67	-501.39	-840.91	9252.86	7216.47	-568.10	111.37	-159.37	975.91	115.49

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. HARVESTERS RESOURCES #15M-423 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15M-423 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. HARVESTERS RESOURCES #15M-423 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15M-423 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	11662.00	ISCWSA MWD, Rev. 4 (Standard)	MWD SURVEYS PROVIDED BY SRC FROM COGCC <146"-11662">	EX. HARVESTERS RESOURCES #15M-423 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. HARVESTERS RESOURCES #15M-423 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15M-423 AWP

MD Reference: Rig on SLOT#06 EX. HARVESTERS RESOURCES #15M-423 (323°FNL & 2053°FEL, HORIZ/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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. LUCAS SCHOOL #1 AWB Offset Wellpath: EX. LUCAS SCHOOL #1 AWP

Facility: SEC.09-T06N-R66W Slot: SLOT#03 EX. LUCAS SCHOOL #1 (660°FSL & 600°FEL, TA) Well: EX. LUCAS SCHOOL #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
1756.00	1752.35	-99.25	-35.49	1769.35	1752.35	2449.17	-3628.93	105.33	4405.37	109.27	40.67	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. LUCAS SCHOOL #1 AWB Offset Wellpath: EX. LUCAS SCHOOL #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. LUCAS SCHOOL #1 AWB Offset Wellpath: EX. LUCAS SCHOOL #1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7398.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7398>	EX. LUCAS SCHOOL #1 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. LUCAS SCHOOL #1 AWB Offset Wellpath: EX. LUCAS SCHOOL #1 AWP

MD Reference: Rig on SLOT#03 EX. LUCAS SCHOOL #1 (660°FSL & 600°FEL, TA) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: SENA 15-24 AWB Offset Wellpath: SENA 15-24 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#27 EX. SENA 15-24 (1876°FNL & 1907°FNL, NB-CD/PR/7440°TD) Well: SENA 15-24 Threshold Value=1.00 † = interpolated/extrapolated station													C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]								
1756.00	1752.35	-99.25	-35.49	1724.59	1725.48	-48.69	-1176.47	72.51	1142.42	18.01	66.98	PASS				
1783.09	1779.36	-101.16	-36.14	1750.61	1751.48	-48.64	-1177.10	75.03	1142.51	17.93	66.30	PASS				
1856.00†	1852.04	-106.64	-37.87	1821.32	1822.18	-48.42	-1178.89	75.30	1142.89	18.22	65.24	PASS				
1956.00†	1951.73	-114.15	-40.25	1921.68	1922.50	-48.11	-1181.50	75.69	1143.54	18.64	63.73	PASS				
2056.00†	2051.42	-121.67	-42.62	2024.63	2025.42	-47.93	-1183.95	76.09	1144.01	19.11	62.14	PASS				
2156.00†	2151.11	-129.18	-45.00	2123.44	2124.21	-47.60	-1186.17	76.48	1144.40	19.59	60.57	PASS				
2256.00†	2250.80	-136.70	-47.38	2218.82	2219.55	-47.22	-1188.61	76.86	1145.16	20.09	59.06	PASS				
2356.00†	2350.49	-144.21	-49.75	2317.88	2318.58	-46.88	-1191.29	77.24	1146.12	20.63	57.51	PASS				
2456.00†	2450.18	-151.73	-52.13	2416.46	2417.12	-46.51	-1194.20	77.63	1147.39	21.19	56.00	PASS				
2556.00†	2549.87	-159.25	-54.51	2533.07	2533.69	-47.10	-1196.57	78.04	1147.68	21.82	54.32	PASS				
2656.00†	2649.55	-166.76	-56.88	2635.62	2636.23	-48.17	-1198.01	78.37	1147.35	22.41	52.83	PASS				
2756.00†	2749.24	-174.28	-59.26	2735.00	2735.61	-48.42	-1199.12	78.74	1146.87	23.02	51.37	PASS				
2856.00†	2848.93	-181.79	-61.63	2830.81	2831.40	-49.02	-1200.55	79.07	1146.76	23.64	49.99	PASS				
2956.00†	2948.62	-189.31	-64.01	2930.14	2930.71	-49.90	-1202.20	79.40	1146.84	24.27	48.65	PASS				
3056.00†	3048.31	-196.82	-66.39	3028.76	3029.32	-50.14	-1203.80	79.76	1146.99	24.93	47.32	PASS				
3156.00†	3148.00	-204.34	-68.76	3126.47	3127.01	-50.08	-1205.55	80.13	1147.40	25.63	46.02	PASS				
3256.00†	3247.69	-211.85	-71.14	3229.81	3230.33	-50.05	-1207.36	80.52	1147.81	26.35	44.73	PASS				
3356.00†	3347.38	-219.37	-73.52	3335.78	3336.30	-49.32	-1208.49	80.96	1147.70	27.07	43.52	PASS				
3456.00†	3447.07	-226.88	-75.89	3434.66	3435.16	-47.27	-1209.14	81.44	1147.45	27.71	42.47	PASS				
3556.00†	3546.75	-234.40	-78.27	3537.37	3537.80	-43.85	-1209.71	82.00	1147.41	28.32	41.52	PASS				
3656.00†	3646.44	-241.91	-80.65	3648.76	3649.18	-41.68	-1209.53	82.55	1146.51	28.90	40.64	PASS				
3756.00†	3746.13	-249.43	-83.02	3750.93	3751.33	-40.19	-1208.82	83.02	1145.09	29.43	39.84	PASS				
3856.00†	3845.82	-256.94	-85.40	3848.92	3849.30	-38.36	-1208.08	83.50	1143.77	29.97	39.06	PASS				
3956.00†	3945.51	-264.46	-87.77	3946.30	3946.66	-36.25	-1207.46	84.00	1142.71	30.54	38.28	PASS				
4056.00†	4045.20	-271.98	-90.15	4044.27	4044.61	-34.70	-1207.13	84.46	1141.90	31.15	37.49	PASS				
4156.00†	4144.89	-279.49	-92.53	4142.66	4142.99	-33.71	-1207.02	84.90	1141.27	31.80	36.69	PASS				
4256.00†	4244.58	-287.01	-94.90	4241.32	4241.65	-33.32	-1207.16	85.30	1140.82	32.52	35.84	PASS				
4356.00†	4344.27	-294.52	-97.28	4340.53	4340.86	-33.47	-1207.47	85.69	1140.48	33.27	35.00	PASS				
4456.00†	4443.95	-302.04	-99.66	4440.54	4440.87	-34.11	-1207.94	86.04	1140.21	33.99	34.24	PASS				
4556.00†	4543.64	-309.55	-102.03	4541.46	4541.79	-34.86	-1208.34	86.40	1139.90	34.68	33.53	PASS				

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: SENA 15-24 AWB Offset Wellpath: SENA 15-24 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#27 EX. SENA 15-24 (1876°FNL & 1907°FNL, NB-CD/PR/7440°TD) Well: SENA 15-24 Threshold Value=1.00 † = interpolated/extrapolated station													Sep Ratio	ACR Status
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]				
4656.00†	4643.33	-317.07	-104.41	4646.43	4646.74	-36.20	-1208.72	86.75	1139.47	35.35	32.88	PASS		
4756.00†	4743.02	-324.58	-106.79	4769.22	4769.47	-40.26	-1208.35	87.04	1137.98	35.97	32.25	PASS		
4856.00†	4842.71	-332.10	-109.16	4909.50	4909.51	-46.73	-1203.82	87.34	1133.22	36.54	31.61	PASS		
4956.00†	4942.40	-339.61	-111.54	4980.92	4980.82	-49.89	-1201.22	87.50	1128.20	37.14	30.95	PASS		
5056.00†	5042.09	-347.13	-113.92	5065.35	5065.19	-52.25	-1199.63	87.75	1125.28	37.73	30.37	PASS		
5156.00†	5141.78	-354.64	-116.29	5151.63	5151.45	-54.06	-1198.77	88.02	1123.48	38.33	29.84	PASS		
5256.00†	5241.47	-362.16	-118.67	5241.48	5241.30	-54.67	-1198.69	88.35	1122.94	38.97	29.33	PASS		
5356.00†	5341.15	-369.68	-121.04	5336.68	5336.50	-54.46	-1198.79	88.74	1122.90	39.69	28.79	PASS		
5456.00†	5440.84	-377.19	-123.42	5428.85	5428.66	-53.45	-1199.21	89.15	1123.51	40.45	28.25	PASS		
5556.00†	5540.53	-384.71	-125.80	5523.15	5522.94	-51.66	-1200.05	89.61	1124.83	41.23	27.74	PASS		
5656.00†	5640.22	-392.22	-128.17	5626.06	5625.83	-49.68	-1200.99	90.10	1126.26	42.04	27.23	PASS		
5756.00†	5739.91	-399.74	-130.55	5730.99	5730.73	-47.70	-1201.49	90.61	1127.35	42.84	26.74	PASS		
5856.00†	5839.60	-407.25	-132.93	5835.12	5834.86	-46.76	-1201.85	91.07	1128.09	43.67	26.24	PASS		
5956.00†	5939.29	-414.77	-135.30	5933.67	5933.41	-46.53	-1202.10	91.47	1128.58	44.51	25.75	PASS		
6056.00†	6038.98	-422.28	-137.68	6025.61	6025.35	-46.21	-1202.93	91.84	1129.76	45.35	25.29	PASS		
6156.00†	6138.67	-429.80	-140.06	6126.20	6125.93	-45.97	-1204.09	92.23	1131.22	46.22	24.84	PASS		
6256.00†	6238.35	-437.31	-142.43	6227.02	6226.74	-45.86	-1205.19	92.62	1132.62	47.09	24.41	PASS		
6356.00†	6338.04	-444.83	-144.81	6325.73	6325.44	-45.71	-1206.23	93.00	1134.05	47.95	23.99	PASS		
6412.80	6394.66	-449.10	-146.16	6380.24	6379.95	-45.48	-1206.84	93.22	1134.98	48.44	23.77	PASS		
6456.00†	6437.66	-452.35	-148.65	6421.31	6421.02	-45.20	-1207.34	93.42	1134.41	48.82	23.57	PASS		
6556.00†	6535.83	-459.87	-165.57	6515.44	6515.13	-44.31	-1208.70	39.39	1123.05	50.13	22.71	PASS		
6656.00†	6630.14	-467.23	-197.68	6611.52	6611.20	-43.59	-1210.29	35.16	1097.82	52.16	21.32	PASS		
6756.00†	6718.27	-474.24	-244.19	6705.06	6704.73	-43.12	-1211.57	35.50	1059.19	53.77	19.95	PASS		
6856.00†	6798.05	-480.73	-303.96	6777.40	6777.06	-42.86	-1212.80	38.22	1009.04	55.11	18.54	PASS		
6956.00†	6867.52	-486.55	-375.51	6845.66	6845.29	-42.64	-1214.43	43.42	949.39	56.28	17.07	PASS		
7056.00†	6924.96	-491.55	-457.09	6904.31	6903.92	-42.22	-1215.78	51.28	882.02	57.34	15.56	PASS		
7156.00†	6968.96	-495.60	-546.68	6949.51	6949.12	-41.73	-1216.76	61.59	809.57	58.38	14.03	PASS		
7256.00†	6998.45	-498.60	-642.08	6980.37	6979.97	-41.31	-1217.40	73.28	735.16	59.53	12.49	PASS		
7356.00†	7012.68	-500.49	-740.94	6996.23	6995.82	-41.06	-1217.72	84.21	662.33	60.95	10.98	PASS		
7401.17	7014.00	-500.97	-786.08	6998.39	6997.98	-41.03	-1217.76	88.34	630.99	61.72	10.33	PASS		

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: SENA 15-24 AWB Offset Wellpath: SENA 15-24 AWP

Facility: SEC.15-T06N-R66W				Slot: SLOT#27 EX. SENA 15-24 (1876°FNL & 1907°FNL, NB-CD/PR/7440°TD)		Well: SENA 15-24		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
7456.00†	7013.67	-501.39	-840.91	6999.12	6998.71	-41.02	-1217.78	88.43	595.15	62.79	9.57	PASS
7556.00†	7013.06	-502.18	-940.90	7000.45	7000.05	-40.99	-1217.80	88.60	538.08	65.28	8.32	PASS
7656.00†	7012.44	-502.96	-1040.90	7001.83	7001.42	-40.97	-1217.83	88.77	494.83	68.30	7.31	PASS
7756.00†	7011.83	-503.74	-1140.89	7003.24	7002.83	-40.95	-1217.86	88.94	469.24	71.39	6.63	PASS
7830.00†	7011.38	-504.32	-1214.89	7005.00	7004.59	-40.92	-1217.90	89.16	463.46	73.82	6.33	PASS
7856.00†	7011.22	-504.52	-1240.89	7004.68	7004.27	-40.93	-1217.89	89.12	464.22	73.89	6.33	PASS
7904.00†	7010.93	-504.90	-1288.88	7005.38	7004.97	-40.91	-1217.90	89.21	469.42	75.72	6.25	PASS
7956.00†	7010.61	-505.31	-1340.88	7006.15	7005.74	-40.90	-1217.92	89.30	480.43	75.38	6.42	PASS
8056.00†	7010.00	-506.09	-1440.88	7007.65	7007.24	-40.88	-1217.95	89.49	515.87	75.83	6.86	PASS
8156.00†	7009.39	-506.87	-1540.87	7009.19	7008.78	-40.85	-1217.98	89.68	566.95	75.54	7.57	PASS
8256.00†	7008.78	-507.65	-1640.87	7010.76	7010.35	-40.83	-1218.01	89.87	629.87	74.84	8.49	PASS
8356.00†	7008.17	-508.43	-1740.86	7012.36	7011.95	-40.80	-1218.05	90.07	701.45	73.97	9.56	PASS
8456.00†	7007.56	-509.22	-1840.86	7014.01	7013.59	-40.78	-1218.08	90.27	779.31	73.09	10.76	PASS
8556.00†	7006.95	-510.00	-1940.85	7015.69	7015.27	-40.75	-1218.12	90.48	861.75	72.26	12.03	PASS
8656.00†	7006.34	-510.78	-2040.85	7017.41	7016.99	-40.73	-1218.16	90.69	947.57	71.51	13.37	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: SENA 15-24 AWB Offset Wellpath: SENA 15-24 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: SENA 15-24 AWB Offset Wellpath: SENA 15-24 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7150.00	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100-7150>	SENA 15-24 AWP
7150.00	7440.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FOM COGCC <7440>	SENA 15-24 AWP



**Clearance Report**  
**HARVESTERS STATE 32N-16A-M (REV-B.0) PWP**  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

OFFSET WELLPATH REFERENCE - Offset Wellbore: SENA 15-24 AWB    Offset Wellpath: SENA 15-24 AWP	
MD Reference: Rig on SLOT#27 EX. SENA 15-24 (1876'FNL & 1907'FWL, NB-CD/PR/7440'TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. LEFFLER FARM 1-21 AWB Offset Wellpath: EX. LEFFLER FARM 1-21 AWP

Facility: SEC.21-T06N-R66W Slot: SLOT#05 EX. LEFFLER FARM 1-21 (860°FNL & 1980°FNL, PA, CODL) Well: EX. LEFFLER FARM 1-21 Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
1756.00	1752.35	-99.25	-35.49	1702.35	1752.35	-4390.71	-6344.86	35.86	7630.52	106.30	72.43	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. LEFFLER FARM 1-21 AWB Offset Wellpath: EX. LEFFLER FARM 1-21 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. LEFFLER FARM 1-21 AWB Offset Wellpath: EX. LEFFLER FARM 1-21 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7320.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7320>	EX. LEFFLER FARM 1-21 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. LEFFLER FARM 1-21 AWB Offset Wellpath: EX. LEFFLER FARM 1-21 AWP

MD Reference: Rig on SLOT#05 EX. LEFFLER FARM 1-21 (860°FNL & 1980°FNL, PA, CODL) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

CLEARANCE DATA - Offset Wellbore: EX. STATE HOPPE #16-1 AWB Offset Wellpath: EX. STATE HOPPE #16-1 AWP													
Facility: SEC.16-T06N-R66W Slot: SLOT#01 EX. STATE HOPPE #16-1 (561°FSL & 664°FWL, PR-NB/CD) Well: EX. STATE HOPPE #16-1 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	
1756.00	1752.35	-99.25	-35.49	1666.54	1707.52	-3047.57	-7660.87	48.93	8175.63	52.76	157.83	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: EX. STATE HOPPE #16-1 AWB    Offset Wellpath: EX. STATE HOPPE #16-1 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. STATE HOPPE #16-1 AWB Offset Wellpath: EX. STATE HOPPE #16-1 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7000.00	BHI Generic gyro - continuous (Standard)	VES GYRO SURVEYS PROVIDED BY SRC <100-7100>	EX. STATE HOPPE #16-1 AWB
7000.00	7282.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7282>	EX. STATE HOPPE #16-1 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. STATE HOPPE #16-1 AWB Offset Wellpath: EX. STATE HOPPE #16-1 AWP	
MD Reference: Rig on SLOT#1 EX. STATE HOPPE #16-1 (561°FSL & 664°FWL, PR-NB/CD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5N-16C-M AWB Offset Wellpath: HARVESTERS STATE 5N-16C-M AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#09 HARVESTERS STATE 5N-16C-M (1753°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 5N-16C-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
1756.00	1752.35	-99.25	-35.49	1734.00	1733.34	21.26	-38.49	158.31	122.04	19.39	6.57	PASS
1783.09	1779.36	-101.16	-36.14	1734.00	1733.34	21.26	-38.49	160.74	130.80	18.50	7.31	PASS
1856.00†	1852.04	-106.64	-37.87	1734.00	1733.34	21.26	-38.49	160.74	174.49	16.10	11.29	PASS
1956.00†	1951.73	-114.13	-40.25	1734.00	1733.34	21.26	-38.49	160.74	256.97	14.15	19.06	PASS
2056.00†	2051.42	-121.67	-42.62	1734.00	1733.34	21.26	-38.49	160.74	348.74	13.34	27.56	PASS
2156.00†	2151.11	-129.18	-45.00	1734.00	1733.34	21.26	-38.49	160.74	444.08	13.00	36.08	PASS
2256.00†	2250.80	-136.70	-47.38	1734.00	1733.34	21.26	-38.49	160.74	541.10	12.87	44.44	PASS
2356.00†	2350.49	-144.21	-49.75	1734.00	1733.34	21.26	-38.49	160.74	639.04	12.84	52.61	PASS
2456.00†	2450.18	-151.73	-52.13	1734.00	1733.34	21.26	-38.49	160.74	737.54	12.87	60.57	PASS
2556.00†	2549.87	-159.25	-54.51	1734.00	1733.34	21.26	-38.49	160.74	836.39	12.94	68.32	PASS
2656.00†	2649.53	-166.76	-56.88	1734.00	1733.34	21.26	-38.49	160.74	935.49	13.03	75.85	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 5N-16C-M AWB Offset Wellpath: HARVESTERS STATE 5N-16C-M 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: HARVESTERS STATE 5N-16C-M AWB Offset Wellpath: HARVESTERS STATE 5N-16C-M AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1734.00	BHI NaviTrak (Rotating+Axial Corr)	13 1/2" SURFACE SECTION <86°-1734°>	HARVESTERS STATE 5N-16C-M AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 5N-16C-M AWB Offset Wellpath: HARVESTERS STATE 5N-16C-M AWP

MD Reference: PROPETRO 12 (4") (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft





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HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: FRITZLER 1-17 AWB Offset Wellpath: FRITZLER 1-17 AWP

Facility: SEC.17-T06N-R66W Slot: SLOT#05 EX. FRITZLER 1-17 (60°FSL & 660°FEL, CODL/PR /7800°TD) Well: FRITZLER 1-17 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
1756.00	1752.35	-99.25	-35.49	1702.13	1739.09	-2900.51	-8963.32	52.66	9356.99	52.39	181.93	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: FRITZLER 1-17 AWB Offset Wellpath: FRITZLER 1-17 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: FRITZLER 1-17 AWB Offset Wellpath: FRITZLER 1-17 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7025.85	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100-7025.85>	FRITZLER 1-17 AWB
7025.85	7800.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7800>	FRITZLER 1-17 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: FRITZLER 1-17 AWB Offset Wellpath: FRITZLER 1-17 AWP

MD Reference: Rig on SLOT#05 EX. FRITZLER 1-17 (60°FSL & 660°FEL, CODL/PR /7800°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: FRITZLER 6-6-17 AWB Offset Wellpath: FRITZLER 6-6-17 AWP

Facility: SEC.17-T06N-R66W Slot: SLOT#10 EX. FRITZLER 6-6-17 (717°FSL & 657°FEL, NB-CD/PR/7408°TD) Well: FRITZLER 6-6-17 Threshold Value=1.00 † = Interpolated/extrapolated station											
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	ACR Status
1756.00	1752.35	-99.25	-35.49	1122.12	1152.46	-2815.22	-9009.56	53.04	9395.22	52.14	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: FRITZLER 6-6-17 AWB Offset Wellpath: FRITZLER 6-6-17 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: FRITZLER 6-6-17 AWB Offset Wellpath: FRITZLER 6-6-17 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7200.00	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100.73-7200>	FRITZLER 6-6-17 AWB
7200.00	7408.00	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL SURVEYS FROM COGCC PROVIDED BY SRC <89-7408>	FRITZLER 6-6-17 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: FRITZLER 6-6-17 AWB Offset Wellpath: FRITZLER 6-6-17 AWP

MD Reference: Rig on SLOT#10 EX. FRITZLER 6-6-17 (717°FSL & 657°FEL, NB-CD/PR/7408°TD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



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HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. FRITZLER #8-8-17 AWB Offset Wellpath: EX. FRITZLER #8-8-17 AWP

Facility: SEC.17-T06N-R66W Slot: SLOT#01 EX.FRITZLER #8-8-17 (658°FSL & 608°FEL, PR,NB/CD) Well: EX. FRITZLER #8-8-17 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
1756.00	1752.35	-99.25	-35.49	2494.28	2491.31	-3203.17	-8646.39	50.52	9183.02	53.40	175.11	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. FRITZLER #8-8-17 AWB Offset Wellpath: EX. FRITZLER #8-8-17 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. FRITZLER #8-8-17 AWB Offset Wellpath: EX. FRITZLER #8-8-17 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7200.09	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <101-7200.09>	EX. FRITZLER #8-8-17 AWB
7200.09	7380.00	ISCWSA MWD, Rev. 4 (Standard)	MS ENERGY SERVICES MWD SURVEY FROM COGCC <172-7380>	EX. FRITZLER #8-8-17 AWB
7380.00	7433.00	Blind Drilling (std)	Projection to bit	EX. FRITZLER #8-8-17 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. FRITZLER #8-8-17 AWB Offset Wellpath: EX. FRITZLER #8-8-17 AWP

MD Reference: Rig on SLOT#01 FRITZLER #8-8-17 (658°FSL & 608°FEL, PR,NB/CD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: ULRICH PC I 17-08 AWB Offset Wellpath: ULRICH PC I 17-08 AWP

Facility: SEC.17-T06N-R66W Slot: SLOT#03 EX. ULRICH PC I 17-08 (1938°FNL & 835°FEL, NB-CD/PR/7366°TD) Well: ULRICH PC I 17-08 Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
1756.00	1752.35	-99.25	-35.49	1657.22	1680.06	-257.87	-9148.35	69.04	9114.53	52.42	177.11	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: ULRICH PC I 17-08 AWB Offset Wellpath: ULRICH PC I 17-08 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: ULRICH PC I 17-08 AWB Offset Wellpath: ULRICH PC I 17-08 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7100.19	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100.96-7100.19>	ULRICH PC I 17-08 AWB
7100.19	7366.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7366>	ULRICH PC I 17-08 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: ULRICH PC I 17-08 AWB Offset Wellpath: ULRICH PC I 17-08 AWP

MD Reference: Rig on SLOT#03 EX. ULRICH PC I 17-08 (1938°FNL & 835°FEL, NB-CD/PR/7366°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. FRITZLER 11-21-4 AWB Offset Wellpath: EX. FRITZLER 11-21-4 AWP

Facility: SEC.21-T06N-R66W Slot: SLOT#06 EX. FRITZLER 11-21-4 (645°FNL & 664°FNL, PR, NB/CD) Well: EX. FRITZLER 11-21-4 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
1756.00	1752.35	-99.25	-35.49	3322.83	3321.59	-3813.02	-7274.82	43.47	8286.28	54.55	154.63	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. FRITZLER 11-21-4 AWB Offset Wellpath: EX. FRITZLER 11-21-4 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. FRITZLER 11-21-4 AWB Offset Wellpath: EX. FRITZLER 11-21-4 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7100.97	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100.01-7100.97>	EX. FRITZLER 11-21-4 AWB
7100.97	7412.00	ISCWSA MWD, Rev. 4 (Standard)	MS ENERGY SERVICES DIRECTIONAL SURVEY FROM COGCC <172-7412>	EX. FRITZLER 11-21-4 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. FRITZLER 11-21-4 AWB Offset Wellpath: EX. FRITZLER 11-21-4 AWP

MD Reference: Rig on SLOT#06 EX. FRITZLER 11-21-4 (645°FNL & 664°FNL, PR, NB/CD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: ULRICH PC I 17-17D AWP Offset Wellpath: ULRICH PC I 17-17D AWP

Facility: SEC.17-T06N-R66W Slot: SLOT#04 EX. ULRICH PC I 17-17D (1963°FNL & 836°FEL, NB-CD/PR/7580°TD) Well: ULRICH PC I 17-17D 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
1756.00	1752.35	-99.25	-35.49	996.77	1019.42	-260.54	-9158.47	68.75	9153.79	52.09	179.02	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: ULRICH PC I 17-17D AWP Offset Wellpath: ULRICH PC I 17-17D 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: ULRICH PC I 17-17D AWP Offset Wellpath: ULRICH PC I 17-17D AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7300.51	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <102.49-7300.51>	ULRICH PC I 17-17D AWP
7300.51	7580.00	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL SURVEYS FROM COGCC PROVIDED BY SRC <7580>	ULRICH PC I 17-17D AWP

## OFFSET WELLPATH REFERENCE - Offset Wellbore: ULRICH PC I 17-17D AWP Offset Wellpath: ULRICH PC I 17-17D AWP

MD Reference: Rig on SLOT#04 EX. ULRICH PC I 17-17D (1963°FNL & 836°FEL, NB-CD/PR/7580°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

CLEARANCE DATA - Offset Wellbore: EX. FRTIZLER #6-8-17 AWB Offset Wellpath: EX. FRTIZLER #6-8-17 AWP												
Facility: SEC.17-T06N-R66W Slot: SLOT#02 EX. FRTIZLER #6-8-17 (660°FSL & 668°FEL, PR NB/CD) Well: EX. FRTIZLER #6-8-17 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
1756.00	1752.35	-99.25	-35.49	1336.28	1365.30	-2982.76	-9053.93	52.23	9476.11	52.57	183.61	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: EX. FRTIZLER #6-8-17 AWB    Offset Wellpath: EX. FRTIZLER #6-8-17 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. FRTIZLER #6-8-17 AWB Offset Wellpath: EX. FRTIZLER #6-8-17 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7151.37	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100-7151.37>	EX. FRTIZLER #6-8-17 AWB
7151.37	7356.00	ISWWSA MWD, Rev. 4 (Standard)	MS ENERGY SERVICES MWD SURVEY FROM COGCC <82-7356>	EX. FRTIZLER #6-8-17 AWB
7356.00	7418.00	Blind Drilling (std)	Projection to bit	EX. FRTIZLER #6-8-17 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. FRTIZLER #6-8-17 AWB Offset Wellpath: EX. FRTIZLER #6-8-17 AWP	
MD Reference: Rig on SLOT#02 EX. FRTIZLER #6-8-17 (660°FSL & 668°FEL, PR NB/CD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. FRTIZLER 11-21 AWB Offset Wellpath: EX. FRTIZLER 11-21 AWP

Facility: SEC.21-T06N-R66W Slot: SLOT#02 EX. FRTIZLER 11-21 (736'FNL & 695'FWL, PR, NB/CD) Well: EX. FRTIZLER 11-21 Threshold Value=1.00 † = Interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
1756.00	1752.35	-99.25	-35.49	1530.17	1582.10	-4218.40	-7667.20	41.68	8674.07	52.34	168.83	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. FRTIZLER 11-21 AWB Offset Wellpath: EX. FRTIZLER 11-21 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. FRTIZLER 11-21 AWB Offset Wellpath: EX. FRTIZLER 11-21 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7100.00	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC (100-7100>	EX. FRTIZLER 11-21 AWB
7100.00	7340.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7340>	EX. FRTIZLER 11-21 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. FRTIZLER 11-21 AWB Offset Wellpath: EX. FRTIZLER 11-21 AWP

MD Reference: Rig on SLOT#02 EX. FRTIZLER 11-21 (736'FNL & 695'FWL, PR, NB/CD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. HARVESTERS RESOURCES #15R-243 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15R-243 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#05 EX. HARVESTERS RESOURCES #15R-243 (323'FNL & 2023'FEL, HORIZ/PR) Well: EX. HARVESTERS RESOURCES #15R-243 Threshold Value=1.00 † = interpolated/											
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	†
1756.00	1752.35	-99.25	-35.49	1678.77	1663.23	1493.22	321.83	172.62	1634.50	53.41	
1783.09	1779.36	-101.16	-36.14	1701.92	1686.31	1494.21	323.30	175.11	1638.00	53.22	
1856.00†	1852.04	-106.64	-37.87	1759.52	1743.70	1496.83	327.52	175.25	1648.13	53.31	
1956.00†	1951.73	-114.15	-40.25	1833.84	1817.63	1500.93	333.89	175.45	1663.26	53.42	
2056.00†	2051.42	-121.67	-42.62	1907.24	1890.55	1506.01	340.53	175.65	1679.88	53.54	
2156.00†	2151.11	-129.18	-45.00	1995.70	1978.35	1513.07	348.76	175.89	1697.61	53.74	
2256.00†	2250.80	-136.70	-47.38	2086.76	2068.71	1520.81	356.95	176.12	1715.80	53.97	
2356.00†	2350.49	-144.21	-49.75	2183.16	2164.40	1529.53	364.64	176.32	1734.29	54.24	
2456.00†	2450.18	-151.73	-52.13	2284.61	2265.03	1538.30	374.06	176.57	1752.74	54.57	
2556.00†	2549.87	-159.25	-54.51	2409.41	2388.87	1547.76	386.20	176.90	1770.31	55.03	
2656.00†	2649.55	-166.76	-56.88	2502.19	2481.03	1554.40	394.62	177.12	1787.36	55.35	
2756.00†	2749.24	-174.28	-59.26	2589.13	2567.36	1561.04	402.57	177.33	1804.91	55.65	
2856.00†	2848.93	-181.79	-61.63	2670.41	2647.97	1567.80	410.36	177.52	1823.25	55.94	
2956.00†	2948.62	-189.31	-64.01	2779.39	2756.00	1576.99	421.45	177.80	1841.90	56.41	
3056.00†	3048.31	-196.82	-66.39	2910.19	2885.68	1585.58	436.11	178.18	1859.00	57.00	
3156.00†	3148.00	-204.34	-68.76	3016.19	2990.93	1591.94	446.97	178.46	1875.43	57.48	
3256.00†	3247.69	-211.85	-71.14	3110.17	3084.40	1597.77	454.96	178.65	1891.61	57.92	
3356.00†	3347.38	-219.37	-73.52	3193.85	3167.51	1603.28	462.93	178.84	1908.45	58.31	
3456.00†	3447.07	-226.88	-75.89	3302.04	3274.91	1610.89	473.51	179.09	1925.85	58.85	
3556.00†	3546.75	-234.40	-78.27	3409.27	3381.56	1617.68	482.37	179.29	1942.11	59.40	
3656.00†	3646.44	-241.91	-80.65	3502.96	3474.71	1623.68	490.43	179.47	1958.59	59.89	
3756.00†	3746.13	-249.43	-83.02	3593.64	3564.83	1629.64	498.56	179.65	1975.35	60.38	
3856.00†	3845.82	-256.94	-85.40	3690.11	3660.68	1636.36	507.13	179.83	1992.48	60.92	
3956.00†	3945.51	-264.46	-87.77	3791.71	3761.57	1643.00	517.16	-179.95	2009.53	61.50	
4056.00†	4045.20	-271.98	-90.15	3868.85	3838.09	1648.05	525.36	-179.77	2026.88	61.95	
4156.00†	4144.89	-279.49	-92.53	3944.83	3913.30	1653.74	534.63	-179.57	2045.56	62.40	
4256.00†	4244.58	-287.01	-94.90	4031.71	3999.19	1660.66	545.66	-179.33	2064.93	62.94	
4356.00†	4344.27	-294.52	-97.28	4120.39	4086.87	1668.51	556.35	-179.12	2084.94	63.49	
4456.00†	4443.95	-302.04	-99.66	4251.18	4216.47	1680.20	569.56	-178.88	2104.49	64.33	
4556.00†	4543.64	-309.55	-102.03	4361.34	4325.92	1689.29	578.03	-178.74	2122.56	65.04	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. HARVESTERS RESOURCES #15R-243 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15R-243 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#05 EX. HARVESTERS RESOURCES #15R-243 (323'FNL & 2023'FEL, HORIZ/PR) Well: EX. HARVESTERS RESOURCES #15R-243 Threshold Value=1.00 † = Interpolated/											
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	†
4656.00†	4643.33	-317.07	-104.41	4460.80	4424.79	1697.74	584.87	-178.65	2140.63	65.69	
4756.00†	4743.02	-324.58	-106.79	4550.45	4513.89	1705.38	591.16	-178.56	2158.79	66.29	
4856.00†	4842.71	-332.10	-109.16	4654.95	4617.71	1714.43	598.85	-178.45	2177.20	66.99	
4956.00†	4942.40	-339.61	-111.54	4765.59	4727.70	1723.49	606.63	-178.34	2195.06	67.74	
5056.00†	5042.09	-347.13	-113.92	4893.21	4854.69	1732.85	615.14	-178.21	2212.01	68.61	
5156.00†	5141.78	-354.64	-116.29	9001.29	7116.80	-432.23	662.88	-112.42	2124.58	55.95	
5256.00†	5241.47	-362.16	-118.67	9006.26	7116.67	-437.20	662.71	-112.08	2032.87	57.16	
5356.00†	5341.15	-369.68	-121.04	9011.24	7116.54	-442.18	662.55	-111.73	1941.97	58.49	
5456.00†	5440.84	-377.19	-123.42	9016.22	7116.41	-447.15	662.38	-111.39	1852.00	59.97	
5556.00†	5540.53	-384.71	-125.80	9023.99	7116.20	-454.91	662.12	-110.86	1763.09	61.64	
5656.00†	5640.22	-392.22	-128.17	9034.53	7115.90	-465.44	661.74	-110.13	1675.40	63.52	
5756.00†	5739.91	-399.74	-130.55	9044.15	7115.61	-475.05	661.37	-109.46	1589.14	65.61	
5856.00†	5839.60	-407.25	-132.93	9051.67	7115.36	-482.55	661.06	-108.94	1504.55	67.91	
5956.00†	5939.29	-414.77	-135.30	9054.58	7115.27	-485.47	660.94	-108.74	1421.95	70.42	
6056.00†	6038.98	-422.28	-137.68	9057.54	7115.17	-488.42	660.83	-108.54	1341.71	73.23	
6156.00†	6138.67	-429.80	-140.06	9060.53	7115.07	-491.41	660.71	-108.33	1264.28	76.36	
6256.00†	6238.35	-437.31	-142.43	9063.57	7114.98	-494.44	660.60	-108.12	1190.21	79.82	
6356.00†	6338.04	-444.83	-144.81	9066.65	7114.88	-497.52	660.49	-107.90	1120.16	83.61	
6412.80	6394.66	-449.10	-146.16	9068.42	7114.83	-499.29	660.43	-107.78	1082.46	85.90	
6456.00†	6437.66	-452.35	-148.63	9069.81	7114.78	-500.68	660.38	-140.51	1056.10	87.75	
6556.00†	6535.83	-459.87	-165.57	9073.35	7114.67	-504.21	660.26	-162.58	1009.46	92.73	
6656.00†	6630.14	-467.23	-197.68	9077.19	7114.56	-508.05	660.14	-168.56	985.99	98.47	
6704.00†	6673.35	-470.65	-218.27	9079.10	7114.50	-509.96	660.09	-170.01	983.70	101.53	
6756.00†	6718.27	-474.24	-244.19	9081.19	7114.43	-512.04	660.03	-171.08	987.92	103.68	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report  
HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

POSITIONAL UNCERTAINTY - Offset Wellbore: EX. HARVESTERS RESOURCES #15R-243 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15R-243 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. HARVESTERS RESOURCES #15R-243 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15R-243 AWP				
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	11565.00	ISCWSA MWD, Rev. 4 (Standard)	MWD SURVEYS PROVIDED BY SRC FROM COGCC <146°-11565°>	EX. HARVESTERS RESOURCES #15R-243 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. HARVESTERS RESOURCES #15R-243 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15R-243 AWP	
MD Reference: Rig on SLOT#05 EX. HARVESTERS RESOURCES #15R-243 (323°FNL & 2023°FEL, HORIZ/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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 5C-16-M AWB Offset Wellpath: HARVESTERS STATE 5C-16-M AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#08 HARVESTERS STATE 5C-16-M (1733°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 5C-16-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	
1756.00	1752.35	-99.25	-35.49	1750.19	1749.55	81.26	-31.41	161.25	180.58	19.66	9.61	PASS	
1783.09	1779.36	-101.16	-36.14	1777.20	1776.55	81.69	-32.03	163.67	182.92	19.63	9.63	PASS	
1856.00†	1852.04	-106.64	-37.87	1820.00	1819.33	82.37	-33.02	163.66	191.88	19.66	10.09	PASS	
1956.00†	1951.73	-114.15	-40.25	1820.00	1819.33	82.37	-33.02	163.66	237.07	17.70	13.91	PASS	
2056.00†	2051.42	-121.67	-42.62	1820.00	1819.33	82.37	-33.02	163.66	309.17	15.87	20.35	PASS	
2156.00†	2151.11	-129.18	-45.00	1820.00	1819.33	82.37	-33.02	163.66	393.67	14.76	27.96	PASS	
2256.00†	2250.80	-136.70	-47.38	1820.00	1819.33	82.37	-33.02	163.66	484.11	14.16	35.95	PASS	
2356.00†	2350.49	-144.21	-49.75	1820.00	1819.33	82.37	-33.02	163.66	577.71	13.83	43.98	PASS	
2456.00†	2450.18	-151.73	-52.13	1820.00	1819.33	82.37	-33.02	163.66	673.15	13.66	51.91	PASS	
2556.00†	2549.87	-159.25	-54.51	1820.00	1819.33	82.37	-33.02	163.66	769.75	13.59	59.68	PASS	
2656.00†	2649.53	-166.76	-56.88	1820.00	1819.33	82.37	-33.02	163.66	867.12	13.59	67.27	PASS	
2756.00†	2749.24	-174.28	-59.26	1820.00	1819.33	82.37	-33.02	163.66	965.03	13.63	74.65	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 5C-16-M AWB Offset Wellpath: HARVESTERS STATE 5C-16-M 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: HARVESTERS STATE 5C-16-M AWB Offset Wellpath: HARVESTERS STATE 5C-16-M AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1756.00	BHI NaviTrak (Rotating+Axial Corr)	13 1/2" SURFACE SURVEYS <86'-1756">	HARVESTERS STATE 5C-16-M AWB
1756.00	1820.00	Blind Drilling (std)	Projection to bit	HARVESTERS STATE 5C-16-M AWB



REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 5C-16-M AWB    Offset Wellpath: HARVESTERS STATE 5C-16-M AWP	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. BURMAN #16-43 AWB Offset Wellpath: EX. BURMAN #16-43 AWP

Facility: SEC.16-T06N-R66W Slot: SLOT#02 EX. BURMAN #16-43 (466°FSL & 1793°FEL, PR, NB/CD) Well: EX. BURMAN #16-43 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
1756.00	1752.35	-99.25	-35.49	1679.02	1713.00	-3042.61	-4805.35	38.39	5605.04	52.40	108.96	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. BURMAN #16-43 AWB Offset Wellpath: EX. BURMAN #16-43 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. BURMAN #16-43 AWB Offset Wellpath: EX. BURMAN #16-43 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6800.00	BHI Generic gyro - continuous (Standard)	CORETCH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100-6800>	EX. BURMAN #16-43 AWB
6800.00	7396.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7396>	EX. BURMAN #16-43 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. BURMAN #16-43 AWB Offset Wellpath: EX. BURMAN #16-43 AWP

MD Reference: Rig on SLOT#02 EX. BURMAN #16-43 (466°FSL & 1793°FEL, PR, NB/CD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. HOOD 41-20AWB Offset Wellpath: EX. HOOD 41-20AWP

Facility: SEC.20-T06N-R66W Slot: SLOT#03 EX. HOOD 41-20 (661'FNL & 661'FEL, PR, NB/CD) Well: EX. HOOD 41-20 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
1756.00	1752.35	-99.25	-35.49	1477.83	1522.62	-4237.99	-9013.68	45.28	9888.88	52.42	192.15	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. HOOD 41-20AWB Offset Wellpath: EX. HOOD 41-20AWP

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. HOOD 41-20AWB Offset Wellpath: EX. HOOD 41-20AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7101.04	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100-7101.4>	EX. HOOD 41-20AWB
7101.04	7351.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7351>	EX. HOOD 41-20AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. HOOD 41-20AWB Offset Wellpath: EX. HOOD 41-20AWP

MD Reference: Rig on SLOT#03 EX. HOOD 41-20 (661'FNL & 661'FEL, PR, NB/CD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



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HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. FRITZLER #34-17 AWB Offset Wellpath: EX. FRITZLER #34-17 AWP

Facility: SEC.17-T06N-R66W Slot: SLOT#03 EX. FRITZLER #34-17 (660°FSL & 683°FEL, PR, NB/CD) Well: EX. FRITZLER #34-17 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
1756.00	1752.35	-99.29	-35.49	830.86	862.78	-2915.11	-9055.70	52.45	9491.29	52.10	185.60	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. FRITZLER #34-17 AWB Offset Wellpath: EX. FRITZLER #34-17 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. FRITZLER #34-17 AWB Offset Wellpath: EX. FRITZLER #34-17 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7249.41	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <106.38-7249.41>	EX. FRITZLER #34-17 AWB
7249.41	7414.00	ISCWSA MWD, Rev. 4 (Standard)	MS ENERGY SERVICES MWD SURVEY FROM COGCC <168°-7414°>	EX. FRITZLER #34-17 AWB
7414.00	7477.00	Blind Drilling (std)	Projection to bit	EX. FRITZLER #34-17 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. FRITZLER #34-17 AWB Offset Wellpath: EX. FRITZLER #34-17 AWP

MD Reference: Rig on SLOT#03 EX. FRITZLER #34-17 (660°FSL & 683°FEL, PR, NB/CD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. MAURICE LEFFLER 1 AWB Offset Wellpath: EX. MAURICE LEFFLER 1 AWP

Facility: SEC.21-T06N-R66W Slot: SLOT#01 EX. MAURICE LEFFLER 1 (660'FNL & 1980'FWL, PA, UNK) Well: EX. MAURICE LEFFLER 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
1756.00	1752.35	-99.25	-35.49	1702.35	1752.35	-4191.79	-6351.49	37.15	7526.00	106.30	71.44	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. MAURICE LEFFLER 1 AWB Offset Wellpath: EX. MAURICE LEFFLER 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. MAURICE LEFFLER 1 AWB Offset Wellpath: EX. MAURICE LEFFLER 1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	4452.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <4452>	EX. MAURICE LEFFLER 1 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. MAURICE LEFFLER 1 AWB Offset Wellpath: EX. MAURICE LEFFLER 1 AWP

MD Reference: Rig on SLOT#01 EX. MAURICE LEFFLER 1 (660'FNL & 1980'FWL, PA, UNK) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: BURBACH 15-22 AWB Offset Wellpath: BURBACH 15-22 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#01 EX. BURBACH 15-22 (839'FNL & 844'FWL, CODL/SI/7399'TD) Well: BURBACH 15-22 Threshold Value=1.00 † = interpolated/extrapolated station											
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	ACR Status
1756.00	1752.35	-99.25	-35.49	1704.83	1709.58	982.73	-2179.52	96.71	2401.95	52.62	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: BURBACH 15-22 AWB Offset Wellpath: BURBACH 15-22 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: BURBACH 15-22 AWB Offset Wellpath: BURBACH 15-22 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7100.00	BHI Generic gyro - continuous (Standard)	VES GYRO SURVEYS PROVIDED BY SRC <100'-7100'->	BURBACH 15-22 AWB
7100.00	7399.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7399>	BURBACH 15-22 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: BURBACH 15-22 AWB Offset Wellpath: BURBACH 15-22 AWP

MD Reference: Rig on SLOT#01 EX. BURBACH 15-22 (839'FNL & 844'FWL, CODL/SI/7399'TD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: SENA 15-25 AWB Offset Wellpath: SENA 15-25 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#25 EX. SENA 15-25 (1197°FNL & 1538°FNL, NB-CD/PR/7425°TD) Well: SENA 15-25 Threshold Value=1.00 † = Interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
1756.00	1752.35	-99.25	-35.49	1770.97	1766.67	592.37	-1504.30	95.26	1623.56	16.25	106.14	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: SENA 15-25 AWB Offset Wellpath: SENA 15-25 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: SENA 15-25 AWB Offset Wellpath: SENA 15-25 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7150.00	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100-7150>	SENA 15-25 AWB
7150.00	7425.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7425>	SENA 15-25 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: SENA 15-25 AWB Offset Wellpath: SENA 15-25 AWP

MD Reference: Rig on SLOT#25 EX. SENA 15-25 (1197°FNL & 1538°FNL, NB-CD/PR/7425°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS 32-15 AWB Offset Wellpath: HARVESTERS 32-15 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#10 EX. HARVESTERS 32-15 (1790°FNL & 1810°FEL, CODL/SI/7440°TD) Well: HARVESTERS 32-15 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	
1756.00	1752.35	-99.25	-35.48	1749.39	1754.19	-31.25	525.44	-116.85	565.05	52.47	10.95	PASS	
1783.09	1779.36	-101.16	-36.14	1775.89	1780.49	-31.04	525.35	-114.61	565.85	52.26	10.96	PASS	
1856.00†	1852.04	-106.64	-37.87	1847.59	1852.39	-30.46	525.20	-115.19	568.20	52.30	11.00	PASS	
1956.00†	1951.73	-114.13	-40.25	1948.67	1953.47	-29.49	524.96	-116.01	571.51	52.37	11.05	PASS	
2056.00†	2051.42	-121.67	-42.62	2050.93	2055.72	-28.90	524.29	-116.80	574.47	52.44	11.09	PASS	
2156.00†	2151.11	-129.18	-45.00	2150.73	2155.52	-28.87	523.44	-117.51	577.24	52.52	11.13	PASS	
2256.00†	2250.80	-136.70	-47.38	2250.02	2254.81	-28.85	522.76	-118.21	580.26	52.62	11.16	PASS	
2356.00†	2350.49	-144.21	-49.75	2351.01	2355.79	-29.20	522.02	-118.88	583.25	52.73	11.20	PASS	
2456.00†	2450.18	-151.73	-52.13	2450.91	2455.69	-29.71	521.12	-119.53	586.12	52.85	11.23	PASS	
2556.00†	2549.87	-159.25	-54.51	2549.98	2554.76	-30.57	520.44	-120.12	589.18	53.00	11.25	PASS	
2656.00†	2649.55	-166.76	-56.88	2648.10	2652.87	-31.58	519.90	-120.68	592.42	53.13	11.28	PASS	
2756.00†	2749.24	-174.28	-59.26	2747.37	2752.13	-32.58	519.73	-121.24	596.09	53.32	11.32	PASS	
2856.00†	2848.93	-181.79	-61.63	2848.57	2853.33	-33.73	519.33	-121.79	599.55	53.50	11.34	PASS	
2956.00†	2948.62	-189.31	-64.01	2948.11	2952.86	-34.47	518.77	-122.37	603.02	53.70	11.37	PASS	
3056.00†	3048.31	-196.82	-66.39	3047.98	3052.73	-35.00	518.20	-122.97	606.59	53.91	11.39	PASS	
3156.00†	3148.00	-204.34	-68.76	3148.43	3153.18	-35.18	517.43	-123.59	610.13	54.13	11.41	PASS	
3256.00†	3247.69	-211.85	-71.14	3248.40	3253.14	-35.37	516.56	-124.21	613.65	54.37	11.42	PASS	
3356.00†	3347.38	-219.37	-73.52	3345.96	3350.70	-35.55	515.80	-124.81	617.33	54.62	11.44	PASS	
3456.00†	3447.07	-226.88	-75.89	3443.75	3448.48	-35.81	515.60	-125.37	621.59	54.89	11.46	PASS	
3556.00†	3546.75	-234.40	-78.27	3544.55	3549.29	-36.18	515.39	-125.94	625.88	55.19	11.47	PASS	
3656.00†	3646.44	-241.91	-80.65	3645.38	3650.11	-36.65	515.02	-126.50	630.05	55.51	11.48	PASS	
3756.00†	3746.13	-249.43	-83.02	3746.23	3750.96	-37.22	514.50	-127.04	634.11	55.85	11.49	PASS	
3856.00†	3845.82	-256.94	-85.40	3847.10	3851.82	-37.89	513.83	-127.58	638.04	56.19	11.49	PASS	
3956.00†	3945.51	-264.46	-87.77	3947.98	3952.70	-38.67	513.01	-128.10	641.86	56.55	11.48	PASS	
4056.00†	4045.20	-271.98	-90.15	4048.89	4053.60	-39.55	512.04	-128.61	645.54	56.92	11.47	PASS	
4156.00†	4144.89	-279.49	-92.53	4149.81	4154.51	-40.53	510.92	-129.12	649.11	57.29	11.46	PASS	
4256.00†	4244.58	-287.01	-94.90	4249.31	4254.00	-41.58	509.71	-129.60	652.60	57.68	11.44	PASS	
4356.00†	4344.27	-294.52	-97.28	4346.67	4351.35	-42.57	508.76	-130.07	656.36	58.08	11.43	PASS	
4456.00†	4443.95	-302.04	-99.66	4444.55	4449.22	-43.35	508.15	-130.54	660.58	58.46	11.43	PASS	
4556.00†	4543.64	-309.55	-102.03	4544.37	4549.04	-43.63	507.41	-131.06	664.96	58.86	11.42	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS 32-15 AWB Offset Wellpath: HARVESTERS 32-15 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#10 EX. HARVESTERS 32-15 (1790°FNL & 1810°FEL, CODL/SI/7440°TD) Well: HARVESTERS 32-15 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	
4656.00†	4643.33	-317.07	-104.41	4643.46	4648.13	-43.83	506.62	-131.58	669.36	59.27	11.42	PASS	
4756.00†	4743.02	-324.58	-106.79	4741.59	4746.25	-43.98	506.07	-132.07	674.05	59.69	11.42	PASS	
4856.00†	4842.71	-332.10	-109.16	4839.84	4844.50	-44.27	505.77	-132.55	678.96	60.11	11.42	PASS	
4956.00†	4942.40	-339.61	-111.54	4938.63	4943.30	-44.19	505.59	-133.04	684.20	60.52	11.43	PASS	
5056.00†	5042.09	-347.13	-113.92	5039.52	5044.19	-43.92	505.20	-133.56	689.38	60.95	11.43	PASS	
5156.00†	5141.78	-354.64	-116.29	5139.40	5144.06	-43.75	504.74	-134.06	694.51	61.39	11.43	PASS	
5256.00†	5241.47	-362.16	-118.67	5240.31	5244.97	-43.52	504.24	-134.57	699.68	61.84	11.43	PASS	
5356.00†	5341.15	-369.68	-121.04	5342.91	5347.57	-43.38	503.31	-135.08	704.50	62.31	11.42	PASS	
5456.00†	5440.84	-377.19	-123.42	5442.63	5447.28	-43.47	502.25	-135.56	709.14	62.79	11.41	PASS	
5556.00†	5540.53	-384.71	-125.80	5540.43	5545.08	-43.50	501.43	-136.02	714.04	63.28	11.40	PASS	
5656.00†	5640.22	-392.22	-128.17	5639.98	5644.62	-43.61	500.84	-136.47	719.17	63.78	11.39	PASS	
5756.00†	5739.91	-399.74	-130.55	5740.87	5745.51	-44.09	500.28	-136.90	724.20	64.29	11.38	PASS	
5856.00†	5839.60	-407.25	-132.93	5839.21	5843.85	-44.60	499.73	-137.30	729.23	64.81	11.37	PASS	
5956.00†	5939.29	-414.77	-135.30	5937.30	5941.94	-44.73	499.37	-137.71	734.68	65.33	11.36	PASS	
6056.00†	6038.98	-422.28	-137.68	6039.19	6043.82	-44.73	498.77	-138.16	740.03	65.86	11.35	PASS	
6156.00†	6138.67	-429.80	-140.06	6139.68	6144.31	-44.94	498.00	-138.58	745.16	66.41	11.33	PASS	
6256.00†	6238.35	-437.31	-142.43	6237.42	6242.05	-45.12	497.38	-138.98	750.45	66.95	11.32	PASS	
6356.00†	6338.04	-444.83	-144.81	6334.61	6339.24	-45.17	497.05	-139.37	756.12	66.95	11.40	PASS	
6412.80	6394.66	-449.10	-146.16	6390.22	6394.84	-45.17	496.99	-139.59	759.47	67.39	11.38	PASS	
6456.00†	6437.66	-452.35	-148.65	6433.03	6437.66	-45.17	496.99	-172.69	763.31	68.18	11.30	PASS	
6556.00†	6535.83	-459.87	-165.57	6531.20	6535.83	-45.17	496.99	164.34	781.64	69.45	11.36	PASS	
6656.00†	6630.14	-467.23	-197.68	6625.51	6630.14	-45.17	496.99	157.34	812.83	71.73	11.43	PASS	
6756.00†	6718.27	-474.24	-244.19	6713.64	6718.27	-45.17	496.99	153.47	856.42	74.08	11.66	PASS	
6856.00†	6798.05	-480.73	-303.96	6793.42	6798.05	-45.17	496.99	150.25	911.72	76.66	12.00	PASS	
6956.00†	6867.52	-486.55	-375.51	6862.89	6867.52	-45.17	496.99	146.59	977.79	79.16	12.45	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS 32-15 AWB Offset Wellpath: HARVESTERS 32-15 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: HARVESTERS 32-15 AWB Offset Wellpath: HARVESTERS 32-15 AWP				
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6300.00	BHI Generic gyro - continuous (Standard)	MS ENERGY GYRO SURVEYS PROVIDED BY SRC <100-6300>	HARVESTERS 32-15 AWB
6300.00	7440.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7440>	HARVESTERS 32-15 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS 32-15 AWB Offset Wellpath: HARVESTERS 32-15 AWP	
MD Reference: Rig on SLOT#10 EX. HARVESTERS 32-15 (1790'FNL & 1810'FEL, CODL/SI/7440'TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

CLEARANCE DATA - Offset Wellbore: FRITZLER 17-32-12 AWB Offset Wellpath: FRITZLER 17-32-12 AWP													
Facility: SEC.17-T06N-R66W Slot: SLOT#07 EX. FRITZLER 17-32-12 (718°FSL & 642°FEL,B-CD/PR/7755°TD) Well: FRITZLER 17-32-12 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	
1756.00	1752.35	-99.25	-35.49	1591.24	1589.11	-2592.27	-9018.19	54.52	9323.66	52.77	179.95	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: FRITZLER 17-32-12 AWB    Offset Wellpath: FRITZLER 17-32-12 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: FRITZLER 17-32-12 AWB    Offset Wellpath: FRITZLER 17-32-12 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7500.59	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100.13-7500.59>	FRITZLER 17-32-12 AWB
7500.59	7755.00	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL SURVEYS FROM COGCC PROVIDED BY SRC <120-7755>	FRITZLER 17-32-12 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: FRITZLER 17-32-12 AWB Offset Wellpath: FRITZLER 17-32-12 AWP	
MD Reference: Rig on SLOT#07 EX. FRITZLER 17-32-12 (718°FSL & 642°FEL,B-CD/PR/7755°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. HOOD #6-2-20 AWB Offset Wellpath: EX. HOOD #6-2-20 AWP

Facility: SEC.17-T06N-R66W Slot: SLOT#04 EX. HOOD #6-2-20 (659°FSL & 653°FEL, PR, NB/CD) Well: EX. HOOD #6-2-20 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
1756.00	1752.35	-99.25	-35.49	954.58	982.43	-2946.94	-8917.16	52.05	9358.75	52.52	181.52	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. HOOD #6-2-20 AWB Offset Wellpath: EX. HOOD #6-2-20 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. HOOD #6-2-20 AWB Offset Wellpath: EX. HOOD #6-2-20 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7500.00	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100-7500>	EX. HOOD #6-2-20 AWB
7500.00	7601.00	ISCWSA MWD, Rev. 4 (Standard)	MS ENERGY SERVICES MWD SURVEY FROM COGCC <82'-7601'>	EX. HOOD #6-2-20 AWB
7601.00	7662.00	Blind Drilling (std)	Projection to bit	EX. HOOD #6-2-20 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. HOOD #6-2-20 AWB Offset Wellpath: EX. HOOD #6-2-20 AWP

MD Reference: Rig on SLOT#04 EX. HOOD #6-2-20 (659°FSL & 653°FEL, PR, NB/CD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. HARVESTERS RESOURCES #15R-403 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15R-403 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#02 EX. HARVESTERS RESOURCES #15R-403 (330'FNL & 638'FEL, HORIZ/PR) Well: EX. HARVESTERS RESOURCES #15R-403 Threshold Value=1.00 † = Interpolated/e										
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	St Ra
1756.00	1752.35	-99.25	-35.49	1979.26	1951.03	1537.53	1486.49	-157.15	2243.87	54.44

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. HARVESTERS RESOURCES #15R-403 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15R-403 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. HARVESTERS RESOURCES #15R-403 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15R-403 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	11711.00	ISWWSA MWD, Rev. 4 (Standard)	MWD SURVEYS PROVIDED BY SRC FROM ENSIGN DIRECTIONAL <146°-11711°>	EX. HARVESTERS RESOURCES #15R-403 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. HARVESTERS RESOURCES #15R-403 AWB Offset Wellpath: EX. HARVESTERS RESOURCES #15R-403 AWP

MD Reference: Rig on SLOT#02 EX. HARVESTERS RESOURCES #15R-403 (330'FNL & 638'FEL, HORIZ/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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: LEFFLER 1 #21-2 AWB Offset Wellpath: LEFFLER 1 #21-2 AWP

Facility: SEC.21-T06N-R66W Slot: SLOT#04 EX:LEFFLER 1 #21-2 (660°FNL & 1880°FEL SEC.21,PR,7340°MD) Well: LEFFLER 1 #21-2 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		
1756.00	1752.35	-99.25	-35.49	1718.80	1766.69	-4145.65	-4919.82	30.45	6342.73	52.12	123.46	PASS		

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: LEFFLER 1 #21-2 AWB Offset Wellpath: LEFFLER 1 #21-2 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: LEFFLER 1 #21-2 AWB Offset Wellpath: LEFFLER 1 #21-2 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	0.00	452.00	452.00	44.00	495.94	-2537.45	-2997.38	-2535.46	-2998.10
8.625in Casing Surface	0.00	452.00	452.00	44.00	495.94	-2537.45	-2997.38	-2535.46	-2998.10
7.875in Open Hole	452.00	7316.00	6864.00	495.94	7358.29	-2535.46	-2998.10	-2539.32	-3029.98
4.5in Casing Production	0.00	7316.00	7316.00	44.00	7358.29	-2537.45	-2997.38	-2539.32	-3029.98

## WELLPATH COMPOSITION - Offset Wellbore: LEFFLER 1 #21-2 AWB Offset Wellpath: LEFFLER 1 #21-2 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7100.00	VESSI GyroFlex v4	VES GYRO SURVEYS FROM SRC (ADJ FROM GRID TO TRUE, +.47 AZI)<100-7100>	LEFFLER 1 #21-2 AWB
7100.00	7340.00	Drift Indicator - Inclination Only (Actual Survey)	DRIFT INDICATOR TO TD (7340' FROM CO WEBSITE)	LEFFLER 1 #21-2 AWB



**Clearance Report**  
**HARVESTERS STATE 32N-16A-M (REV-B.0) PWP**  
**Closest Approach**  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

OFFSET WELLPATH REFERENCE - Offset Wellbore: LEFFLER 1 #21-2 AWB    Offset Wellpath: LEFFLER 1 #21-2 AWP	
MD Reference: Rig on SLOT#04 EX:LEFFLER 1 #21-2 (660'FNL & 1880'FEL SEC.21,PR,7340'MD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 31N-16B-M AWB Offset Wellpath: HARVESTERS STATE 31N-16B-M AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#07 HARVESTERS STATE 31N-16B-M (1713°FNL & 2334°FEL, SEC.15) Well: HARVESTERS STATE 31N-16B-M Threshold Value=1.00 † = interpolated/extrapolated static													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
1756.00	1752.35	-99.25	-35.49	1745.91	1744.14	145.80	-30.04	161.21	245.25	19.67	13.06	PASS	
1783.09	1779.36	-101.16	-36.14	1772.92	1771.13	146.72	-30.81	163.59	248.07	19.64	13.07	PASS	
1856.00†	1852.04	-106.64	-37.87	1820.00	1818.16	148.31	-32.16	163.52	257.25	19.81	13.43	PASS	
1956.00†	1951.73	-114.15	-40.25	1820.00	1818.16	148.31	-32.16	163.52	294.61	18.58	16.44	PASS	
2056.00†	2051.42	-121.67	-42.62	1820.00	1818.16	148.31	-32.16	163.52	356.95	17.07	21.77	PASS	
2156.00†	2151.11	-129.18	-45.00	1820.00	1818.16	148.31	-32.16	163.52	433.62	15.92	28.47	PASS	
2256.00†	2250.80	-136.70	-47.38	1820.00	1818.16	148.31	-32.16	163.52	518.31	15.15	35.84	PASS	
2356.00†	2350.49	-144.21	-49.75	1820.00	1818.16	148.31	-32.16	163.52	607.67	14.66	43.49	PASS	
2456.00†	2450.18	-151.73	-52.13	1820.00	1818.16	148.31	-32.16	163.52	699.91	14.37	51.18	PASS	
2556.00†	2549.87	-159.25	-54.51	1820.00	1818.16	148.31	-32.16	163.52	794.03	14.20	58.81	PASS	
2656.00†	2649.55	-166.76	-56.88	1820.00	1818.16	148.31	-32.16	163.52	889.44	14.11	66.30	PASS	
2756.00†	2749.24	-174.28	-59.26	1820.00	1818.16	148.31	-32.16	163.52	985.76	14.09	73.62	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 31N-16B-M AWB Offset Wellpath: HARVESTERS STATE 31N-16B-M 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: HARVESTERS STATE 31N-16B-M AWB Offset Wellpath: HARVESTERS STATE 31N-16B-M AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1756.00	BHI NaviTrak (Rotating+Axial Corr)	13 1/2" SURFACE SURVEYS <86-1756>	HARVESTERS STATE 31N-16B-M AWB
1756.00	1820.00	Blind Drilling (std)	Projection to bit	HARVESTERS STATE 31N-16B-M AWB



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HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 31N-16B-M AWP    Offset Wellpath: HARVESTERS STATE 31N-16B-M AWP	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: RUTT-ADAMS HEIRS #2-22 AWB Offset Wellpath: RUTT-ADAMS HEIRS #2-22 AWP

Facility: SEC.22-T06N-R66W Slot: SLOT#01EX:RUTT-ADAMS HEIRS #2-22 (660°FNL&1980°FWL,SEC.22,7762°PA) Well: RUTT-ADAMS HEIRS #2-22 Threshold Value=1.00 † = Interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
1756.00	1752.35	-99.25	-35.49	1708.35	1752.35	-4159.79	-1046.03	-6.02	4184.40	91.32	46.19	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: RUTT-ADAMS HEIRS #2-22 AWB Offset Wellpath: RUTT-ADAMS HEIRS #2-22 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: RUTT-ADAMS HEIRS #2-22 AWB Offset Wellpath: RUTT-ADAMS HEIRS #2-22 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]
12.5in Open Hole	0.00	518.00	518.00	40.00	558.00	-2535.80	-637.71	-2535.80	-637.71
8.625in Casing Surface	0.00	518.00	518.00	40.00	558.00	-2535.80	-637.71	-2535.80	-637.71
7.875in Open Hole	518.00	7762.00	7244.00	558.00	7802.00	-2535.80	-637.71	-2535.80	-637.71
4.5in Casing Production	0.00	7762.00	7762.00	40.00	7802.00	-2535.80	-637.71	-2535.80	-637.71

## WELLPATH COMPOSITION - Offset Wellbore: RUTT-ADAMS HEIRS #2-22 AWB Offset Wellpath: RUTT-ADAMS HEIRS #2-22 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7762.00	Drift Indicator - Inclination Only (Actual Survey)	DRIFT INDICATOR TO TD <7762' FROM CO WEBSITE>	RUTT-ADAMS HEIRS #2-22 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: RUTT-ADAMS HEIRS #2-22 AWB Offset Wellpath: RUTT-ADAMS HEIRS #2-22 AWP

MD Reference: Rig on SLOT#01EX:RUTT-ADAMS HEIRS #2-22 (660°FNL&1980°FWL,SEC.22,7762°PA) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: LEFFLER 26N-23B-L AWB Offset Wellpath: LEFFLER 26N-23B-L AWP

Facility: SEC.21-T06N-R66W Slot: SLOT#01 LEFFLER 26N-23B-L (1801°FNL & 275°FEL SEC.21) Well: LEFFLER 26N-23B-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	
1756.00	1752.35	-99.25	-35.49	2365.89	2338.87	-4812.85	-3374.25	15.48	5805.98	53.79	109.79	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: LEFFLER 26N-23B-L AWB Offset Wellpath: LEFFLER 26N-23B-L 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: LEFFLER 26N-23B-L AWB Offset Wellpath: LEFFLER 26N-23B-L 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]
13.5in Open Hole	25.00	1787.00	1762.00	78.00	1804.09	-3214.45	-2007.89	-3121.66	-2025.52
9.625in Casing Surface	25.00	1787.00	1762.00	78.00	1804.09	-3214.45	-2007.89	-3121.66	-2025.52
8.5in Open Hole	1787.00	17835.00	16048.00	1804.09	7037.23	-3121.66	-2025.52	-2691.76	1212.41

## WELLPATH COMPOSITION - Offset Wellbore: LEFFLER 26N-23B-L AWB Offset Wellpath: LEFFLER 26N-23B-L AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1735.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)	BHI NAVITRAK W/EM 13.5" (STD ROTATING, AXIAL, ROCKIES GT)<91-1714>	LEFFLER 26N-23B-L AWB
1735.00	17811.00	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)	8 1/2" Monobore <1839'-17811">	LEFFLER 26N-23B-L AWB
17811.00	17835.00	Blind Drilling (std)	Projection to bit	LEFFLER 26N-23B-L AWB



REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

OFFSET WELLPATH REFERENCE - Offset Wellbore: LEFFLER 26N-23B-L AWB    Offset Wellpath: LEFFLER 26N-23B-L AWP	
MD Reference: PRECISION 562 (25') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft





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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: FRITZLER 17-23-18 AWB Offset Wellpath: FRITZLER 17-23-18 AWP

Facility: SEC.17-T06N-R66W Slot: SLOT#06 EX. FRITZLER 17-23-18 (716'FSL & 672'FEL,NB-CD/PR/7752'TD) Well: FRITZLER 17-23-18 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
1756.00	1752.35	-99.25	-35.49	537.15	569.74	-2860.32	-9024.29	52.61	9477.37	51.82	186.34	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: FRITZLER 17-23-18 AWB Offset Wellpath: FRITZLER 17-23-18 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: FRITZLER 17-23-18 AWB Offset Wellpath: FRITZLER 17-23-18 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7500.82	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100.58-7500.82>	FRITZLER 17-23-18 AWB
7500.82	7752.00	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL SURVEYS FROM COGCC PROVIDED BY SRC <121-7752>	FRITZLER 17-23-18 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: FRITZLER 17-23-18 AWB Offset Wellpath: FRITZLER 17-23-18 AWP

MD Reference: Rig on SLOT#06 EX. FRITZLER 17-23-18 (716'FSL & 672'FEL,NB-CD/PR/7752'TD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83, TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: LEFFLER 26C-23-L AWB Offset Wellpath: LEFFLER 26C-23-L AWP

Facility: SEC.21-T06N-R66W Slot: SLOT#02 LEFFLER 26C-23-L (1821°FNL & 275°FEL SEC.21) Well: LEFFLER 26C-23-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
1756.00	1752.35	-99.25	-35.49	2793.79	2775.03	-4846.37	-3383.12	15.44	5898.11	53.20	112.80	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: LEFFLER 26C-23-L AWB Offset Wellpath: LEFFLER 26C-23-L 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: LEFFLER 26C-23-L AWB Offset Wellpath: LEFFLER 26C-23-L 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]
13.5in Open Hole	25.00	1804.00	1779.00	78.00	1835.36	-3226.67	-2007.89	-3161.67	-2021.60
9.625in Casing Surface	25.00	1804.00	1779.00	78.00	1835.36	-3226.67	-2007.89	-3161.67	-2021.60
8.5in Open Hole	1804.00	17950.00	16146.00	1835.36	7207.66	-3161.67	-2021.60	-2766.00	1208.16

## WELLPATH COMPOSITION - Offset Wellbore: LEFFLER 26C-23-L AWB Offset Wellpath: LEFFLER 26C-23-L AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1752.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)	BHI NAVITRAK W/EM (STD ROTATING, AXIAL, ROCKIES GT)<112-1752>	LEFFLER 26C-23-L AWB
1752.00	17926.00	Custom BHI AutoTrak Curve (IFR1, Short) (Rockies 0.03Gt model)	CUSTOM BHI AUTOTRAK CURVE (IFR1, SHORT) (ROCKIES 0.03GT MODEL) <1841'-17926'>	LEFFLER 26C-23-L AWB
17926.00	17950.00	Blind Drilling (std)	Projection to bit	LEFFLER 26C-23-L AWB



REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

OFFSET WELLPATH REFERENCE - Offset Wellbore: LEFFLER 26C-23-L AWB    Offset Wellpath: LEFFLER 26C-23-L AWP	
MD Reference: PRECISION 562 (25') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 31C-16-M AWB Offset Wellpath: HARVESTERS STATE 31C-16-M AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#06 HARVESTERS STATE 31C-16-M (1693°FNL & 2333°FEL, SEC.15) Well: HARVESTERS STATE 31C-16-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	
1756.00	1752.35	-99.25	-35.49	1735.38	1731.58	201.07	-32.97	160.36	301.05	19.87	15.88	PASS	
1783.09	1779.36	-101.16	-36.14	1741.00	1737.19	201.46	-33.08	162.79	305.56	19.62	16.12	PASS	
1856.00†	1852.04	-106.64	-37.87	1741.00	1737.19	201.46	-33.08	162.79	328.85	18.98	17.96	PASS	
1956.00†	1951.73	-114.15	-40.25	1741.00	1737.19	201.46	-33.08	162.79	381.70	17.72	22.39	PASS	
2056.00†	2051.42	-121.67	-42.62	1741.00	1737.19	201.46	-33.08	162.79	450.83	16.57	28.38	PASS	
2156.00†	2151.11	-129.18	-45.00	1741.00	1737.19	201.46	-33.08	162.79	529.91	15.71	35.28	PASS	
2256.00†	2250.80	-136.70	-47.38	1741.00	1737.19	201.46	-33.08	162.79	615.10	15.11	42.65	PASS	
2356.00†	2350.49	-144.21	-49.75	1741.00	1737.19	201.46	-33.08	162.79	704.21	14.72	50.22	PASS	
2456.00†	2450.18	-151.73	-52.13	1741.00	1737.19	201.46	-33.08	162.79	795.90	14.46	57.81	PASS	
2556.00†	2549.87	-159.25	-54.51	1741.00	1737.19	201.46	-33.08	162.79	889.39	14.31	65.33	PASS	
2656.00†	2649.55	-166.76	-56.88	1741.00	1737.19	201.46	-33.08	162.79	984.16	14.23	72.73	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 31C-16-M AWB Offset Wellpath: HARVESTERS STATE 31C-16-M 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: HARVESTERS STATE 31C-16-M AWB Offset Wellpath: HARVESTERS STATE 31C-16-M AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1741.00	BHI NaviTrak (Rotating+Axial Corr)	13 1/2" SURFACE SURVEYS <86°-1741°>	HARVESTERS STATE 31C-16-M AWP

## OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 31C-16-M AWB Offset Wellpath: HARVESTERS STATE 31C-16-M AWP

MD Reference: PROPETRO 12 (4") (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

CLEARANCE DATA - Offset Wellbore: EX. BLACK GOLD PETROLEUM #1 AWB Offset Wellpath: EX. BLACK GOLD PETROLEUM #1 AWP												
Facility: SEC.10-T06N-R66W Slot: SLOT#01 EX. BLACK GOLD PETROLEUM #1 (660°FSL & 660°FWL, PR) Well: EX. BLACK GOLD PETROLEUM #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
1756.00	1752.35	-99.25	-35.49	1783.13	1745.12	2379.75	-2320.78	117.28	3371.65	52.49	65.42	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: EX. BLACK GOLD PETROLEUM #1 AWB Offset Wellpath: EX. BLACK GOLD PETROLEUM #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. BLACK GOLD PETROLEUM #1 AWB Offset Wellpath: EX. BLACK GOLD PETROLEUM #1 AWP			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment
0.00	7100.00	BHI Generic gyro - continuous (Standard)	GYRO SURVEYS PROVIDED BY SRC <100-7100>
7100.00	7400.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7400>

OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. BLACK GOLD PETROLEUM #1 AWB Offset Wellpath: EX. BLACK GOLD PETROLEUM #1 AWP	
MD Reference: Rig on SLOT#01 EX. BLACK GOLD PETROLEUM #1 (660°FSL & 660°FWL, PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

CLEARANCE DATA - Offset Wellbore: BERG 33-15 AWB Offset Wellpath: BERG 33-15 AWP													
Facility: SEC.15-T06N-R66W Slot: SLOT#08 EX. BERG 33-15 (1830'FSL & 1980'FEL, NB-CD/PA/7346'TD) Well: BERG 33-15 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	
1756.00	1752.35	-99.25	-35.49	1730.01	1751.97	-1565.20	342.87	-34.52	1513.99	52.48	29.37	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: BERG 33-15 AWB    Offset Wellpath: BERG 33-15 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: <b>BERG 33-15 AWB</b> Offset Wellpath: <b>BERG 33-15 AWP</b>				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	6750.00	BHI Generic gyro - continuous (Standard)	VES GYRO SURVEYS PROVIDED BY SRC <100-7200>	BERG 33-15 AWB
6750.00	7346.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7346>	BERG 33-15 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: BERG 33-15 AWB Offset Wellpath: BERG 33-15 AWP	
MD Reference: Rig on SLOT#08 EX. BERG 33-15 (1830'FSL & 1980'FEL, NB-CD/PA/7346'TD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

CLEARANCE DATA - Offset Wellbore: SENA 15-21 AWB Offset Wellpath: SENA 15-21 AWP													
Facility: SEC.15-T06N-R66W Slot: SLOT#26 EX. SENA 15-21 (559'FNL & 1858'FWL, NB-CD/PR/7441'TD) Well: SENA 15-21 Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
1756.00	1752.35	-99.25	-35.49	1760.49	1749.18	1209.58	-1176.70	118.87	1736.49	15.52	119.20	PASS	
C-C Clearance Distance Cutoff: 1000.00 ft													

POSITIONAL UNCERTAINTY - Offset Wellbore: SENA 15-21 AWB    Offset Wellpath: SENA 15-21 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: SENA 15-21 AWB Offset Wellpath: SENA 15-21 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7150.00	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100-7150>	SENA 15-21 AWB
7150.00	7441.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7441>	SENA 15-21 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: SENA 15-21 AWB Offset Wellpath: SENA 15-21 AWP	
MD Reference: Rig on SLOT#26 EX. SENA 15-21 (559'FNL & 1858'FWL, NB-CD/PR/7441'TD) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 4N-16A-M AWB Offset Wellpath: HARVESTERS STATE 4N-16A-M AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#05 HARVESTERS STATE 4N-16A-M (1673°FNL & 2333°FEL, SEC.15) Well: HARVESTERS STATE 4N-16A-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
1756.00	1752.35	-99.25	-35.45	1724.25	1715.64	267.30	-33.66	160.13	368.39	19.93	19.37	PASS
1783.09	1779.36	-101.16	-36.14	1751.89	1743.13	270.03	-34.48	162.53	372.95	19.90	19.40	PASS
1856.00†	1852.04	-106.64	-37.87	1820.00	1810.89	276.62	-36.60	162.44	385.47	20.28	19.66	PASS
1956.00†	1951.73	-114.15	-40.25	1820.00	1810.89	276.62	-36.60	162.44	415.40	19.69	21.85	PASS
2056.00†	2051.42	-121.67	-42.62	1820.00	1810.89	276.62	-36.60	162.44	465.33	18.74	25.77	PASS
2156.00†	2151.11	-129.18	-45.00	1820.00	1810.89	276.62	-36.60	162.44	529.62	17.78	30.99	PASS
2256.00†	2250.80	-136.70	-47.38	1820.00	1810.89	276.62	-36.60	162.44	603.72	16.97	37.07	PASS
2356.00†	2350.49	-144.21	-49.75	1820.00	1810.89	276.62	-36.60	162.44	684.43	16.36	43.69	PASS
2456.00†	2450.18	-151.73	-52.13	1820.00	1810.89	276.62	-36.60	162.44	769.69	15.90	50.61	PASS
2556.00†	2549.87	-159.25	-54.51	1820.00	1810.89	276.62	-36.60	162.44	858.13	15.58	57.66	PASS
2656.00†	2649.55	-166.76	-56.88	1820.00	1810.89	276.62	-36.60	162.44	948.88	15.36	64.72	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 4N-16A-M AWB Offset Wellpath: HARVESTERS STATE 4N-16A-M 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: HARVESTERS STATE 4N-16A-M AWB Offset Wellpath: HARVESTERS STATE 4N-16A-M AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1756.00	BHI NaviTrak (Rotating+Axial Corr)	13 1/2" SURFACE SURVEYS <86°-1756°>	HARVESTERS STATE 4N-16A-M AWB
1756.00	1820.00	Blind Drilling (std)	Projection to bit	HARVESTERS STATE 4N-16A-M AWB





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HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 4N-16A-M AWB Offset Wellpath: HARVESTERS STATE 4N-16A-M AWP	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 4N-16C-M AWB Offset Wellpath: HARVESTERS STATE 4N-16C-M AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#04 HARVESTERS STATE 4N-16C-M (1653°FNL & 2333°FEL, SEC.15) Well: HARVESTERS STATE 4N-16C-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
1756.00	1752.35	-99.25	-35.45	1709.57	1697.80	315.17	-32.16	160.26	418.01	19.88	22.05	PASS
1783.09	1779.36	-101.16	-36.14	1737.30	1725.28	318.75	-32.81	162.68	423.39	19.85	22.09	PASS
1856.00†	1852.04	-106.64	-37.87	1809.97	1797.36	327.88	-34.58	162.67	437.96	20.26	22.36	PASS
1956.00†	1951.73	-114.15	-40.25	1830.00	1817.22	330.38	-35.07	162.66	464.47	20.02	24.01	PASS
2056.00†	2051.42	-121.67	-42.62	1830.00	1817.22	330.38	-35.07	162.66	509.17	19.27	27.39	PASS
2156.00†	2151.11	-129.18	-45.00	1830.00	1817.22	330.38	-35.07	162.66	568.14	18.43	32.01	PASS
2256.00†	2250.80	-136.70	-47.38	1830.00	1817.22	330.38	-35.07	162.66	637.42	17.67	37.53	PASS
2356.00†	2350.49	-144.21	-49.75	1830.00	1817.22	330.38	-35.07	162.66	714.02	17.05	43.66	PASS
2456.00†	2450.18	-151.73	-52.13	1830.00	1817.22	330.38	-35.07	162.66	795.84	16.56	50.17	PASS
2556.00†	2549.87	-159.25	-54.51	1830.00	1817.22	330.38	-35.07	162.66	881.41	16.19	56.88	PASS
2656.00†	2649.55	-166.76	-56.88	1830.00	1817.22	330.38	-35.07	162.66	969.74	15.93	63.68	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 4N-16C-M AWB Offset Wellpath: HARVESTERS STATE 4N-16C-M 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: HARVESTERS STATE 4N-16C-M AWB Offset Wellpath: HARVESTERS STATE 4N-16C-M AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1766.00	BHI NaviTrak (Rotating+Axial Corr)	13 1/2" SURFACE SURVEYS <86°-1766°>	HARVESTERS STATE 4N-16C-M AWB
1766.00	1830.00	Blind Drilling (std)	Projection to bit	HARVESTERS STATE 4N-16C-M AWB



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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 4N-16C-M AWB Offset Wellpath: HARVESTERS STATE 4N-16C-M AWP	
MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



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HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

CLEARANCE DATA - Offset Wellbore: ULRICH PC I 17-07D AWP Offset Wellpath: ULRICH PC I 17-07D AWP													
Facility: SEC.17-T06N-R66W Slot: SLOT#02 EX. ULRICH PC I 17-07D ( 1988°FNL & 836°FEL, NB-CD/PR/7581°TD) Well: ULRICH PC I 17-07D Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
1756.00	1752.35	-99.25	-35.49	1192.37	1215.23	-290.11	-9145.04	68.65	9127.36	52.31	177.73	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ULRICH PC I 17-07D AWP Offset Wellpath: ULRICH PC I 17-07D 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: ULRICH PC I 17-07D AWP Offset Wellpath: ULRICH PC I 17-07D AWP			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment Wellbore
0.00	7301.66	BHI Generic gyro - continuous (Standard)	CORETECH WIRELINE GYRO SURVEYS PROVIDED BY SRC <100-7301.66> ULRICH PC I 17-07D AWP
7301.66	7581.00	ISCWSA MWD, Rev. 4 (Standard)	DIRECTIONAL SURVEYS FROM COGCC PROVIDED BY SRC <7581> ULRICH PC I 17-07D AWP

OFFSET WELLPATH REFERENCE - Offset Wellbore: ULRICH PC I 17-07D AWP Offset Wellpath: ULRICH PC I 17-07D AWP	
MD Reference: Rig on SLOT#02 EX. ULRICH PC I 17-07D ( 1988°FNL & 836°FEL, NB-CD/PR/7581°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

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

Facility: SEC.10-T06N-R66W Slot: SLOT#03 EX. BLACK GOLD #3 (660'FSL & 1830'FWL, PA) Well: EX. BLACK GOLD #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		
1756.00	1752.35	-99.25	-35.49	1797.43	1758.40	2377.79	-1149.97	135.73	2716.21	52.61	52.58	PASS		

C-C Clearance Distance Cutoff: 1000.00 ft

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

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7300.00	BHI Generic gyro - continuous (Standard)	WINSERVE GYRO SURVEYS PROVIDED BY SRC <100'-7300'>	EX. BLACK GOLD #3 AWB
7300.00	7443.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7443'>	EX. BLACK GOLD #3 AWB

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

MD Reference: Rig on SLOT#03 EX. BLACK GOLD PETROLEUM #3 (660'FSL & 1830'FWL, PA) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS 31-15 AWB Offset Wellpath: HARVESTERS 31-15 AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#09 EX. HARVESTERS 31-15 (850°FNL & 1810°FEL, CODL/SI/7443°TD) Well: HARVESTERS 31-15 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
1756.00	1752.35	-99.25	-35.49	1758.31	1753.20	994.16	506.80	-173.59	1220.51	52.38	23.72	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS 31-15 AWB Offset Wellpath: HARVESTERS 31-15 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: HARVESTERS 31-15 AWB Offset Wellpath: HARVESTERS 31-15 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7260.00	BHI Generic gyro - continuous (Standard)	GYRO SURVEYS PROVIDED BY SRC <100-7260>	HARVESTERS 31-15 AWB
7260.00	7443.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7443>	HARVESTERS 31-15 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS 31-15 AWB Offset Wellpath: HARVESTERS 31-15 AWP

MD Reference: Rig on SLOT#09 EX. HARVESTERS 31-15 (850°FNL & 1810°FEL, CODL/SI/7443°TD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 4C-16-M AWB Offset Wellpath: HARVESTERS STATE 4C-16-M AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#03 HARVESTERS STATE 4C-16-M (1633°FNL & 2333°FEL, SEC.15) Well: HARVESTERS STATE 4C-16-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	
1756.00	1752.35	-99.25	-35.49	1698.87	1683.05	361.23	-29.78	160.49	465.70	19.85	24.61	PASS	
1783.09	1779.36	-101.16	-36.14	1725.98	1709.85	365.27	-30.60	162.88	471.61	19.82	24.64	PASS	
1856.00†	1852.04	-106.64	-37.87	1795.00	1778.08	375.43	-32.63	162.82	487.73	20.21	24.97	PASS	
1956.00†	1951.73	-114.15	-40.25	1795.00	1778.08	375.43	-32.63	162.82	519.52	19.75	27.24	PASS	
2056.00†	2051.42	-121.67	-42.62	1795.00	1778.08	375.43	-32.63	162.82	567.38	19.06	30.88	PASS	
2156.00†	2151.11	-129.18	-45.00	1795.00	1778.08	375.43	-32.63	162.82	627.64	18.32	35.59	PASS	
2256.00†	2250.80	-136.70	-47.38	1795.00	1778.08	375.43	-32.63	162.82	697.10	17.66	41.09	PASS	
2356.00†	2350.49	-144.21	-49.75	1795.00	1778.08	375.43	-32.63	162.82	773.28	17.10	47.13	PASS	
2456.00†	2450.18	-151.73	-52.13	1795.00	1778.08	375.43	-32.63	162.82	854.39	16.66	53.52	PASS	
2556.00†	2549.87	-159.25	-54.51	1795.00	1778.08	375.43	-32.63	162.82	939.15	16.32	60.10	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 4C-16-M AWB Offset Wellpath: HARVESTERS STATE 4C-16-M 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: HARVESTERS STATE 4C-16-M AWB Offset Wellpath: HARVESTERS STATE 4C-16-M AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1731.00	BHI NaviTrak (Rotating+Axial Corr)	13 1/2" SURFACE SURVEYS <86-1731">	HARVESTERS STATE 4C-16-M AWB
1731.00	1795.00	Blind Drilling (std)	Projection to bit	HARVESTERS STATE 4C-16-M AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 4C-16-M AWB Offset Wellpath: HARVESTERS STATE 4C-16-M AWP

MD Reference: PROPETRO 12 (4") (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: HARVESTERS STATE 30C-16-M AWB Offset Wellpath: HARVESTERS STATE 30C-16-M AWP

Facility: SEC.15-T06N-R66W Slot: SLOT#01 HARVESTERS STATE 30C-16-M (1593°FNL & 2332°FEL, SEC.15) Well: HARVESTERS STATE 30C-16-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	
1756.00	1752.35	-99.25	-35.49	1660.44	1634.67	447.17	-16.00	161.75	559.29	20.07	29.22	PASS	
1783.09	1779.36	-101.16	-36.14	1685.32	1658.99	452.45	-16.54	164.17	566.89	20.02	29.32	PASS	
1856.00†	1852.04	-106.64	-37.87	1751.14	1723.23	466.68	-17.81	164.13	587.95	20.37	29.86	PASS	
1956.00†	1951.73	-114.15	-40.25	1756.00	1727.97	467.75	-17.90	164.13	623.84	19.99	32.32	PASS	
2056.00†	2051.42	-121.67	-42.62	1756.00	1727.97	467.75	-17.90	164.13	672.79	19.41	35.93	PASS	
2156.00†	2151.11	-129.18	-45.00	1756.00	1727.97	467.75	-17.90	164.13	732.19	18.81	40.41	PASS	
2256.00†	2250.80	-136.70	-47.38	1756.00	1727.97	467.75	-17.90	164.13	799.73	18.24	45.57	PASS	
2356.00†	2350.49	-144.21	-49.75	1756.00	1727.97	467.75	-17.90	164.13	873.52	17.75	51.21	PASS	
2456.00†	2450.18	-151.73	-52.13	1756.00	1727.97	467.75	-17.90	164.13	952.10	17.35	57.18	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: HARVESTERS STATE 30C-16-M AWB Offset Wellpath: HARVESTERS STATE 30C-16-M 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: HARVESTERS STATE 30C-16-M AWB Offset Wellpath: HARVESTERS STATE 30C-16-M AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
4.00	1708.00	BHI NaviTrak (Rotating+Axial Corr)	13 1/2" SURFACE SURVEYS <89°-1708°>	HARVESTERS STATE 30C-16-M AWB
1708.00	1756.00	Blind Drilling (std)	Projection to bit	HARVESTERS STATE 30C-16-M AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: HARVESTERS STATE 30C-16-M AWB Offset Wellpath: HARVESTERS STATE 30C-16-M AWP

MD Reference: PROPETRO 12 (4') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	4.00ft





# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: EX. MONTERA 10-34 AWB Offset Wellpath: EX. MONTERA 10-34 AWP

Facility: SEC.10-T06N-R66W Slot: SLOT#01 EX. MONTERA 10-34 (469'FSL & 2191'FEL, PR) Well: EX. MONTERA 10-34 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
1756.00	1752.35	-99.25	-35.49	1804.62	1775.58	2261.50	116.62	163.68	2365.76	52.39	45.98	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: EX. MONTERA 10-34 AWB Offset Wellpath: EX. MONTERA 10-34 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. MONTERA 10-34 AWB Offset Wellpath: EX. MONTERA 10-34 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7200.00	BHI Generic gyro - continuous (Standard)	VES SURVEY INTERNATIONAL GYRO PROVIDED BY SRC <100'-7200'>	EX. MONTERA 10-34 AWB
7200.00	7453.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD FROM COGCC <7453'>	EX. MONTERA 10-34 AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: EX. MONTERA 10-34 AWB Offset Wellpath: EX. MONTERA 10-34 AWP

MD Reference: Rig on SLOT#01 EX. MONTERA 10-34 (469'FSL & 2191'FEL, 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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: BERRY #22-2 AWB Offset Wellpath: BERRY #22-2 AWP

Facility: SEC.22-T06N-R66W Slot: SLOT#04 EX:BERRY #22-2 (847°FNL & 1808°FEL SEC.22,PR,7325'MD) Well: BERRY #22-2 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
1756.00	1752.35	-99.25	-35.49	1669.80	1723.60	-4311.58	528.54	-27.65	4250.02	52.11	82.74	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: BERRY #22-2 AWB Offset Wellpath: BERRY #22-2 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: BERRY #22-2 AWB Offset Wellpath: BERRY #22-2 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	0.00	493.00	493.00	50.00	543.00	-2620.87	332.75	-2621.33	332.59
8.625in Casing Surface	0.00	493.00	493.00	50.00	543.00	-2620.87	332.75	-2621.33	332.59
7.875in Open Hole	493.00	7315.00	6822.00	543.00	7363.79	-2621.33	332.59	-2614.10	319.46
4.5in Casing Production	0.00	7315.00	7315.00	50.00	7363.79	-2620.87	332.75	-2614.10	319.46

## WELLPATH COMPOSITION - Offset Wellbore: BERRY #22-2 AWB Offset Wellpath: BERRY #22-2 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7100.00	VESSI GyroFlex v4	VES GYRO SURVEYS FROM SCR (ADJ FROM GRID TO TRUE, + 48)<100-7100>	BERRY #22-2 AWB
7100.00	7325.00	Drift Indicator - Inclination Only (Actual Survey)	DRIFT INDICATOR TO TD <7325' FROM CO WEBSITE>	BERRY #22-2 AWB



**Clearance Report**  
**HARVESTERS STATE 32N-16A-M (REV-B.0) PWP**  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793'FNL & 2334'FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

OFFSET WELLPATH REFERENCE - Offset Wellbore: BERRY #22-2 AWB Offset Wellpath: BERRY #22-2 AWP	
MD Reference: Rig on SLOT#04 EX:BERRY #22-2 (847'FNL & 1808'FEL SEC.22,PR,7325'MD) (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

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: DONN 30N-20B-L AWB Offset Wellpath: DONN 30N-20B-L AWP

Facility: SEC.21-T06N-R66W Slot: SLOT#14 DONN 30N-20B-L (758°FNL & 250°FEL, SEC.21) Well: DONN 30N-20B-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	
1756.00	1752.35	-99.25	-35.49	1749.00	1765.70	-4133.98	-3113.49	17.40	5074.77	53.84	95.95	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: DONN 30N-20B-L AWB Offset Wellpath: DONN 30N-20B-L 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: DONN 30N-20B-L AWB Offset Wellpath: DONN 30N-20B-L AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1749.00	BHI NaviTrak (Standard)	13 1/2" SURFACE SECTION <88-1728>	DONN 30N-20B-L AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: DONN 30N-20B-L AWB Offset Wellpath: DONN 30N-20B-L AWP

MD Reference: PRECISION DRILLING (25') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft



# Clearance Report

HARVESTERS STATE 32N-16A-M (REV-B.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SRC ENERGY	Slot	SLOT#11 HARVESTERS STATE 32N-16A-M (1793°FNL & 2334°FEL, SEC.15)
Area	COLORADO	Well	HARVESTERS STATE 32N-16A-M
Field	WELD COUNTY (NAD83,TRUE NORTH)	Wellbore	HARVESTERS STATE 32N-16A-M PWB
Facility	SEC.15-T06N-R66W	Sidetrack from	HARVESTERS STATE 32N-16A-M AWP at 1756.00 MD

## CLEARANCE DATA - Offset Wellbore: DONN 30N-20A-L AWB Offset Wellpath: DONN 30N-20A-L AWP

Facility: SEC.21-T06N-R66W Slot: SLOT#13 DONN 30N-20A-L (738°FNL & 250°FEL, SEC.21) Well: DONN 30N 20A-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	
1756.00	1752.35	-99.25	-35.49	1769.00	1781.16	-4070.29	-3102.34	17.75	5017.53	53.84	94.88	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: DONN 30N-20A-L AWB Offset Wellpath: DONN 30N-20A-L 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: DONN 30N-20A-L AWB Offset Wellpath: DONN 30N-20A-L AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1769.00	BHI NaviTrak (Rotating+Axial Corr)	13 1/2" SURFACE SECTION <88-1748>	DONN 30N-20A-L AWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: DONN 30N-20A-L AWB Offset Wellpath: DONN 30N-20A-L AWP

MD Reference: PRECISION DRILLING (25') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	25.00ft