



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 4.1.1
North Reference	True	User	Ingmjmr
Scale	0.999967	Report Generated	12/29/2015 at 8:02:14 AM
Convergence at slot	0.40° East	Database/Source file	WA_DEN_Denver_Defn/SHOOK_3-10-1NCH_PWB_CR.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	14.01	3175492.76	1240632.57	39°59'31.992"N	104°52'25.140"W
Facility Reference Pt			3175478.75	1240632.48	39°59'31.992"N	104°52'25.320"W
Field Reference Pt			3175478.75	1240632.48	39°59'31.992"N	104°52'25.320"W

## WELLPATH DATUM

Calculation method	Minimum Curvature	RIG (16'KB) (RKB) to Facility Vertical Datum	5114.00ft
Horizontal Reference Pt	Slot	RIG (16'KB) (RKB) to Mean Sea Level	5114.00ft
Vertical Reference Pt	RIG (16'KB) (RKB)	RIG (16'KB) (RKB) to Mud Line at Slot (SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03))	5114.00ft
MD Reference Pt	RIG (16'KB) (RKB)		
Field Vertical Reference	Mean Sea Level		

## POSITIONAL UNCERTAINTY CALCULATION SETTINGS

Ellipse Confidence Limit	3.00 Std Dev	Ellipse Start MD	16.00ft	Surface Position Uncertainty	included
Declination	8.42° East of TN	Dip Angle	66.54°	Mag Field Strength	52283 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

## 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
Subtract Casing & Hole Size	yes	Apply Cone of Safety	no



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Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## HOLE & CASING SECTIONS - Ref Wellbore: SHOOK 3-10-1NCH PWB Ref Wellpath: SHOOK 3-10-1NCH 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	16.00	800.00	784.00	16.00	800.00	0.00	0.00	0.00	0.00
9.625in Casing Surface	16.00	800.00	784.00	16.00	800.00	0.00	0.00	0.00	0.00
8.5in Open Hole	800.00	13144.91	12344.91	800.00	7680.00	0.00	0.00	-6881.26	-2247.79
5.5in Casing Production	16.00	13144.91	13128.91	16.00	7680.00	0.00	0.00	-6881.26	-2247.79

## SURVEY PROGRAM - Ref Wellbore: SHOOK 3-10-1NCH PWB Ref Wellpath: SHOOK 3-10-1NCH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	13144.91	Custom NaviTrak (Standard) (Rockies 0.03Gt model)		SHOOK 3-10-1NCH PWB



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Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CALCULATION RANGE & CUTOFF

From: 16.00ft MD	To: 13144.91ft MD	C-C Cutoff: (none)
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## OFFSET WELL CLEARANCE SUMMARY (43 Offset Wellpaths selected) Ratios are calculated in Closest Approach plane

Offset Facility	Offset Slot	Offset Well	Offset Wellbore	Offset Wellpath	C-C Clearance Distance			ACR Separation Ratio			
					Ref MD [ft]	Min C-C Clear Dist [ft]	Diverging from MD [ft]	Ref MD of Min Ratio [ft]	Min Ratio	Min Ratio Dvrg from [ft]	ACR Status
SEC.03-T1S-R67W	SLOT#03 SHOOK 3-10-1NBH (2058'FSL & 2259'FEL, SEC.03)	SHOOK 3-10-1NBH	SHOOK 3-10-1NBH PWB	SHOOK 3-10-1NBH PWP (REV-A.0)	16.00	14.01	1600.00	13144.91	0.76	13144.91	FAIL
SEC.03-T1S-R67W	SLOT#01 SHOOK 3-10-1CDH (2058'FSL & 2289'FEL, SEC.03)	SHOOK 3-10-1CDH	SHOOK 3-10-1CDH PWB	SHOOK 3-10-1CDH PWP (REV-A.0)	16.00	14.01	1416.00	13144.91	0.86	13144.91	FAIL
SEC.03-T1S-R67W	SLOT#04 SHOOK 3-10-2CDH (2058'FSL & 2244'FEL, SEC.03)	SHOOK 3-10-2CDH	SHOOK 3-10-2CDH PWB	SHOOK 3-10-2CDH PWP (REV-A.0)	16.00	30.82	1600.00	13144.91	1.41	13144.91	PASS
SEC.03-T1S-R67W	SLOT#05 SHOOK 3-10-1NAH (2058'FSL & 2229'FEL, SEC.03)	SHOOK 3-10-1NAH	SHOOK 3-10-1NAH PWB	SHOOK 3-10-1NAH PWP (REV-A.0)	16.00	44.83	8816.00	13144.91	2.20	13144.91	PASS
SEC.03-T1S-R67W	SLOT#06 SHOOK 3-10-2NBH (2058'FSL & 2214'FEL, SEC.03)	SHOOK 3-10-2NBH	SHOOK 3-10-2NBH PWB	SHOOK 3-10-2NBH PWP (REV-A.0)	16.00	58.84	1600.00	13144.91	2.68	13144.91	PASS
SEC.34-T01N-R67W	SLOT#01 GRENNEMYER #13N-3HZ (445'FNL & 1555'FWL, SEC.34)	GRENNEMYER #13N-3HZ	GRENNEMYER #13N-3HZ AWB	GRENNEMYER #13N-3HZ AWP	8163.58	498.14	8163.58	8088.55	2.80	8088.55	PASS
SEC.03-T01S-R67W	SLOT#02 EX SELTZER #23-3 (1495'FSL & 1530'FWL, SEC.03,PR)	SELTZER #23-3	SELTZER #23-3 AWB	SELTZER #23-3 AWP	5172.27	626.43	5172.27	5393.31	3.12	5393.31	PASS
SEC.03-T1S-R67W	SLOT#07 SHOOK 3-10-3CDH (2058'FSL & 2199'FEL, SEC.03)	SHOOK 3-10-3CDH	SHOOK 3-10-3CDH PWB	SHOOK 3-10-3CDH PWP (REV-A.0)	16.00	75.65	8816.00	13144.91	3.34	13144.91	PASS
SEC.34-T01N-R67W	SLOT#05 GRENNEMYER #35N-3HZ (445'FNL & 1615'FWL, SEC.34)	GRENNEMYER #35N-3HZ	GRENNEMYER #35N-3HZ AWB	GRENNEMYER #35N-3HZ AWP	7897.56	885.76	7897.56	8053.87	3.65	8053.87	PASS
SEC.34-T01N-R67W	SLOT#04 GRENNEMYER #35C-3HZ (445'FNL & 1585'FWL, SEC.34)	GRENNEMYER #35C-3HZ	GRENNEMYER #35C-3HZ AWB	GRENNEMYER #35C-3HZ AWP	8176.00	730.91	8176.00	8241.30	4.28	8241.30	PASS
SEC.34-T01N-R67W	SLOT#09 WAGNER #13C-3HZ (850'FNL & 556'FWL, SEC.34)	WAGNER #13C-3HZ	WAGNER #13C-3HZ AWB	WAGNER #13C-3HZ AWP	8253.50	941.57	8253.50	8211.21	4.51	8211.21	PASS
SEC.34-T01N-R67W	SLOT#02 GRENNEMYER #14C-3HZ (636'FNL & 2605'FWL, SEC.34)	GRENNEMYER #14C-3HZ	GRENNEMYER #14C-3HZ AWB	GRENNEMYER #14C-3HZ AWP	7980.23	1258.56	7980.23	8062.48	8.00	8062.48	PASS
SEC.10-T01S-R67W	SLOT#03 EX L.W. MOORE GAS UNIT 1 (900'FNL & 300'FEL, SEC.10, PR)	L.W. MOORE GAS UNIT 1	L.W. MOORE GAS UNIT 1 AWB	L.W. MOORE GAS UNIT 1 AWP	3553.50	3552.59	9316.00	9266.54	8.02	9716.00	PASS
SEC.03-T01S-R67W	SLOT#01 EX MOORE #3-1 (660'FSL & 1920'FEL, SEC.03,PA)	MOORE #3-1	MOORE #3-1 AWB	MOORE #3-1 AWP	3628.50	1260.20	3628.50	4786.51	8.05	4786.51	PASS
SEC.03-T01S-R67W	SLOT#01 EX BIOW-MOORE 3-1 (666'FSL & 773'FEL, SEC.03, PR)	BIOW-MOORE 3-1	BIOW-MOORE 3-1 AWB	BIOW-MOORE 3-1 AWP	16.00	2051.59	1600.00	5640.83	8.39	5640.83	PASS
SEC.10-T01S-R67W	SLOT#02 EX RIVERDALE FARMS #3 (660'FNL & 660'FWL, SEC.10, PA)	RIVERDALE FARMS #3	RIVERDALE FARMS #3 AWB	RIVERDALE FARMS #3 AWP	6523.50	1755.50	9016.00	6177.08	10.51	11316.00	PASS
SEC.10-T01S-R67W	SLOT#02 EX EHLER 10-5P (720'FSL & 600'FEL, SEC.10, PA,)	EHLER 10-5P	EHLER 10-5P AWB	EHLER 10-5P AWP	12881.00	4689.55	12881.00	13144.91	11.48	13144.91	PASS
SEC.03-T01S-R67W	SLOT#03 EX SELTZER FARMS #A 4 (1760'FNL & 1780'FWL, SEC.03,PR)	SELTZER FARMS #A 4	SELTZER FARMS #A 4 AWB	SELTZER FARMS #A 4 AWP	2316.00	1778.22	2316.00	8365.84	11.48	8365.84	PASS

OFFSET WELL CLEARANCE SUMMARY (43 Offset Wellpaths selected) Ratios are calculated in Closest Approach plane											
Offset Facility	Offset Slot	Offset Well	Offset Wellbore	Offset Wellpath	C-C Clearance Distance			ACR Separation Ratio			
					Ref MD [ft]	Min C-C Clear Dist [ft]	Diverging from MD [ft]	Ref MD of Min Ratio [ft]	Min Ratio	Min Ratio Dvrg from [ft]	ACR Status
SEC.03-T01S-R67W	SLOT#04 EX WEIGANDT #43-3 (1640'FSL & 990'FEL, SEC.03,PR)	WEIGANDT #43-3	WEIGANDT #43-3 AWB	WEIGANDT #43-3 AWP	16.00	1340.59	1600.00	2928.08	12.02	2928.08	PASS
SEC.10-T01S-R67W	SLOT#01 EX BONACQUISTI 10-1 (1980'FNL & 660'FEL, SEC.10, PA)	BONACQUISTI 10-1	BONACQUISTI 10-1 AWB	BONACQUISTI 10-1 AWP	5428.50	4057.36	10316.00	5974.91	12.21	10916.00	PASS
SEC.03-T01S-R67W	SLOT#05 EX WEIGANDT JOHN H #A 1 (1710'FNL & 1980'FEL, SEC.03,PR)	WEIGANDT JOHN H #A 1	WEIGANDT JOHN H #A 1 AWB	WEIGANDT JOHN H #A 1 AWP	116.00	1306.05	1600.00	2516.00	12.36	2516.00	PASS
SEC.34-T01N-R67W	SLOT#06 GRENEMYER #36C-3HZ (689'FNL & 1650'FEL, SEC.34)	GRENEMYER #36C-3HZ	GRENEMYER #36C-3HZ AWB	GRENEMYER #36C-3HZ AWP	7129.75	2653.59	7129.75	7698.83	12.90	7698.83	PASS
SEC.34-T01N-R67W	SLOT#03 GRENEMYER #15N-3HZ (689'FNL & 1620'FEL, SEC.34)	GRENEMYER #15N-3HZ	GRENEMYER #15N-3HZ AWB	GRENEMYER #15N-3HZ AWP	6806.00	2834.88	6806.00	7416.00	12.99	7416.00	PASS
SEC.03-T01S-R67W	SLOT#02 EX SELTZER FARMS #3 (1710'FNL & 660'FWL, SEC.03, PR)	SELTZER #3	SELTZER #3 AWB	SELTZER #3 AWP	4053.50	2531.00	4053.50	5585.69	13.36	5585.69	PASS
SEC.10-T01S-R67W	SLOT#06 EX EHLER#10-4 (660'FSL & 1980'FEL, SEC.10, PA)	EHLER #10-4	EHLER #10-4 AWB	EHLER #10-4 AWP	12941.00	3595.68	12941.00	13059.69	13.98	13059.69	PASS
SEC.10-T01S-R67W	SLOT#01 EX RIVERDALE FARMS #2 (1980'FNL & 1980'FWL, SEC.10,PA)	RIVERDALE FARMS #2	RIVERDALE FARMS #2 AWB	RIVERDALE FARMS #2 AWP	6511.00	2782.88	10316.00	6487.83	14.19	8916.00	PASS
SEC.10-T01S-R67W	SLOT#01 EX EHLER JOHN #5 (640'FSL & 1830'FWL, SEC.10,PA)	EHLER JOHN #5	EHLER JOHN #5 AWB	EHLER JOHN #5 AWP	12956.00	2662.96	12956.00	11990.51	15.43	11990.51	PASS
SEC.10-T01S-R67W	SLOT#04 EX EHLER JOHN #13 (1980'FNL & 660'FWL, SEC.10, PA)	EHLER JOHN #13	EHLER JOHN #13 AWB	EHLER JOHN #13 AWP	10316.00	2536.76	10316.00	6674.39	15.74	12416.00	PASS
SEC.10-T01S-R67W	SLOT#05 EX EHLER #10-2 (1980'FSL & 1980'FEL, SEC.10, PA)	EHLER #10-2	EHLER #10-2 AWB	EHLER #10-2 AWP	11616.00	3605.63	11621.00	11748.06	15.98	11748.06	PASS
SEC.10-T01S-R67W	SLOT#09 EX REED #10-3 (660'FNL & 660'FEL, SEC.10, PA)	REED #10-3	REED #10-3 AWB	REED #10-3 AWP	3653.50	3089.97	9016.00	5635.86	16.48	9916.00	PASS
SEC.34-T01N-R67W	SLOT#07 GRENEMYER #36N-3HZ (636'FNL & 2575'FEL, SEC.34)	GRENEMYER #36N-3HZ	GRENEMYER #36N-3HZ AWB	GRENEMYER #36N-3HZ AWP	7151.00	2127.67	7151.00	9265.96	16.68	9265.96	PASS
SEC.10-T01S-R67W	SLOT#08 EX HI-LAND #10-G (1195'FNL & 660'FEL, SEC.10, PR)	HI-LAND #10-G	HI-LAND #10-G AWB	HI-LAND #10-G AWP	4366.00	3473.94	9516.00	6176.61	16.77	10216.00	PASS
SEC.10-T01S-R67W	SLOT#02 EX RIVERDALE FARMS #4 (1680'FSL & 1980'FWL, SEC.10, PA)	RIVERDALE FARMS #4	RIVERDALE FARMS #4 AWB	RIVERDALE FARMS #4 AWP	11921.00	2781.37	11921.00	10951.83	16.82	10951.83	PASS
SEC.10-T01S-R67W	SLOT#07 EX HI-LAND #10-B (1165'FNL & 660'FEL, SEC.10, PR)	HI-LAND #10-B	HI-LAND #10-B AWB	HI-LAND #10-B AWP	4328.50	3452.64	9516.00	6059.24	17.01	10216.00	PASS
SEC.03-T01S-R67W	SLOT#01 EX JOHN WEIGANDT GAS UNIT #1 (1150'FNL & 990'FEL, SEC.03,PR)	JOHN WEIGANDT GAS UNIT #1	JOHN WEIGANDT GAS UNIT #1 AWB	JOHN WEIGANDT GAS UNIT #1 AWP	116.00	2248.49	1600.00	8365.98	17.50	8365.98	PASS
SEC.10-T01S-R67W	SLOT#03 EX EHLER JOHN #12 (2060'FSL & 660'FWL, SEC.10,PA)	EHLER JOHN #12	EHLER JOHN #12 AWB	EHLER JOHN #12 AWP	11541.00	2485.90	11541.00	9265.71	17.82	13144.91	PASS
SEC.03-T01S-R67W	SLOT#03 EX SELTZER FARMS A #1 (660'FNL & 1960'FWL, SEC.03, PA)	SELTZER FARMS A #1	SELTZER FARMS A #1 AWB	SELTZER FARMS A #1 AWP	116.00	2549.51	1600.00	5542.33	18.38	5542.33	PASS
SEC.10-T01S-R67W	SLOT#04 EX BUSCHMAN HAROLD #S-5 (1422'FNL & 540'FEL, SEC.10, PA)	BUSCHMAN HAROLD #S-5	BUSCHMAN HAROLD #S-5	BUSCHMAN HAROLD #S-5 AWP	4503.50	3730.46	9716.00	6034.54	18.64	10616.00	PASS
SEC.03-T01S-R67W	SLOT#04 EX SELTZER FARMS A #2 (635'FNL & 610'FWL, SEC.03, PR)	SELTZER FARMS A #2	SELTZER FARMS A #2 AWB	SELTZER FARMS A #2 AWP	2566.00	3362.20	2566.00	5544.43	18.85	5544.43	PASS
SEC.10-T01S-R67W	SLOT#02 EX EHLER JOHN #1 (660'FSL & 660'FWL, SEC.10, PA)	EHLER JOHN #1	EHLER JOHN #1 AWB	EHLER JOHN #1 AWP	12941.00	2506.91	12941.00	9265.70	19.73	13144.91	PASS



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SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CALCULATION RANGE & CUTOFF

From: 16.00ft MD	To: 13144.91ft MD	C-C Cutoff: (none)
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## OFFSET WELL CLEARANCE SUMMARY (43 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.34-T01N-R67W	SLOT#08 GRENNEMYER #37C-3HZ (522'FNL & 676'FEL, SEC.34)	GRENNEMYER #37C-3HZ	GRENNEMYER #37C-3HZ AWB	GRENNEMYER #37C-3HZ AWP	6812.80	3257.59	6812.80	8366.07	19.74	8366.07	PASS
SEC.03-T01S-R67W	SLOT#01 EX JOHN WEIGANDT B#1 (531'FNL & 2101'FEL, SEC.03, PR)	JOHN WEIGANDT B#1	JOHN WEIGANDT B#1 AWB	JOHN WEIGANDT B#1 AWP	116.00	2446.70	1600.00	5556.23	21.33	5556.23	PASS
SEC.34-T01N-R67W	SLOT#10 WAGNER #34N-34HZ (850'FNL & 526'FWL, SEC.34)	WAGNER #34N-34HZ	WAGNER #34N-34HZ AWB	WAGNER #34N-34HZ AWP	6853.50	5402.66	6853.50	8365.59	36.50	8365.59	PASS



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Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1NBH PWB Offset Wellpath: SHOOK 3-10-1NBH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#03 SHOOK 3-10-1NBH (2058'FSL & 2259'FEL, SEC.03) Well: SHOOK 3-10-1NBH Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	16.00	16.00	0.00	14.01	90.00	14.01	1.56	21.74	PASS
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	14.01	90.00	14.01	1.88	14.25	PASS
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	14.01	90.00	14.01	2.44	8.82	PASS
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	14.01	90.00	14.01	3.04	6.27	PASS
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	14.01	90.00	14.01	3.66	4.84	PASS
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	14.01	90.00	14.01	4.28	3.94	PASS
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	14.01	90.00	14.01	4.90	3.32	PASS
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	14.01	90.00	14.01	5.52	2.86	PASS
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	14.01	90.00	14.01	5.77	2.59	PASS
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	14.01	90.00	14.01	6.39	2.31	PASS
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	14.01	90.00	14.01	7.02	2.09	PASS
1116.00†	1116.00	0.00	0.00	1116.00	1116.00	0.00	14.01	90.00	14.01	7.65	1.90	PASS
1216.00†	1216.00	0.00	0.00	1216.00	1216.00	0.00	14.01	90.00	14.01	8.27	1.75	PASS
1316.00†	1316.00	0.00	0.00	1316.00	1316.00	0.00	14.01	90.00	14.01	8.90	1.61	PASS
1416.00†	1416.00	0.00	0.00	1416.00	1416.00	0.00	14.01	90.00	14.01	9.53	1.50	PASS
1516.00†	1516.00	0.00	0.00	1516.00	1516.00	0.00	14.01	90.00	14.01	10.15	1.40	PASS
1600.00	1600.00	0.00	0.00	1600.00	1600.00	0.00	14.01	90.00	14.01	10.68	1.33	PASS
1616.00†	1616.00	-0.03	-0.03	1616.00	1616.00	0.00	14.01	-137.06	14.04	10.78	1.32	PASS
1716.00†	1715.97	-1.60	-1.72	1716.03	1716.03	-0.03	13.98	-142.64	15.77	11.45	1.40	PASS
1816.00†	1815.80	-5.56	-5.95	1816.45	1816.42	-1.73	12.39	-148.74	18.74	12.32	1.55	PASS
1916.00†	1915.36	-11.89	-12.72	1916.99	1916.78	-5.99	8.39	-152.60	21.96	13.33	1.68	PASS
2016.00†	2014.54	-20.59	-22.03	2017.65	2017.00	-12.83	1.97	-154.97	25.34	14.32	1.80	PASS
2116.00†	2113.21	-31.64	-33.86	2118.43	2116.94	-22.24	-6.87	-156.34	28.83	15.28	1.92	PASS
2216.00†	2211.26	-45.04	-48.20	2219.32	2216.48	-34.23	-18.12	-157.02	32.39	16.22	2.03	PASS
2316.00†	2308.57	-60.77	-65.03	2320.34	2315.50	-48.78	-31.78	-157.22	36.03	17.14	2.14	PASS
2416.00†	2405.01	-78.81	-84.34	2421.46	2413.86	-65.89	-47.84	-157.05	39.72	18.07	2.24	PASS
2516.00†	2500.47	-99.14	-106.09	2522.71	2511.44	-85.54	-66.28	-156.61	43.47	19.01	2.33	PASS
2616.00†	2594.84	-121.73	-130.26	2624.06	2608.12	-107.72	-87.10	-155.98	47.27	20.01	2.40	PASS
2716.00†	2687.99	-146.55	-156.82	2725.52	2703.76	-132.41	-110.28	-155.18	51.14	21.06	2.47	PASS
2816.00†	2779.81	-173.58	-185.74	2827.09	2798.24	-159.58	-135.78	-154.27	55.06	22.18	2.52	PASS
2916.00†	2870.20	-202.78	-216.99	2928.77	2891.44	-189.21	-163.59	-153.26	59.04	23.42	2.56	PASS
3016.00†	2959.04	-234.11	-250.52	3030.55	2983.22	-221.26	-193.68	-152.18	63.09	24.80	2.58	PASS
3116.00†	3046.23	-267.54	-286.29	3132.42	3073.48	-255.71	-226.02	-151.04	67.20	26.33	2.59	PASS
3117.60	3047.61	-268.10	-286.88	3134.05	3074.91	-256.28	-226.55	-151.02	67.27	26.36	2.59	PASS
3216.00†	3132.52	-302.05	-323.21	3233.44	3161.45	-291.91	-260.00	-149.39	70.25	28.03	2.54	PASS
3316.00†	3218.82	-336.55	-360.13	3333.38	3248.23	-328.05	-293.92	-147.67	72.95	29.94	2.46	PASS

CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1NBH PWB Offset Wellpath: SHOOK 3-10-1NBH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W Slot: SLOT#03 SHOOK 3-10-1NBH (2058'FSL & 2259'FEL, SEC.03) Well: SHOOK 3-10-1NBH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	3433.32	3335.02	-364.19	-327.84	-146.07	75.71	32.02	2.39	PASS
3516.00†	3391.40	-405.55	-433.97	3533.26	3421.80	-400.33	-361.76	-144.58	78.52	34.24	2.32	PASS
3616.00†	3477.70	-440.05	-470.89	3633.20	3508.59	-436.46	-395.68	-143.20	81.38	36.57	2.25	PASS
3716.00†	3563.99	-474.55	-507.81	3733.15	3595.37	-472.60	-429.61	-141.91	84.29	39.01	2.18	PASS
3816.00†	3650.28	-509.05	-544.73	3833.09	3682.16	-508.74	-463.53	-140.71	87.23	41.54	2.12	PASS
3916.00†	3736.58	-543.56	-581.65	3933.03	3768.94	-544.88	-497.45	-139.59	90.21	44.14	2.06	PASS
4016.00†	3822.87	-578.06	-618.57	4032.97	3855.72	-581.02	-531.37	-138.54	93.23	46.81	2.00	PASS
4116.00†	3909.17	-612.56	-655.49	4132.91	3942.51	-617.15	-565.29	-137.56	96.27	49.54	1.95	PASS
4216.00†	3995.46	-647.06	-692.41	4232.85	4029.29	-653.29	-599.21	-136.63	99.34	52.31	1.91	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1NBH PWB Offset Wellpath: SHOOK 3-10-1NBH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#03 SHOOK 3-10-1NBH (2058'FSL & 2259'FEL, SEC.03) Well: SHOOK 3-10-1NBH Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	4332.79	4116.08	-689.43	-633.13	-135.76	102.43	55.13	1.87	PASS
4416.00†	4168.05	-716.06	-766.25	4432.73	4202.86	-725.57	-667.06	-134.95	105.55	57.98	1.83	PASS
4516.00†	4254.34	-750.56	-803.16	4532.67	4289.64	-761.71	-700.98	-134.18	108.69	60.86	1.79	PASS
4616.00†	4340.63	-785.07	-840.08	4632.61	4376.43	-797.84	-734.90	-133.45	111.84	63.78	1.76	PASS
4716.00†	4426.93	-819.57	-877.00	4732.55	4463.21	-833.98	-768.82	-132.76	115.01	66.71	1.73	PASS
4816.00†	4513.22	-854.07	-913.92	4832.49	4550.00	-870.12	-802.74	-132.11	118.20	69.67	1.70	PASS
4916.00†	4599.52	-888.57	-950.84	4932.43	4636.78	-906.26	-836.66	-131.50	121.40	72.64	1.68	PASS
5016.00†	4685.81	-923.07	-987.76	5032.37	4723.56	-942.40	-870.58	-130.91	124.62	75.63	1.65	PASS
5116.00†	4772.10	-957.57	-1024.68	5132.31	4810.35	-978.53	-904.51	-130.36	127.84	78.63	1.63	PASS
5216.00†	4858.40	-992.07	-1061.60	5232.25	4897.13	-1014.67	-938.43	-129.83	131.08	81.65	1.61	PASS
5316.00†	4944.69	-1026.58	-1098.52	5332.19	4983.92	-1050.81	-972.35	-129.33	134.33	84.68	1.59	PASS
5416.00†	5030.98	-1061.08	-1135.44	5432.13	5070.70	-1086.95	-1006.27	-128.85	137.59	87.72	1.57	PASS
5516.00†	5117.28	-1095.58	-1172.36	5532.07	5157.49	-1123.08	-1040.19	-128.40	140.86	90.76	1.56	PASS
5616.00†	5203.57	-1130.08	-1209.28	5632.01	5244.27	-1159.22	-1074.11	-127.96	144.14	93.82	1.54	PASS
5716.00†	5289.87	-1164.58	-1246.20	5731.95	5331.05	-1195.36	-1108.03	-127.55	147.42	96.88	1.52	PASS
5816.00†	5376.16	-1199.08	-1283.12	5831.89	5417.84	-1231.50	-1141.95	-127.15	150.71	99.95	1.51	PASS
5916.00†	5462.45	-1233.59	-1320.04	5931.84	5504.62	-1267.64	-1175.88	-126.77	154.01	103.02	1.50	PASS
6016.00†	5548.75	-1268.09	-1356.96	6031.78	5591.41	-1303.77	-1209.80	-126.40	157.32	106.10	1.49	PASS
6116.00†	5635.04	-1302.59	-1393.87	6131.72	5678.19	-1339.91	-1243.72	-126.05	160.63	109.18	1.47	PASS
6216.00†	5721.33	-1337.09	-1430.79	6231.66	5764.97	-1376.05	-1277.64	-125.72	163.95	112.27	1.46	PASS
6316.00†	5807.63	-1371.59	-1467.71	6331.60	5851.76	-1412.19	-1311.56	-125.40	167.27	115.36	1.45	PASS
6416.00†	5893.92	-1406.09	-1504.63	6431.54	5938.54	-1448.33	-1345.48	-125.09	170.60	118.46	1.44	PASS
6516.00†	5980.22	-1440.59	-1541.55	6531.48	6025.33	-1484.46	-1379.40	-124.79	173.93	121.56	1.43	PASS
6616.00†	6066.51	-1475.10	-1578.47	6631.42	6112.11	-1520.60	-1413.33	-124.50	177.27	124.66	1.42	PASS
6716.00†	6152.80	-1509.60	-1615.39	6731.36	6198.90	-1556.74	-1447.25	-124.23	180.61	127.76	1.42	PASS
6816.00†	6239.10	-1544.10	-1652.31	6831.30	6285.68	-1592.88	-1481.17	-123.96	183.95	130.87	1.41	PASS
6916.00†	6325.39	-1578.60	-1689.23	6931.24	6372.46	-1629.02	-1515.09	-123.70	187.30	133.97	1.40	PASS
7016.00†	6411.68	-1613.10	-1726.15	7031.18	6459.25	-1665.15	-1549.01	-123.46	190.65	137.08	1.39	PASS
7116.00†	6497.98	-1647.60	-1763.07	7131.12	6546.03	-1701.29	-1582.93	-123.22	194.01	140.20	1.39	PASS
7216.00†	6584.27	-1682.10	-1799.99	7231.06	6632.82	-1737.43	-1616.85	-122.99	197.37	143.31	1.38	PASS
7316.00†	6670.57	-1716.61	-1836.91	7331.00	6719.60	-1773.57	-1650.78	-122.76	200.73	146.42	1.37	PASS
7416.00†	6756.86	-1751.11	-1873.83	7430.94	6806.38	-1809.70	-1684.70	-122.55	204.10	149.54	1.37	PASS
7516.00†	6843.15	-1785.61	-1910.75	7530.88	6893.17	-1845.84	-1718.62	-122.34	207.47	152.66	1.36	PASS
7616.00†	6929.45	-1820.11	-1947.66	7630.82	6979.95	-1881.98	-1752.54	-122.14	210.84	155.77	1.35	PASS
7716.00†	7015.74	-1854.61	-1984.58	7730.76	7066.74	-1918.12	-1786.46	-121.94	214.21	158.89	1.35	PASS
7816.00†	7102.03	-1889.11	-2021.50	7830.70	7153.52	-1954.26	-1820.38	-121.75	217.59	162.01	1.34	PASS



CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1NBH PWB Offset Wellpath: SHOOK 3-10-1NBH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W Slot: SLOT#03 SHOOK 3-10-1NBH (2058'FSL & 2259'FEL, SEC.03) Well: SHOOK 3-10-1NBH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7916.00†	7188.33	-1923.61	-2058.42	7929.13	7238.95	-1989.96	-1853.77	-121.54	221.01	165.16	1.34	PASS
8016.00†	7274.62	-1958.12	-2095.34	8016.54	7311.58	-2029.28	-1882.12	-119.37	227.80	170.33	1.34	PASS
8085.19	7334.33	-1981.99	-2120.89	8074.38	7356.24	-2061.63	-1899.50	-116.36	236.29	175.33	1.35	PASS
8116.00†	7360.64	-1993.39	-2132.14	8099.33	7374.52	-2077.04	-1906.61	-110.61	240.95	177.09	1.36	PASS
8216.00†	7441.54	-2040.68	-2166.69	8178.78	7428.32	-2131.57	-1927.47	-95.89	256.24	180.84	1.42	PASS
8316.00†	7513.69	-2102.53	-2197.41	8256.28	7473.56	-2191.95	-1944.95	-85.68	270.82	181.51	1.49	PASS
8416.00†	7574.90	-2177.06	-2223.37	8332.29	7510.17	-2256.99	-1959.01	-78.61	283.67	179.68	1.58	PASS
8516.00†	7623.30	-2261.99	-2243.79	8407.19	7538.12	-2325.60	-1969.64	-73.82	294.04	176.00	1.67	PASS
8616.00†	7657.43	-2354.77	-2258.05	8481.31	7557.36	-2396.77	-1976.84	-70.79	301.42	171.06	1.76	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1NBH PWB Offset Wellpath: SHOOK 3-10-1NBH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#03 SHOOK 3-10-1NBH (2058'FSL & 2259'FEL, SEC.03) Well: SHOOK 3-10-1NBH Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8716.00†	7676.26	-2452.55	-2265.70	8554.97	7567.86	-2469.53	-1980.60	-69.24	305.48	165.36	1.85	PASS
8784.36	7680.00	-2520.76	-2267.01	8605.21	7570.00	-2519.70	-1981.19	-68.95	306.26	161.28	1.90	PASS
8816.00†	7680.00	-2552.39	-2266.87	8636.46	7570.00	-2550.95	-1981.03	-68.95	306.28	162.74	1.89	PASS
8916.00†	7680.00	-2652.39	-2266.43	8736.46	7570.00	-2650.95	-1980.52	-68.96	306.34	167.86	1.83	PASS
9016.00†	7680.00	-2752.39	-2265.99	8836.46	7570.00	-2750.94	-1980.02	-68.96	306.40	173.03	1.77	PASS
9116.00†	7680.00	-2852.39	-2265.55	8936.46	7570.00	-2850.94	-1979.51	-68.97	306.46	178.25	1.72	PASS
9216.00†	7680.00	-2952.39	-2265.11	9036.46	7570.00	-2950.94	-1979.00	-68.97	306.52	183.51	1.67	PASS
9316.00†	7680.00	-3052.39	-2264.67	9136.46	7570.00	-3050.94	-1978.50	-68.97	306.59	188.81	1.63	PASS
9416.00†	7680.00	-3152.39	-2264.23	9236.46	7570.00	-3150.94	-1977.99	-68.98	306.65	193.72	1.58	PASS
9516.00†	7680.00	-3252.39	-2263.79	9336.46	7570.00	-3250.94	-1977.49	-68.98	306.71	199.52	1.54	PASS
9616.00†	7680.00	-3352.39	-2263.34	9436.46	7570.00	-3350.94	-1976.98	-68.99	306.77	204.93	1.50	PASS
9716.00†	7680.00	-3452.39	-2262.90	9536.46	7570.00	-3450.94	-1976.47	-68.99	306.83	210.36	1.46	PASS
9816.00†	7680.00	-3552.38	-2262.46	9636.46	7570.00	-3550.93	-1975.97	-69.00	306.89	215.81	1.42	PASS
9916.00†	7680.00	-3652.38	-2262.02	9736.46	7570.00	-3650.93	-1975.46	-69.00	306.95	221.29	1.39	PASS
10016.00†	7680.00	-3752.38	-2261.58	9836.46	7570.00	-3750.93	-1974.95	-69.01	307.01	226.80	1.35	PASS
10116.00†	7680.00	-3852.38	-2261.14	9936.46	7570.00	-3850.93	-1974.45	-69.01	307.07	232.32	1.32	PASS
10216.00†	7680.00	-3952.38	-2260.70	10036.46	7570.00	-3950.93	-1973.94	-69.01	307.14	237.86	1.29	PASS
10316.00†	7680.00	-4052.38	-2260.26	10136.46	7570.00	-4050.93	-1973.44	-69.02	307.20	243.43	1.26	PASS
10416.00†	7680.00	-4152.38	-2259.82	10236.46	7570.00	-4150.93	-1972.93	-69.02	307.26	249.00	1.23	PASS
10516.00†	7680.00	-4252.38	-2259.38	10336.46	7570.00	-4250.92	-1972.42	-69.03	307.32	254.60	1.21	PASS
10616.00†	7680.00	-4352.38	-2258.94	10436.46	7570.00	-4350.92	-1971.92	-69.03	307.38	260.21	1.18	PASS
10716.00†	7680.00	-4452.38	-2258.50	10536.46	7570.00	-4450.92	-1971.41	-69.04	307.44	265.83	1.16	PASS
10816.00†	7680.00	-4552.37	-2258.06	10636.46	7570.00	-4550.92	-1970.91	-69.04	307.50	271.47	1.13	PASS
10916.00†	7680.00	-4652.37	-2257.61	10736.46	7570.00	-4650.92	-1970.40	-69.04	307.56	277.12	1.11	PASS
11016.00†	7680.00	-4752.37	-2257.17	10836.46	7570.00	-4750.92	-1969.89	-69.05	307.62	282.78	1.09	PASS
11116.00†	7680.00	-4852.37	-2256.73	10936.46	7570.00	-4850.92	-1969.39	-69.05	307.68	288.45	1.07	PASS
11216.00†	7680.00	-4952.37	-2256.29	11036.46	7570.00	-4950.92	-1968.88	-69.06	307.75	294.13	1.05	PASS
11316.00†	7680.00	-5052.37	-2255.85	11136.46	7570.00	-5050.91	-1968.37	-69.06	307.81	299.82	1.03	PASS
11416.00†	7680.00	-5152.37	-2255.41	11236.46	7570.00	-5150.91	-1967.87	-69.07	307.87	305.52	1.01	PASS
11516.00†	7680.00	-5252.37	-2254.97	11336.46	7570.00	-5250.91	-1967.36	-69.07	307.93	311.23	0.99	FAIL
11616.00†	7680.00	-5352.37	-2254.53	11436.46	7570.00	-5350.91	-1966.86	-69.07	307.99	316.95	0.97	FAIL
11716.00†	7680.00	-5452.37	-2254.09	11536.46	7570.00	-5450.91	-1966.35	-69.08	308.05	322.68	0.95	FAIL
11816.00†	7680.00	-5552.36	-2253.65	11636.46	7570.00	-5550.91	-1965.84	-69.08	308.11	328.41	0.94	FAIL
11916.00†	7680.00	-5652.36	-2253.21	11736.46	7570.00	-5650.91	-1965.34	-69.09	308.17	334.15	0.92	FAIL
12016.00†	7680.00	-5752.36	-2252.77	11836.46	7570.00	-5750.91	-1964.83	-69.09	308.23	339.90	0.91	FAIL
12116.00†	7680.00	-5852.36	-2252.32	11936.46	7570.00	-5850.90	-1964.32	-69.10	308.30	345.65	0.89	FAIL

CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1NBH PWB    Offset Wellpath: SHOOK 3-10-1NBH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W			Slot: SLOT#03 SHOOK 3-10-1NBH (2058'FSL & 2259'FEL, SEC.03)			Well: SHOOK 3-10-1NBH		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12216.00†	7680.00	-5952.36	-2251.88	12036.46	7570.00	-5950.90	-1963.82	-69.10	308.36	351.41	0.88	FAIL
12316.00†	7680.00	-6052.36	-2251.44	12136.46	7570.00	-6050.90	-1963.31	-69.11	308.42	357.17	0.86	FAIL
12416.00†	7680.00	-6152.36	-2251.00	12236.46	7570.00	-6150.90	-1962.81	-69.11	308.48	362.94	0.85	FAIL
12516.00†	7680.00	-6252.36	-2250.56	12336.46	7570.00	-6250.90	-1962.30	-69.11	308.54	368.72	0.84	FAIL
12616.00†	7680.00	-6352.36	-2250.12	12436.46	7570.00	-6350.90	-1961.79	-69.12	308.60	374.50	0.82	FAIL
12716.00†	7680.00	-6452.36	-2249.68	12536.46	7570.00	-6450.90	-1961.29	-69.12	308.66	380.29	0.81	FAIL
12816.00†	7680.00	-6552.36	-2249.24	12636.46	7570.00	-6550.89	-1960.78	-69.13	308.72	386.08	0.80	FAIL
12916.00†	7680.00	-6652.35	-2248.80	12736.46	7570.00	-6650.89	-1960.27	-69.13	308.78	391.87	0.79	FAIL
13016.00†	7680.00	-6752.35	-2248.36	12836.46	7570.00	-6750.89	-1959.77	-69.14	308.85	397.67	0.78	FAIL



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1NBH PWB Offset Wellpath: SHOOK 3-10-1NBH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#03 SHOOK 3-10-1NBH (2058'FSL & 2259'FEL, SEC.03) Well: SHOOK 3-10-1NBH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
13116.00†	7680.00	-6852.35	-2247.92	12936.46	7570.00	-6850.89	-1959.26	-69.14	308.91	403.48	0.77	FAIL
13144.91	7680.00	-6881.26	-2247.79	12965.37	7570.00	-6879.80	-1959.12	-69.14	308.92	405.15	0.76	FAIL

## POSITIONAL UNCERTAINTY - Offset Wellbore: SHOOK 3-10-1NBH PWB Offset Wellpath: SHOOK 3-10-1NBH 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: SHOOK 3-10-1NBH PWB Offset Wellpath: SHOOK 3-10-1NBH 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	16.00	800.00	784.00	16.00	800.00	0.00	8.54	0.00	8.54
9.625in Casing Surface	16.00	800.00	784.00	16.00	800.00	0.00	8.54	0.00	8.54
8.5in Open Hole	800.00	12966.85	12166.85	800.00	7570.00	0.00	8.54	-2097.42	-592.86
5.5in Casing Production	16.00	12966.85	12950.85	16.00	7570.00	0.00	8.54	-2097.42	-592.86

## SURVEY PROGRAM - Offset Wellbore: SHOOK 3-10-1NBH PWB Offset Wellpath: SHOOK 3-10-1NBH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	12966.85	Custom NaviTrak (Standard) (Rockies 0.03Gt model)		SHOOK 3-10-1NBH PWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: SHOOK 3-10-1NBH PWB Offset Wellpath: SHOOK 3-10-1NBH PWP (REV-A.0)

MD Reference: RIG (16'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1CDH PWB Offset Wellpath: SHOOK 3-10-1CDH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#01 SHOOK 3-10-1CDH (2058'FSL & 2289'FEL, SEC.03) Well: SHOOK 3-10-1CDH Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	16.00	16.00	0.00	-14.01	-90.00	14.01	1.56	21.74	PASS
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	-14.01	-90.00	14.01	1.88	14.25	PASS
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-14.01	-90.00	14.01	2.44	8.82	PASS
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-14.01	-90.00	14.01	3.04	6.27	PASS
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	-14.01	-90.00	14.01	3.66	4.84	PASS
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	-14.01	-90.00	14.01	4.28	3.94	PASS
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	-14.01	-90.00	14.01	4.90	3.32	PASS
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	-14.01	-90.00	14.01	5.52	2.86	PASS
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	-14.01	-90.00	14.01	5.77	2.59	PASS
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	-14.01	-90.00	14.01	6.39	2.31	PASS
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	-14.01	-90.00	14.01	7.02	2.09	PASS
1116.00†	1116.00	0.00	0.00	1116.00	1116.00	0.00	-14.01	-90.00	14.01	7.65	1.90	PASS
1216.00†	1216.00	0.00	0.00	1216.00	1216.00	0.00	-14.01	-90.00	14.01	8.27	1.75	PASS
1316.00†	1316.00	0.00	0.00	1316.00	1316.00	0.00	-14.01	-90.00	14.01	8.90	1.61	PASS
1416.00†	1416.00	0.00	0.00	1416.00	1416.00	0.00	-14.01	-90.00	14.01	9.53	1.50	PASS
1516.00†	1516.00	0.00	0.00	1515.94	1515.94	-0.03	-14.04	-90.12	14.04	10.15	1.41	PASS
1600.00	1600.00	0.00	0.00	1599.59	1599.57	-1.11	-15.34	-94.13	15.39	10.72	1.46	PASS
1616.00†	1616.00	-0.03	-0.03	1615.50	1615.47	-1.49	-15.80	37.77	15.84	10.83	1.49	PASS
1716.00†	1715.97	-1.60	-1.72	1714.93	1714.73	-5.15	-20.21	32.14	18.87	11.72	1.64	PASS
1816.00†	1815.80	-5.56	-5.95	1814.24	1813.61	-11.01	-27.25	28.58	22.10	12.74	1.77	PASS
1916.00†	1915.36	-11.89	-12.72	1913.43	1911.99	-19.04	-36.91	26.36	25.45	13.74	1.89	PASS
2016.00†	2014.54	-20.59	-22.03	2012.50	2009.77	-29.23	-49.17	25.05	28.88	14.70	2.00	PASS
2116.00†	2113.21	-31.64	-33.86	2111.45	2106.82	-41.55	-64.00	24.35	32.37	15.63	2.11	PASS
2216.00†	2211.26	-45.04	-48.20	2210.29	2203.03	-56.00	-81.38	24.10	35.89	16.54	2.21	PASS
2316.00†	2308.57	-60.77	-65.03	2309.01	2298.30	-72.54	-101.27	24.18	39.46	17.45	2.30	PASS
2416.00†	2405.01	-78.81	-84.34	2407.62	2392.51	-91.14	-123.65	24.49	43.06	18.37	2.39	PASS
2516.00†	2500.47	-99.14	-106.09	2506.12	2485.56	-111.78	-148.49	24.99	46.69	19.32	2.46	PASS
2616.00†	2594.84	-121.73	-130.26	2604.51	2577.35	-134.43	-175.73	25.64	50.35	20.34	2.52	PASS
2716.00†	2687.99	-146.55	-156.82	2702.79	2667.76	-159.05	-205.35	26.39	54.04	21.38	2.57	PASS
2816.00†	2779.81	-173.58	-185.74	2800.96	2756.71	-185.60	-237.30	27.23	57.76	22.54	2.60	PASS
2916.00†	2870.20	-202.78	-216.99	2899.03	2844.08	-214.06	-271.54	28.14	61.52	23.80	2.62	PASS
3016.00†	2959.04	-234.11	-250.52	2997.00	2929.80	-244.38	-308.01	29.11	65.32	25.20	2.63	PASS
3116.00†	3046.23	-267.54	-286.29	3096.10	3015.10	-276.61	-346.79	30.36	68.63	26.81	2.59	PASS
3117.60	3047.61	-268.10	-286.88	3097.69	3016.48	-277.13	-347.42	30.39	68.66	26.84	2.59	PASS
3216.00†	3132.52	-302.05	-323.21	3196.05	3101.01	-309.28	-386.09	32.18	70.70	28.64	2.50	PASS
3316.00†	3218.82	-336.55	-360.13	3296.00	3186.91	-341.95	-425.39	33.89	72.84	30.64	2.40	PASS

CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1CDH PWB Offset Wellpath: SHOOK 3-10-1CDH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W Slot: SLOT#01 SHOOK 3-10-1CDH (2058'FSL & 2289'FEL, SEC.03) Well: SHOOK 3-10-1CDH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	3395.96	3272.81	-374.61	-464.69	35.51	75.04	32.80	2.31	PASS
3516.00†	3391.40	-405.55	-433.97	3495.91	3358.71	-407.28	-503.99	37.03	77.29	35.11	2.22	PASS
3616.00†	3477.70	-440.05	-470.89	3595.87	3444.61	-439.95	-543.29	38.47	79.60	37.54	2.14	PASS
3716.00†	3563.99	-474.55	-507.81	3695.82	3530.52	-472.62	-582.59	39.83	81.95	40.08	2.06	PASS
3816.00†	3650.28	-509.05	-544.73	3795.77	3616.42	-505.28	-621.89	41.11	84.35	42.71	1.99	PASS
3916.00†	3736.58	-543.56	-581.65	3895.73	3702.32	-537.95	-661.19	42.31	86.78	45.43	1.92	PASS
4016.00†	3822.87	-578.06	-618.57	3995.68	3788.22	-570.62	-700.49	43.45	89.26	48.22	1.86	PASS
4116.00†	3909.17	-612.56	-655.49	4095.64	3874.12	-603.28	-739.79	44.53	91.76	51.07	1.81	PASS
4216.00†	3995.46	-647.06	-692.41	4195.59	3960.03	-635.95	-779.09	45.55	94.30	53.97	1.76	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1CDH PWB Offset Wellpath: SHOOK 3-10-1CDH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#01 SHOOK 3-10-1CDH (2058'FSL & 2289'FEL, SEC.03) Well: SHOOK 3-10-1CDH Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	4295.54	4045.93	-668.62	-818.39	46.52	96.87	56.92	1.71	PASS
4416.00†	4168.05	-716.06	-766.25	4395.50	4131.83	-701.29	-857.69	47.44	99.46	59.91	1.67	PASS
4516.00†	4254.34	-750.56	-803.16	4495.45	4217.73	-733.95	-896.99	48.31	102.07	62.93	1.63	PASS
4616.00†	4340.63	-785.07	-840.08	4595.41	4303.64	-766.62	-936.29	49.14	104.71	65.99	1.59	PASS
4716.00†	4426.93	-819.57	-877.00	4695.36	4389.54	-799.29	-975.59	49.92	107.37	69.07	1.56	PASS
4816.00†	4513.22	-854.07	-913.92	4795.31	4475.44	-831.96	-1014.89	50.67	110.05	72.18	1.53	PASS
4916.00†	4599.52	-888.57	-950.84	4895.27	4561.34	-864.62	-1054.19	51.38	112.75	75.30	1.50	PASS
5016.00†	4685.81	-923.07	-987.76	4995.22	4647.24	-897.29	-1093.49	52.06	115.46	78.45	1.48	PASS
5116.00†	4772.10	-957.57	-1024.68	5095.18	4733.15	-929.96	-1132.79	52.71	118.19	81.61	1.45	PASS
5216.00†	4858.40	-992.07	-1061.60	5195.13	4819.05	-962.62	-1172.09	53.33	120.93	84.78	1.43	PASS
5316.00†	4944.69	-1026.58	-1098.52	5295.08	4904.95	-995.29	-1211.39	53.92	123.69	87.97	1.41	PASS
5416.00†	5030.98	-1061.08	-1135.44	5395.04	4990.85	-1027.96	-1250.69	54.49	126.45	91.17	1.39	PASS
5516.00†	5117.28	-1095.58	-1172.36	5494.99	5076.75	-1060.63	-1289.99	55.03	129.24	94.37	1.37	PASS
5616.00†	5203.57	-1130.08	-1209.28	5594.95	5162.66	-1093.29	-1329.29	55.54	132.03	97.59	1.36	PASS
5716.00†	5289.87	-1164.58	-1246.20	5694.90	5248.56	-1125.96	-1368.59	56.04	134.83	100.81	1.34	PASS
5816.00†	5376.16	-1199.08	-1283.12	5794.86	5334.46	-1158.63	-1407.89	56.52	137.64	104.04	1.32	PASS
5916.00†	5462.45	-1233.59	-1320.04	5894.81	5420.36	-1191.30	-1447.19	56.97	140.46	107.28	1.31	PASS
6016.00†	5548.75	-1268.09	-1356.96	5994.76	5506.26	-1223.96	-1486.49	57.41	143.29	110.52	1.30	PASS
6116.00†	5635.04	-1302.59	-1393.87	6094.72	5592.17	-1256.63	-1525.79	57.84	146.13	113.76	1.29	PASS
6216.00†	5721.33	-1337.09	-1430.79	6194.67	5678.07	-1289.30	-1565.09	58.24	148.97	117.01	1.27	PASS
6316.00†	5807.63	-1371.59	-1467.71	6294.63	5763.97	-1321.96	-1604.39	58.63	151.82	120.26	1.26	PASS
6416.00†	5893.92	-1406.09	-1504.63	6394.58	5849.87	-1354.63	-1643.69	59.01	154.68	123.52	1.25	PASS
6516.00†	5980.22	-1440.59	-1541.55	6494.53	5935.77	-1387.30	-1682.99	59.37	157.55	126.78	1.24	PASS
6616.00†	6066.51	-1475.10	-1578.47	6594.49	6021.68	-1419.97	-1722.29	59.72	160.42	130.04	1.23	PASS
6716.00†	6152.80	-1509.60	-1615.39	6694.44	6107.58	-1452.63	-1761.59	60.06	163.30	133.31	1.23	PASS
6816.00†	6239.10	-1544.10	-1652.31	6794.40	6193.48	-1485.30	-1800.89	60.38	166.18	136.57	1.22	PASS
6916.00†	6325.39	-1578.60	-1689.23	6894.35	6279.38	-1517.97	-1840.20	60.70	169.07	139.84	1.21	PASS
7016.00†	6411.68	-1613.10	-1726.15	6994.30	6365.28	-1550.64	-1879.50	61.00	171.96	143.11	1.20	PASS
7116.00†	6497.98	-1647.60	-1763.07	7094.26	6451.19	-1583.30	-1918.80	61.30	174.86	146.38	1.20	PASS
7216.00†	6584.27	-1682.10	-1799.99	7194.21	6537.09	-1615.97	-1958.10	61.58	177.76	149.66	1.19	PASS
7316.00†	6670.57	-1716.61	-1836.91	7294.17	6622.99	-1648.64	-1997.40	61.86	180.67	152.93	1.18	PASS
7416.00†	6756.86	-1751.11	-1873.83	7394.12	6708.89	-1681.30	-2036.70	62.12	183.58	156.20	1.18	PASS
7516.00†	6843.15	-1785.61	-1910.75	7494.07	6794.79	-1713.97	-2076.00	62.38	186.49	159.48	1.17	PASS
7616.00†	6929.45	-1820.11	-1947.66	7594.03	6880.70	-1746.64	-2115.30	62.63	189.41	162.76	1.16	PASS
7716.00†	7015.74	-1854.61	-1984.58	7693.98	6966.60	-1779.31	-2154.60	62.87	192.33	166.03	1.16	PASS
7816.00†	7102.03	-1889.11	-2021.50	7793.94	7052.50	-1811.97	-2193.90	63.11	195.25	169.31	1.15	PASS



CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1CDH PWB Offset Wellpath: SHOOK 3-10-1CDH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W Slot: SLOT#01 SHOOK 3-10-1CDH (2058'FSL & 2289'FEL, SEC.03) Well: SHOOK 3-10-1CDH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7916.00†	7188.33	-1923.61	-2058.42	7893.89	7138.40	-1844.64	-2233.20	63.34	198.18	172.59	1.15	PASS
8016.00†	7274.62	-1958.12	-2095.34	7993.84	7224.30	-1877.31	-2272.50	63.56	201.11	175.87	1.14	PASS
8085.19	7334.33	-1981.99	-2120.89	8063.01	7283.74	-1899.91	-2299.69	63.71	203.14	178.13	1.14	PASS
8116.00†	7360.64	-1993.39	-2132.14	8093.77	7310.18	-1909.97	-2311.79	67.71	204.40	179.43	1.14	PASS
8216.00†	7441.54	-2040.68	-2166.69	8192.33	7394.89	-1942.18	-2350.54	79.83	213.73	187.05	1.14	PASS
8316.00†	7513.69	-2102.53	-2197.41	8286.63	7475.93	-1973.00	-2387.62	90.82	233.20	197.45	1.18	PASS
8416.00†	7574.90	-2177.06	-2223.37	8407.05	7576.11	-2021.15	-2433.40	101.79	261.57	205.59	1.27	PASS
8516.00†	7623.30	-2261.99	-2243.79	8549.50	7679.84	-2105.96	-2480.66	110.13	289.22	204.74	1.41	PASS
8616.00†	7657.43	-2354.77	-2258.05	8710.72	7770.29	-2232.30	-2521.64	115.77	311.79	193.90	1.61	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1CDH PWB Offset Wellpath: SHOOK 3-10-1CDH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#01 SHOOK 3-10-1CDH (2058'FSL & 2289'FEL, SEC.03) Well: SHOOK 3-10-1CDH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8716.00†	7676.26	-2452.55	-2265.70	8888.39	7828.77	-2397.27	-2547.77	118.81	325.39	171.63	1.90	PASS
8784.36	7680.00	-2520.76	-2267.01	9014.09	7841.00	-2522.01	-2552.83	119.39	328.05	152.49	2.16	PASS
8816.00†	7680.00	-2552.39	-2266.87	9045.73	7841.00	-2553.65	-2552.69	119.39	328.05	153.98	2.13	PASS
8916.00†	7680.00	-2652.39	-2266.43	9145.73	7841.00	-2653.65	-2552.25	119.39	328.05	158.66	2.07	PASS
9016.00†	7680.00	-2752.39	-2265.99	9245.73	7841.00	-2753.65	-2551.81	119.39	328.05	163.40	2.01	PASS
9116.00†	7680.00	-2852.39	-2265.55	9345.73	7841.00	-2853.65	-2551.38	119.39	328.05	168.20	1.95	PASS
9216.00†	7680.00	-2952.39	-2265.11	9445.73	7841.00	-2953.65	-2550.94	119.39	328.05	171.95	1.91	PASS
9316.00†	7680.00	-3052.39	-2264.67	9545.73	7841.00	-3053.65	-2550.50	119.39	328.06	177.92	1.85	PASS
9416.00†	7680.00	-3152.39	-2264.23	9645.73	7841.00	-3153.64	-2550.06	119.39	328.06	182.84	1.80	PASS
9516.00†	7680.00	-3252.39	-2263.79	9745.73	7841.00	-3253.64	-2549.62	119.39	328.06	187.81	1.75	PASS
9616.00†	7680.00	-3352.39	-2263.34	9845.73	7841.00	-3353.64	-2549.18	119.39	328.06	192.80	1.70	PASS
9716.00†	7680.00	-3452.39	-2262.90	9945.73	7841.00	-3453.64	-2548.74	119.39	328.06	197.83	1.66	PASS
9816.00†	7680.00	-3552.38	-2262.46	10045.73	7841.00	-3553.64	-2548.30	119.39	328.06	202.88	1.62	PASS
9916.00†	7680.00	-3652.38	-2262.02	10145.73	7841.00	-3653.64	-2547.86	119.39	328.06	207.96	1.58	PASS
10016.00†	7680.00	-3752.38	-2261.58	10245.73	7841.00	-3753.64	-2547.42	119.39	328.06	213.07	1.54	PASS
10116.00†	7680.00	-3852.38	-2261.14	10345.73	7841.00	-3853.64	-2546.98	119.39	328.06	218.20	1.50	PASS
10216.00†	7680.00	-3952.38	-2260.70	10445.73	7841.00	-3953.64	-2546.54	119.39	328.06	223.35	1.47	PASS
10316.00†	7680.00	-4052.38	-2260.26	10545.73	7841.00	-4053.64	-2546.10	119.39	328.07	228.53	1.44	PASS
10416.00†	7680.00	-4152.38	-2259.82	10645.73	7841.00	-4153.64	-2545.66	119.39	328.07	233.72	1.40	PASS
10516.00†	7680.00	-4252.38	-2259.38	10745.73	7841.00	-4253.63	-2545.22	119.39	328.07	238.93	1.37	PASS
10616.00†	7680.00	-4352.38	-2258.94	10845.73	7841.00	-4353.63	-2544.78	119.39	328.07	244.15	1.34	PASS
10716.00†	7680.00	-4452.38	-2258.50	10945.73	7841.00	-4453.63	-2544.34	119.39	328.07	249.39	1.32	PASS
10816.00†	7680.00	-4552.37	-2258.06	11045.73	7841.00	-4553.63	-2543.90	119.39	328.07	254.65	1.29	PASS
10916.00†	7680.00	-4652.37	-2257.61	11145.73	7841.00	-4653.63	-2543.46	119.39	328.07	259.91	1.26	PASS
11016.00†	7680.00	-4752.37	-2257.17	11245.73	7841.00	-4753.63	-2543.02	119.39	328.07	265.20	1.24	PASS
11116.00†	7680.00	-4852.37	-2256.73	11345.73	7841.00	-4853.63	-2542.58	119.39	328.07	270.49	1.21	PASS
11216.00†	7680.00	-4952.37	-2256.29	11445.73	7841.00	-4953.63	-2542.14	119.39	328.07	275.79	1.19	PASS
11316.00†	7680.00	-5052.37	-2255.85	11545.73	7841.00	-5053.63	-2541.70	119.39	328.08	281.11	1.17	PASS
11416.00†	7680.00	-5152.37	-2255.41	11645.73	7841.00	-5153.63	-2541.26	119.39	328.08	286.43	1.15	PASS
11516.00†	7680.00	-5252.37	-2254.97	11745.73	7841.00	-5253.62	-2540.82	119.39	328.08	291.77	1.12	PASS
11616.00†	7680.00	-5352.37	-2254.53	11845.73	7841.00	-5353.62	-2540.38	119.39	328.08	297.11	1.10	PASS
11716.00†	7680.00	-5452.37	-2254.09	11945.73	7841.00	-5453.62	-2539.94	119.39	328.08	302.47	1.08	PASS
11816.00†	7680.00	-5552.36	-2253.65	12045.73	7841.00	-5553.62	-2539.50	119.39	328.08	307.83	1.07	PASS
11916.00†	7680.00	-5652.36	-2253.21	12145.73	7841.00	-5653.62	-2539.06	119.39	328.08	313.19	1.05	PASS
12016.00†	7680.00	-5752.36	-2252.77	12245.73	7841.00	-5753.62	-2538.63	119.39	328.08	318.57	1.03	PASS
12116.00†	7680.00	-5852.36	-2252.32	12345.73	7841.00	-5853.62	-2538.19	119.39	328.08	323.95	1.01	PASS

CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1CDH PWB    Offset Wellpath: SHOOK 3-10-1CDH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W			Slot: SLOT#01 SHOOK 3-10-1CDH (2058'FSL & 2289'FEL, SEC.03)			Well: SHOOK 3-10-1CDH		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12216.00†	7680.00	-5952.36	-2251.88	12445.73	7841.00	-5953.62	-2537.75	119.39	328.08	329.34	1.00	FAIL
12316.00†	7680.00	-6052.36	-2251.44	12545.73	7841.00	-6053.62	-2537.31	119.39	328.09	334.74	0.98	FAIL
12416.00†	7680.00	-6152.36	-2251.00	12645.73	7841.00	-6153.62	-2536.87	119.39	328.09	340.14	0.96	FAIL
12516.00†	7680.00	-6252.36	-2250.56	12745.73	7841.00	-6253.61	-2536.43	119.39	328.09	345.55	0.95	FAIL
12616.00†	7680.00	-6352.36	-2250.12	12845.73	7841.00	-6353.61	-2535.99	119.39	328.09	350.96	0.93	FAIL
12716.00†	7680.00	-6452.36	-2249.68	12945.73	7841.00	-6453.61	-2535.55	119.39	328.09	356.38	0.92	FAIL
12816.00†	7680.00	-6552.36	-2249.24	13045.73	7841.00	-6553.61	-2535.11	119.39	328.09	361.80	0.91	FAIL
12916.00†	7680.00	-6652.35	-2248.80	13145.73	7841.00	-6653.61	-2534.67	119.39	328.09	367.23	0.89	FAIL
13016.00†	7680.00	-6752.35	-2248.36	13245.73	7841.00	-6753.61	-2534.23	119.39	328.09	372.66	0.88	FAIL



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1CDH PWB Offset Wellpath: SHOOK 3-10-1CDH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#01 SHOOK 3-10-1CDH (2058'FSL & 2289'FEL, SEC.03) Well: SHOOK 3-10-1CDH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
13116.00†	7680.00	-6852.35	-2247.92	13345.73	7841.00	-6853.61	-2533.79	119.39	328.09	378.09	0.87	FAIL
13144.91	7680.00	-6881.26	-2247.79	13373.35	7841.00	-6881.23	-2533.67	119.39	328.10	380.22	0.86	FAIL

## POSITIONAL UNCERTAINTY - Offset Wellbore: SHOOK 3-10-1CDH PWB Offset Wellpath: SHOOK 3-10-1CDH 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: SHOOK 3-10-1CDH PWB Offset Wellpath: SHOOK 3-10-1CDH 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	16.00	800.00	784.00	16.00	800.00	0.00	-8.54	0.00	-8.54
9.625in Casing Surface	16.00	800.00	784.00	16.00	800.00	0.00	-8.54	0.00	-8.54
8.5in Open Hole	800.00	13373.35	12573.35	800.00	7841.00	0.00	-8.54	-2097.40	-776.53
5.5in Casing Production	16.00	13373.35	13357.35	16.00	7841.00	0.00	-8.54	-2097.40	-776.53

## SURVEY PROGRAM - Offset Wellbore: SHOOK 3-10-1CDH PWB Offset Wellpath: SHOOK 3-10-1CDH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	13373.35	Custom NaviTrak (Standard) (Rockies 0.03Gt model)		SHOOK 3-10-1CDH PWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: SHOOK 3-10-1CDH PWB Offset Wellpath: SHOOK 3-10-1CDH PWP (REV-A.0)

MD Reference: RIG (16'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-2CDH PWB Offset Wellpath: SHOOK 3-10-2CDH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#04 SHOOK 3-10-2CDH (2058'FSL & 2244'FEL, SEC.03) Well: SHOOK 3-10-2CDH Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	16.00	16.00	0.00	30.82	90.00	30.82	1.56	49.76	PASS
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	30.82	90.00	30.82	1.88	32.62	PASS
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	30.82	90.00	30.82	2.44	20.18	PASS
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	30.82	90.00	30.82	3.04	14.35	PASS
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	30.82	90.00	30.82	3.66	11.08	PASS
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	30.82	90.00	30.82	4.28	9.01	PASS
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	30.82	90.00	30.82	4.90	7.59	PASS
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	30.82	90.00	30.82	5.52	6.55	PASS
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	30.82	90.00	30.82	5.77	5.83	PASS
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	30.82	90.00	30.82	6.39	5.20	PASS
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	30.82	90.00	30.82	7.02	4.70	PASS
1116.00†	1116.00	0.00	0.00	1116.00	1116.00	0.00	30.82	90.00	30.82	7.65	4.28	PASS
1216.00†	1216.00	0.00	0.00	1216.00	1216.00	0.00	30.82	90.00	30.82	8.27	3.93	PASS
1316.00†	1316.00	0.00	0.00	1316.00	1316.00	0.00	30.82	90.00	30.82	8.90	3.64	PASS
1416.00†	1416.00	0.00	0.00	1416.00	1416.00	0.00	30.82	90.00	30.82	9.53	3.38	PASS
1516.00†	1516.00	0.00	0.00	1516.00	1516.00	0.00	30.82	90.00	30.82	10.15	3.16	PASS
1600.00	1600.00	0.00	0.00	1600.00	1600.00	0.00	30.82	90.00	30.82	10.68	2.99	PASS
1616.00†	1616.00	-0.03	-0.03	1616.00	1616.00	0.00	30.82	-137.00	30.85	10.78	2.97	PASS
1716.00†	1715.97	-1.60	-1.72	1715.97	1715.97	0.00	30.82	-139.74	32.58	11.45	2.94	PASS
1816.00†	1815.80	-5.56	-5.95	1815.95	1815.95	-0.03	30.79	-145.42	37.15	12.26	3.13	PASS
1916.00†	1915.36	-11.89	-12.72	1916.79	1916.76	-1.85	29.32	-150.32	43.25	13.13	3.40	PASS
2016.00†	2014.54	-20.59	-22.03	2017.88	2017.67	-6.43	25.60	-153.49	49.79	14.12	3.64	PASS
2116.00†	2113.21	-31.64	-33.86	2119.20	2118.54	-13.79	19.62	-155.45	56.64	15.08	3.87	PASS
2216.00†	2211.26	-45.04	-48.20	2220.75	2219.24	-23.94	11.38	-156.58	63.71	16.03	4.09	PASS
2316.00†	2308.57	-60.77	-65.03	2322.54	2319.65	-36.89	0.86	-157.10	70.96	16.96	4.30	PASS
2416.00†	2405.01	-78.81	-84.34	2424.56	2419.62	-52.64	-11.93	-157.18	78.37	17.89	4.49	PASS
2516.00†	2500.47	-99.14	-106.09	2526.80	2519.03	-71.18	-26.99	-156.92	85.92	18.84	4.67	PASS
2616.00†	2594.84	-121.73	-130.26	2629.26	2617.72	-92.52	-44.31	-156.42	93.61	19.82	4.84	PASS
2716.00†	2687.99	-146.55	-156.82	2731.93	2715.58	-116.63	-63.90	-155.72	101.45	20.89	4.97	PASS
2816.00†	2779.81	-173.58	-185.74	2834.81	2812.45	-143.51	-85.72	-154.87	109.42	22.01	5.08	PASS
2916.00†	2870.20	-202.78	-216.99	2937.89	2908.21	-173.13	-109.78	-153.90	117.55	23.20	5.17	PASS
3016.00†	2959.04	-234.11	-250.52	3041.18	3002.71	-205.47	-136.04	-152.84	125.82	24.56	5.22	PASS
3116.00†	3046.23	-267.54	-286.29	3144.65	3095.82	-240.50	-164.49	-151.71	134.26	26.06	5.25	PASS
3117.60	3047.61	-268.10	-286.88	3146.31	3097.30	-241.08	-164.96	-151.69	134.40	26.08	5.25	PASS
3216.00†	3132.52	-302.05	-323.21	3244.65	3184.86	-275.84	-193.19	-150.66	142.59	27.62	5.25	PASS
3316.00†	3218.82	-336.55	-360.13	3344.27	3273.55	-311.06	-221.79	-149.72	150.94	29.29	5.24	PASS

CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-2CDH PWB Offset Wellpath: SHOOK 3-10-2CDH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W Slot: SLOT#04 SHOOK 3-10-2CDH (2058'FSL & 2244'FEL, SEC.03) Well: SHOOK 3-10-2CDH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	3443.90	3362.24	-346.27	-250.39	-148.89	159.33	31.07	5.21	PASS
3516.00†	3391.40	-405.55	-433.97	3543.52	3450.93	-381.49	-278.99	-148.14	167.75	32.93	5.17	PASS
3616.00†	3477.70	-440.05	-470.89	3643.14	3539.62	-416.71	-307.59	-147.46	176.20	34.86	5.12	PASS
3716.00†	3563.99	-474.55	-507.81	3742.76	3628.32	-451.92	-336.19	-146.84	184.67	36.86	5.07	PASS
3816.00†	3650.28	-509.05	-544.73	3842.38	3717.01	-487.14	-364.79	-146.28	193.16	38.91	5.02	PASS
3916.00†	3736.58	-543.56	-581.65	3942.00	3805.70	-522.36	-393.39	-145.76	201.66	41.01	4.97	PASS
4016.00†	3822.87	-578.06	-618.57	4041.63	3894.39	-557.57	-421.99	-145.29	210.18	43.14	4.93	PASS
4116.00†	3909.17	-612.56	-655.49	4141.25	3983.09	-592.79	-450.59	-144.85	218.72	45.31	4.88	PASS
4216.00†	3995.46	-647.06	-692.41	4240.87	4071.78	-628.01	-479.19	-144.45	227.26	47.51	4.83	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-2CDH PWB Offset Wellpath: SHOOK 3-10-2CDH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#04 SHOOK 3-10-2CDH (2058'FSL & 2244'FEL, SEC.03) Well: SHOOK 3-10-2CDH Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	4340.49	4160.47	-663.23	-507.79	-144.07	235.82	49.74	4.79	PASS
4416.00†	4168.05	-716.06	-766.25	4440.11	4249.16	-698.44	-536.39	-143.72	244.38	51.99	4.74	PASS
4516.00†	4254.34	-750.56	-803.16	4539.74	4337.86	-733.66	-564.99	-143.40	252.96	54.26	4.70	PASS
4616.00†	4340.63	-785.07	-840.08	4639.36	4426.55	-768.88	-593.59	-143.10	261.54	56.55	4.66	PASS
4716.00†	4426.93	-819.57	-877.00	4738.98	4515.24	-804.09	-622.19	-142.81	270.12	58.85	4.63	PASS
4816.00†	4513.22	-854.07	-913.92	4838.60	4603.93	-839.31	-650.79	-142.54	278.72	61.17	4.59	PASS
4916.00†	4599.52	-888.57	-950.84	4938.22	4692.63	-874.53	-679.39	-142.29	287.32	63.51	4.56	PASS
5016.00†	4685.81	-923.07	-987.76	5037.85	4781.32	-909.74	-707.99	-142.06	295.92	65.85	4.53	PASS
5116.00†	4772.10	-957.57	-1024.68	5137.47	4870.01	-944.96	-736.59	-141.83	304.53	68.20	4.49	PASS
5216.00†	4858.40	-992.07	-1061.60	5237.09	4958.70	-980.18	-765.19	-141.62	313.14	70.57	4.47	PASS
5316.00†	4944.69	-1026.58	-1098.52	5336.71	5047.39	-1015.39	-793.79	-141.42	321.76	72.94	4.44	PASS
5416.00†	5030.98	-1061.08	-1135.44	5436.33	5136.09	-1050.61	-822.39	-141.24	330.38	75.32	4.41	PASS
5516.00†	5117.28	-1095.58	-1172.36	5535.96	5224.78	-1085.83	-850.99	-141.06	339.01	77.70	4.39	PASS
5616.00†	5203.57	-1130.08	-1209.28	5635.58	5313.47	-1121.04	-879.59	-140.89	347.64	80.10	4.36	PASS
5716.00†	5289.87	-1164.58	-1246.20	5735.20	5402.16	-1156.26	-908.19	-140.72	356.27	82.50	4.34	PASS
5816.00†	5376.16	-1199.08	-1283.12	5834.82	5490.86	-1191.48	-936.79	-140.57	364.90	84.90	4.32	PASS
5916.00†	5462.45	-1233.59	-1320.04	5934.44	5579.55	-1226.70	-965.39	-140.42	373.54	87.31	4.30	PASS
6016.00†	5548.75	-1268.09	-1356.96	6034.06	5668.24	-1261.91	-993.99	-140.28	382.17	89.72	4.28	PASS
6116.00†	5635.04	-1302.59	-1393.87	6133.69	5756.93	-1297.13	-1022.59	-140.15	390.81	92.14	4.26	PASS
6216.00†	5721.33	-1337.09	-1430.79	6233.31	5845.63	-1332.35	-1051.19	-140.02	399.46	94.56	4.24	PASS
6316.00†	5807.63	-1371.59	-1467.71	6332.93	5934.32	-1367.56	-1079.79	-139.89	408.10	96.99	4.23	PASS
6416.00†	5893.92	-1406.09	-1504.63	6432.55	6023.01	-1402.78	-1108.39	-139.78	416.75	99.42	4.21	PASS
6516.00†	5980.22	-1440.59	-1541.55	6532.17	6111.70	-1438.00	-1136.99	-139.66	425.40	101.85	4.20	PASS
6616.00†	6066.51	-1475.10	-1578.47	6631.80	6200.39	-1473.21	-1165.59	-139.55	434.05	104.28	4.18	PASS
6716.00†	6152.80	-1509.60	-1615.39	6731.42	6289.09	-1508.43	-1194.20	-139.45	442.70	106.72	4.17	PASS
6816.00†	6239.10	-1544.10	-1652.31	6831.04	6377.78	-1543.65	-1222.80	-139.35	451.35	109.16	4.15	PASS
6916.00†	6325.39	-1578.60	-1689.23	6930.66	6466.47	-1578.86	-1251.40	-139.25	460.00	111.60	4.14	PASS
7016.00†	6411.68	-1613.10	-1726.15	7030.28	6555.16	-1614.08	-1280.00	-139.16	468.66	114.05	4.13	PASS
7116.00†	6497.98	-1647.60	-1763.07	7129.91	6643.86	-1649.30	-1308.60	-139.07	477.31	116.49	4.11	PASS
7216.00†	6584.27	-1682.10	-1799.99	7229.53	6732.55	-1684.51	-1337.20	-138.98	485.97	118.94	4.10	PASS
7316.00†	6670.57	-1716.61	-1836.91	7329.15	6821.24	-1719.73	-1365.80	-138.90	494.63	121.39	4.09	PASS
7416.00†	6756.86	-1751.11	-1873.83	7428.77	6909.93	-1754.95	-1394.40	-138.82	503.29	123.85	4.08	PASS
7516.00†	6843.15	-1785.61	-1910.75	7528.39	6998.63	-1790.17	-1423.00	-138.74	511.95	126.30	4.07	PASS
7616.00†	6929.45	-1820.11	-1947.66	7628.02	7087.32	-1825.38	-1451.60	-138.66	520.61	128.76	4.06	PASS
7716.00†	7015.74	-1854.61	-1984.58	7727.64	7176.01	-1860.60	-1480.20	-138.59	529.27	131.21	4.05	PASS
7816.00†	7102.03	-1889.11	-2021.50	7827.26	7264.70	-1895.82	-1508.80	-138.52	537.94	133.67	4.04	PASS



CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-2CDH PWB    Offset Wellpath: SHOOK 3-10-2CDH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W			Slot: SLOT#04 SHOOK 3-10-2CDH (2058'FSL & 2244'FEL, SEC.03)			Well: SHOOK 3-10-2CDH		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7916.00†	7188.33	-1923.61	-2058.42	7926.88	7353.40	-1931.03	-1537.40	-138.45	546.60	136.13	4.03	PASS
8016.00†	7274.62	-1958.12	-2095.34	8026.50	7442.09	-1966.25	-1566.00	-138.39	555.26	138.59	4.02	PASS
8085.19	7334.33	-1981.99	-2120.89	8095.06	7503.02	-1990.75	-1585.64	-138.31	561.27	140.35	4.01	PASS
8116.00†	7360.64	-1993.39	-2132.14	8125.06	7529.11	-2002.96	-1594.05	-134.09	563.93	141.32	4.00	PASS
8216.00†	7441.54	-2040.68	-2166.69	8222.12	7608.73	-2051.98	-1619.65	-123.56	572.13	144.79	3.96	PASS
8316.00†	7513.69	-2102.53	-2197.41	8318.73	7679.07	-2114.07	-1642.18	-116.55	579.45	148.76	3.91	PASS
8416.00†	7574.90	-2177.06	-2223.37	8414.99	7738.32	-2187.40	-1661.06	-111.83	585.67	153.04	3.84	PASS
8516.00†	7623.30	-2261.99	-2243.79	8511.01	7784.99	-2269.88	-1675.83	-108.68	590.58	157.52	3.76	PASS
8616.00†	7657.43	-2354.77	-2258.05	8606.88	7817.88	-2359.22	-1686.10	-106.72	594.05	162.12	3.67	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-2CDH PWB Offset Wellpath: SHOOK 3-10-2CDH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#04 SHOOK 3-10-2CDH (2058'FSL & 2244'FEL, SEC.03) Well: SHOOK 3-10-2CDH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8716.00†	7676.26	-2452.55	-2265.70	8702.67	7836.17	-2452.98	-1691.61	-105.73	595.95	166.74	3.58	PASS
8784.36	7680.00	-2520.76	-2267.01	8768.17	7839.99	-2518.32	-1692.56	-105.56	596.32	169.87	3.52	PASS
8816.00†	7680.00	-2552.39	-2266.87	8799.70	7840.00	-2549.85	-1692.42	-105.56	596.32	171.57	3.48	PASS
8916.00†	7680.00	-2652.39	-2266.43	8899.70	7840.00	-2649.85	-1691.98	-105.56	596.32	177.02	3.38	PASS
9016.00†	7680.00	-2752.39	-2265.99	8999.70	7840.00	-2749.85	-1691.54	-105.56	596.32	182.53	3.27	PASS
9116.00†	7680.00	-2852.39	-2265.55	9099.70	7840.00	-2849.85	-1691.09	-105.56	596.33	188.07	3.18	PASS
9216.00†	7680.00	-2952.39	-2265.11	9199.70	7840.00	-2949.84	-1690.65	-105.56	596.33	193.64	3.09	PASS
9316.00†	7680.00	-3052.39	-2264.67	9299.70	7840.00	-3049.84	-1690.21	-105.56	596.33	199.23	3.00	PASS
9416.00†	7680.00	-3152.39	-2264.23	9399.70	7840.00	-3149.84	-1689.76	-105.56	596.33	204.86	2.92	PASS
9516.00†	7680.00	-3252.39	-2263.79	9499.70	7840.00	-3249.84	-1689.32	-105.56	596.34	210.77	2.83	PASS
9616.00†	7680.00	-3352.39	-2263.34	9599.70	7840.00	-3349.84	-1688.88	-105.56	596.34	216.19	2.76	PASS
9716.00†	7680.00	-3452.39	-2262.90	9699.70	7840.00	-3449.84	-1688.43	-105.56	596.34	221.88	2.69	PASS
9816.00†	7680.00	-3552.38	-2262.46	9799.70	7840.00	-3549.84	-1687.99	-105.56	596.34	227.60	2.62	PASS
9916.00†	7680.00	-3652.38	-2262.02	9899.70	7840.00	-3649.84	-1687.55	-105.56	596.34	233.33	2.56	PASS
10016.00†	7680.00	-3752.38	-2261.58	9999.70	7840.00	-3749.84	-1687.11	-105.56	596.35	239.08	2.50	PASS
10116.00†	7680.00	-3852.38	-2261.14	10099.70	7840.00	-3849.84	-1686.66	-105.56	596.35	244.84	2.44	PASS
10216.00†	7680.00	-3952.38	-2260.70	10199.70	7840.00	-3949.83	-1686.22	-105.56	596.35	250.62	2.38	PASS
10316.00†	7680.00	-4052.38	-2260.26	10299.70	7840.00	-4049.83	-1685.78	-105.56	596.35	256.42	2.33	PASS
10416.00†	7680.00	-4152.38	-2259.82	10399.70	7840.00	-4149.83	-1685.33	-105.56	596.36	262.22	2.28	PASS
10516.00†	7680.00	-4252.38	-2259.38	10499.70	7840.00	-4249.83	-1684.89	-105.56	596.36	268.04	2.23	PASS
10616.00†	7680.00	-4352.38	-2258.94	10599.70	7840.00	-4349.83	-1684.45	-105.56	596.36	273.87	2.18	PASS
10716.00†	7680.00	-4452.38	-2258.50	10699.70	7840.00	-4449.83	-1684.00	-105.56	596.36	279.71	2.13	PASS
10816.00†	7680.00	-4552.37	-2258.06	10799.70	7840.00	-4549.83	-1683.56	-105.56	596.36	285.55	2.09	PASS
10916.00†	7680.00	-4652.37	-2257.61	10899.70	7840.00	-4649.83	-1683.12	-105.56	596.37	291.41	2.05	PASS
11016.00†	7680.00	-4752.37	-2257.17	10999.70	7840.00	-4749.83	-1682.67	-105.56	596.37	297.28	2.01	PASS
11116.00†	7680.00	-4852.37	-2256.73	11099.70	7840.00	-4849.83	-1682.23	-105.56	596.37	303.15	1.97	PASS
11216.00†	7680.00	-4952.37	-2256.29	11199.70	7840.00	-4949.82	-1681.79	-105.56	596.37	309.04	1.93	PASS
11316.00†	7680.00	-5052.37	-2255.85	11299.70	7840.00	-5049.82	-1681.35	-105.56	596.38	314.92	1.90	PASS
11416.00†	7680.00	-5152.37	-2255.41	11399.70	7840.00	-5149.82	-1680.90	-105.56	596.38	320.82	1.86	PASS
11516.00†	7680.00	-5252.37	-2254.97	11499.70	7840.00	-5249.82	-1680.46	-105.56	596.38	326.72	1.83	PASS
11616.00†	7680.00	-5352.37	-2254.53	11599.70	7840.00	-5349.82	-1680.02	-105.56	596.38	332.63	1.79	PASS
11716.00†	7680.00	-5452.37	-2254.09	11699.70	7840.00	-5449.82	-1679.57	-105.56	596.38	338.55	1.76	PASS
11816.00†	7680.00	-5552.36	-2253.65	11799.70	7840.00	-5549.82	-1679.13	-105.56	596.39	344.47	1.73	PASS
11916.00†	7680.00	-5652.36	-2253.21	11899.70	7840.00	-5649.82	-1678.69	-105.56	596.39	350.39	1.70	PASS
12016.00†	7680.00	-5752.36	-2252.77	11999.70	7840.00	-5749.82	-1678.24	-105.56	596.39	356.32	1.67	PASS
12116.00†	7680.00	-5852.36	-2252.32	12099.70	7840.00	-5849.82	-1677.80	-105.56	596.39	362.26	1.65	PASS

CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-2CDH PWB    Offset Wellpath: SHOOK 3-10-2CDH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W			Slot: SLOT#04 SHOOK 3-10-2CDH (2058'FSL & 2244'FEL, SEC.03)			Well: SHOOK 3-10-2CDH		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12216.00†	7680.00	-5952.36	-2251.88	12199.70	7840.00	-5949.82	-1677.36	-105.56	596.40	368.20	1.62	PASS
12316.00†	7680.00	-6052.36	-2251.44	12299.70	7840.00	-6049.81	-1676.91	-105.56	596.40	374.14	1.59	PASS
12416.00†	7680.00	-6152.36	-2251.00	12399.70	7840.00	-6149.81	-1676.47	-105.56	596.40	380.09	1.57	PASS
12516.00†	7680.00	-6252.36	-2250.56	12499.70	7840.00	-6249.81	-1676.03	-105.56	596.40	386.04	1.55	PASS
12616.00†	7680.00	-6352.36	-2250.12	12599.70	7840.00	-6349.81	-1675.58	-105.56	596.40	391.99	1.52	PASS
12716.00†	7680.00	-6452.36	-2249.68	12699.70	7840.00	-6449.81	-1675.14	-105.56	596.41	397.95	1.50	PASS
12816.00†	7680.00	-6552.36	-2249.24	12799.70	7840.00	-6549.81	-1674.70	-105.56	596.41	403.92	1.48	PASS
12916.00†	7680.00	-6652.35	-2248.80	12899.70	7840.00	-6649.81	-1674.26	-105.56	596.41	409.88	1.46	PASS
13016.00†	7680.00	-6752.35	-2248.36	12999.70	7840.00	-6749.81	-1673.81	-105.56	596.41	415.85	1.43	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-2CDH PWB Offset Wellpath: SHOOK 3-10-2CDH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#04 SHOOK 3-10-2CDH (2058'FSL & 2244'FEL, SEC.03) Well: SHOOK 3-10-2CDH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
13116.00†	7680.00	-6852.35	-2247.92	13099.70	7840.00	-6849.81	-1673.37	-105.56	596.42	421.82	1.41	PASS
13144.91	7680.00	-6881.26	-2247.79	13128.61	7840.00	-6878.72	-1673.24	-105.56	596.42	423.55	1.41	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: SHOOK 3-10-2CDH PWB Offset Wellpath: SHOOK 3-10-2CDH 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: SHOOK 3-10-2CDH PWB Offset Wellpath: SHOOK 3-10-2CDH 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	16.00	800.00	784.00	16.00	800.00	0.00	18.79	0.00	18.79
9.625in Casing Surface	16.00	800.00	784.00	16.00	800.00	0.00	18.79	0.00	18.79
8.5in Open Hole	800.00	13131.20	12331.20	800.00	7840.00	0.00	18.79	-2097.42	-500.60
5.5in Casing Production	16.00	13131.20	13115.20	16.00	7840.00	0.00	18.79	-2097.42	-500.60

## SURVEY PROGRAM - Offset Wellbore: SHOOK 3-10-2CDH PWB Offset Wellpath: SHOOK 3-10-2CDH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	13131.20	Custom NaviTrak (Standard) (Rockies 0.03Gt model)		SHOOK 3-10-2CDH PWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: SHOOK 3-10-2CDH PWB Offset Wellpath: SHOOK 3-10-2CDH PWP (REV-A.0)

MD Reference: RIG (16'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1NAH PWB Offset Wellpath: SHOOK 3-10-1NAH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#05 SHOOK 3-10-1NAH (2058'FSL & 2229'FEL, SEC.03) Well: SHOOK 3-10-1NAH Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	16.00	16.00	0.00	44.83	90.00	44.83	1.56	73.11	PASS
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	44.83	90.00	44.83	1.88	47.92	PASS
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	44.83	90.00	44.83	2.44	29.65	PASS
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	44.83	90.00	44.83	3.04	21.08	PASS
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	44.83	90.00	44.83	3.66	16.28	PASS
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	44.83	90.00	44.83	4.28	13.24	PASS
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	44.83	90.00	44.83	4.90	11.15	PASS
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	44.83	90.00	44.83	5.52	9.62	PASS
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	44.83	90.00	44.83	5.77	8.54	PASS
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	44.83	90.00	44.83	6.39	7.62	PASS
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	44.83	90.00	44.83	7.02	6.88	PASS
1116.00†	1116.00	0.00	0.00	1116.00	1116.00	0.00	44.83	90.00	44.83	7.65	6.27	PASS
1216.00†	1216.00	0.00	0.00	1216.00	1216.00	0.00	44.83	90.00	44.83	8.27	5.75	PASS
1316.00†	1316.00	0.00	0.00	1316.00	1316.00	0.00	44.83	90.00	44.83	8.90	5.32	PASS
1416.00†	1416.00	0.00	0.00	1416.00	1416.00	0.00	44.83	90.00	44.83	9.53	4.95	PASS
1516.00†	1516.00	0.00	0.00	1516.00	1516.00	0.00	44.83	90.00	44.83	10.15	4.62	PASS
1600.00	1600.00	0.00	0.00	1600.00	1600.00	0.00	44.83	90.00	44.83	10.68	4.38	PASS
1616.00†	1616.00	-0.03	-0.03	1616.00	1616.00	0.00	44.83	-136.98	44.86	10.78	4.34	PASS
1716.00†	1715.97	-1.60	-1.72	1715.97	1715.97	0.00	44.83	-138.89	46.57	11.45	4.23	PASS
1816.00†	1815.80	-5.56	-5.95	1815.80	1815.80	0.00	44.83	-143.11	51.08	12.25	4.33	PASS
1916.00†	1915.36	-11.89	-12.72	1915.59	1915.59	-0.04	44.81	-148.44	58.74	13.08	4.65	PASS
2016.00†	2014.54	-20.59	-22.03	2016.70	2016.67	-1.97	43.50	-152.67	68.15	13.94	5.06	PASS
2116.00†	2113.21	-31.64	-33.86	2118.16	2117.95	-6.87	40.17	-155.35	78.21	14.91	5.42	PASS
2216.00†	2211.26	-45.04	-48.20	2219.96	2219.30	-14.77	34.81	-156.93	88.73	15.85	5.77	PASS
2316.00†	2308.57	-60.77	-65.03	2322.11	2320.58	-25.69	27.41	-157.75	99.60	16.79	6.11	PASS
2416.00†	2405.01	-78.81	-84.34	2424.57	2421.65	-39.64	17.95	-158.01	110.79	17.72	6.43	PASS
2516.00†	2500.47	-99.14	-106.09	2527.36	2522.36	-56.63	6.43	-157.86	122.25	18.66	6.73	PASS
2616.00†	2594.84	-121.73	-130.26	2630.46	2622.57	-76.66	-7.16	-157.40	133.99	19.63	7.00	PASS
2716.00†	2687.99	-146.55	-156.82	2733.85	2722.13	-99.73	-22.80	-156.71	146.01	20.65	7.25	PASS
2816.00†	2779.81	-173.58	-185.74	2837.54	2820.90	-125.84	-40.51	-155.84	158.30	21.78	7.44	PASS
2916.00†	2870.20	-202.78	-216.99	2941.51	2918.72	-154.97	-60.27	-154.83	170.88	22.98	7.60	PASS
3016.00†	2959.04	-234.11	-250.52	3045.76	3015.46	-187.11	-82.06	-153.72	183.76	24.27	7.73	PASS
3116.00†	3046.23	-267.54	-286.29	3150.26	3110.95	-222.23	-105.88	-152.52	196.95	25.75	7.80	PASS
3117.60	3047.61	-268.10	-286.88	3151.93	3112.46	-222.82	-106.28	-152.50	197.17	25.78	7.80	PASS
3216.00†	3132.52	-302.05	-323.21	3255.16	3205.18	-260.36	-131.74	-151.15	208.99	27.35	7.79	PASS
3316.00†	3218.82	-336.55	-360.13	3358.36	3296.28	-300.49	-158.95	-149.34	218.57	29.18	7.62	PASS

CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1NAH PWB Offset Wellpath: SHOOK 3-10-1NAH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W Slot: SLOT#05 SHOOK 3-10-1NAH (2058'FSL & 2229'FEL, SEC.03) Well: SHOOK 3-10-1NAH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	3457.70	3383.60	-339.70	-185.55	-147.60	227.77	31.18	7.42	PASS
3516.00†	3391.40	-405.55	-433.97	3557.05	3470.92	-378.91	-212.14	-146.01	237.15	33.33	7.22	PASS
3616.00†	3477.70	-440.05	-470.89	3656.40	3558.25	-418.12	-238.73	-144.53	246.71	35.61	7.03	PASS
3716.00†	3563.99	-474.55	-507.81	3755.75	3645.57	-457.34	-265.33	-143.17	256.42	37.99	6.84	PASS
3816.00†	3650.28	-509.05	-544.73	3855.10	3732.89	-496.55	-291.92	-141.90	266.26	40.47	6.66	PASS
3916.00†	3736.58	-543.56	-581.65	3954.45	3820.21	-535.76	-318.51	-140.73	276.22	43.02	6.50	PASS
4016.00†	3822.87	-578.06	-618.57	4053.79	3907.54	-574.98	-345.11	-139.64	286.28	45.63	6.34	PASS
4116.00†	3909.17	-612.56	-655.49	4153.14	3994.86	-614.19	-371.70	-138.62	296.45	48.30	6.20	PASS
4216.00†	3995.46	-647.06	-692.41	4252.49	4082.18	-653.40	-398.29	-137.67	306.70	51.02	6.07	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1NAH PWB Offset Wellpath: SHOOK 3-10-1NAH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#05 SHOOK 3-10-1NAH (2058'FSL & 2229'FEL, SEC.03) Well: SHOOK 3-10-1NAH Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	4351.84	4169.51	-692.61	-424.89	-136.78	317.03	53.78	5.95	PASS
4416.00†	4168.05	-716.06	-766.25	4451.19	4256.83	-731.83	-451.48	-135.95	327.42	56.58	5.84	PASS
4516.00†	4254.34	-750.56	-803.16	4550.54	4344.15	-771.04	-478.07	-135.16	337.89	59.40	5.73	PASS
4616.00†	4340.63	-785.07	-840.08	4649.89	4431.47	-810.25	-504.67	-134.43	348.41	62.26	5.64	PASS
4716.00†	4426.93	-819.57	-877.00	4749.23	4518.80	-849.46	-531.26	-133.74	358.99	65.13	5.55	PASS
4816.00†	4513.22	-854.07	-913.92	4848.58	4606.12	-888.68	-557.85	-133.09	369.61	68.02	5.47	PASS
4916.00†	4599.52	-888.57	-950.84	4947.93	4693.44	-927.89	-584.45	-132.47	380.28	70.93	5.40	PASS
5016.00†	4685.81	-923.07	-987.76	5047.28	4780.76	-967.10	-611.04	-131.89	390.99	73.85	5.33	PASS
5116.00†	4772.10	-957.57	-1024.68	5146.63	4868.09	-1006.32	-637.63	-131.34	401.74	76.79	5.26	PASS
5216.00†	4858.40	-992.07	-1061.60	5245.98	4955.41	-1045.53	-664.23	-130.82	412.52	79.74	5.20	PASS
5316.00†	4944.69	-1026.58	-1098.52	5345.32	5042.73	-1084.74	-690.82	-130.32	423.34	82.70	5.15	PASS
5416.00†	5030.98	-1061.08	-1135.44	5444.67	5130.06	-1123.95	-717.42	-129.85	434.18	85.67	5.10	PASS
5516.00†	5117.28	-1095.58	-1172.36	5544.02	5217.38	-1163.17	-744.01	-129.40	445.05	88.64	5.05	PASS
5616.00†	5203.57	-1130.08	-1209.28	5643.37	5304.70	-1202.38	-770.60	-128.98	455.95	91.62	5.00	PASS
5716.00†	5289.87	-1164.58	-1246.20	5742.72	5392.02	-1241.59	-797.20	-128.57	466.87	94.61	4.96	PASS
5816.00†	5376.16	-1199.08	-1283.12	5842.07	5479.35	-1280.80	-823.79	-128.18	477.82	97.61	4.92	PASS
5916.00†	5462.45	-1233.59	-1320.04	5941.42	5566.67	-1320.02	-850.38	-127.81	488.78	100.61	4.88	PASS
6016.00†	5548.75	-1268.09	-1356.96	6040.76	5653.99	-1359.23	-876.98	-127.46	499.76	103.61	4.85	PASS
6116.00†	5635.04	-1302.59	-1393.87	6140.11	5741.32	-1398.44	-903.57	-127.12	510.77	106.62	4.81	PASS
6216.00†	5721.33	-1337.09	-1430.79	6239.46	5828.64	-1437.66	-930.16	-126.79	521.78	109.63	4.78	PASS
6316.00†	5807.63	-1371.59	-1467.71	6338.81	5915.96	-1476.87	-956.76	-126.48	532.82	112.64	4.75	PASS
6416.00†	5893.92	-1406.09	-1504.63	6438.16	6003.28	-1516.08	-983.35	-126.18	543.87	115.66	4.72	PASS
6516.00†	5980.22	-1440.59	-1541.55	6537.51	6090.61	-1555.29	-1009.94	-125.90	554.93	118.68	4.69	PASS
6616.00†	6066.51	-1475.10	-1578.47	6636.86	6177.93	-1594.51	-1036.54	-125.62	566.01	121.70	4.67	PASS
6716.00†	6152.80	-1509.60	-1615.39	6736.20	6265.25	-1633.72	-1063.13	-125.36	577.10	124.73	4.64	PASS
6816.00†	6239.10	-1544.10	-1652.31	6835.55	6352.58	-1672.93	-1089.72	-125.10	588.20	127.75	4.62	PASS
6916.00†	6325.39	-1578.60	-1689.23	6934.90	6439.90	-1712.14	-1116.32	-124.86	599.31	130.78	4.60	PASS
7016.00†	6411.68	-1613.10	-1726.15	7034.25	6527.22	-1751.36	-1142.91	-124.62	610.43	133.81	4.58	PASS
7116.00†	6497.98	-1647.60	-1763.07	7133.60	6614.54	-1790.57	-1169.50	-124.39	621.57	136.84	4.56	PASS
7216.00†	6584.27	-1682.10	-1799.99	7232.95	6701.87	-1829.78	-1196.10	-124.17	632.71	139.88	4.54	PASS
7316.00†	6670.57	-1716.61	-1836.91	7332.29	6789.19	-1869.00	-1222.69	-123.96	643.86	142.91	4.52	PASS
7416.00†	6756.86	-1751.11	-1873.83	7431.64	6876.51	-1908.21	-1249.28	-123.75	655.02	145.95	4.50	PASS
7516.00†	6843.15	-1785.61	-1910.75	7530.99	6963.83	-1947.42	-1275.88	-123.56	666.19	148.98	4.49	PASS
7616.00†	6929.45	-1820.11	-1947.66	7630.34	7051.16	-1986.63	-1302.47	-123.36	677.36	152.02	4.47	PASS
7716.00†	7015.74	-1854.61	-1984.58	7709.18	7119.13	-2020.70	-1323.16	-122.95	689.75	154.82	4.47	PASS
7816.00†	7102.03	-1889.11	-2021.50	7780.74	7176.56	-2059.58	-1340.59	-121.87	705.87	158.14	4.48	PASS



CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1NAH PWB Offset Wellpath: SHOOK 3-10-1NAH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W Slot: SLOT#05 SHOOK 3-10-1NAH (2058'FSL & 2229'FEL, SEC.03) Well: SHOOK 3-10-1NAH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7916.00†	7188.33	-1923.61	-2058.42	7847.46	7225.57	-2102.30	-1355.42	-120.30	726.31	161.43	4.51	PASS
8016.00†	7274.62	-1958.12	-2095.34	7908.23	7265.80	-2146.16	-1367.56	-118.45	751.74	164.52	4.58	PASS
8085.19	7334.33	-1981.99	-2120.89	7946.55	7288.80	-2176.00	-1374.47	-117.10	772.56	166.07	4.66	PASS
8116.00†	7360.64	-1993.39	-2132.14	7962.91	7298.03	-2189.23	-1377.24	-111.73	782.39	166.60	4.71	PASS
8216.00†	7441.54	-2040.68	-2166.69	8015.85	7325.36	-2233.80	-1385.43	-97.89	813.12	167.59	4.87	PASS
8316.00†	7513.69	-2102.53	-2197.41	8068.59	7348.57	-2280.63	-1392.33	-88.19	840.91	167.84	5.02	PASS
8416.00†	7574.90	-2177.06	-2223.37	8121.19	7367.52	-2329.35	-1397.92	-81.38	864.62	167.38	5.18	PASS
8516.00†	7623.30	-2261.99	-2243.79	8173.68	7382.10	-2379.59	-1402.17	-76.71	883.37	166.45	5.32	PASS
8616.00†	7657.43	-2354.77	-2258.05	8226.12	7392.22	-2430.94	-1405.04	-73.73	896.53	165.20	5.44	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1NAH PWB Offset Wellpath: SHOOK 3-10-1NAH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#05 SHOOK 3-10-1NAH (2058'FSL & 2229'FEL, SEC.03) Well: SHOOK 3-10-1NAH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8716.00†	7676.26	-2452.55	-2265.70	8278.52	7397.81	-2483.00	-1406.53	-72.20	903.69	163.79	5.53	PASS
8784.36	7680.00	-2520.76	-2267.01	8314.33	7399.00	-2518.79	-1406.73	-71.91	905.01	162.81	5.58	PASS
8816.00†	7680.00	-2552.39	-2266.87	8344.12	7399.00	-2548.57	-1406.60	-71.91	905.01	164.22	5.53	PASS
8916.00†	7680.00	-2652.39	-2266.43	8444.12	7399.00	-2648.57	-1406.16	-71.91	905.01	169.51	5.35	PASS
9016.00†	7680.00	-2752.39	-2265.99	8544.12	7399.00	-2748.57	-1405.71	-71.91	905.02	174.86	5.19	PASS
9116.00†	7680.00	-2852.39	-2265.55	8644.12	7399.00	-2848.57	-1405.27	-71.91	905.02	180.25	5.03	PASS
9216.00†	7680.00	-2952.39	-2265.11	8744.12	7399.00	-2948.57	-1404.82	-71.91	905.02	185.68	4.89	PASS
9316.00†	7680.00	-3052.39	-2264.67	8844.12	7399.00	-3048.57	-1404.38	-71.91	905.03	191.14	4.75	PASS
9416.00†	7680.00	-3152.39	-2264.23	8944.12	7399.00	-3148.57	-1403.93	-71.91	905.03	196.63	4.61	PASS
9516.00†	7680.00	-3252.39	-2263.79	9044.12	7399.00	-3248.57	-1403.49	-71.91	905.03	201.72	4.50	PASS
9616.00†	7680.00	-3352.39	-2263.34	9144.12	7399.00	-3348.56	-1403.05	-71.91	905.04	207.71	4.37	PASS
9716.00†	7680.00	-3452.39	-2262.90	9244.12	7399.00	-3448.56	-1402.60	-71.91	905.04	213.28	4.25	PASS
9816.00†	7680.00	-3552.38	-2262.46	9344.12	7399.00	-3548.56	-1402.16	-71.91	905.04	218.88	4.14	PASS
9916.00†	7680.00	-3652.38	-2262.02	9444.12	7399.00	-3648.56	-1401.71	-71.91	905.05	224.50	4.04	PASS
10016.00†	7680.00	-3752.38	-2261.58	9544.12	7399.00	-3748.56	-1401.27	-71.91	905.05	230.14	3.94	PASS
10116.00†	7680.00	-3852.38	-2261.14	9644.12	7399.00	-3848.56	-1400.82	-71.91	905.05	235.80	3.85	PASS
10216.00†	7680.00	-3952.38	-2260.70	9744.12	7399.00	-3948.56	-1400.38	-71.91	905.06	241.47	3.75	PASS
10316.00†	7680.00	-4052.38	-2260.26	9844.12	7399.00	-4048.56	-1399.94	-71.91	905.06	247.16	3.67	PASS
10416.00†	7680.00	-4152.38	-2259.82	9944.12	7399.00	-4148.56	-1399.49	-71.91	905.06	252.87	3.59	PASS
10516.00†	7680.00	-4252.38	-2259.38	10044.12	7399.00	-4248.56	-1399.05	-71.91	905.07	258.59	3.51	PASS
10616.00†	7680.00	-4352.38	-2258.94	10144.12	7399.00	-4348.55	-1398.60	-71.91	905.07	264.32	3.43	PASS
10716.00†	7680.00	-4452.38	-2258.50	10244.12	7399.00	-4448.55	-1398.16	-71.91	905.07	270.06	3.36	PASS
10816.00†	7680.00	-4552.37	-2258.06	10344.12	7399.00	-4548.55	-1397.71	-71.91	905.07	275.81	3.29	PASS
10916.00†	7680.00	-4652.37	-2257.61	10444.12	7399.00	-4648.55	-1397.27	-71.91	905.08	281.58	3.22	PASS
11016.00†	7680.00	-4752.37	-2257.17	10544.12	7399.00	-4748.55	-1396.83	-71.91	905.08	287.36	3.15	PASS
11116.00†	7680.00	-4852.37	-2256.73	10644.12	7399.00	-4848.55	-1396.38	-71.91	905.08	293.14	3.09	PASS
11216.00†	7680.00	-4952.37	-2256.29	10744.12	7399.00	-4948.55	-1395.94	-71.91	905.09	298.93	3.03	PASS
11316.00†	7680.00	-5052.37	-2255.85	10844.12	7399.00	-5048.55	-1395.49	-71.91	905.09	304.73	2.97	PASS
11416.00†	7680.00	-5152.37	-2255.41	10944.12	7399.00	-5148.55	-1395.05	-71.91	905.09	310.54	2.92	PASS
11516.00†	7680.00	-5252.37	-2254.97	11044.12	7399.00	-5248.55	-1394.61	-71.91	905.10	316.36	2.86	PASS
11616.00†	7680.00	-5352.37	-2254.53	11144.12	7399.00	-5348.54	-1394.16	-71.91	905.10	322.18	2.81	PASS
11716.00†	7680.00	-5452.37	-2254.09	11244.12	7399.00	-5448.54	-1393.72	-71.91	905.10	328.02	2.76	PASS
11816.00†	7680.00	-5552.36	-2253.65	11344.12	7399.00	-5548.54	-1393.27	-71.91	905.11	333.85	2.71	PASS
11916.00†	7680.00	-5652.36	-2253.21	11444.12	7399.00	-5648.54	-1392.83	-71.91	905.11	339.69	2.67	PASS
12016.00†	7680.00	-5752.36	-2252.77	11544.12	7399.00	-5748.54	-1392.38	-71.91	905.11	345.54	2.62	PASS
12116.00†	7680.00	-5852.36	-2252.32	11644.12	7399.00	-5848.54	-1391.94	-71.91	905.12	351.40	2.58	PASS

CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1NAH PWB Offset Wellpath: SHOOK 3-10-1NAH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W			Slot: SLOT#05 SHOOK 3-10-1NAH (2058'FSL & 2229'FEL, SEC.03)			Well: SHOOK 3-10-1NAH		Threshold Value=1.00 † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12216.00†	7680.00	-5952.36	-2251.88	11744.12	7399.00	-5948.54	-1391.50	-71.91	905.12	357.26	2.54	PASS
12316.00†	7680.00	-6052.36	-2251.44	11844.12	7399.00	-6048.54	-1391.05	-71.91	905.12	363.12	2.50	PASS
12416.00†	7680.00	-6152.36	-2251.00	11944.12	7399.00	-6148.54	-1390.61	-71.91	905.13	368.99	2.46	PASS
12516.00†	7680.00	-6252.36	-2250.56	12044.12	7399.00	-6248.54	-1390.16	-71.91	905.13	374.86	2.42	PASS
12616.00†	7680.00	-6352.36	-2250.12	12144.12	7399.00	-6348.53	-1389.72	-71.91	905.13	380.74	2.38	PASS
12716.00†	7680.00	-6452.36	-2249.68	12244.12	7399.00	-6448.53	-1389.27	-71.91	905.14	386.62	2.34	PASS
12816.00†	7680.00	-6552.36	-2249.24	12344.12	7399.00	-6548.53	-1388.83	-71.91	905.14	392.50	2.31	PASS
12916.00†	7680.00	-6652.35	-2248.80	12444.12	7399.00	-6648.53	-1388.39	-71.91	905.14	398.39	2.27	PASS
13016.00†	7680.00	-6752.35	-2248.36	12544.12	7399.00	-6748.53	-1387.94	-71.91	905.15	404.28	2.24	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-1NAH PWB Offset Wellpath: SHOOK 3-10-1NAH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#05 SHOOK 3-10-1NAH (2058'FSL & 2229'FEL, SEC.03) Well: SHOOK 3-10-1NAH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
13116.00†	7680.00	-6852.35	-2247.92	12644.12	7399.00	-6848.53	-1387.50	-71.91	905.15	410.18	2.21	PASS
13144.91	7680.00	-6881.26	-2247.79	12673.03	7399.00	-6877.44	-1387.37	-71.91	905.15	411.88	2.20	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: SHOOK 3-10-1NAH PWB Offset Wellpath: SHOOK 3-10-1NAH 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: SHOOK 3-10-1NAH PWB Offset Wellpath: SHOOK 3-10-1NAH 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	16.00	800.00	784.00	16.00	800.00	0.00	27.33	0.00	27.33
9.625in Casing Surface	16.00	800.00	784.00	16.00	800.00	0.00	27.33	0.00	27.33
8.5in Open Hole	800.00	12676.91	11876.91	800.00	7399.00	0.00	27.33	-2097.43	-409.20
5.5in Casing Production	16.00	12676.91	12660.91	16.00	7399.00	0.00	27.33	-2097.43	-409.20

## SURVEY PROGRAM - Offset Wellbore: SHOOK 3-10-1NAH PWB Offset Wellpath: SHOOK 3-10-1NAH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	12676.91	Custom NaviTrak (Standard) (Rockies 0.03Gt model)		SHOOK 3-10-1NAH PWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: SHOOK 3-10-1NAH PWB Offset Wellpath: SHOOK 3-10-1NAH PWP (REV-A.0)

MD Reference: RIG (16'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-2NBH PWB Offset Wellpath: SHOOK 3-10-2NBH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#06 SHOOK 3-10-2NBH (2058'FSL & 2214'FEL, SEC.03) Well: SHOOK 3-10-2NBH Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	15.00	16.00	0.00	58.84	90.00	58.84	1.26	192.92	PASS
116.00†	116.00	0.00	0.00	115.00	116.00	0.00	58.84	90.00	58.84	1.88	63.33	PASS
216.00†	216.00	0.00	0.00	215.00	216.00	0.00	58.84	90.00	58.84	2.44	39.19	PASS
316.00†	316.00	0.00	0.00	315.00	316.00	0.00	58.84	90.00	58.84	3.04	27.86	PASS
416.00†	416.00	0.00	0.00	415.00	416.00	0.00	58.84	90.00	58.84	3.65	21.51	PASS
516.00†	516.00	0.00	0.00	515.00	516.00	0.00	58.84	90.00	58.84	4.27	17.48	PASS
616.00†	616.00	0.00	0.00	615.00	616.00	0.00	58.84	90.00	58.84	4.90	14.72	PASS
716.00†	716.00	0.00	0.00	715.00	716.00	0.00	58.84	90.00	58.84	5.52	12.70	PASS
816.00†	816.00	0.00	0.00	815.00	816.00	0.00	58.84	90.00	58.84	5.76	11.24	PASS
916.00†	916.00	0.00	0.00	915.00	916.00	0.00	58.84	90.00	58.84	6.39	10.03	PASS
1016.00†	1016.00	0.00	0.00	1015.00	1016.00	0.00	58.84	90.00	58.84	7.02	9.06	PASS
1116.00†	1116.00	0.00	0.00	1115.00	1116.00	0.00	58.84	90.00	58.84	7.64	8.25	PASS
1216.00†	1216.00	0.00	0.00	1215.00	1216.00	0.00	58.84	90.00	58.84	8.27	7.58	PASS
1316.00†	1316.00	0.00	0.00	1315.00	1316.00	0.00	58.84	90.00	58.84	8.90	7.01	PASS
1416.00†	1416.00	0.00	0.00	1415.00	1416.00	0.00	58.84	90.00	58.84	9.52	6.52	PASS
1516.00†	1516.00	0.00	0.00	1515.00	1516.00	0.00	58.84	90.00	58.84	10.15	6.09	PASS
1600.00	1600.00	0.00	0.00	1599.00	1600.00	0.00	58.84	90.00	58.84	10.68	5.77	PASS
1616.00†	1616.00	-0.03	-0.03	1615.00	1616.00	0.00	58.84	-136.97	58.87	10.78	5.72	PASS
1716.00†	1715.97	-1.60	-1.72	1714.97	1715.97	0.00	58.84	-138.43	60.58	11.45	5.52	PASS
1816.00†	1815.80	-5.56	-5.95	1814.80	1815.80	0.00	58.84	-141.76	65.03	12.24	5.53	PASS
1916.00†	1915.36	-11.89	-12.72	1914.36	1915.36	0.00	58.84	-146.21	72.54	13.05	5.77	PASS
2016.00†	2014.54	-20.59	-22.03	2013.81	2014.81	-0.03	58.82	-150.96	83.43	13.88	6.23	PASS
2116.00†	2113.21	-31.64	-33.86	2115.07	2116.03	-2.02	57.72	-154.63	96.30	14.74	6.76	PASS
2216.00†	2211.26	-45.04	-48.20	2216.76	2217.55	-7.18	54.88	-156.91	110.00	15.68	7.25	PASS
2316.00†	2308.57	-60.77	-65.03	2318.88	2319.22	-15.52	50.28	-158.20	124.33	16.61	7.72	PASS
2416.00†	2405.01	-78.81	-84.34	2421.42	2420.90	-27.09	43.89	-158.80	139.18	17.54	8.17	PASS
2516.00†	2500.47	-99.14	-106.09	2524.35	2522.43	-41.90	35.72	-158.88	154.49	18.47	8.60	PASS
2616.00†	2594.84	-121.73	-130.26	2627.67	2623.66	-59.96	25.75	-158.57	170.25	19.43	9.00	PASS
2716.00†	2687.99	-146.55	-156.82	2731.35	2724.44	-81.29	13.98	-157.98	186.44	20.42	9.37	PASS
2816.00†	2779.81	-173.58	-185.74	2835.39	2824.60	-105.89	0.41	-157.18	203.08	21.49	9.69	PASS
2916.00†	2870.20	-202.78	-216.99	2939.75	2923.99	-133.75	-14.96	-156.20	220.17	22.68	9.94	PASS
3016.00†	2959.04	-234.11	-250.52	3044.43	3022.45	-164.86	-32.13	-155.09	237.72	23.96	10.15	PASS
3116.00†	3046.23	-267.54	-286.29	3149.42	3119.83	-199.20	-51.07	-153.89	255.77	25.34	10.31	PASS
3117.60	3047.61	-268.10	-286.88	3151.10	3121.37	-199.77	-51.39	-153.87	256.06	25.37	10.31	PASS
3216.00†	3132.52	-302.05	-323.21	3254.90	3216.15	-236.82	-71.84	-152.60	272.83	26.85	10.36	PASS
3316.00†	3218.82	-336.55	-360.13	3358.65	3309.36	-276.71	-93.85	-150.98	287.55	28.57	10.25	PASS

CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-2NBH PWB Offset Wellpath: SHOOK 3-10-2NBH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W			Slot: SLOT#06 SHOOK 3-10-2NBH (2058'FSL & 2214'FEL, SEC.03)			Well: SHOOK 3-10-2NBH		Threshold Value=1.00 † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	3457.32	3397.61	-315.35	-115.17	-149.46	301.86	30.42	10.10	PASS
3516.00†	3391.40	-405.55	-433.97	3555.99	3485.86	-354.00	-136.49	-148.09	316.34	32.39	9.93	PASS
3616.00†	3477.70	-440.05	-470.89	3654.66	3574.11	-392.64	-157.81	-146.83	331.00	34.47	9.75	PASS
3716.00†	3563.99	-474.55	-507.81	3753.33	3662.35	-431.28	-179.14	-145.68	345.79	36.65	9.57	PASS
3816.00†	3650.28	-509.05	-544.73	3852.00	3750.60	-469.93	-200.46	-144.63	360.72	38.90	9.40	PASS
3916.00†	3736.58	-543.56	-581.65	3950.67	3838.85	-508.57	-221.78	-143.65	375.75	41.23	9.23	PASS
4016.00†	3822.87	-578.06	-618.57	4049.34	3927.10	-547.21	-243.11	-142.76	390.88	43.61	9.07	PASS
4116.00†	3909.17	-612.56	-655.49	4148.01	4015.35	-585.85	-264.43	-141.93	406.10	46.04	8.92	PASS
4216.00†	3995.46	-647.06	-692.41	4246.68	4103.60	-624.50	-285.75	-141.16	421.39	48.51	8.78	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-2NBH PWB Offset Wellpath: SHOOK 3-10-2NBH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#06 SHOOK 3-10-2NBH (2058'FSL & 2214'FEL, SEC.03) Well: SHOOK 3-10-2NBH Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	4345.35	4191.85	-663.14	-307.07	-140.44	436.76	51.02	8.65	PASS
4416.00†	4168.05	-716.06	-766.25	4444.02	4280.09	-701.78	-328.40	-139.77	452.18	53.55	8.53	PASS
4516.00†	4254.34	-750.56	-803.16	4542.69	4368.34	-740.43	-349.72	-139.15	467.67	56.12	8.41	PASS
4616.00†	4340.63	-785.07	-840.08	4641.36	4456.59	-779.07	-371.04	-138.57	483.20	58.71	8.30	PASS
4716.00†	4426.93	-819.57	-877.00	4740.03	4544.84	-817.71	-392.37	-138.02	498.78	61.32	8.20	PASS
4816.00†	4513.22	-854.07	-913.92	4838.70	4633.09	-856.36	-413.69	-137.50	514.40	63.95	8.11	PASS
4916.00†	4599.52	-888.57	-950.84	4937.37	4721.34	-895.00	-435.01	-137.02	530.06	66.59	8.02	PASS
5016.00†	4685.81	-923.07	-987.76	5036.04	4809.59	-933.64	-456.33	-136.56	545.75	69.25	7.94	PASS
5116.00†	4772.10	-957.57	-1024.68	5134.71	4897.84	-972.29	-477.66	-136.13	561.48	71.92	7.86	PASS
5216.00†	4858.40	-992.07	-1061.60	5233.38	4986.08	-1010.93	-498.98	-135.73	577.24	74.60	7.79	PASS
5316.00†	4944.69	-1026.58	-1098.52	5332.05	5074.33	-1049.57	-520.30	-135.34	593.02	77.30	7.72	PASS
5416.00†	5030.98	-1061.08	-1135.44	5430.72	5162.58	-1088.21	-541.63	-134.98	608.83	80.00	7.66	PASS
5516.00†	5117.28	-1095.58	-1172.36	5529.39	5250.83	-1126.86	-562.95	-134.63	624.66	82.71	7.60	PASS
5616.00†	5203.57	-1130.08	-1209.28	5628.06	5339.08	-1165.50	-584.27	-134.30	640.51	85.42	7.54	PASS
5716.00†	5289.87	-1164.58	-1246.20	5726.73	5427.33	-1204.14	-605.59	-133.98	656.38	88.15	7.49	PASS
5816.00†	5376.16	-1199.08	-1283.12	5825.40	5515.58	-1242.79	-626.92	-133.69	672.27	90.88	7.44	PASS
5916.00†	5462.45	-1233.59	-1320.04	5924.07	5603.82	-1281.43	-648.24	-133.40	688.18	93.61	7.39	PASS
6016.00†	5548.75	-1268.09	-1356.96	6022.74	5692.07	-1320.07	-669.56	-133.13	704.10	96.35	7.35	PASS
6116.00†	5635.04	-1302.59	-1393.87	6121.41	5780.32	-1358.72	-690.89	-132.87	720.04	99.09	7.30	PASS
6216.00†	5721.33	-1337.09	-1430.79	6220.08	5868.57	-1397.36	-712.21	-132.62	735.99	101.84	7.26	PASS
6316.00†	5807.63	-1371.59	-1467.71	6318.75	5956.82	-1436.00	-733.53	-132.38	751.95	104.59	7.22	PASS
6416.00†	5893.92	-1406.09	-1504.63	6417.42	6045.07	-1474.64	-754.85	-132.15	767.93	107.35	7.19	PASS
6516.00†	5980.22	-1440.59	-1541.55	6516.09	6133.32	-1513.29	-776.18	-131.93	783.92	110.10	7.15	PASS
6616.00†	6066.51	-1475.10	-1578.47	6614.76	6221.56	-1551.93	-797.50	-131.72	799.91	112.86	7.12	PASS
6716.00†	6152.80	-1509.60	-1615.39	6713.43	6309.81	-1590.57	-818.82	-131.52	815.92	115.63	7.09	PASS
6816.00†	6239.10	-1544.10	-1652.31	6812.10	6398.06	-1629.22	-840.15	-131.32	831.94	118.39	7.06	PASS
6916.00†	6325.39	-1578.60	-1689.23	6910.77	6486.31	-1667.86	-861.47	-131.14	847.97	121.16	7.03	PASS
7016.00†	6411.68	-1613.10	-1726.15	7009.44	6574.56	-1706.50	-882.79	-130.96	864.00	123.93	7.00	PASS
7116.00†	6497.98	-1647.60	-1763.07	7108.11	6662.81	-1745.15	-904.11	-130.78	880.05	126.71	6.97	PASS
7216.00†	6584.27	-1682.10	-1799.99	7206.78	6751.06	-1783.79	-925.44	-130.61	896.10	129.48	6.95	PASS
7316.00†	6670.57	-1716.61	-1836.91	7305.45	6839.31	-1822.43	-946.76	-130.45	912.16	132.26	6.92	PASS
7416.00†	6756.86	-1751.11	-1873.83	7404.12	6927.55	-1861.08	-968.08	-130.30	928.22	135.03	6.90	PASS
7516.00†	6843.15	-1785.61	-1910.75	7502.79	7015.80	-1899.72	-989.41	-130.15	944.30	137.81	6.88	PASS
7616.00†	6929.45	-1820.11	-1947.66	7601.46	7104.05	-1938.36	-1010.73	-130.00	960.38	140.59	6.86	PASS
7716.00†	7015.74	-1854.61	-1984.58	7700.13	7192.30	-1977.00	-1032.05	-129.86	976.46	143.37	6.83	PASS
7816.00†	7102.03	-1889.11	-2021.50	7787.14	7269.37	-2012.78	-1050.66	-129.63	992.89	146.06	6.82	PASS



CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-2NBH PWB Offset Wellpath: SHOOK 3-10-2NBH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W			Slot: SLOT#06 SHOOK 3-10-2NBH (2058'FSL & 2214'FEL, SEC.03)			Well: SHOOK 3-10-2NBH			Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7916.00†	7188.33	-1923.61	-2058.42	7863.52	7332.64	-2052.66	-1065.89	-128.89	1011.24	149.22	6.80	PASS
8016.00†	7274.62	-1958.12	-2095.34	7934.86	7386.60	-2097.42	-1078.82	-127.71	1032.12	152.83	6.78	PASS
8085.19	7334.33	-1981.99	-2120.89	7980.46	7418.10	-2129.50	-1086.34	-126.74	1048.37	155.36	6.77	PASS
8116.00†	7360.64	-1993.39	-2132.14	7999.96	7430.80	-2143.99	-1089.36	-121.70	1055.93	156.42	6.77	PASS
8216.00†	7441.54	-2040.68	-2166.69	8062.52	7468.18	-2193.33	-1098.22	-108.76	1079.64	159.57	6.79	PASS
8316.00†	7513.69	-2102.53	-2197.41	8124.21	7499.71	-2245.79	-1105.64	-99.71	1101.21	162.25	6.81	PASS
8416.00†	7574.90	-2177.06	-2223.37	8185.26	7525.35	-2300.84	-1111.62	-93.34	1119.72	164.51	6.83	PASS
8516.00†	7623.30	-2261.99	-2243.79	8245.87	7545.04	-2357.95	-1116.13	-88.95	1134.45	166.36	6.84	PASS
8616.00†	7657.43	-2354.77	-2258.05	8306.19	7558.71	-2416.60	-1119.16	-86.14	1144.83	167.93	6.84	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-2NBH PWB Offset Wellpath: SHOOK 3-10-2NBH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#06 SHOOK 3-10-2NBH (2058'FSL & 2214'FEL, SEC.03) Well: SHOOK 3-10-2NBH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8716.00†	7676.26	-2452.55	-2265.70	8366.35	7566.31	-2476.23	-1120.71	-84.69	1150.50	169.29	6.82	PASS
8784.36	7680.00	-2520.76	-2267.01	8407.44	7567.99	-2517.28	-1120.91	-84.42	1151.57	170.14	6.79	PASS
8816.00†	7680.00	-2552.39	-2266.87	8436.72	7568.00	-2546.55	-1120.76	-84.42	1151.58	171.65	6.73	PASS
8916.00†	7680.00	-2652.39	-2266.43	8536.72	7568.00	-2646.55	-1120.25	-84.42	1151.65	177.27	6.51	PASS
9016.00†	7680.00	-2752.39	-2265.99	8636.72	7568.00	-2746.55	-1119.74	-84.42	1151.72	182.93	6.31	PASS
9116.00†	7680.00	-2852.39	-2265.55	8736.72	7568.00	-2846.55	-1119.24	-84.42	1151.79	188.64	6.12	PASS
9216.00†	7680.00	-2952.39	-2265.11	8836.72	7568.00	-2946.55	-1118.73	-84.42	1151.86	194.37	5.94	PASS
9316.00†	7680.00	-3052.39	-2264.67	8936.72	7568.00	-3046.55	-1118.22	-84.42	1151.92	200.14	5.77	PASS
9416.00†	7680.00	-3152.39	-2264.23	9036.72	7568.00	-3146.54	-1117.71	-84.42	1151.99	205.94	5.61	PASS
9516.00†	7680.00	-3252.39	-2263.79	9136.72	7568.00	-3246.54	-1117.20	-84.42	1152.06	211.76	5.45	PASS
9616.00†	7680.00	-3352.39	-2263.34	9236.72	7568.00	-3346.54	-1116.69	-84.42	1152.13	217.42	5.31	PASS
9716.00†	7680.00	-3452.39	-2262.90	9336.72	7568.00	-3446.54	-1116.18	-84.42	1152.20	223.47	5.17	PASS
9816.00†	7680.00	-3552.38	-2262.46	9436.72	7568.00	-3546.54	-1115.67	-84.42	1152.27	229.36	5.03	PASS
9916.00†	7680.00	-3652.38	-2262.02	9536.72	7568.00	-3646.54	-1115.16	-84.42	1152.34	235.27	4.91	PASS
10016.00†	7680.00	-3752.38	-2261.58	9636.72	7568.00	-3746.54	-1114.65	-84.42	1152.40	241.19	4.79	PASS
10116.00†	7680.00	-3852.38	-2261.14	9736.72	7568.00	-3846.54	-1114.14	-84.42	1152.47	247.13	4.67	PASS
10216.00†	7680.00	-3952.38	-2260.70	9836.72	7568.00	-3946.53	-1113.63	-84.42	1152.54	253.08	4.56	PASS
10316.00†	7680.00	-4052.38	-2260.26	9936.72	7568.00	-4046.53	-1113.12	-84.42	1152.61	259.05	4.46	PASS
10416.00†	7680.00	-4152.38	-2259.82	10036.72	7568.00	-4146.53	-1112.61	-84.42	1152.68	265.03	4.36	PASS
10516.00†	7680.00	-4252.38	-2259.38	10136.72	7568.00	-4246.53	-1112.10	-84.42	1152.75	271.03	4.26	PASS
10616.00†	7680.00	-4352.38	-2258.94	10236.72	7568.00	-4346.53	-1111.59	-84.43	1152.82	277.03	4.17	PASS
10716.00†	7680.00	-4452.38	-2258.50	10336.72	7568.00	-4446.53	-1111.08	-84.43	1152.88	283.05	4.08	PASS
10816.00†	7680.00	-4552.37	-2258.06	10436.72	7568.00	-4546.53	-1110.57	-84.43	1152.95	289.07	3.99	PASS
10916.00†	7680.00	-4652.37	-2257.61	10536.72	7568.00	-4646.52	-1110.06	-84.43	1153.02	295.11	3.91	PASS
11016.00†	7680.00	-4752.37	-2257.17	10636.72	7568.00	-4746.52	-1109.55	-84.43	1153.09	301.15	3.83	PASS
11116.00†	7680.00	-4852.37	-2256.73	10736.72	7568.00	-4846.52	-1109.04	-84.43	1153.16	307.20	3.76	PASS
11216.00†	7680.00	-4952.37	-2256.29	10836.72	7568.00	-4946.52	-1108.53	-84.43	1153.23	313.26	3.69	PASS
11316.00†	7680.00	-5052.37	-2255.85	10936.72	7568.00	-5046.52	-1108.02	-84.43	1153.30	319.33	3.62	PASS
11416.00†	7680.00	-5152.37	-2255.41	11036.72	7568.00	-5146.52	-1107.51	-84.43	1153.36	325.40	3.55	PASS
11516.00†	7680.00	-5252.37	-2254.97	11136.72	7568.00	-5246.52	-1107.00	-84.43	1153.43	331.49	3.48	PASS
11616.00†	7680.00	-5352.37	-2254.53	11236.72	7568.00	-5346.52	-1106.49	-84.43	1153.50	337.57	3.42	PASS
11716.00†	7680.00	-5452.37	-2254.09	11336.72	7568.00	-5446.51	-1105.98	-84.43	1153.57	343.66	3.36	PASS
11816.00†	7680.00	-5552.36	-2253.65	11436.72	7568.00	-5546.51	-1105.47	-84.43	1153.64	349.76	3.30	PASS
11916.00†	7680.00	-5652.36	-2253.21	11536.72	7568.00	-5646.51	-1104.96	-84.43	1153.71	355.87	3.25	PASS
12016.00†	7680.00	-5752.36	-2252.77	11636.72	7568.00	-5746.51	-1104.45	-84.43	1153.78	361.97	3.19	PASS
12116.00†	7680.00	-5852.36	-2252.32	11736.72	7568.00	-5846.51	-1103.94	-84.43	1153.84	368.09	3.14	PASS

CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-2NBH PWB    Offset Wellpath: SHOOK 3-10-2NBH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W			Slot: SLOT#06 SHOOK 3-10-2NBH (2058'FSL & 2214'FEL, SEC.03)			Well: SHOOK 3-10-2NBH		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12216.00†	7680.00	-5952.36	-2251.88	11836.72	7568.00	-5946.51	-1103.43	-84.43	1153.91	374.21	3.09	PASS
12316.00†	7680.00	-6052.36	-2251.44	11936.72	7568.00	-6046.51	-1102.93	-84.43	1153.98	380.33	3.04	PASS
12416.00†	7680.00	-6152.36	-2251.00	12036.72	7568.00	-6146.50	-1102.42	-84.43	1154.05	386.45	2.99	PASS
12516.00†	7680.00	-6252.36	-2250.56	12136.72	7568.00	-6246.50	-1101.91	-84.43	1154.12	392.58	2.94	PASS
12616.00†	7680.00	-6352.36	-2250.12	12236.72	7568.00	-6346.50	-1101.40	-84.43	1154.19	398.72	2.90	PASS
12716.00†	7680.00	-6452.36	-2249.68	12336.72	7568.00	-6446.50	-1100.89	-84.43	1154.26	404.86	2.85	PASS
12816.00†	7680.00	-6552.36	-2249.24	12436.72	7568.00	-6546.50	-1100.38	-84.43	1154.32	411.00	2.81	PASS
12916.00†	7680.00	-6652.35	-2248.80	12536.72	7568.00	-6646.50	-1099.87	-84.43	1154.39	417.14	2.77	PASS
13016.00†	7680.00	-6752.35	-2248.36	12636.72	7568.00	-6746.50	-1099.36	-84.43	1154.46	423.29	2.73	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-2NBH PWB Offset Wellpath: SHOOK 3-10-2NBH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#06 SHOOK 3-10-2NBH (2058'FSL & 2214'FEL, SEC.03) Well: SHOOK 3-10-2NBH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
13116.00†	7680.00	-6852.35	-2247.92	12736.72	7568.00	-6846.50	-1098.85	-84.43	1154.53	429.44	2.69	PASS
13144.91	7680.00	-6881.26	-2247.79	12765.63	7568.00	-6875.40	-1098.70	-84.43	1154.55	431.22	2.68	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: SHOOK 3-10-2NBH PWB Offset Wellpath: SHOOK 3-10-2NBH 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: SHOOK 3-10-2NBH PWB Offset Wellpath: SHOOK 3-10-2NBH 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	16.00	800.00	784.00	17.00	801.00	0.00	35.87	0.00	35.87
9.625in Casing Surface	16.00	800.00	784.00	17.00	801.00	0.00	35.87	0.00	35.87
8.5in Open Hole	800.00	12771.56	11971.56	801.00	7568.00	0.00	35.87	-2097.43	-316.93
5.5in Casing Production	16.00	12771.56	12755.56	17.00	7568.00	0.00	35.87	-2097.43	-316.93

## SURVEY PROGRAM - Offset Wellbore: SHOOK 3-10-2NBH PWB Offset Wellpath: SHOOK 3-10-2NBH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	12771.56	Custom NaviTrak (Standard) (Rockies 0.03Gt model)		SHOOK 3-10-2NBH PWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: SHOOK 3-10-2NBH PWB Offset Wellpath: SHOOK 3-10-2NBH PWP (REV-A.0)

MD Reference: RIG (16'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNEMYER #13N-3HZ AWB Offset Wellpath: GRENNEMYER #13N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#01 GRENNEMYER #13N-3HZ (445'FNL & 1555'FWL, SEC.34) Well: GRENNEMYER #13N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	15122.14	7608.84	11.39	-2274.32	-89.71	7926.15	115.49	69.12	PASS
116.00†	116.00	0.00	0.00	15122.48	7608.85	11.05	-2274.31	-89.72	7830.41	116.36	67.77	PASS
216.00†	216.00	0.00	0.00	15122.83	7608.85	10.70	-2274.31	-89.73	7734.78	116.78	66.69	PASS
316.00†	316.00	0.00	0.00	15123.18	7608.85	10.35	-2274.30	-89.74	7639.26	117.22	65.62	PASS
416.00†	416.00	0.00	0.00	15123.54	7608.85	10.00	-2274.30	-89.75	7543.85	117.68	64.54	PASS
516.00†	516.00	0.00	0.00	15123.90	7608.85	9.63	-2274.30	-89.76	7448.56	118.16	63.47	PASS
616.00†	616.00	0.00	0.00	15124.27	7608.85	9.27	-2274.29	-89.77	7353.40	118.66	62.40	PASS
716.00†	716.00	0.00	0.00	15124.64	7608.86	8.89	-2274.29	-89.78	7258.37	119.17	61.32	PASS
816.00†	816.00	0.00	0.00	15125.02	7608.86	8.51	-2274.29	-89.79	7163.47	119.50	60.25	PASS
916.00†	916.00	0.00	0.00	15125.40	7608.86	8.13	-2274.28	-89.80	7068.72	120.05	59.18	PASS
1016.00†	1016.00	0.00	0.00	15125.79	7608.86	7.74	-2274.28	-89.81	6974.11	120.63	58.10	PASS
1116.00†	1116.00	0.00	0.00	15126.19	7608.86	7.35	-2274.27	-89.82	6879.65	121.23	57.03	PASS
1216.00†	1216.00	0.00	0.00	15126.59	7608.87	6.95	-2274.27	-89.83	6785.36	121.85	55.96	PASS
1316.00†	1316.00	0.00	0.00	15126.99	7608.87	6.54	-2274.26	-89.84	6691.23	122.50	54.89	PASS
1416.00†	1416.00	0.00	0.00	15127.41	7608.87	6.13	-2274.26	-89.85	6597.27	123.17	53.82	PASS
1516.00†	1516.00	0.00	0.00	15127.82	7608.87	5.71	-2274.26	-89.86	6503.49	123.87	52.76	PASS
1600.00	1600.00	0.00	0.00	15128.18	7608.87	5.35	-2274.25	-89.87	6424.86	124.48	51.86	PASS
1616.00†	1616.00	-0.03	-0.03	15128.27	7608.87	5.26	-2274.25	43.78	6409.89	124.60	51.69	PASS
1716.00†	1715.97	-1.60	-1.72	15130.03	7608.88	3.51	-2274.23	47.67	6315.92	125.34	50.63	PASS
1816.00†	1815.80	-5.56	-5.95	15133.82	7608.90	-0.29	-2274.19	52.01	6221.34	126.10	49.57	PASS
1916.00†	1915.36	-11.89	-12.72	15139.69	7608.94	-6.15	-2274.11	56.84	6126.24	126.86	48.52	PASS
2016.00†	2014.54	-20.59	-22.03	15147.66	7608.99	-14.13	-2274.01	62.17	6030.70	127.63	47.47	PASS
2116.00†	2113.21	-31.64	-33.86	15162.69	7609.10	-29.15	-2273.78	67.83	5934.81	128.45	46.42	PASS
2216.00†	2211.26	-45.04	-48.20	15195.69	7609.28	-62.15	-2273.21	73.45	5838.63	129.48	45.30	PASS
2316.00†	2308.57	-60.77	-65.03	15232.68	7609.40	-99.13	-2272.48	79.39	5742.22	130.52	44.20	PASS
2416.00†	2405.01	-78.81	-84.34	15273.35	7609.40	-139.79	-2271.55	85.61	5645.64	131.58	43.10	PASS
2516.00†	2500.47	-99.14	-106.09	15317.40	7609.26	-183.83	-2270.39	92.01	5548.98	132.64	42.02	PASS
2616.00†	2594.84	-121.73	-130.26	15336.22	7609.17	-202.64	-2269.87	99.06	5452.34	133.35	41.07	PASS
2716.00†	2687.99	-146.55	-156.82	15350.12	7609.12	-216.53	-2269.50	105.92	5355.92	133.95	40.16	PASS
2816.00†	2779.81	-173.58	-185.74	15365.47	7609.08	-231.88	-2269.13	112.28	5259.82	134.53	39.27	PASS
2916.00†	2870.20	-202.78	-216.99	15382.30	7609.05	-248.71	-2268.75	118.08	5164.16	135.09	38.40	PASS
3016.00†	2959.04	-234.11	-250.52	15400.63	7609.06	-267.03	-2268.38	123.27	5069.08	135.63	37.54	PASS
3116.00†	3046.23	-267.54	-286.29	15420.47	7609.10	-286.87	-2268.03	127.90	4974.68	136.13	36.70	PASS
3117.60	3047.61	-268.10	-286.88	15420.80	7609.10	-287.20	-2268.03	127.97	4973.18	136.14	36.69	PASS
3216.00†	3132.52	-302.05	-323.21	15441.25	7609.18	-307.64	-2267.72	127.97	4880.74	136.64	35.88	PASS
3316.00†	3218.82	-336.55	-360.13	15462.34	7609.29	-328.73	-2267.47	127.97	4786.89	137.17	35.05	PASS

CLEARANCE DATA - Offset Wellbore: GRENNYER #13N-3HZ AWB Offset Wellpath: GRENNYER #13N-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#01 GRENNYER #13N-3HZ (445'FNL & 1555'FWL, SEC.34)			Well: GRENNYER #13N-3HZ			Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	15483.76	7609.45	-350.15	-2267.26	127.96	4693.13	137.72	34.22	PASS
3516.00†	3391.40	-405.55	-433.97	15506.81	7609.67	-373.20	-2267.11	127.96	4599.48	138.32	33.40	PASS
3616.00†	3477.70	-440.05	-470.89	15532.67	7609.97	-399.05	-2266.95	127.95	4505.90	138.96	32.56	PASS
3716.00†	3563.99	-474.55	-507.81	15558.81	7610.32	-425.20	-2266.79	127.95	4412.40	139.63	31.73	PASS
3816.00†	3650.28	-509.05	-544.73	15585.25	7610.75	-451.63	-2266.63	127.95	4318.97	140.32	30.91	PASS
3916.00†	3736.58	-543.56	-581.65	15611.98	7611.23	-478.35	-2266.48	127.94	4225.62	141.02	30.09	PASS
4016.00†	3822.87	-578.06	-618.57	15639.01	7611.79	-505.38	-2266.32	127.94	4132.34	141.75	29.27	PASS
4116.00†	3909.17	-612.56	-655.49	15666.35	7612.41	-532.71	-2266.16	127.94	4039.14	142.50	28.46	PASS
4216.00†	3995.46	-647.06	-692.41	15872.29	7613.15	-738.60	-2262.65	127.96	3944.84	144.97	27.32	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #13N-3HZ AWP Offset Wellpath: GRENNYER #13N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#01 GRENNYER #13N-3HZ (445'FNL & 1555'FWL, SEC.34) Well: GRENNYER #13N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	15918.11	7612.33	-784.40	-2261.67	127.95	3850.15	145.86	26.50	PASS
4416.00†	4168.05	-716.06	-766.25	15963.00	7611.29	-829.27	-2260.87	127.93	3755.35	146.74	25.69	PASS
4516.00†	4254.34	-750.56	-803.16	16006.98	7610.03	-873.23	-2260.25	127.90	3660.44	147.63	24.89	PASS
4616.00†	4340.63	-785.07	-840.08	16025.79	7609.46	-892.03	-2260.03	127.88	3565.52	148.32	24.14	PASS
4716.00†	4426.93	-819.57	-877.00	16041.79	7609.04	-908.02	-2259.88	127.87	3470.74	149.00	23.39	PASS
4816.00†	4513.22	-854.07	-913.92	16058.22	7608.68	-924.45	-2259.76	127.85	3376.10	149.71	22.64	PASS
4916.00†	4599.52	-888.57	-950.84	16075.11	7608.38	-941.33	-2259.67	127.84	3281.63	150.45	21.90	PASS
5016.00†	4685.81	-923.07	-987.76	16092.46	7608.14	-958.69	-2259.62	127.82	3187.31	151.22	21.16	PASS
5116.00†	4772.10	-957.57	-1024.68	16110.31	7607.98	-976.54	-2259.60	127.80	3093.15	152.02	20.42	PASS
5216.00†	4858.40	-992.07	-1061.60	16128.69	7607.90	-994.91	-2259.62	127.78	2999.17	152.85	19.70	PASS
5316.00†	4944.69	-1026.58	-1098.52	16147.58	7607.91	-1013.81	-2259.68	127.75	2905.37	153.71	18.97	PASS
5416.00†	5030.98	-1061.08	-1135.44	16167.05	7608.02	-1033.27	-2259.79	127.73	2811.77	154.61	18.25	PASS
5516.00†	5117.28	-1095.58	-1172.36	16190.82	7608.27	-1057.04	-2259.98	127.70	2718.35	155.55	17.54	PASS
5616.00†	5203.57	-1130.08	-1209.28	16229.54	7608.74	-1095.75	-2260.22	127.65	2624.97	156.56	16.83	PASS
5716.00†	5289.87	-1164.58	-1246.20	16268.03	7609.23	-1134.25	-2260.31	127.61	2531.55	157.56	16.13	PASS
5816.00†	5376.16	-1199.08	-1283.12	16306.31	7609.73	-1172.52	-2260.25	127.57	2438.10	158.56	15.43	PASS
5916.00†	5462.45	-1233.59	-1320.04	16344.38	7610.25	-1210.59	-2260.05	127.54	2344.60	159.55	14.75	PASS
6016.00†	5548.75	-1268.09	-1356.96	16390.54	7610.82	-1256.74	-2259.63	127.52	2251.02	160.51	14.07	PASS
6116.00†	5635.04	-1302.59	-1393.87	16438.15	7611.20	-1304.34	-2259.02	127.49	2157.24	161.44	13.41	PASS
6216.00†	5721.33	-1337.09	-1430.79	16484.29	7611.35	-1350.48	-2258.26	127.46	2063.26	162.35	12.75	PASS
6316.00†	5807.63	-1371.59	-1467.71	16528.76	7611.29	-1394.93	-2257.38	127.44	1969.09	163.23	12.10	PASS
6416.00†	5893.92	-1406.09	-1504.63	16568.59	7611.12	-1434.75	-2256.42	127.43	1874.77	164.11	11.46	PASS
6516.00†	5980.22	-1440.59	-1541.55	16607.65	7610.88	-1473.80	-2255.30	127.43	1780.34	164.97	10.83	PASS
6616.00†	6066.51	-1475.10	-1578.47	16645.97	7610.59	-1512.10	-2254.02	127.44	1685.80	165.81	10.20	PASS
6716.00†	6152.80	-1509.60	-1615.39	16680.61	7610.28	-1546.71	-2252.74	127.47	1591.18	166.65	9.58	PASS
6816.00†	6239.10	-1544.10	-1652.31	16708.00	7610.04	-1574.08	-2251.71	127.50	1496.55	167.65	8.95	PASS
6916.00†	6325.39	-1578.60	-1689.23	16708.00	7610.04	-1574.08	-2251.71	127.50	1402.40	169.35	8.31	PASS
7016.00†	6411.68	-1613.10	-1726.15	16708.00	7610.04	-1574.08	-2251.71	127.50	1309.12	171.24	7.67	PASS
7116.00†	6497.98	-1647.60	-1763.07	16708.00	7610.04	-1574.08	-2251.71	127.50	1216.90	173.35	7.04	PASS
7216.00†	6584.27	-1682.10	-1799.99	16708.00	7610.04	-1574.08	-2251.71	127.50	1126.02	175.70	6.43	PASS
7316.00†	6670.57	-1716.61	-1836.91	16708.00	7610.04	-1574.08	-2251.71	127.50	1036.81	178.28	5.83	PASS
7416.00†	6756.86	-1751.11	-1873.83	16708.00	7610.04	-1574.08	-2251.71	127.50	949.76	181.10	5.26	PASS
7516.00†	6843.15	-1785.61	-1910.75	16708.00	7610.04	-1574.08	-2251.71	127.50	865.51	184.07	4.71	PASS
7616.00†	6929.45	-1820.11	-1947.66	16708.00	7610.04	-1574.08	-2251.71	127.50	784.97	187.04	4.21	PASS
7716.00†	7015.74	-1854.61	-1984.58	16708.00	7610.04	-1574.08	-2251.71	127.50	709.40	189.68	3.75	PASS
7816.00†	7102.03	-1889.11	-2021.50	16708.00	7610.04	-1574.08	-2251.71	127.50	640.55	191.37	3.35	PASS



CLEARANCE DATA - Offset Wellbore: GRENNYER #13N-3HZ AWB Offset Wellpath: GRENNYER #13N-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#01 GRENNYER #13N-3HZ (445'FNL & 1555'FWL, SEC.34)				Well: GRENNYER #13N-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7916.00†	7188.33	-1923.61	-2058.42	16708.00	7610.04	-1574.08	-2251.71	127.50	580.84	191.08	3.05	PASS
8016.00†	7274.62	-1958.12	-2095.34	16708.00	7610.04	-1574.08	-2251.71	127.50	533.33	187.35	2.85	PASS
8085.19	7334.33	-1981.99	-2120.89	16708.00	7610.04	-1574.08	-2251.71	127.50	509.43	181.98	2.81	PASS
8088.55†	7337.23	-1983.16	-2122.13	16708.00	7610.04	-1574.08	-2251.71	127.94	508.49	181.66	2.80	PASS
8116.00†	7360.64	-1993.39	-2132.14	16708.00	7610.04	-1574.08	-2251.71	131.35	502.31	178.76	2.82	PASS
8163.58†	7400.07	-2013.97	-2148.99	16708.00	7610.04	-1574.08	-2251.71	136.35	498.14	172.88	2.89	PASS
8216.00†	7441.54	-2040.68	-2166.69	16708.00	7610.04	-1574.08	-2251.71	140.73	503.32	165.53	3.05	PASS
8316.00†	7513.69	-2102.53	-2197.41	16708.00	7610.04	-1574.08	-2251.71	146.66	539.90	152.35	3.55	PASS
8416.00†	7574.90	-2177.06	-2223.37	16708.00	7610.04	-1574.08	-2251.71	150.37	604.66	143.43	4.23	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #13N-3HZ AWB Offset Wellpath: GRENNYER #13N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#01 GRENNYER #13N-3HZ (445'FNL & 1555'FWL, SEC.34) Well: GRENNYER #13N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8516.00†	7623.30	-2261.99	-2243.79	16708.00	7610.04	-1574.08	-2251.71	152.44	688.09	139.07	4.96	PASS
8616.00†	7657.43	-2354.77	-2258.05	16708.00	7610.04	-1574.08	-2251.71	152.75	782.15	137.33	5.72	PASS
8716.00†	7676.26	-2452.55	-2265.70	16708.00	7610.04	-1574.08	-2251.71	141.93	881.07	136.80	6.46	PASS
8784.36	7680.00	-2520.76	-2267.01	16708.00	7610.04	-1574.08	-2251.71	-15.55	949.38	136.81	6.96	PASS
8816.00†	7680.00	-2552.39	-2266.87	16708.00	7610.04	-1574.08	-2251.71	-15.55	980.93	136.87	7.19	PASS
8916.00†	7680.00	-2652.39	-2266.43	16708.00	7610.04	-1574.08	-2251.71	-15.55	1080.68	137.05	7.91	PASS
9016.00†	7680.00	-2752.39	-2265.99	16708.00	7610.04	-1574.08	-2251.71	-15.55	1180.47	137.20	8.64	PASS
9116.00†	7680.00	-2852.39	-2265.55	16708.00	7610.04	-1574.08	-2251.71	-15.55	1280.30	137.34	9.36	PASS
9216.00†	7680.00	-2952.39	-2265.11	16708.00	7610.04	-1574.08	-2251.71	-15.55	1380.15	137.46	10.08	PASS
9316.00†	7680.00	-3052.39	-2264.67	16708.00	7610.04	-1574.08	-2251.71	-15.55	1480.02	137.58	10.80	PASS
9416.00†	7680.00	-3152.39	-2264.23	16708.00	7610.04	-1574.08	-2251.71	-15.55	1579.91	137.68	11.52	PASS
9516.00†	7680.00	-3252.39	-2263.79	16708.00	7610.04	-1574.08	-2251.71	-15.55	1679.81	137.78	12.24	PASS
9616.00†	7680.00	-3352.39	-2263.34	16708.00	7610.04	-1574.08	-2251.71	-15.55	1779.72	137.87	12.96	PASS
9716.00†	7680.00	-3452.39	-2262.90	16708.00	7610.04	-1574.08	-2251.71	-15.55	1879.64	137.95	13.68	PASS
9816.00†	7680.00	-3552.38	-2262.46	16708.00	7610.04	-1574.08	-2251.71	-15.55	1979.57	138.03	14.40	PASS
9916.00†	7680.00	-3652.38	-2262.02	16708.00	7610.04	-1574.08	-2251.71	-15.55	2079.50	138.11	15.12	PASS
10016.00†	7680.00	-3752.38	-2261.58	16708.00	7610.04	-1574.08	-2251.71	-15.55	2179.45	138.18	15.84	PASS
10116.00†	7680.00	-3852.38	-2261.14	16708.00	7610.04	-1574.08	-2251.71	-15.55	2279.39	138.25	16.55	PASS
10216.00†	7680.00	-3952.38	-2260.70	16708.00	7610.04	-1574.08	-2251.71	-15.55	2379.34	138.32	17.27	PASS
10316.00†	7680.00	-4052.38	-2260.26	16708.00	7610.04	-1574.08	-2251.71	-15.55	2479.30	138.38	17.99	PASS
10416.00†	7680.00	-4152.38	-2259.82	16708.00	7610.04	-1574.08	-2251.71	-15.55	2579.26	138.44	18.70	PASS
10516.00†	7680.00	-4252.38	-2259.38	16708.00	7610.04	-1574.08	-2251.71	-15.55	2679.22	138.51	19.42	PASS
10616.00†	7680.00	-4352.38	-2258.94	16708.00	7610.04	-1574.08	-2251.71	-15.55	2779.18	138.57	20.14	PASS
10716.00†	7680.00	-4452.38	-2258.50	16708.00	7610.04	-1574.08	-2251.71	-15.55	2879.15	138.63	20.85	PASS
10816.00†	7680.00	-4552.37	-2258.06	16708.00	7610.04	-1574.08	-2251.71	-15.55	2979.12	138.68	21.57	PASS
10916.00†	7680.00	-4652.37	-2257.61	16708.00	7610.04	-1574.08	-2251.71	-15.55	3079.09	138.74	22.28	PASS
11016.00†	7680.00	-4752.37	-2257.17	16708.00	7610.04	-1574.08	-2251.71	-15.55	3179.07	138.80	23.00	PASS
11116.00†	7680.00	-4852.37	-2256.73	16708.00	7610.04	-1574.08	-2251.71	-15.55	3279.04	138.86	23.71	PASS
11216.00†	7680.00	-4952.37	-2256.29	16708.00	7610.04	-1574.08	-2251.71	-15.55	3379.02	138.91	24.42	PASS
11316.00†	7680.00	-5052.37	-2255.85	16708.00	7610.04	-1574.08	-2251.71	-15.55	3478.99	138.97	25.14	PASS
11416.00†	7680.00	-5152.37	-2255.41	16708.00	7610.04	-1574.08	-2251.71	-15.55	3578.97	139.02	25.85	PASS
11516.00†	7680.00	-5252.37	-2254.97	16708.00	7610.04	-1574.08	-2251.71	-15.55	3678.95	139.08	26.56	PASS
11616.00†	7680.00	-5352.37	-2254.53	16708.00	7610.04	-1574.08	-2251.71	-15.55	3778.93	139.13	27.27	PASS
11716.00†	7680.00	-5452.37	-2254.09	16708.00	7610.04	-1574.08	-2251.71	-15.55	3878.92	139.19	27.98	PASS
11816.00†	7680.00	-5552.36	-2253.65	16708.00	7610.04	-1574.08	-2251.71	-15.55	3978.90	139.24	28.69	PASS
11916.00†	7680.00	-5652.36	-2253.21	16708.00	7610.04	-1574.08	-2251.71	-15.55	4078.88	139.30	29.40	PASS

CLEARANCE DATA - Offset Wellbore: GRENNYER #13N-3HZ AWB Offset Wellpath: GRENNYER #13N-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#01 GRENNYER #13N-3HZ (445'FNL & 1555'FWL, SEC.34)				Well: GRENNYER #13N-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12016.00†	7680.00	-5752.36	-2252.77	16708.00	7610.04	-1574.08	-2251.71	-15.55	4178.87	139.35	30.11	PASS
12116.00†	7680.00	-5852.36	-2252.32	16708.00	7610.04	-1574.08	-2251.71	-15.55	4278.85	139.41	30.82	PASS
12216.00†	7680.00	-5952.36	-2251.88	16708.00	7610.04	-1574.08	-2251.71	-15.55	4378.84	139.46	31.53	PASS
12316.00†	7680.00	-6052.36	-2251.44	16708.00	7610.04	-1574.08	-2251.71	-15.55	4478.82	139.52	32.23	PASS
12416.00†	7680.00	-6152.36	-2251.00	16708.00	7610.04	-1574.08	-2251.71	-15.55	4578.81	139.57	32.94	PASS
12516.00†	7680.00	-6252.36	-2250.56	16708.00	7610.04	-1574.08	-2251.71	-15.55	4678.80	139.63	33.65	PASS
12616.00†	7680.00	-6352.36	-2250.12	16708.00	7610.04	-1574.08	-2251.71	-15.55	4778.79	139.68	34.35	PASS
12716.00†	7680.00	-6452.36	-2249.68	16708.00	7610.04	-1574.08	-2251.71	-15.55	4878.78	139.74	35.06	PASS
12816.00†	7680.00	-6552.36	-2249.24	16708.00	7610.04	-1574.08	-2251.71	-15.55	4978.77	139.80	35.76	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNEMYER #13N-3HZ AWB Offset Wellpath: GRENNEMYER #13N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#01 GRENNEMYER #13N-3HZ (445'FNL & 1555'FWL, SEC.34) Well: GRENNEMYER #13N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12916.00†	7680.00	-6652.35	-2248.80	16708.00	7610.04	-1574.08	-2251.71	-15.55	5078.75	139.85	36.46	PASS
13016.00†	7680.00	-6752.35	-2248.36	16708.00	7610.04	-1574.08	-2251.71	-15.55	5178.74	139.91	37.17	PASS
13116.00†	7680.00	-6852.35	-2247.92	16708.00	7610.04	-1574.08	-2251.71	-15.55	5278.74	139.97	37.87	PASS
13144.91	7680.00	-6881.26	-2247.79	16708.00	7610.04	-1574.08	-2251.71	-15.55	5307.64	139.98	38.07	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: GRENNEMYER #13N-3HZ AWB Offset Wellpath: GRENNEMYER #13N-3HZ AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: GRENNEMYER #13N-3HZ AWB Offset Wellpath: GRENNEMYER #13N-3HZ 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	16.00	1078.00	1062.00	67.00	1128.99	4752.12	-1175.97	4751.57	-1176.46
9.625in Casing Surface	16.00	1078.00	1062.00	67.00	1128.99	4752.12	-1175.97	4751.57	-1176.46
8.75in Open Hole	1078.00	7955.00	6877.00	1128.99	7610.37	4751.57	-1176.46	4563.23	-1280.14
7in Casing Intermediate	16.00	7955.00	7939.00	67.00	7610.37	4752.12	-1175.97	4563.23	-1280.14
6.125in Open Hole	7955.00	16708.00	8753.00	7610.37	7610.04	4563.23	-1280.14	1896.31	-1274.44

## WELLPATH COMPOSITION - Offset Wellbore: GRENNEMYER #13N-3HZ AWB Offset Wellpath: GRENNEMYER #13N-3HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	986.00	Generic gyro - continuous (Standard)	MS ENERGY GYRO SURVEYS <116-986>	GRENNEMYER #13N-3HZ AWB
986.00	16662.00	ISCWSA MWD, Rev. 3 (Standard)	HALLIBURTON SURVEYS <1104-16662>	GRENNEMYER #13N-3HZ AWB
16662.00	16708.00	Blind Drilling (std)	Projection to bit	GRENNEMYER #13N-3HZ AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: GRENNEMYER #13N-3HZ AWB Offset Wellpath: GRENNEMYER #13N-3HZ AWP

MD Reference: Rig on SLOT#01 GRENNEMYER #13N-3HZ (445'FNL & 1555'FWL, SEC.34) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER #23-3 AWB Offset Wellpath: SELTZER #23-3 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#02 EX SELTZER #23-3 (1495'FSL & 1530'FWL, SEC.03.PR) Well: SELTZER #23-3 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
16.00	16.00	0.00	0.00	13.00	16.00	-519.43	-1473.30	-109.42	1562.18	60.58	26.17	PASS
116.00†	116.00	0.00	0.00	113.00	116.00	-519.43	-1473.30	-109.42	1562.18	62.82	25.22	PASS
216.00†	216.00	0.00	0.00	213.00	216.00	-519.43	-1473.30	-109.42	1562.18	65.07	24.34	PASS
316.00†	316.00	0.00	0.00	313.00	316.00	-519.43	-1473.30	-109.42	1562.18	67.32	23.52	PASS
416.00†	416.00	0.00	0.00	413.00	416.00	-519.43	-1473.30	-109.42	1562.18	69.40	22.75	PASS
516.00†	516.00	0.00	0.00	513.00	516.00	-519.43	-1473.30	-109.42	1562.18	71.65	22.02	PASS
616.00†	616.00	0.00	0.00	613.00	616.00	-519.43	-1473.30	-109.42	1562.18	73.91	21.34	PASS
716.00†	716.00	0.00	0.00	713.00	716.00	-519.43	-1473.30	-109.42	1562.18	76.18	20.70	PASS
816.00†	816.00	0.00	0.00	813.00	816.00	-519.43	-1473.30	-109.42	1562.18	78.24	20.10	PASS
916.00†	916.00	0.00	0.00	913.00	916.00	-519.43	-1473.30	-109.42	1562.18	80.51	19.53	PASS
1016.00†	1016.00	0.00	0.00	1013.00	1016.00	-519.43	-1473.30	-109.42	1562.18	82.79	18.99	PASS
1116.00†	1116.00	0.00	0.00	1113.00	1116.00	-519.43	-1473.30	-109.42	1562.18	85.07	18.48	PASS
1216.00†	1216.00	0.00	0.00	1213.00	1216.00	-519.43	-1473.30	-109.42	1562.18	87.35	17.99	PASS
1316.00†	1316.00	0.00	0.00	1313.00	1316.00	-519.43	-1473.30	-109.42	1562.18	89.64	17.53	PASS
1416.00†	1416.00	0.00	0.00	1413.00	1416.00	-519.43	-1473.30	-109.42	1562.18	91.93	17.09	PASS
1516.00†	1516.00	0.00	0.00	1513.00	1516.00	-519.43	-1473.30	-109.42	1562.18	94.23	16.67	PASS
1600.00	1600.00	0.00	0.00	1597.00	1600.00	-519.43	-1473.30	-109.42	1562.18	96.16	16.33	PASS
1616.00†	1616.00	-0.03	-0.03	1613.00	1616.00	-519.43	-1473.30	23.64	1562.14	96.53	16.27	PASS
1716.00†	1715.97	-1.60	-1.72	1712.97	1715.97	-519.43	-1473.30	23.69	1560.03	98.84	15.86	PASS
1816.00†	1815.80	-5.56	-5.95	1812.80	1815.80	-519.43	-1473.30	23.82	1554.73	101.20	15.44	PASS
1916.00†	1915.36	-11.89	-12.72	1912.36	1915.36	-519.43	-1473.30	24.03	1546.25	103.55	15.01	PASS
2016.00†	2014.54	-20.59	-22.03	2011.54	2014.54	-519.43	-1473.30	24.32	1534.61	105.90	14.56	PASS
2116.00†	2113.21	-31.64	-33.86	2110.21	2113.21	-519.43	-1473.30	24.69	1519.84	108.24	14.11	PASS
2216.00†	2211.26	-45.04	-48.20	2208.26	2211.26	-519.43	-1473.30	25.16	1501.98	110.57	13.65	PASS
2316.00†	2308.57	-60.77	-65.03	2305.57	2308.57	-519.43	-1473.30	25.72	1481.07	112.90	13.18	PASS
2416.00†	2405.01	-78.81	-84.34	2402.01	2405.01	-519.43	-1473.30	26.39	1457.17	115.22	12.70	PASS
2516.00†	2500.47	-99.14	-106.09	2497.47	2500.47	-519.43	-1473.30	27.17	1430.35	117.53	12.22	PASS
2616.00†	2594.84	-121.73	-130.26	2591.84	2594.84	-519.43	-1473.30	28.07	1400.69	119.84	11.74	PASS
2716.00†	2687.99	-146.55	-156.82	2684.99	2687.99	-519.43	-1473.30	29.10	1368.27	122.13	11.25	PASS
2816.00†	2779.81	-173.58	-185.74	2776.81	2779.81	-519.43	-1473.30	30.29	1333.20	124.43	10.76	PASS
2916.00†	2870.20	-202.78	-216.99	2867.20	2870.20	-519.43	-1473.30	31.64	1295.60	126.73	10.26	PASS
3016.00†	2959.04	-234.11	-250.52	2956.04	2959.04	-519.43	-1473.30	33.18	1255.63	129.04	9.77	PASS
3116.00†	3046.23	-267.54	-286.29	3043.23	3046.23	-519.43	-1473.30	34.93	1213.43	131.37	9.27	PASS
3117.60	3047.61	-268.10	-286.88	3044.61	3047.61	-519.43	-1473.30	34.96	1212.74	131.40	9.26	PASS
3216.00†	3132.52	-302.05	-323.21	3129.52	3132.52	-519.43	-1473.30	36.29	1170.45	133.70	8.79	PASS
3316.00†	3218.82	-336.55	-360.13	3215.82	3218.82	-519.43	-1473.30	37.73	1128.09	136.10	8.32	PASS

CLEARANCE DATA - Offset Wellbore: SELTZER #23-3 AWB    Offset Wellpath: SELTZER #23-3 AWP												
Facility: SEC.03-T01S-R67W    Slot: SLOT#02 EX SELTZER #23-3 (1495'FSL & 1530'FWL, SEC.03,PR)    Well: SELTZER #23-3    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
3416.00†	3305.11	-371.05	-397.05	3302.11	3305.11	-519.43	-1473.30	39.28	1086.43	138.57	7.87	PASS
3516.00†	3391.40	-405.55	-433.97	3388.40	3391.40	-519.43	-1473.30	40.93	1045.55	141.13	7.43	PASS
3616.00†	3477.70	-440.05	-470.89	3474.70	3477.70	-519.43	-1473.30	42.70	1005.55	143.77	7.02	PASS
3716.00†	3563.99	-474.55	-507.81	3560.99	3563.99	-519.43	-1473.30	44.60	966.53	146.52	6.62	PASS
3816.00†	3650.28	-509.05	-544.73	3647.28	3650.28	-519.43	-1473.30	46.64	928.63	149.37	6.24	PASS
3916.00†	3736.58	-543.56	-581.65	3733.58	3736.58	-519.43	-1473.30	48.82	891.98	152.34	5.87	PASS
4016.00†	3822.87	-578.06	-618.57	3819.87	3822.87	-519.43	-1473.30	51.16	856.74	155.44	5.53	PASS
4116.00†	3909.17	-612.56	-655.49	3906.17	3909.17	-519.43	-1473.30	53.67	823.10	158.67	5.20	PASS
4216.00†	3995.46	-647.06	-692.41	3992.46	3995.46	-519.43	-1473.30	56.34	791.25	162.03	4.90	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER #23-3 AWB Offset Wellpath: SELTZER #23-3 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#02 EX SELTZER #23-3 (1495'FSL & 1530'FWL, SEC.03.PR) Well: SELTZER #23-3 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
4316.00†	4081.75	-681.56	-729.33	4078.75	4081.75	-519.43	-1473.30	59.19	761.43	165.53	4.61	PASS
4416.00†	4168.05	-716.06	-766.25	4165.05	4168.05	-519.43	-1473.30	62.23	733.89	169.15	4.35	PASS
4516.00†	4254.34	-750.56	-803.16	4251.34	4254.34	-519.43	-1473.30	65.44	708.87	172.88	4.11	PASS
4616.00†	4340.63	-785.07	-840.08	4337.63	4340.63	-519.43	-1473.30	68.82	686.68	176.69	3.90	PASS
4716.00†	4426.93	-819.57	-877.00	4423.93	4426.93	-519.43	-1473.30	72.37	667.57	180.55	3.71	PASS
4816.00†	4513.22	-854.07	-913.92	4510.22	4513.22	-519.43	-1473.30	76.06	651.83	184.42	3.54	PASS
4916.00†	4599.52	-888.57	-950.84	4596.52	4599.52	-519.43	-1473.30	79.87	639.71	188.25	3.41	PASS
5016.00†	4685.81	-923.07	-987.76	4682.81	4685.81	-519.43	-1473.30	83.78	631.41	191.98	3.30	PASS
5116.00†	4772.10	-957.57	-1024.68	4769.10	4772.10	-519.43	-1473.30	87.74	627.08	195.55	3.21	PASS
5172.27†	4820.66	-976.99	-1045.46	4818.47	4821.47	-519.43	-1473.30	90.02	626.43	197.50	3.18	PASS
5216.00†	4858.40	-992.07	-1061.60	4855.40	4858.40	-519.43	-1473.30	91.73	626.81	198.93	3.16	PASS
5316.00†	4944.69	-1026.58	-1098.52	4941.69	4944.69	-519.43	-1473.30	95.70	630.60	202.08	3.13	PASS
5393.31†	5011.41	-1053.25	-1127.06	5008.41	5011.41	-519.43	-1473.30	98.73	636.27	204.35	3.12	PASS
5416.00†	5030.98	-1061.08	-1135.44	5027.98	5030.98	-519.43	-1473.30	99.62	638.38	204.99	3.12	PASS
5516.00†	5117.28	-1095.58	-1172.36	5114.28	5117.28	-519.43	-1473.30	103.44	650.01	207.66	3.14	PASS
5616.00†	5203.57	-1130.08	-1209.28	5200.57	5203.57	-519.43	-1473.30	107.15	665.28	210.09	3.17	PASS
5716.00†	5289.87	-1164.58	-1246.20	5286.87	5289.87	-519.43	-1473.30	110.72	683.96	212.33	3.23	PASS
5816.00†	5376.16	-1199.08	-1283.12	5373.16	5376.16	-519.43	-1473.30	114.13	705.76	214.39	3.30	PASS
5916.00†	5462.45	-1233.59	-1320.04	5459.45	5462.45	-519.43	-1473.30	117.36	730.42	216.31	3.38	PASS
6016.00†	5548.75	-1268.09	-1356.96	5545.75	5548.75	-519.43	-1473.30	120.42	757.64	218.13	3.48	PASS
6116.00†	5635.04	-1302.59	-1393.87	5632.04	5635.04	-519.43	-1473.30	123.29	787.18	219.87	3.59	PASS
6216.00†	5721.33	-1337.09	-1430.79	5718.33	5721.33	-519.43	-1473.30	125.99	818.76	221.56	3.70	PASS
6316.00†	5807.63	-1371.59	-1467.71	5804.63	5807.63	-519.43	-1473.30	128.52	852.18	223.23	3.82	PASS
6416.00†	5893.92	-1406.09	-1504.63	5890.92	5893.92	-519.43	-1473.30	130.88	887.22	224.88	3.95	PASS
6516.00†	5980.22	-1440.59	-1541.55	5977.22	5980.22	-519.43	-1473.30	133.08	923.69	226.53	4.08	PASS
6616.00†	6066.51	-1475.10	-1578.47	6063.51	6066.51	-519.43	-1473.30	135.14	961.44	228.19	4.22	PASS
6716.00†	6152.80	-1509.60	-1615.39	6149.80	6152.80	-519.43	-1473.30	137.05	1000.31	229.87	4.36	PASS
6816.00†	6239.10	-1544.10	-1652.31	6236.10	6239.10	-519.43	-1473.30	138.84	1040.19	231.57	4.50	PASS
6916.00†	6325.39	-1578.60	-1689.23	6322.39	6325.39	-519.43	-1473.30	140.51	1080.96	233.30	4.64	PASS
7016.00†	6411.68	-1613.10	-1726.15	6408.68	6411.68	-519.43	-1473.30	142.07	1122.52	235.06	4.78	PASS
7116.00†	6497.98	-1647.60	-1763.07	6494.98	6497.98	-519.43	-1473.30	143.53	1164.79	236.85	4.93	PASS
7216.00†	6584.27	-1682.10	-1799.99	6581.27	6584.27	-519.43	-1473.30	144.89	1207.70	238.66	5.07	PASS
7316.00†	6670.57	-1716.61	-1836.91	6667.57	6670.57	-519.43	-1473.30	146.17	1251.18	240.50	5.21	PASS
7416.00†	6756.86	-1751.11	-1873.83	6753.86	6756.86	-519.43	-1473.30	147.37	1295.17	242.38	5.35	PASS
7516.00†	6843.15	-1785.61	-1910.75	6840.15	6843.15	-519.43	-1473.30	148.49	1339.62	244.28	5.49	PASS
7616.00†	6929.45	-1820.11	-1947.66	6926.45	6929.45	-519.43	-1473.30	149.55	1384.48	246.20	5.63	PASS



CLEARANCE DATA - Offset Wellbore: SELTZER #23-3 AWB    Offset Wellpath: SELTZER #23-3 AWP												
Facility: SEC.03-T01S-R67W			Slot: SLOT#02 EX SELTZER #23-3 (1495'FSL & 1530'FWL, SEC.03,PR)			Well: SELTZER #23-3		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
7716.00†	7015.74	-1854.61	-1984.58	7012.74	7015.74	-519.43	-1473.30	150.54	1429.73	248.16	5.77	PASS
7816.00†	7102.03	-1889.11	-2021.50	7099.03	7102.03	-519.43	-1473.30	151.48	1475.32	250.13	5.91	PASS
7916.00†	7188.33	-1923.61	-2058.42	7185.33	7188.33	-519.43	-1473.30	152.36	1521.22	252.13	6.04	PASS
8016.00†	7274.62	-1958.12	-2095.34	7271.62	7274.62	-519.43	-1473.30	153.20	1567.41	254.16	6.18	PASS
8085.19	7334.33	-1981.99	-2120.89	7331.33	7334.33	-519.43	-1473.30	153.75	1599.52	255.57	6.27	PASS
8116.00†	7360.64	-1993.39	-2132.14	7357.64	7360.64	-519.43	-1473.30	158.56	1614.51	256.20	6.31	PASS
8216.00†	7441.54	-2040.68	-2166.69	7438.54	7441.54	-519.43	-1473.30	171.73	1671.82	258.33	6.48	PASS
8316.00†	7513.69	-2102.53	-2197.41	7510.69	7513.69	-519.43	-1473.30	-177.01	1740.85	260.56	6.69	PASS
8416.00†	7574.90	-2177.06	-2223.37	7571.90	7574.90	-519.43	-1473.30	-165.47	1819.43	262.52	6.94	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER #23-3 AWB Offset Wellpath: SELTZER #23-3 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#02 EX SELTZER #23-3 (1495'FSL & 1530'FWL, SEC.03.PR) Well: SELTZER #23-3 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
8516.00†	7623.30	-2261.99	-2243.79	7620.30	7623.30	-519.43	-1473.30	-151.26	1905.31	264.16	7.23	PASS
8616.00†	7657.43	-2354.77	-2258.05	7654.43	7657.43	-519.43	-1473.30	-131.77	1996.07	265.42	7.53	PASS
8716.00†	7676.26	-2452.55	-2265.70	7673.26	7676.26	-519.43	-1473.30	-106.87	2089.23	266.27	7.86	PASS
8784.36	7680.00	-2520.76	-2267.01	7677.00	7680.00	-519.43	-1473.30	-90.00	2152.97	266.62	8.09	PASS
8816.00†	7680.00	-2552.39	-2266.87	7677.00	7680.00	-519.43	-1473.30	-90.00	2182.36	266.74	8.20	PASS
8916.00†	7680.00	-2652.39	-2266.43	7677.00	7680.00	-519.43	-1473.30	-90.00	2275.65	267.09	8.54	PASS
9016.00†	7680.00	-2752.39	-2265.99	7677.00	7680.00	-519.43	-1473.30	-90.00	2369.49	267.41	8.88	PASS
9116.00†	7680.00	-2852.39	-2265.55	7677.00	7680.00	-519.43	-1473.30	-90.00	2463.81	267.70	9.22	PASS
9216.00†	7680.00	-2952.39	-2265.11	7677.00	7680.00	-519.43	-1473.30	-90.00	2558.57	267.98	9.56	PASS
9316.00†	7680.00	-3052.39	-2264.67	7677.00	7680.00	-519.43	-1473.30	-90.00	2653.71	268.24	9.91	PASS
9416.00†	7680.00	-3152.39	-2264.23	7677.00	7680.00	-519.43	-1473.30	-90.00	2749.19	268.48	10.26	PASS
9516.00†	7680.00	-3252.39	-2263.79	7677.00	7680.00	-519.43	-1473.30	-90.00	2844.98	268.70	10.61	PASS
9616.00†	7680.00	-3352.39	-2263.34	7677.00	7680.00	-519.43	-1473.30	-90.00	2941.06	268.92	10.96	PASS
9716.00†	7680.00	-3452.39	-2262.90	7677.00	7680.00	-519.43	-1473.30	-90.00	3037.39	269.12	11.31	PASS
9816.00†	7680.00	-3552.38	-2262.46	7677.00	7680.00	-519.43	-1473.30	-90.00	3133.94	269.31	11.66	PASS
9916.00†	7680.00	-3652.38	-2262.02	7677.00	7680.00	-519.43	-1473.30	-90.00	3230.71	269.49	12.01	PASS
10016.00†	7680.00	-3752.38	-2261.58	7677.00	7680.00	-519.43	-1473.30	-90.00	3327.67	269.66	12.36	PASS
10116.00†	7680.00	-3852.38	-2261.14	7677.00	7680.00	-519.43	-1473.30	-90.00	3424.80	269.83	12.72	PASS
10216.00†	7680.00	-3952.38	-2260.70	7677.00	7680.00	-519.43	-1473.30	-90.00	3522.10	269.99	13.07	PASS
10316.00†	7680.00	-4052.38	-2260.26	7677.00	7680.00	-519.43	-1473.30	-90.00	3619.54	270.14	13.42	PASS
10416.00†	7680.00	-4152.38	-2259.82	7677.00	7680.00	-519.43	-1473.30	-90.00	3717.11	270.28	13.78	PASS
10516.00†	7680.00	-4252.38	-2259.38	7677.00	7680.00	-519.43	-1473.30	-90.00	3814.82	270.42	14.13	PASS
10616.00†	7680.00	-4352.38	-2258.94	7677.00	7680.00	-519.43	-1473.30	-90.00	3912.64	270.56	14.49	PASS
10716.00†	7680.00	-4452.38	-2258.50	7677.00	7680.00	-519.43	-1473.30	-90.00	4010.56	270.69	14.84	PASS
10816.00†	7680.00	-4552.37	-2258.06	7677.00	7680.00	-519.43	-1473.30	-90.00	4108.59	270.82	15.20	PASS
10916.00†	7680.00	-4652.37	-2257.61	7677.00	7680.00	-519.43	-1473.30	-90.00	4206.71	270.94	15.56	PASS
11016.00†	7680.00	-4752.37	-2257.17	7677.00	7680.00	-519.43	-1473.30	-90.00	4304.91	271.07	15.91	PASS
11116.00†	7680.00	-4852.37	-2256.73	7677.00	7680.00	-519.43	-1473.30	-90.00	4403.20	271.18	16.27	PASS
11216.00†	7680.00	-4952.37	-2256.29	7677.00	7680.00	-519.43	-1473.30	-90.00	4501.56	271.30	16.62	PASS
11316.00†	7680.00	-5052.37	-2255.85	7677.00	7680.00	-519.43	-1473.30	-90.00	4599.99	271.41	16.98	PASS
11416.00†	7680.00	-5152.37	-2255.41	7677.00	7680.00	-519.43	-1473.30	-90.00	4698.49	271.52	17.34	PASS
11516.00†	7680.00	-5252.37	-2254.97	7677.00	7680.00	-519.43	-1473.30	-90.00	4797.05	271.63	17.69	PASS
11616.00†	7680.00	-5352.37	-2254.53	7677.00	7680.00	-519.43	-1473.30	-90.00	4895.67	271.74	18.05	PASS
11716.00†	7680.00	-5452.37	-2254.09	7677.00	7680.00	-519.43	-1473.30	-90.00	4994.35	271.85	18.41	PASS
11816.00†	7680.00	-5552.36	-2253.65	7677.00	7680.00	-519.43	-1473.30	-90.00	5093.07	271.95	18.76	PASS
11916.00†	7680.00	-5652.36	-2253.21	7677.00	7680.00	-519.43	-1473.30	-90.00	5191.85	272.05	19.12	PASS

CLEARANCE DATA - Offset Wellbore: SELTZER #23-3 AWB    Offset Wellpath: SELTZER #23-3 AWP												
Facility: SEC.03-T01S-R67W    Slot: SLOT#02 EX SELTZER #23-3 (1495'FSL & 1530'FWL, SEC.03,PR)    Well: SELTZER #23-3    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
12016.00†	7680.00	-5752.36	-2252.77	7677.00	7680.00	-519.43	-1473.30	-90.00	5290.67	272.15	19.48	PASS
12116.00†	7680.00	-5852.36	-2252.32	7677.00	7680.00	-519.43	-1473.30	-90.00	5389.53	272.26	19.83	PASS
12216.00†	7680.00	-5952.36	-2251.88	7677.00	7680.00	-519.43	-1473.30	-90.00	5488.44	272.35	20.19	PASS
12316.00†	7680.00	-6052.36	-2251.44	7677.00	7680.00	-519.43	-1473.30	-90.00	5587.38	272.45	20.55	PASS
12416.00†	7680.00	-6152.36	-2251.00	7677.00	7680.00	-519.43	-1473.30	-90.00	5686.36	272.55	20.90	PASS
12516.00†	7680.00	-6252.36	-2250.56	7677.00	7680.00	-519.43	-1473.30	-90.00	5785.38	272.65	21.26	PASS
12616.00†	7680.00	-6352.36	-2250.12	7677.00	7680.00	-519.43	-1473.30	-90.00	5884.43	272.74	21.62	PASS
12716.00†	7680.00	-6452.36	-2249.68	7677.00	7680.00	-519.43	-1473.30	-90.00	5983.51	272.84	21.97	PASS
12816.00†	7680.00	-6552.36	-2249.24	7677.00	7680.00	-519.43	-1473.30	-90.00	6082.62	272.94	22.33	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER #23-3 AWB Offset Wellpath: SELTZER #23-3 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#02 EX SELTZER #23-3 (1495'FSL & 1530'FWL, SEC.03,PR) Well: SELTZER #23-3 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
12916.00†	7680.00	-6652.35	-2248.80	7677.00	7680.00	-519.43	-1473.30	-90.00	6181.76	273.03	22.68	PASS
13016.00†	7680.00	-6752.35	-2248.36	7677.00	7680.00	-519.43	-1473.30	-90.00	6280.93	273.13	23.04	PASS
13116.00†	7680.00	-6852.35	-2247.92	7677.00	7680.00	-519.43	-1473.30	-90.00	6380.12	273.22	23.40	PASS
13144.91	7680.00	-6881.26	-2247.79	7677.00	7680.00	-519.43	-1473.30	-90.00	6408.80	273.25	23.50	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: SELTZER #23-3 AWB Offset Wellpath: SELTZER #23-3 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: SELTZER #23-3 AWB Offset Wellpath: SELTZER #23-3 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	321.00	321.00	-13.00	308.00	-316.62	-898.13	-316.62	-898.13
8.625in Casing Surface	0.00	321.00	321.00	-13.00	308.00	-316.62	-898.13	-316.62	-898.13
7.875in Open Hole	321.00	8425.00	8104.00	308.00	8412.00	-316.62	-898.13	-316.62	-898.13
4.5in Casing Production	0.00	8425.00	8425.00	-13.00	8412.00	-316.62	-898.13	-316.62	-898.13

## WELLPATH COMPOSITION - Offset Wellbore: SELTZER #23-3 AWB Offset Wellpath: SELTZER #23-3 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8425.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <8425>	SELTZER #23-3 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: SELTZER #23-3 AWB Offset Wellpath: SELTZER #23-3 AWP

MD Reference: Rig on SLOT#02 SELTZER #23-3 (1495'FSL & 1530'FWL, SEC.03) (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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-3CDH PWB Offset Wellpath: SHOOK 3-10-3CDH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#07 SHOOK 3-10-3CDH (2058'FSL & 2199'FEL, SEC.03) Well: SHOOK 3-10-3CDH Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	15.00	16.00	0.00	75.65	90.00	75.65	1.26	248.96	PASS
116.00†	116.00	0.00	0.00	115.00	116.00	0.00	75.65	90.00	75.65	1.88	81.73	PASS
216.00†	216.00	0.00	0.00	215.00	216.00	0.00	75.65	90.00	75.65	2.44	50.58	PASS
316.00†	316.00	0.00	0.00	315.00	316.00	0.00	75.65	90.00	75.65	3.04	35.95	PASS
416.00†	416.00	0.00	0.00	415.00	416.00	0.00	75.65	90.00	75.65	3.65	27.75	PASS
516.00†	516.00	0.00	0.00	515.00	516.00	0.00	75.65	90.00	75.65	4.27	22.56	PASS
616.00†	616.00	0.00	0.00	615.00	616.00	0.00	75.65	90.00	75.65	4.90	18.99	PASS
716.00†	716.00	0.00	0.00	715.00	716.00	0.00	75.65	90.00	75.65	5.52	16.39	PASS
816.00†	816.00	0.00	0.00	815.00	816.00	0.00	75.65	90.00	75.65	5.76	14.49	PASS
916.00†	916.00	0.00	0.00	915.00	916.00	0.00	75.65	90.00	75.65	6.39	12.93	PASS
1016.00†	1016.00	0.00	0.00	1015.00	1016.00	0.00	75.65	90.00	75.65	7.02	11.67	PASS
1116.00†	1116.00	0.00	0.00	1115.00	1116.00	0.00	75.65	90.00	75.65	7.64	10.63	PASS
1216.00†	1216.00	0.00	0.00	1215.00	1216.00	0.00	75.65	90.00	75.65	8.27	9.77	PASS
1316.00†	1316.00	0.00	0.00	1315.00	1316.00	0.00	75.65	90.00	75.65	8.90	9.03	PASS
1416.00†	1416.00	0.00	0.00	1415.00	1416.00	0.00	75.65	90.00	75.65	9.52	8.40	PASS
1516.00†	1516.00	0.00	0.00	1515.00	1516.00	0.00	75.65	90.00	75.65	10.15	7.85	PASS
1600.00	1600.00	0.00	0.00	1599.00	1600.00	0.00	75.65	90.00	75.65	10.68	7.44	PASS
1616.00†	1616.00	-0.03	-0.03	1615.00	1616.00	0.00	75.65	-136.96	75.69	10.78	7.37	PASS
1716.00†	1715.97	-1.60	-1.72	1714.97	1715.97	0.00	75.65	-138.10	77.39	11.44	7.07	PASS
1816.00†	1815.80	-5.56	-5.95	1814.80	1815.80	0.00	75.65	-140.76	81.79	12.23	6.97	PASS
1916.00†	1915.36	-11.89	-12.72	1914.36	1915.36	0.00	75.65	-144.44	89.17	13.04	7.11	PASS
2016.00†	2014.54	-20.59	-22.03	2013.54	2014.54	0.00	75.65	-148.57	99.83	13.86	7.47	PASS
2116.00†	2113.21	-31.64	-33.86	2112.53	2113.53	-0.03	75.64	-152.68	113.98	14.69	8.04	PASS
2216.00†	2211.26	-45.04	-48.20	2213.78	2214.75	-2.08	74.77	-155.84	130.31	15.54	8.67	PASS
2316.00†	2308.57	-60.77	-65.03	2315.53	2316.33	-7.46	72.48	-157.79	147.69	16.45	9.27	PASS
2416.00†	2405.01	-78.81	-84.34	2417.76	2418.11	-16.20	68.76	-158.87	165.92	17.37	9.85	PASS
2516.00†	2500.47	-99.14	-106.09	2520.43	2519.93	-28.33	63.59	-159.30	184.88	18.29	10.41	PASS
2616.00†	2594.84	-121.73	-130.26	2623.53	2621.62	-43.89	56.97	-159.26	204.52	19.23	10.94	PASS
2716.00†	2687.99	-146.55	-156.82	2727.03	2723.03	-62.88	48.88	-158.87	224.81	20.20	11.43	PASS
2816.00†	2779.81	-173.58	-185.74	2830.89	2823.99	-85.32	39.33	-158.20	245.76	21.23	11.88	PASS
2916.00†	2870.20	-202.78	-216.99	2935.09	2924.31	-111.20	28.31	-157.32	267.37	22.34	12.26	PASS
3016.00†	2959.04	-234.11	-250.52	3039.61	3023.85	-140.51	15.83	-156.29	289.66	23.60	12.56	PASS
3116.00†	3046.23	-267.54	-286.29	3144.41	3122.43	-173.23	1.90	-155.13	312.66	24.95	12.81	PASS
3117.60	3047.61	-268.10	-286.88	3146.09	3123.99	-173.78	1.67	-155.11	313.04	24.97	12.81	PASS
3216.00†	3132.52	-302.05	-323.21	3249.78	3220.16	-209.46	-13.52	-153.94	334.91	26.34	12.98	PASS
3316.00†	3218.82	-336.55	-360.13	3353.03	3314.53	-247.99	-29.92	-152.50	355.02	27.94	12.95	PASS

CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-3CDH PWB Offset Wellpath: SHOOK 3-10-3CDH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W			Slot: SLOT#07 SHOOK 3-10-3CDH (2058'FSL & 2199'FEL, SEC.03)			Well: SHOOK 3-10-3CDH		Threshold Value=1.00 † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	3450.70	3403.47	-285.14	-45.74	-151.18	374.80	29.64	12.88	PASS
3516.00†	3391.40	-405.55	-433.97	3548.38	3492.41	-322.29	-61.56	-149.99	394.75	31.44	12.77	PASS
3616.00†	3477.70	-440.05	-470.89	3646.06	3581.35	-359.44	-77.37	-148.92	414.85	33.35	12.64	PASS
3716.00†	3563.99	-474.55	-507.81	3743.73	3670.29	-396.59	-93.19	-147.94	435.07	35.33	12.50	PASS
3816.00†	3650.28	-509.05	-544.73	3841.41	3759.23	-433.74	-109.00	-147.05	455.41	37.39	12.36	PASS
3916.00†	3736.58	-543.56	-581.65	3939.08	3848.17	-470.89	-124.82	-146.24	475.84	39.50	12.21	PASS
4016.00†	3822.87	-578.06	-618.57	4036.76	3937.11	-508.04	-140.64	-145.50	496.36	41.67	12.07	PASS
4116.00†	3909.17	-612.56	-655.49	4134.44	4026.05	-545.19	-156.45	-144.81	516.95	43.88	11.93	PASS
4216.00†	3995.46	-647.06	-692.41	4232.11	4114.99	-582.34	-172.27	-144.18	537.60	46.12	11.79	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-3CDH PWB Offset Wellpath: SHOOK 3-10-3CDH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#07 SHOOK 3-10-3CDH (2058'FSL & 2199'FEL, SEC.03) Well: SHOOK 3-10-3CDH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	4329.79	4203.93	-619.50	-188.09	-143.59	558.32	48.40	11.66	PASS
4416.00†	4168.05	-716.06	-766.25	4427.47	4292.87	-656.65	-203.90	-143.04	579.09	50.71	11.54	PASS
4516.00†	4254.34	-750.56	-803.16	4525.14	4381.81	-693.80	-219.72	-142.54	599.90	53.04	11.42	PASS
4616.00†	4340.63	-785.07	-840.08	4622.82	4470.75	-730.95	-235.53	-142.06	620.76	55.40	11.31	PASS
4716.00†	4426.93	-819.57	-877.00	4720.49	4559.69	-768.10	-251.35	-141.62	641.65	57.77	11.21	PASS
4816.00†	4513.22	-854.07	-913.92	4818.17	4648.63	-805.25	-267.17	-141.21	662.58	60.16	11.11	PASS
4916.00†	4599.52	-888.57	-950.84	4915.85	4737.57	-842.40	-282.98	-140.82	683.54	62.57	11.02	PASS
5016.00†	4685.81	-923.07	-987.76	5013.52	4826.51	-879.55	-298.80	-140.45	704.53	64.99	10.93	PASS
5116.00†	4772.10	-957.57	-1024.68	5111.20	4915.45	-916.70	-314.62	-140.10	725.54	67.42	10.85	PASS
5216.00†	4858.40	-992.07	-1061.60	5208.87	5004.39	-953.85	-330.43	-139.78	746.58	69.86	10.77	PASS
5316.00†	4944.69	-1026.58	-1098.52	5306.55	5093.33	-991.00	-346.25	-139.47	767.64	72.31	10.69	PASS
5416.00†	5030.98	-1061.08	-1135.44	5404.23	5182.27	-1028.15	-362.06	-139.18	788.72	74.77	10.62	PASS
5516.00†	5117.28	-1095.58	-1172.36	5501.90	5271.21	-1065.31	-377.88	-138.90	809.82	77.24	10.56	PASS
5616.00†	5203.57	-1130.08	-1209.28	5599.58	5360.15	-1102.46	-393.70	-138.64	830.93	79.71	10.49	PASS
5716.00†	5289.87	-1164.58	-1246.20	5697.26	5449.09	-1139.61	-409.51	-138.39	852.06	82.19	10.43	PASS
5816.00†	5376.16	-1199.08	-1283.12	5794.93	5538.03	-1176.76	-425.33	-138.15	873.21	84.68	10.38	PASS
5916.00†	5462.45	-1233.59	-1320.04	5892.61	5626.97	-1213.91	-441.15	-137.93	894.37	87.17	10.32	PASS
6016.00†	5548.75	-1268.09	-1356.96	5990.28	5715.91	-1251.06	-456.96	-137.71	915.54	89.67	10.27	PASS
6116.00†	5635.04	-1302.59	-1393.87	6087.96	5804.85	-1288.21	-472.78	-137.51	936.73	92.17	10.22	PASS
6216.00†	5721.33	-1337.09	-1430.79	6185.64	5893.79	-1325.36	-488.59	-137.31	957.92	94.67	10.17	PASS
6316.00†	5807.63	-1371.59	-1467.71	6283.31	5982.73	-1362.51	-504.41	-137.12	979.13	97.18	10.13	PASS
6416.00†	5893.92	-1406.09	-1504.63	6380.99	6071.67	-1399.66	-520.23	-136.94	1000.34	99.69	10.09	PASS
6516.00†	5980.22	-1440.59	-1541.55	6478.67	6160.61	-1436.81	-536.04	-136.77	1021.57	102.21	10.05	PASS
6616.00†	6066.51	-1475.10	-1578.47	6576.34	6249.55	-1473.96	-551.86	-136.60	1042.80	104.73	10.01	PASS
6716.00†	6152.80	-1509.60	-1615.39	6674.02	6338.49	-1511.12	-567.68	-136.44	1064.04	107.25	9.97	PASS
6816.00†	6239.10	-1544.10	-1652.31	6771.69	6427.43	-1548.27	-583.49	-136.29	1085.29	109.77	9.93	PASS
6916.00†	6325.39	-1578.60	-1689.23	6869.37	6516.37	-1585.42	-599.31	-136.14	1106.55	112.30	9.90	PASS
7016.00†	6411.68	-1613.10	-1726.15	6967.05	6605.31	-1622.57	-615.12	-136.00	1127.81	114.83	9.87	PASS
7116.00†	6497.98	-1647.60	-1763.07	7064.72	6694.25	-1659.72	-630.94	-135.87	1149.08	117.36	9.84	PASS
7216.00†	6584.27	-1682.10	-1799.99	7162.40	6783.18	-1696.87	-646.76	-135.73	1170.35	119.89	9.80	PASS
7316.00†	6670.57	-1716.61	-1836.91	7260.07	6872.12	-1734.02	-662.57	-135.61	1191.63	122.43	9.78	PASS
7416.00†	6756.86	-1751.11	-1873.83	7357.75	6961.06	-1771.17	-678.39	-135.49	1212.92	124.96	9.75	PASS
7516.00†	6843.15	-1785.61	-1910.75	7455.43	7050.00	-1808.32	-694.21	-135.37	1234.21	127.50	9.72	PASS
7616.00†	6929.45	-1820.11	-1947.66	7553.10	7138.94	-1845.47	-710.02	-135.25	1255.50	130.04	9.69	PASS
7716.00†	7015.74	-1854.61	-1984.58	7650.78	7227.88	-1882.62	-725.84	-135.14	1276.80	132.58	9.67	PASS
7816.00†	7102.03	-1889.11	-2021.50	7748.46	7316.82	-1919.77	-741.65	-135.04	1298.11	135.12	9.64	PASS



CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-3CDH PWB Offset Wellpath: SHOOK 3-10-3CDH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W		Slot: SLOT#07 SHOOK 3-10-3CDH (2058'FSL & 2199'FEL, SEC.03)				Well: SHOOK 3-10-3CDH		Threshold Value=1.00 † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7916.00†	7188.33	-1923.61	-2058.42	7846.13	7405.76	-1956.93	-757.47	-134.93	1319.42	137.67	9.62	PASS
8016.00†	7274.62	-1958.12	-2095.34	7943.12	7494.05	-1993.88	-773.17	-134.83	1340.73	140.21	9.60	PASS
8085.19	7334.33	-1981.99	-2120.89	8005.16	7548.78	-2021.38	-782.88	-134.58	1355.65	142.18	9.57	PASS
8116.00†	7360.64	-1993.39	-2132.14	8032.36	7571.78	-2035.30	-786.95	-129.90	1362.30	143.20	9.55	PASS
8216.00†	7441.54	-2040.68	-2166.69	8119.81	7640.93	-2087.29	-799.15	-117.99	1382.78	146.69	9.46	PASS
8316.00†	7513.69	-2102.53	-2197.41	8206.27	7700.86	-2148.60	-809.64	-109.79	1401.09	150.58	9.34	PASS
8416.00†	7574.90	-2177.06	-2223.37	8292.06	7750.70	-2217.79	-818.29	-104.09	1416.63	154.70	9.19	PASS
8516.00†	7623.30	-2261.99	-2243.79	8377.42	7789.66	-2293.36	-824.95	-100.19	1428.90	158.97	9.02	PASS
8616.00†	7657.43	-2354.77	-2258.05	8462.56	7817.10	-2373.75	-829.53	-97.71	1437.54	163.33	8.83	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-3CDH PWB Offset Wellpath: SHOOK 3-10-3CDH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#07 SHOOK 3-10-3CDH (2058'FSL & 2199'FEL, SEC.03) Well: SHOOK 3-10-3CDH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8716.00†	7676.26	-2452.55	-2265.70	8547.62	7832.52	-2457.29	-831.92	-96.43	1442.28	167.71	8.63	PASS
8784.36	7680.00	-2520.76	-2267.01	8605.79	7835.97	-2515.32	-832.28	-96.20	1443.19	170.70	8.48	PASS
8816.00†	7680.00	-2552.39	-2266.87	8636.45	7836.00	-2545.99	-832.15	-96.21	1443.19	172.41	8.40	PASS
8916.00†	7680.00	-2652.39	-2266.43	8736.45	7836.00	-2645.99	-831.71	-96.21	1443.19	178.09	8.13	PASS
9016.00†	7680.00	-2752.39	-2265.99	8836.45	7836.00	-2745.98	-831.26	-96.21	1443.20	183.81	7.87	PASS
9116.00†	7680.00	-2852.39	-2265.55	8936.45	7836.00	-2845.98	-830.81	-96.21	1443.21	189.57	7.63	PASS
9216.00†	7680.00	-2952.39	-2265.11	9036.45	7836.00	-2945.98	-830.37	-96.21	1443.21	195.36	7.41	PASS
9316.00†	7680.00	-3052.39	-2264.67	9136.45	7836.00	-3045.98	-829.92	-96.21	1443.22	201.17	7.19	PASS
9416.00†	7680.00	-3152.39	-2264.23	9236.45	7836.00	-3145.98	-829.47	-96.21	1443.22	207.01	6.99	PASS
9516.00†	7680.00	-3252.39	-2263.79	9336.45	7836.00	-3245.98	-829.03	-96.21	1443.23	212.87	6.80	PASS
9616.00†	7680.00	-3352.39	-2263.34	9436.45	7836.00	-3345.98	-828.58	-96.21	1443.23	218.75	6.61	PASS
9716.00†	7680.00	-3452.39	-2262.90	9536.45	7836.00	-3445.98	-828.13	-96.21	1443.24	224.54	6.44	PASS
9816.00†	7680.00	-3552.38	-2262.46	9636.45	7836.00	-3545.98	-827.69	-96.21	1443.25	230.57	6.27	PASS
9916.00†	7680.00	-3652.38	-2262.02	9736.45	7836.00	-3645.98	-827.24	-96.21	1443.25	236.51	6.11	PASS
10016.00†	7680.00	-3752.38	-2261.58	9836.45	7836.00	-3745.97	-826.79	-96.21	1443.26	242.46	5.96	PASS
10116.00†	7680.00	-3852.38	-2261.14	9936.45	7836.00	-3845.97	-826.35	-96.21	1443.26	248.42	5.82	PASS
10216.00†	7680.00	-3952.38	-2260.70	10036.45	7836.00	-3945.97	-825.90	-96.21	1443.27	254.40	5.68	PASS
10316.00†	7680.00	-4052.38	-2260.26	10136.45	7836.00	-4045.97	-825.45	-96.21	1443.28	260.39	5.55	PASS
10416.00†	7680.00	-4152.38	-2259.82	10236.45	7836.00	-4145.97	-825.01	-96.21	1443.28	266.39	5.43	PASS
10516.00†	7680.00	-4252.38	-2259.38	10336.45	7836.00	-4245.97	-824.56	-96.21	1443.29	272.41	5.31	PASS
10616.00†	7680.00	-4352.38	-2258.94	10436.45	7836.00	-4345.97	-824.11	-96.21	1443.29	278.43	5.19	PASS
10716.00†	7680.00	-4452.38	-2258.50	10536.45	7836.00	-4445.97	-823.67	-96.21	1443.30	284.46	5.08	PASS
10816.00†	7680.00	-4552.37	-2258.06	10636.45	7836.00	-4545.97	-823.22	-96.21	1443.30	290.50	4.98	PASS
10916.00†	7680.00	-4652.37	-2257.61	10736.45	7836.00	-4645.97	-822.77	-96.21	1443.31	296.55	4.87	PASS
11016.00†	7680.00	-4752.37	-2257.17	10836.45	7836.00	-4745.96	-822.33	-96.21	1443.32	302.61	4.78	PASS
11116.00†	7680.00	-4852.37	-2256.73	10936.45	7836.00	-4845.96	-821.88	-96.21	1443.32	308.68	4.68	PASS
11216.00†	7680.00	-4952.37	-2256.29	11036.45	7836.00	-4945.96	-821.43	-96.21	1443.33	314.75	4.59	PASS
11316.00†	7680.00	-5052.37	-2255.85	11136.45	7836.00	-5045.96	-820.99	-96.21	1443.33	320.83	4.51	PASS
11416.00†	7680.00	-5152.37	-2255.41	11236.45	7836.00	-5145.96	-820.54	-96.21	1443.34	326.91	4.42	PASS
11516.00†	7680.00	-5252.37	-2254.97	11336.45	7836.00	-5245.96	-820.09	-96.21	1443.34	333.00	4.34	PASS
11616.00†	7680.00	-5352.37	-2254.53	11436.45	7836.00	-5345.96	-819.65	-96.21	1443.35	339.10	4.26	PASS
11716.00†	7680.00	-5452.37	-2254.09	11536.45	7836.00	-5445.96	-819.20	-96.21	1443.36	345.20	4.19	PASS
11816.00†	7680.00	-5552.36	-2253.65	11636.45	7836.00	-5545.96	-818.76	-96.21	1443.36	351.30	4.11	PASS
11916.00†	7680.00	-5652.36	-2253.21	11736.45	7836.00	-5645.96	-818.31	-96.21	1443.37	357.41	4.04	PASS
12016.00†	7680.00	-5752.36	-2252.77	11836.45	7836.00	-5745.95	-817.86	-96.21	1443.37	363.53	3.98	PASS
12116.00†	7680.00	-5852.36	-2252.32	11936.45	7836.00	-5845.95	-817.42	-96.21	1443.38	369.65	3.91	PASS

CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-3CDH PWB    Offset Wellpath: SHOOK 3-10-3CDH PWP (REV-A.0)												
Facility: SEC.03-T1S-R67W			Slot: SLOT#07 SHOOK 3-10-3CDH (2058'FSL & 2199'FEL, SEC.03)			Well: SHOOK 3-10-3CDH		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12216.00†	7680.00	-5952.36	-2251.88	12036.45	7836.00	-5945.95	-816.97	-96.21	1443.38	375.77	3.85	PASS
12316.00†	7680.00	-6052.36	-2251.44	12136.45	7836.00	-6045.95	-816.52	-96.21	1443.39	381.90	3.78	PASS
12416.00†	7680.00	-6152.36	-2251.00	12236.45	7836.00	-6145.95	-816.08	-96.21	1443.40	388.03	3.72	PASS
12516.00†	7680.00	-6252.36	-2250.56	12336.45	7836.00	-6245.95	-815.63	-96.21	1443.40	394.16	3.67	PASS
12616.00†	7680.00	-6352.36	-2250.12	12436.45	7836.00	-6345.95	-815.18	-96.21	1443.41	400.30	3.61	PASS
12716.00†	7680.00	-6452.36	-2249.68	12536.45	7836.00	-6445.95	-814.74	-96.20	1443.41	406.44	3.56	PASS
12816.00†	7680.00	-6552.36	-2249.24	12636.45	7836.00	-6545.95	-814.29	-96.20	1443.42	412.58	3.50	PASS
12916.00†	7680.00	-6652.35	-2248.80	12736.45	7836.00	-6645.95	-813.84	-96.20	1443.42	418.73	3.45	PASS
13016.00†	7680.00	-6752.35	-2248.36	12836.45	7836.00	-6745.95	-813.40	-96.20	1443.43	424.88	3.40	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SHOOK 3-10-3CDH PWB Offset Wellpath: SHOOK 3-10-3CDH PWP (REV-A.0)

Facility: SEC.03-T1S-R67W Slot: SLOT#07 SHOOK 3-10-3CDH (2058'FSL & 2199'FEL, SEC.03) Well: SHOOK 3-10-3CDH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
13116.00†	7680.00	-6852.35	-2247.92	12936.45	7836.00	-6845.94	-812.95	-96.20	1443.44	431.03	3.35	PASS
13144.91	7680.00	-6881.26	-2247.79	12965.36	7836.00	-6874.85	-812.82	-96.20	1443.44	432.81	3.34	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: SHOOK 3-10-3CDH PWB Offset Wellpath: SHOOK 3-10-3CDH 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: SHOOK 3-10-3CDH PWB Offset Wellpath: SHOOK 3-10-3CDH 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	16.00	800.00	784.00	17.00	801.00	0.00	46.12	0.00	46.12
9.625in Casing Surface	16.00	800.00	784.00	17.00	801.00	0.00	46.12	0.00	46.12
8.5in Open Hole	800.00	12971.86	12171.86	801.00	7836.00	0.00	46.12	-2097.44	-224.67
5.5in Casing Production	16.00	12971.86	12955.86	17.00	7836.00	0.00	46.12	-2097.44	-224.67

## SURVEY PROGRAM - Offset Wellbore: SHOOK 3-10-3CDH PWB Offset Wellpath: SHOOK 3-10-3CDH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	12971.86	Custom NaviTrak (Standard) (Rockies 0.03Gt model)		SHOOK 3-10-3CDH PWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: SHOOK 3-10-3CDH PWB Offset Wellpath: SHOOK 3-10-3CDH PWP (REV-A.0)

MD Reference: RIG (16'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #35N-3HZ AWP Offset Wellpath: GRENNYER #35N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#05 GRENNYER #35N-3HZ (445'FNL & 1615'FWL, SEC.34) Well: GRENNYER #35N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	15281.14	7606.04	27.12	-1400.61	-88.89	7718.24	105.83	73.49	PASS
116.00†	116.00	0.00	0.00	15281.73	7606.05	26.53	-1400.58	-88.92	7619.92	106.52	72.08	PASS
216.00†	216.00	0.00	0.00	15282.34	7606.06	25.92	-1400.55	-88.94	7521.65	106.69	71.04	PASS
316.00†	316.00	0.00	0.00	15282.96	7606.07	25.31	-1400.52	-88.97	7423.42	106.86	70.00	PASS
416.00†	416.00	0.00	0.00	15283.58	7606.08	24.68	-1400.49	-88.99	7325.24	107.04	68.95	PASS
516.00†	516.00	0.00	0.00	15284.22	7606.08	24.04	-1400.46	-89.02	7227.11	107.24	67.90	PASS
616.00†	616.00	0.00	0.00	15284.88	7606.09	23.39	-1400.43	-89.04	7129.03	107.44	66.86	PASS
716.00†	716.00	0.00	0.00	15285.54	7606.10	22.72	-1400.40	-89.07	7031.01	107.65	65.81	PASS
816.00†	816.00	0.00	0.00	15286.22	7606.11	22.04	-1400.37	-89.10	6933.04	107.66	64.76	PASS
916.00†	916.00	0.00	0.00	15286.92	7606.12	21.35	-1400.33	-89.13	6835.14	107.89	63.70	PASS
1016.00†	1016.00	0.00	0.00	15287.62	7606.13	20.64	-1400.30	-89.16	6737.29	108.14	62.65	PASS
1116.00†	1116.00	0.00	0.00	15288.35	7606.14	19.92	-1400.26	-89.19	6639.50	108.39	61.59	PASS
1216.00†	1216.00	0.00	0.00	15289.08	7606.15	19.19	-1400.23	-89.22	6541.79	108.66	60.54	PASS
1316.00†	1316.00	0.00	0.00	15289.84	7606.16	18.43	-1400.19	-89.25	6444.14	108.94	59.48	PASS
1416.00†	1416.00	0.00	0.00	15290.61	7606.17	17.66	-1400.15	-89.28	6346.57	109.23	58.42	PASS
1516.00†	1516.00	0.00	0.00	15291.40	7606.18	16.88	-1400.11	-89.31	6249.07	109.54	57.36	PASS
1600.00	1600.00	0.00	0.00	15292.07	7606.19	16.20	-1400.08	-89.34	6167.24	109.81	56.47	PASS
1616.00†	1616.00	-0.03	-0.03	15292.22	7606.19	16.06	-1400.07	44.68	6151.65	109.86	56.30	PASS
1716.00†	1715.97	-1.60	-1.72	15293.89	7606.22	14.39	-1399.99	51.40	6053.96	110.19	55.24	PASS
1816.00†	1815.80	-5.56	-5.95	15296.88	7606.26	11.40	-1399.83	59.51	5955.90	110.52	54.18	PASS
1916.00†	1915.36	-11.89	-12.72	15301.24	7606.33	7.05	-1399.61	69.05	5857.56	110.84	53.13	PASS
2016.00†	2014.54	-20.59	-22.03	15306.99	7606.43	1.31	-1399.30	79.82	5759.04	111.15	52.09	PASS
2116.00†	2113.21	-31.64	-33.86	15314.15	7606.56	-5.84	-1398.90	91.22	5660.46	111.45	51.06	PASS
2216.00†	2211.26	-45.04	-48.20	15322.76	7606.72	-14.43	-1398.40	102.42	5561.92	111.73	50.05	PASS
2316.00†	2308.57	-60.77	-65.03	15337.15	7607.03	-28.79	-1397.53	112.60	5463.54	112.06	49.02	PASS
2416.00†	2405.01	-78.81	-84.34	15374.98	7607.78	-66.55	-1395.18	121.36	5365.38	112.63	47.89	PASS
2516.00†	2500.47	-99.14	-106.09	15415.62	7608.46	-107.09	-1392.57	129.06	5267.51	113.20	46.78	PASS
2616.00†	2594.84	-121.73	-130.26	15458.84	7609.02	-150.22	-1389.72	135.71	5170.02	113.77	45.68	PASS
2716.00†	2687.99	-146.55	-156.82	15503.26	7609.43	-194.54	-1386.70	141.39	5073.02	114.30	44.61	PASS
2816.00†	2779.81	-173.58	-185.74	15528.25	7609.60	-219.46	-1385.03	145.95	4976.67	114.57	43.66	PASS
2916.00†	2870.20	-202.78	-216.99	15555.30	7609.77	-246.47	-1383.35	149.75	4881.17	114.82	42.73	PASS
3016.00†	2959.04	-234.11	-250.52	15584.43	7609.91	-275.55	-1381.69	152.96	4786.63	115.06	41.82	PASS
3116.00†	3046.23	-267.54	-286.29	15615.66	7610.03	-306.73	-1380.06	155.71	4693.20	115.29	40.92	PASS
3117.60	3047.61	-268.10	-286.88	15616.18	7610.03	-307.25	-1380.04	155.75	4691.72	115.29	40.91	PASS
3216.00†	3132.52	-302.05	-323.21	15648.09	7610.12	-339.13	-1378.56	156.24	4600.43	115.50	40.04	PASS
3316.00†	3218.82	-336.55	-360.13	15689.13	7610.16	-380.13	-1376.89	156.89	4507.72	115.83	39.12	PASS

CLEARANCE DATA - Offset Wellbore: GRENEMYER #35N-3HZ AWB    Offset Wellpath: GRENEMYER #35N-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#05 GRENEMYER #35N-3HZ (445'FNL & 1615'FWL, SEC.34)			Well: GRENEMYER #35N-3HZ			Threshold Value=1.00    † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	15760.64	7609.74	-451.59	-1374.24	158.08	4414.89	116.50	38.09	PASS
3516.00†	3391.40	-405.55	-433.97	15829.09	7608.70	-520.00	-1371.91	159.28	4321.85	117.14	37.08	PASS
3616.00†	3477.70	-440.05	-470.89	15861.25	7608.02	-552.13	-1370.88	159.88	4228.73	117.34	36.22	PASS
3716.00†	3563.99	-474.55	-507.81	15882.87	7607.61	-573.74	-1370.22	160.29	4135.75	117.43	35.40	PASS
3816.00†	3650.28	-509.05	-544.73	15904.82	7607.23	-595.68	-1369.57	160.71	4042.93	117.51	34.58	PASS
3916.00†	3736.58	-543.56	-581.65	15927.10	7606.91	-617.94	-1368.94	161.15	3950.29	117.61	33.76	PASS
4016.00†	3822.87	-578.06	-618.57	15949.72	7606.62	-640.56	-1368.33	161.61	3857.83	117.70	32.94	PASS
4116.00†	3909.17	-612.56	-655.49	15972.69	7606.39	-663.51	-1367.73	162.09	3765.55	117.79	32.13	PASS
4216.00†	3995.46	-647.06	-692.41	15996.02	7606.21	-686.83	-1367.16	162.58	3673.47	117.89	31.32	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #35N-3HZ AWP Offset Wellpath: GRENNYER #35N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#05 GRENNYER #35N-3HZ (445'FNL & 1615'FWL, SEC.34) Well: GRENNYER #35N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	16020.07	7606.09	-710.88	-1366.59	163.10	3581.60	117.99	30.51	PASS
4416.00†	4168.05	-716.06	-766.25	16047.33	7605.99	-738.13	-1365.98	163.71	3489.93	118.13	29.69	PASS
4516.00†	4254.34	-750.56	-803.16	16074.86	7605.95	-765.66	-1365.37	164.34	3398.47	118.26	28.88	PASS
4616.00†	4340.63	-785.07	-840.08	16102.67	7605.95	-793.46	-1364.78	165.00	3307.21	118.40	28.07	PASS
4716.00†	4426.93	-819.57	-877.00	16130.76	7605.99	-821.55	-1364.20	165.69	3216.18	118.53	27.27	PASS
4816.00†	4513.22	-854.07	-913.92	16159.14	7606.09	-849.92	-1363.64	166.40	3125.39	118.67	26.47	PASS
4916.00†	4599.52	-888.57	-950.84	16187.80	7606.23	-878.57	-1363.08	167.14	3034.86	118.81	25.67	PASS
5016.00†	4685.81	-923.07	-987.76	16227.54	7606.43	-918.30	-1362.33	168.22	2944.55	119.05	24.86	PASS
5116.00†	4772.10	-957.57	-1024.68	16266.96	7606.56	-957.72	-1361.57	169.33	2854.40	119.29	24.05	PASS
5216.00†	4858.40	-992.07	-1061.60	16306.01	7606.61	-996.75	-1360.81	170.48	2764.46	119.54	23.24	PASS
5316.00†	4944.69	-1026.58	-1098.52	16344.67	7606.59	-1035.41	-1360.05	171.67	2674.73	119.79	22.44	PASS
5416.00†	5030.98	-1061.08	-1135.44	16378.22	7606.53	-1068.95	-1359.41	172.74	2585.28	120.03	21.64	PASS
5516.00†	5117.28	-1095.58	-1172.36	16408.87	7606.50	-1099.60	-1358.93	173.76	2496.20	120.28	20.85	PASS
5616.00†	5203.57	-1130.08	-1209.28	16439.93	7606.49	-1130.66	-1358.57	174.82	2407.56	120.58	20.06	PASS
5716.00†	5289.87	-1164.58	-1246.20	16471.42	7606.52	-1162.15	-1358.34	175.93	2319.37	120.94	19.27	PASS
5816.00†	5376.16	-1199.08	-1283.12	16503.34	7606.58	-1194.07	-1358.23	177.10	2231.69	121.39	18.47	PASS
5916.00†	5462.45	-1233.59	-1320.04	16536.03	7606.67	-1226.76	-1358.25	178.33	2144.57	121.95	17.67	PASS
6016.00†	5548.75	-1268.09	-1356.96	16570.89	7606.78	-1261.62	-1358.35	179.69	2058.04	122.66	16.86	PASS
6116.00†	5635.04	-1302.59	-1393.87	16605.84	7606.89	-1296.57	-1358.51	178.89	1972.17	123.54	16.04	PASS
6216.00†	5721.33	-1337.09	-1430.79	16640.89	7607.00	-1331.62	-1358.70	177.41	1887.05	124.63	15.21	PASS
6316.00†	5807.63	-1371.59	-1467.71	16676.04	7607.11	-1366.77	-1358.95	175.87	1802.77	126.00	14.37	PASS
6416.00†	5893.92	-1406.09	-1504.63	16711.57	7607.22	-1402.29	-1359.24	174.26	1719.46	127.73	13.52	PASS
6516.00†	5980.22	-1440.59	-1541.55	16747.76	7607.30	-1438.48	-1359.45	172.54	1637.25	129.90	12.66	PASS
6616.00†	6066.51	-1475.10	-1578.47	16783.47	7607.35	-1474.19	-1359.53	170.78	1556.31	132.62	11.78	PASS
6716.00†	6152.80	-1509.60	-1615.39	16818.71	7607.35	-1509.43	-1359.48	168.98	1476.89	136.01	10.90	PASS
6816.00†	6239.10	-1544.10	-1652.31	16853.30	7607.32	-1544.02	-1359.32	167.14	1399.24	140.15	10.02	PASS
6916.00†	6325.39	-1578.60	-1689.23	16886.00	7607.28	-1576.72	-1359.15	165.35	1323.71	145.41	9.14	PASS
7016.00†	6411.68	-1613.10	-1726.15	16886.00	7607.28	-1576.72	-1359.15	165.35	1251.19	151.06	8.31	PASS
7116.00†	6497.98	-1647.60	-1763.07	16886.00	7607.28	-1576.72	-1359.15	165.35	1182.68	157.83	7.52	PASS
7216.00†	6584.27	-1682.10	-1799.99	16886.00	7607.28	-1576.72	-1359.15	165.35	1118.93	165.79	6.77	PASS
7316.00†	6670.57	-1716.61	-1836.91	16886.00	7607.28	-1576.72	-1359.15	165.35	1060.78	174.95	6.08	PASS
7416.00†	6756.86	-1751.11	-1873.83	16886.00	7607.28	-1576.72	-1359.15	165.35	1009.22	185.18	5.46	PASS
7516.00†	6843.15	-1785.61	-1910.75	16886.00	7607.28	-1576.72	-1359.15	165.35	965.29	196.22	4.93	PASS
7616.00†	6929.45	-1820.11	-1947.66	16886.00	7607.28	-1576.72	-1359.15	165.35	930.08	207.64	4.49	PASS
7716.00†	7015.74	-1854.61	-1984.58	16886.00	7607.28	-1576.72	-1359.15	165.35	904.61	218.83	4.14	PASS
7816.00†	7102.03	-1889.11	-2021.50	16886.00	7607.28	-1576.72	-1359.15	165.35	889.71	229.10	3.89	PASS



CLEARANCE DATA - Offset Wellbore: GRENNYER #35N-3HZ AWB Offset Wellpath: GRENNYER #35N-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#05 GRENNYER #35N-3HZ (445'FNL & 1615'FWL, SEC.34)				Well: GRENNYER #35N-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7897.56†	7172.42	-1917.25	-2051.62	16886.00	7607.28	-1576.72	-1359.15	-165.35	885.76	236.35	3.75	PASS
7916.00†	7188.33	-1923.61	-2058.42	16886.00	7607.28	-1576.72	-1359.15	-165.35	885.91	237.82	3.73	PASS
8016.00†	7274.62	-1958.12	-2095.34	16886.00	7607.28	-1576.72	-1359.15	-165.35	893.37	244.49	3.66	PASS
8053.87†	7307.30	-1971.18	-2109.32	16886.00	7607.28	-1576.72	-1359.15	-165.35	899.08	246.43	3.65	PASS
8085.19	7334.33	-1981.99	-2120.89	16886.00	7607.28	-1576.72	-1359.15	-165.35	904.98	247.79	3.66	PASS
8116.00†	7360.64	-1993.39	-2132.14	16886.00	7607.28	-1576.72	-1359.15	-160.84	912.12	248.81	3.67	PASS
8216.00†	7441.54	-2040.68	-2166.69	16886.00	7607.28	-1576.72	-1359.15	-148.10	945.96	249.44	3.80	PASS
8316.00†	7513.69	-2102.53	-2197.41	16886.00	7607.28	-1576.72	-1359.15	-136.85	993.94	246.55	4.04	PASS
8416.00†	7574.90	-2177.06	-2223.37	16886.00	7607.28	-1576.72	-1359.15	-125.80	1052.77	241.14	4.37	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #35N-3HZ AWP Offset Wellpath: GRENNYER #35N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#05 GRENNEMYER #35N-3HZ (445'FNL & 1615'FWL, SEC.34) Well: GRENNEMYER #35N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8516.00†	7623.30	-2261.99	-2243.79	16886.00	7607.28	-1576.72	-1359.15	-114.42	1119.13	234.22	4.79	PASS
8616.00†	7657.43	-2354.77	-2258.05	16886.00	7607.28	-1576.72	-1359.15	-102.93	1189.91	226.59	5.26	PASS
8716.00†	7676.26	-2452.55	-2265.70	16886.00	7607.28	-1576.72	-1359.15	-92.07	1262.41	218.80	5.78	PASS
8784.36	7680.00	-2520.76	-2267.01	16886.00	7607.28	-1576.72	-1359.15	-85.44	1311.75	213.57	6.16	PASS
8816.00†	7680.00	-2552.39	-2266.87	16886.00	7607.28	-1576.72	-1359.15	-85.44	1334.61	211.20	6.33	PASS
8916.00†	7680.00	-2652.39	-2266.43	16886.00	7607.28	-1576.72	-1359.15	-85.44	1409.08	204.18	6.92	PASS
9016.00†	7680.00	-2752.39	-2265.99	16886.00	7607.28	-1576.72	-1359.15	-85.44	1486.56	197.83	7.53	PASS
9116.00†	7680.00	-2852.39	-2265.55	16886.00	7607.28	-1576.72	-1359.15	-85.44	1566.58	192.09	8.18	PASS
9216.00†	7680.00	-2952.39	-2265.11	16886.00	7607.28	-1576.72	-1359.15	-85.44	1648.79	186.90	8.85	PASS
9316.00†	7680.00	-3052.39	-2264.67	16886.00	7607.28	-1576.72	-1359.15	-85.44	1732.87	182.22	9.54	PASS
9416.00†	7680.00	-3152.39	-2264.23	16886.00	7607.28	-1576.72	-1359.15	-85.44	1818.56	177.99	10.25	PASS
9516.00†	7680.00	-3252.39	-2263.79	16886.00	7607.28	-1576.72	-1359.15	-85.44	1905.65	174.15	10.98	PASS
9616.00†	7680.00	-3352.39	-2263.34	16886.00	7607.28	-1576.72	-1359.15	-85.44	1993.95	170.67	11.72	PASS
9716.00†	7680.00	-3452.39	-2262.90	16886.00	7607.28	-1576.72	-1359.15	-85.44	2083.31	167.50	12.48	PASS
9816.00†	7680.00	-3552.38	-2262.46	16886.00	7607.28	-1576.72	-1359.15	-85.44	2173.59	164.62	13.25	PASS
9916.00†	7680.00	-3652.38	-2262.02	16886.00	7607.28	-1576.72	-1359.15	-85.44	2264.69	161.98	14.03	PASS
10016.00†	7680.00	-3752.38	-2261.58	16886.00	7607.28	-1576.72	-1359.15	-85.44	2356.52	159.57	14.82	PASS
10116.00†	7680.00	-3852.38	-2261.14	16886.00	7607.28	-1576.72	-1359.15	-85.44	2448.98	157.36	15.62	PASS
10216.00†	7680.00	-3952.38	-2260.70	16886.00	7607.28	-1576.72	-1359.15	-85.44	2542.01	155.33	16.43	PASS
10316.00†	7680.00	-4052.38	-2260.26	16886.00	7607.28	-1576.72	-1359.15	-85.44	2635.56	153.47	17.24	PASS
10416.00†	7680.00	-4152.38	-2259.82	16886.00	7607.28	-1576.72	-1359.15	-85.44	2729.56	151.75	18.06	PASS
10516.00†	7680.00	-4252.38	-2259.38	16886.00	7607.28	-1576.72	-1359.15	-85.44	2823.98	150.16	18.88	PASS
10616.00†	7680.00	-4352.38	-2258.94	16886.00	7607.28	-1576.72	-1359.15	-85.44	2918.76	148.70	19.71	PASS
10716.00†	7680.00	-4452.38	-2258.50	16886.00	7607.28	-1576.72	-1359.15	-85.44	3013.88	147.34	20.54	PASS
10816.00†	7680.00	-4552.37	-2258.06	16886.00	7607.28	-1576.72	-1359.15	-85.44	3109.31	146.08	21.37	PASS
10916.00†	7680.00	-4652.37	-2257.61	16886.00	7607.28	-1576.72	-1359.15	-85.44	3205.02	144.91	22.21	PASS
11016.00†	7680.00	-4752.37	-2257.17	16886.00	7607.28	-1576.72	-1359.15	-85.44	3300.98	143.83	23.04	PASS
11116.00†	7680.00	-4852.37	-2256.73	16886.00	7607.28	-1576.72	-1359.15	-85.44	3397.18	142.81	23.88	PASS
11216.00†	7680.00	-4952.37	-2256.29	16886.00	7607.28	-1576.72	-1359.15	-85.44	3493.59	141.87	24.73	PASS
11316.00†	7680.00	-5052.37	-2255.85	16886.00	7607.28	-1576.72	-1359.15	-85.44	3590.19	141.00	25.57	PASS
11416.00†	7680.00	-5152.37	-2255.41	16886.00	7607.28	-1576.72	-1359.15	-85.44	3686.98	140.18	26.41	PASS
11516.00†	7680.00	-5252.37	-2254.97	16886.00	7607.28	-1576.72	-1359.15	-85.44	3783.93	139.41	27.26	PASS
11616.00†	7680.00	-5352.37	-2254.53	16886.00	7607.28	-1576.72	-1359.15	-85.44	3881.04	138.70	28.10	PASS
11716.00†	7680.00	-5452.37	-2254.09	16886.00	7607.28	-1576.72	-1359.15	-85.44	3978.29	138.03	28.95	PASS
11816.00†	7680.00	-5552.36	-2253.65	16886.00	7607.28	-1576.72	-1359.15	-85.44	4075.68	137.40	29.79	PASS
11916.00†	7680.00	-5652.36	-2253.21	16886.00	7607.28	-1576.72	-1359.15	-85.44	4173.19	136.81	30.64	PASS

CLEARANCE DATA - Offset Wellbore: GRENNYER #35N-3HZ AWB Offset Wellpath: GRENNYER #35N-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#05 GRENNYER #35N-3HZ (445'FNL & 1615'FWL, SEC.34)				Well: GRENNYER #35N-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12016.00†	7680.00	-5752.36	-2252.77	16886.00	7607.28	-1576.72	-1359.15	-85.44	4270.81	136.26	31.48	PASS
12116.00†	7680.00	-5852.36	-2252.32	16886.00	7607.28	-1576.72	-1359.15	-85.44	4368.54	135.74	32.32	PASS
12216.00†	7680.00	-5952.36	-2251.88	16886.00	7607.28	-1576.72	-1359.15	-85.44	4466.37	135.26	33.17	PASS
12316.00†	7680.00	-6052.36	-2251.44	16886.00	7607.28	-1576.72	-1359.15	-85.44	4564.30	134.80	34.01	PASS
12416.00†	7680.00	-6152.36	-2251.00	16886.00	7607.28	-1576.72	-1359.15	-85.44	4662.31	134.37	34.85	PASS
12516.00†	7680.00	-6252.36	-2250.56	16886.00	7607.28	-1576.72	-1359.15	-85.44	4760.41	133.97	35.69	PASS
12616.00†	7680.00	-6352.36	-2250.12	16886.00	7607.28	-1576.72	-1359.15	-85.44	4858.58	133.59	36.53	PASS
12716.00†	7680.00	-6452.36	-2249.68	16886.00	7607.28	-1576.72	-1359.15	-85.44	4956.83	133.24	37.37	PASS
12816.00†	7680.00	-6552.36	-2249.24	16886.00	7607.28	-1576.72	-1359.15	-85.44	5055.14	132.90	38.21	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNEMYER #35N-3HZ AWB Offset Wellpath: GRENNEMYER #35N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#05 GRENNEMYER #35N-3HZ (445'FNL & 1615'FWL, SEC.34) Well: GRENNEMYER #35N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12916.00†	7680.00	-6652.35	-2248.80	16886.00	7607.28	-1576.72	-1359.15	-85.44	5153.53	132.59	39.04	PASS
13016.00†	7680.00	-6752.35	-2248.36	16886.00	7607.28	-1576.72	-1359.15	-85.44	5251.97	132.29	39.88	PASS
13116.00†	7680.00	-6852.35	-2247.92	16886.00	7607.28	-1576.72	-1359.15	-85.44	5350.47	132.01	40.71	PASS
13144.91	7680.00	-6881.26	-2247.79	16886.00	7607.28	-1576.72	-1359.15	-85.44	5378.95	131.93	40.95	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: GRENNEMYER #35N-3HZ AWB Offset Wellpath: GRENNEMYER #35N-3HZ AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: GRENNEMYER #35N-3HZ AWB Offset Wellpath: GRENNEMYER #35N-3HZ 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	16.00	1050.00	1034.00	67.00	1100.99	4752.61	-1139.08	4752.88	-1138.90
9.625in Casing Surface	16.00	1050.00	1034.00	67.00	1100.99	4752.61	-1139.08	4752.88	-1138.90
8.75in Open Hole	1050.00	7875.00	6825.00	1100.99	7626.38	4752.88	-1138.90	4641.41	-1009.79
7in Casing Intermediate	16.00	7875.00	7859.00	67.00	7626.38	4752.61	-1139.08	4641.41	-1009.79
6.125in Open Hole	7875.00	16886.00	9011.00	7626.38	7607.28	4641.41	-1009.79	1895.73	-983.93

## WELLPATH COMPOSITION - Offset Wellbore: GRENNEMYER #35N-3HZ AWB Offset Wellpath: GRENNEMYER #35N-3HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	983.00	Generic gyro - continuous (Standard)	MS ENERGY GYRO SURVEYS <116-983>	GRENNEMYER #35N-3HZ AWB
983.00	16838.00	ISCWSA MWD, Rev. 3, axial magnetic correction (Standard)	HALLIBURTON SURVEYS <1105-16838.	GRENNEMYER #35N-3HZ AWB
16838.00	16886.00	Blind Drilling (std)	Projection to bit	GRENNEMYER #35N-3HZ AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: GRENNEMYER #35N-3HZ AWB Offset Wellpath: GRENNEMYER #35N-3HZ AWP

MD Reference: Rig on SLOT#05 GRENNEMYER #35N-3HZ (445'FNL & 1615'FWL, SEC.34) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #35C-3HZ AWP Offset Wellpath: GRENNYER #35C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#04 GRENNYER #35C-3HZ (445'FNL & 1585'FWL, SEC.34) Well: GRENNYER #35C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	0.00	51.00	7795.10	-1896.87	-13.68	8022.65	25.57	326.06	PASS
116.00†	116.00	0.00	0.00	15534.45	7840.98	-207.40	-1825.25	-96.48	7940.40	109.99	72.72	PASS
216.00†	216.00	0.00	0.00	15533.55	7841.00	-206.50	-1825.28	-96.46	7843.14	110.21	71.69	PASS
316.00†	316.00	0.00	0.00	15532.63	7841.02	-205.58	-1825.30	-96.43	7745.96	110.43	70.66	PASS
416.00†	416.00	0.00	0.00	15531.70	7841.04	-204.66	-1825.33	-96.40	7648.85	110.67	69.62	PASS
516.00†	516.00	0.00	0.00	15530.76	7841.06	-203.71	-1825.36	-96.37	7551.81	110.92	68.58	PASS
616.00†	616.00	0.00	0.00	15529.81	7841.08	-202.76	-1825.39	-96.34	7454.86	111.18	67.54	PASS
716.00†	716.00	0.00	0.00	15528.84	7841.10	-201.79	-1825.42	-96.31	7357.98	111.45	66.50	PASS
816.00†	816.00	0.00	0.00	15527.86	7841.12	-200.82	-1825.45	-96.28	7261.19	111.52	65.46	PASS
916.00†	916.00	0.00	0.00	15526.87	7841.14	-199.82	-1825.48	-96.25	7164.48	111.82	64.42	PASS
1016.00†	1016.00	0.00	0.00	15523.75	7841.20	-196.71	-1825.57	-96.15	7067.87	112.11	63.38	PASS
1116.00†	1116.00	0.00	0.00	15508.74	7841.50	-181.71	-1826.01	-95.68	6971.35	112.27	62.43	PASS
1216.00†	1216.00	0.00	0.00	15495.68	7841.74	-168.66	-1826.37	-95.28	6874.92	112.47	61.46	PASS
1316.00†	1316.00	0.00	0.00	15484.23	7841.95	-157.21	-1826.68	-94.92	6778.60	112.70	60.47	PASS
1416.00†	1416.00	0.00	0.00	15474.09	7842.11	-147.08	-1826.93	-94.60	6682.38	112.96	59.47	PASS
1516.00†	1516.00	0.00	0.00	15465.07	7842.25	-138.06	-1827.14	-94.32	6586.27	113.25	58.47	PASS
1600.00	1600.00	0.00	0.00	15458.21	7842.35	-131.20	-1827.30	-94.11	6505.63	113.51	57.62	PASS
1616.00†	1616.00	-0.03	-0.03	15457.13	7842.37	-130.13	-1827.33	39.68	6490.27	113.57	57.45	PASS
1716.00†	1715.97	-1.60	-1.72	15457.67	7842.36	-130.66	-1827.31	44.49	6393.91	113.99	56.39	PASS
1816.00†	1815.80	-5.56	-5.95	15469.42	7842.18	-142.41	-1827.04	49.81	6297.02	114.53	55.27	PASS
1916.00†	1915.36	-11.89	-12.72	15490.77	7841.83	-163.75	-1826.51	55.75	6199.67	115.17	54.11	PASS
2016.00†	2014.54	-20.59	-22.03	15520.29	7841.27	-193.25	-1825.68	62.42	6101.95	115.87	52.93	PASS
2116.00†	2113.21	-31.64	-33.86	15529.83	7841.08	-202.79	-1825.39	71.07	6003.94	116.32	51.88	PASS
2216.00†	2211.26	-45.04	-48.20	15535.62	7840.96	-208.57	-1825.21	80.84	5905.76	116.69	50.87	PASS
2316.00†	2308.57	-60.77	-65.03	15542.70	7840.82	-215.64	-1825.00	91.05	5807.52	117.05	49.87	PASS
2416.00†	2405.01	-78.81	-84.34	15551.09	7840.67	-224.03	-1824.76	101.08	5709.34	117.40	48.88	PASS
2516.00†	2500.47	-99.14	-106.09	15560.83	7840.51	-233.77	-1824.48	110.38	5611.33	117.73	47.91	PASS
2616.00†	2594.84	-121.73	-130.26	15571.93	7840.34	-244.86	-1824.16	118.63	5513.60	118.04	46.95	PASS
2716.00†	2687.99	-146.55	-156.82	15584.41	7840.17	-257.33	-1823.82	125.71	5416.29	118.33	46.00	PASS
2816.00†	2779.81	-173.58	-185.74	15598.28	7840.01	-271.19	-1823.44	131.70	5319.51	118.61	45.08	PASS
2916.00†	2870.20	-202.78	-216.99	15613.56	7839.86	-286.47	-1823.05	136.74	5223.41	118.86	44.17	PASS
3016.00†	2959.04	-234.11	-250.52	15630.27	7839.74	-303.18	-1822.62	140.99	5128.11	119.10	43.27	PASS
3116.00†	3046.23	-267.54	-286.29	15648.42	7839.65	-321.32	-1822.18	144.58	5033.76	119.32	42.40	PASS
3117.60	3047.61	-268.10	-286.88	15648.72	7839.65	-321.62	-1822.17	144.64	5032.26	119.32	42.39	PASS
3216.00†	3132.52	-302.05	-323.21	15667.46	7839.61	-340.36	-1821.74	144.81	4940.01	119.52	41.54	PASS
3316.00†	3218.82	-336.55	-360.13	15686.82	7839.62	-359.71	-1821.31	144.99	4846.38	119.74	40.67	PASS

CLEARANCE DATA - Offset Wellbore: GRENEMYER #35C-3HZ AWB Offset Wellpath: GRENEMYER #35C-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#04 GRENEMYER #35C-3HZ (445'FNL & 1585'FWL, SEC.34)				Well: GRENEMYER #35C-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	15706.68	7839.68	-379.56	-1820.89	145.18	4752.87	119.98	39.81	PASS
3516.00†	3391.40	-405.55	-433.97	15727.08	7839.80	-399.96	-1820.50	145.38	4659.48	120.23	38.95	PASS
3616.00†	3477.70	-440.05	-470.89	15747.83	7839.97	-420.71	-1820.15	145.58	4566.21	120.48	38.09	PASS
3716.00†	3563.99	-474.55	-507.81	15768.94	7840.19	-441.81	-1819.85	145.79	4473.07	120.75	37.23	PASS
3816.00†	3650.28	-509.05	-544.73	15790.41	7840.46	-463.28	-1819.59	146.01	4380.07	121.03	36.37	PASS
3916.00†	3736.58	-543.56	-581.65	15812.26	7840.80	-485.13	-1819.39	146.24	4287.20	121.32	35.51	PASS
4016.00†	3822.87	-578.06	-618.57	15834.50	7841.20	-507.37	-1819.23	146.47	4194.47	121.62	34.66	PASS
4116.00†	3909.17	-612.56	-655.49	15857.14	7841.67	-530.00	-1819.13	146.72	4101.89	121.92	33.81	PASS
4216.00†	3995.46	-647.06	-692.41	15936.17	7843.05	-609.02	-1819.03	147.61	4009.32	122.79	32.81	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #35C-3HZ AWP Offset Wellpath: GRENNYER #35C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#04 GRENNYER #35C-3HZ (445'FNL & 1585'FWL, SEC.34) Well: GRENNYER #35C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	16044.28	7842.98	-717.13	-1819.17	148.94	3916.10	123.93	31.75	PASS
4416.00†	4168.05	-716.06	-766.25	16076.35	7842.64	-749.19	-1819.32	149.37	3822.66	124.30	30.90	PASS
4516.00†	4254.34	-750.56	-803.16	16108.55	7842.29	-781.39	-1819.56	149.81	3729.26	124.66	30.06	PASS
4616.00†	4340.63	-785.07	-840.08	16140.90	7841.92	-813.73	-1819.90	150.27	3635.92	125.02	29.22	PASS
4716.00†	4426.93	-819.57	-877.00	16173.38	7841.54	-846.21	-1820.33	150.74	3542.62	125.38	28.39	PASS
4816.00†	4513.22	-854.07	-913.92	16206.02	7841.15	-878.84	-1820.87	151.24	3449.38	125.73	27.56	PASS
4916.00†	4599.52	-888.57	-950.84	16236.26	7840.80	-909.08	-1821.38	151.72	3356.21	126.05	26.75	PASS
5016.00†	4685.81	-923.07	-987.76	16266.16	7840.54	-938.97	-1821.73	152.22	3263.14	126.35	25.95	PASS
5116.00†	4772.10	-957.57	-1024.68	16296.13	7840.35	-968.94	-1821.94	152.76	3170.16	126.63	25.15	PASS
5216.00†	4858.40	-992.07	-1061.60	16326.20	7840.24	-999.01	-1822.01	153.32	3077.28	126.90	24.36	PASS
5316.00†	4944.69	-1026.58	-1098.52	16356.35	7840.21	-1029.16	-1821.93	153.93	2984.52	127.14	23.58	PASS
5416.00†	5030.98	-1061.08	-1135.44	16385.98	7840.26	-1058.79	-1821.72	154.55	2891.89	127.36	22.81	PASS
5516.00†	5117.28	-1095.58	-1172.36	16412.51	7840.36	-1085.31	-1821.55	155.14	2799.42	127.54	22.05	PASS
5616.00†	5203.57	-1130.08	-1209.28	16439.55	7840.52	-1112.35	-1821.50	155.76	2707.14	127.72	21.29	PASS
5716.00†	5289.87	-1164.58	-1246.20	16467.10	7840.72	-1139.90	-1821.58	156.41	2615.06	127.88	20.54	PASS
5816.00†	5376.16	-1199.08	-1283.12	16495.18	7840.99	-1167.98	-1821.80	157.09	2523.20	128.03	19.80	PASS
5916.00†	5462.45	-1233.59	-1320.04	16523.81	7841.32	-1196.62	-1822.15	157.82	2431.56	128.16	19.06	PASS
6016.00†	5548.75	-1268.09	-1356.96	16553.00	7841.71	-1225.80	-1822.66	158.59	2340.16	128.27	18.33	PASS
6116.00†	5635.04	-1302.59	-1393.87	16603.86	7842.27	-1276.64	-1823.71	160.03	2248.84	128.41	17.59	PASS
6216.00†	5721.33	-1337.09	-1430.79	16653.92	7842.48	-1326.69	-1824.80	161.56	2157.45	128.50	16.86	PASS
6316.00†	5807.63	-1371.59	-1467.71	16702.48	7842.35	-1375.23	-1825.93	163.18	2066.02	128.54	16.14	PASS
6416.00†	5893.92	-1406.09	-1504.63	16738.77	7842.08	-1411.51	-1826.78	164.49	1974.62	128.54	15.43	PASS
6516.00†	5980.22	-1440.59	-1541.55	16765.27	7841.98	-1438.01	-1827.29	165.51	1883.56	128.51	14.72	PASS
6616.00†	6066.51	-1475.10	-1578.47	16792.17	7842.02	-1464.91	-1827.66	166.61	1792.94	128.47	14.02	PASS
6716.00†	6152.80	-1509.60	-1615.39	16819.48	7842.21	-1492.21	-1827.89	167.80	1702.80	128.42	13.32	PASS
6816.00†	6239.10	-1544.10	-1652.31	16847.21	7842.55	-1519.94	-1827.98	169.09	1613.23	128.40	12.62	PASS
6916.00†	6325.39	-1578.60	-1689.23	16856.00	7842.69	-1528.73	-1827.98	169.51	1524.44	128.48	11.92	PASS
7016.00†	6411.68	-1613.10	-1726.15	16856.00	7842.69	-1528.73	-1827.98	169.51	1437.10	128.69	11.22	PASS
7116.00†	6497.98	-1647.60	-1763.07	16856.00	7842.69	-1528.73	-1827.98	169.51	1351.51	129.08	10.52	PASS
7216.00†	6584.27	-1682.10	-1799.99	16856.00	7842.69	-1528.73	-1827.98	169.51	1268.04	129.68	9.82	PASS
7316.00†	6670.57	-1716.61	-1836.91	16856.00	7842.69	-1528.73	-1827.98	169.51	1187.12	130.60	9.13	PASS
7416.00†	6756.86	-1751.11	-1873.83	16856.00	7842.69	-1528.73	-1827.98	169.51	1109.31	131.95	8.44	PASS
7516.00†	6843.15	-1785.61	-1910.75	16856.00	7842.69	-1528.73	-1827.98	169.51	1035.33	133.86	7.77	PASS
7616.00†	6929.45	-1820.11	-1947.66	16856.00	7842.69	-1528.73	-1827.98	169.51	966.04	136.51	7.10	PASS
7716.00†	7015.74	-1854.61	-1984.58	16856.00	7842.69	-1528.73	-1827.98	169.51	902.53	140.10	6.47	PASS
7816.00†	7102.03	-1889.11	-2021.50	16856.00	7842.69	-1528.73	-1827.98	169.51	846.11	144.80	5.86	PASS



CLEARANCE DATA - Offset Wellbore: GRENNYER #35C-3HZ AWB Offset Wellpath: GRENNYER #35C-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#04 GRENNYER #35C-3HZ (445'FNL & 1585'FWL, SEC.34)				Well: GRENNYER #35C-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7916.00†	7188.33	-1923.61	-2058.42	16856.00	7842.69	-1528.73	-1827.98	169.51	798.26	150.69	5.31	PASS
8016.00†	7274.62	-1958.12	-2095.34	16856.00	7842.69	-1528.73	-1827.98	169.51	760.63	157.66	4.84	PASS
8085.19	7334.33	-1981.99	-2120.89	16856.00	7842.69	-1528.73	-1827.98	169.51	741.39	162.92	4.56	PASS
8116.00†	7360.64	-1993.39	-2132.14	16856.00	7842.69	-1528.73	-1827.98	172.96	735.39	165.24	4.46	PASS
8176.00†	7410.10	-2019.93	-2153.27	16856.00	7842.69	-1528.73	-1827.98	178.79	730.91	169.31	4.33	PASS
8216.00†	7441.54	-2040.68	-2166.69	16856.00	7842.69	-1528.73	-1827.98	-177.80	733.31	171.50	4.29	PASS
8241.30†	7460.72	-2055.02	-2174.86	16856.00	7842.69	-1528.73	-1827.98	-175.78	737.03	172.68	4.28	PASS
8316.00†	7513.69	-2102.53	-2197.41	16856.00	7842.69	-1528.73	-1827.98	-170.12	757.61	174.86	4.34	PASS
8416.00†	7574.90	-2177.06	-2223.37	16856.00	7842.69	-1528.73	-1827.98	-162.43	805.22	174.81	4.62	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #35C-3HZ AWP Offset Wellpath: GRENNYER #35C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#04 GRENNYER #35C-3HZ (445'FNL & 1585'FWL, SEC.34) Well: GRENNYER #35C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8516.00†	7623.30	-2261.99	-2243.79	16856.00	7842.69	-1528.73	-1827.98	-153.25	871.04	172.16	5.07	PASS
8616.00†	7657.43	-2354.77	-2258.05	16856.00	7842.69	-1528.73	-1827.98	-140.93	949.54	167.96	5.67	PASS
8716.00†	7676.26	-2452.55	-2265.70	16856.00	7842.69	-1528.73	-1827.98	-124.02	1035.74	163.08	6.37	PASS
8784.36	7680.00	-2520.76	-2267.01	16856.00	7842.69	-1528.73	-1827.98	-110.15	1096.97	159.64	6.89	PASS
8816.00†	7680.00	-2552.39	-2266.87	16856.00	7842.69	-1528.73	-1827.98	-110.15	1125.61	158.09	7.14	PASS
8916.00†	7680.00	-2652.39	-2266.43	16856.00	7842.69	-1528.73	-1827.98	-110.15	1217.10	153.71	7.95	PASS
9016.00†	7680.00	-2752.39	-2265.99	16856.00	7842.69	-1528.73	-1827.98	-110.15	1309.84	149.99	8.76	PASS
9116.00†	7680.00	-2852.39	-2265.55	16856.00	7842.69	-1528.73	-1827.98	-110.15	1403.57	146.82	9.60	PASS
9216.00†	7680.00	-2952.39	-2265.11	16856.00	7842.69	-1528.73	-1827.98	-110.15	1498.12	144.11	10.44	PASS
9316.00†	7680.00	-3052.39	-2264.67	16856.00	7842.69	-1528.73	-1827.98	-110.15	1593.33	141.77	11.28	PASS
9416.00†	7680.00	-3152.39	-2264.23	16856.00	7842.69	-1528.73	-1827.98	-110.15	1689.10	139.74	12.14	PASS
9516.00†	7680.00	-3252.39	-2263.79	16856.00	7842.69	-1528.73	-1827.98	-110.15	1785.33	137.97	12.99	PASS
9616.00†	7680.00	-3352.39	-2263.34	16856.00	7842.69	-1528.73	-1827.98	-110.15	1881.95	136.43	13.85	PASS
9716.00†	7680.00	-3452.39	-2262.90	16856.00	7842.69	-1528.73	-1827.98	-110.15	1978.91	135.08	14.71	PASS
9816.00†	7680.00	-3552.38	-2262.46	16856.00	7842.69	-1528.73	-1827.98	-110.15	2076.16	133.89	15.57	PASS
9916.00†	7680.00	-3652.38	-2262.02	16856.00	7842.69	-1528.73	-1827.98	-110.15	2173.65	132.85	16.43	PASS
10016.00†	7680.00	-3752.38	-2261.58	16856.00	7842.69	-1528.73	-1827.98	-110.15	2271.37	131.92	17.29	PASS
10116.00†	7680.00	-3852.38	-2261.14	16856.00	7842.69	-1528.73	-1827.98	-110.15	2369.27	131.09	18.15	PASS
10216.00†	7680.00	-3952.38	-2260.70	16856.00	7842.69	-1528.73	-1827.98	-110.15	2467.35	130.36	19.01	PASS
10316.00†	7680.00	-4052.38	-2260.26	16856.00	7842.69	-1528.73	-1827.98	-110.15	2565.57	129.71	19.87	PASS
10416.00†	7680.00	-4152.38	-2259.82	16856.00	7842.69	-1528.73	-1827.98	-110.15	2663.92	129.12	20.72	PASS
10516.00†	7680.00	-4252.38	-2259.38	16856.00	7842.69	-1528.73	-1827.98	-110.15	2762.40	128.60	21.58	PASS
10616.00†	7680.00	-4352.38	-2258.94	16856.00	7842.69	-1528.73	-1827.98	-110.15	2860.98	128.13	22.43	PASS
10716.00†	7680.00	-4452.38	-2258.50	16856.00	7842.69	-1528.73	-1827.98	-110.15	2959.65	127.71	23.28	PASS
10816.00†	7680.00	-4552.37	-2258.06	16856.00	7842.69	-1528.73	-1827.98	-110.15	3058.41	127.33	24.13	PASS
10916.00†	7680.00	-4652.37	-2257.61	16856.00	7842.69	-1528.73	-1827.98	-110.15	3157.25	127.00	24.98	PASS
11016.00†	7680.00	-4752.37	-2257.17	16856.00	7842.69	-1528.73	-1827.98	-110.15	3256.16	126.69	25.82	PASS
11116.00†	7680.00	-4852.37	-2256.73	16856.00	7842.69	-1528.73	-1827.98	-110.15	3355.13	126.41	26.66	PASS
11216.00†	7680.00	-4952.37	-2256.29	16856.00	7842.69	-1528.73	-1827.98	-110.15	3454.16	126.17	27.51	PASS
11316.00†	7680.00	-5052.37	-2255.85	16856.00	7842.69	-1528.73	-1827.98	-110.15	3553.25	125.94	28.35	PASS
11416.00†	7680.00	-5152.37	-2255.41	16856.00	7842.69	-1528.73	-1827.98	-110.15	3652.39	125.74	29.18	PASS
11516.00†	7680.00	-5252.37	-2254.97	16856.00	7842.69	-1528.73	-1827.98	-110.15	3751.57	125.56	30.02	PASS
11616.00†	7680.00	-5352.37	-2254.53	16856.00	7842.69	-1528.73	-1827.98	-110.15	3850.79	125.40	30.85	PASS
11716.00†	7680.00	-5452.37	-2254.09	16856.00	7842.69	-1528.73	-1827.98	-110.15	3950.06	125.26	31.69	PASS
11816.00†	7680.00	-5552.36	-2253.65	16856.00	7842.69	-1528.73	-1827.98	-110.15	4049.36	125.13	32.52	PASS
11916.00†	7680.00	-5652.36	-2253.21	16856.00	7842.69	-1528.73	-1827.98	-110.15	4148.69	125.01	33.34	PASS

CLEARANCE DATA - Offset Wellbore: GRENNYER #35C-3HZ AWB Offset Wellpath: GRENNYER #35C-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#04 GRENNYER #35C-3HZ (445'FNL & 1585'FWL, SEC.34)				Well: GRENNYER #35C-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12016.00†	7680.00	-5752.36	-2252.77	16856.00	7842.69	-1528.73	-1827.98	-110.15	4248.06	124.91	34.17	PASS
12116.00†	7680.00	-5852.36	-2252.32	16856.00	7842.69	-1528.73	-1827.98	-110.15	4347.45	124.81	35.00	PASS
12216.00†	7680.00	-5952.36	-2251.88	16856.00	7842.69	-1528.73	-1827.98	-110.15	4446.87	124.73	35.82	PASS
12316.00†	7680.00	-6052.36	-2251.44	16856.00	7842.69	-1528.73	-1827.98	-110.15	4546.32	124.66	36.64	PASS
12416.00†	7680.00	-6152.36	-2251.00	16856.00	7842.69	-1528.73	-1827.98	-110.15	4645.79	124.60	37.46	PASS
12516.00†	7680.00	-6252.36	-2250.56	16856.00	7842.69	-1528.73	-1827.98	-110.15	4745.28	124.55	38.28	PASS
12616.00†	7680.00	-6352.36	-2250.12	16856.00	7842.69	-1528.73	-1827.98	-110.15	4844.80	124.50	39.10	PASS
12716.00†	7680.00	-6452.36	-2249.68	16856.00	7842.69	-1528.73	-1827.98	-110.15	4944.33	124.46	39.92	PASS
12816.00†	7680.00	-6552.36	-2249.24	16856.00	7842.69	-1528.73	-1827.98	-110.15	5043.88	124.43	40.73	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNEMYER #35C-3HZ AWP Offset Wellpath: GRENNEMYER #35C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#04 GRENNEMYER #35C-3HZ (445'FNL & 1585'FWL, SEC.34) Well: GRENNEMYER #35C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12916.00†	7680.00	-6652.35	-2248.80	16856.00	7842.69	-1528.73	-1827.98	-110.15	5143.45	124.41	41.54	PASS
13016.00†	7680.00	-6752.35	-2248.36	16856.00	7842.69	-1528.73	-1827.98	-110.15	5243.04	124.39	42.35	PASS
13116.00†	7680.00	-6852.35	-2247.92	16856.00	7842.69	-1528.73	-1827.98	-110.15	5342.64	124.37	43.16	PASS
13144.91	7680.00	-6881.26	-2247.79	16856.00	7842.69	-1528.73	-1827.98	-110.15	5371.44	124.37	43.40	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: GRENNEMYER #35C-3HZ AWP Offset Wellpath: GRENNEMYER #35C-3HZ AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: GRENNEMYER #35C-3HZ AWP Offset Wellpath: GRENNEMYER #35C-3HZ 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	16.00	1048.00	1032.00	67.00	1098.98	4751.93	-1156.15	4751.76	-1157.23
9.625in Casing Surface	16.00	1048.00	1032.00	67.00	1098.98	4751.93	-1156.15	4751.76	-1157.23
8.75in Open Hole	1048.00	8137.00	7089.00	1098.98	7840.59	4751.76	-1157.23	4566.86	-1136.45
7in Casing Intermediate	16.00	8137.00	8121.00	67.00	7840.59	4751.93	-1156.15	4566.86	-1136.45
6.125in Open Hole	8137.00	16902.00	8765.00	7840.59	N/A	4566.86	-1136.45	N/A	N/A

## WELLPATH COMPOSITION - Offset Wellbore: GRENNEMYER #35C-3HZ AWP Offset Wellpath: GRENNEMYER #35C-3HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	961.00	Generic gyro - continuous (Standard)	MS ENERGY GYRO SURVEYS <116-961>	GRENNEMYER #35C-3HZ AWP
961.00	16856.00	ISCWSA MWD, Rev. 3, axial magnetic correction (Standard)	HALLIBURTON SURVEYS <1105-16856>	GRENNEMYER #35C-3HZ AWP

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: GRENNEMYER #35C-3HZ AWP Offset Wellpath: GRENNEMYER #35C-3HZ AWP

MD Reference: Rig on SLOT#04 GRENNEMYER #35C-3HZ (445'FNL & 1585'FWL, SEC.34) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WAGNER #13C-3HZ AWB Offset Wellpath: WAGNER #13C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#09 WAGNER #13C-3HZ (850'FNL & 556'FWL, SEC.34) Well: WAGNER #13C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	0.00	38.00	7387.91	-2914.88	-21.53	7942.17	25.57	322.79	PASS
116.00†	116.00	0.00	0.00	113.60	151.60	7387.64	-2914.95	-21.53	7942.01	60.36	133.70	PASS
216.00†	216.00	0.00	0.00	173.11	211.11	7387.42	-2915.17	-21.54	7941.80	60.37	133.67	PASS
316.00†	316.00	0.00	0.00	259.94	297.93	7387.42	-2915.89	-21.54	7942.08	60.39	133.64	PASS
416.00†	416.00	0.00	0.00	15022.24	7860.55	-67.20	-2651.29	-91.45	7902.85	113.48	70.14	PASS
516.00†	516.00	0.00	0.00	15021.35	7860.56	-66.32	-2651.26	-91.43	7808.73	113.88	69.06	PASS
616.00†	616.00	0.00	0.00	15020.46	7860.58	-65.42	-2651.24	-91.41	7714.74	114.29	67.98	PASS
716.00†	716.00	0.00	0.00	15019.55	7860.60	-64.51	-2651.22	-91.39	7620.92	114.72	66.90	PASS
816.00†	816.00	0.00	0.00	15018.62	7860.61	-63.59	-2651.19	-91.37	7527.25	114.96	65.82	PASS
916.00†	916.00	0.00	0.00	15017.68	7860.63	-62.65	-2651.17	-91.35	7433.74	115.42	64.74	PASS
1016.00†	1016.00	0.00	0.00	15016.72	7860.65	-61.69	-2651.15	-91.33	7340.41	115.90	63.66	PASS
1116.00†	1116.00	0.00	0.00	15015.75	7860.67	-60.72	-2651.12	-91.31	7247.25	116.40	62.59	PASS
1216.00†	1216.00	0.00	0.00	15014.76	7860.68	-59.73	-2651.10	-91.29	7154.28	116.91	61.51	PASS
1316.00†	1316.00	0.00	0.00	15013.76	7860.70	-58.73	-2651.07	-91.27	7061.50	117.45	60.43	PASS
1416.00†	1416.00	0.00	0.00	15012.74	7860.72	-57.71	-2651.05	-91.25	6968.92	118.00	59.36	PASS
1516.00†	1516.00	0.00	0.00	15011.70	7860.74	-56.67	-2651.02	-91.23	6876.55	118.58	58.29	PASS
1600.00	1600.00	0.00	0.00	15010.81	7860.76	-55.78	-2651.00	-91.21	6799.12	119.08	57.39	PASS
1616.00†	1616.00	-0.03	-0.03	15010.66	7860.76	-55.63	-2650.99	42.37	6784.38	119.17	57.22	PASS
1716.00†	1715.97	-1.60	-1.72	15010.46	7860.77	-55.43	-2650.99	45.78	6691.79	119.78	56.15	PASS
1816.00†	1815.80	-5.56	-5.95	15011.60	7860.75	-56.58	-2651.02	49.58	6598.52	120.41	55.08	PASS
1916.00†	1915.36	-11.89	-12.72	15014.12	7860.70	-59.09	-2651.08	53.79	6504.63	121.03	54.01	PASS
2016.00†	2014.54	-20.59	-22.03	15018.05	7860.62	-63.02	-2651.18	58.44	6410.22	121.65	52.95	PASS
2116.00†	2113.21	-31.64	-33.86	15023.41	7860.53	-68.38	-2651.31	63.53	6315.38	122.27	51.91	PASS
2216.00†	2211.26	-45.04	-48.20	15030.24	7860.41	-75.20	-2651.48	69.03	6220.19	122.88	50.87	PASS
2316.00†	2308.57	-60.77	-65.03	15038.56	7860.28	-83.52	-2651.68	74.87	6124.76	123.50	49.83	PASS
2416.00†	2405.01	-78.81	-84.34	15048.40	7860.13	-93.36	-2651.92	80.97	6029.18	124.11	48.81	PASS
2516.00†	2500.47	-99.14	-106.09	15059.77	7859.99	-104.73	-2652.18	87.20	5933.55	124.72	47.80	PASS
2616.00†	2594.84	-121.73	-130.26	15072.70	7859.85	-117.65	-2652.47	93.41	5837.97	125.32	46.81	PASS
2716.00†	2687.99	-146.55	-156.82	15087.21	7859.72	-132.15	-2652.79	99.48	5742.55	125.93	45.82	PASS
2816.00†	2779.81	-173.58	-185.74	15103.29	7859.62	-148.23	-2653.12	105.27	5647.39	126.53	44.85	PASS
2916.00†	2870.20	-202.78	-216.99	15138.87	7859.52	-183.80	-2653.70	110.52	5552.58	127.39	43.79	PASS
3016.00†	2959.04	-234.11	-250.52	15188.59	7859.54	-233.52	-2653.85	115.40	5458.10	128.41	42.70	PASS
3116.00†	3046.23	-267.54	-286.29	15240.95	7859.79	-285.88	-2653.15	120.03	5364.02	129.43	41.63	PASS
3117.60	3047.61	-268.10	-286.88	15241.81	7859.80	-286.74	-2653.13	120.10	5362.52	129.44	41.62	PASS
3216.00†	3132.52	-302.05	-323.21	15289.80	7860.21	-334.71	-2651.73	119.93	5270.12	130.37	40.61	PASS
3316.00†	3218.82	-336.55	-360.13	15325.11	7860.46	-370.00	-2650.72	119.80	5176.18	131.15	39.65	PASS

CLEARANCE DATA - Offset Wellbore: WAGNER #13C-3HZ AWB Offset Wellpath: WAGNER #13C-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#09 WAGNER #13C-3HZ (850'FNL & 556'FWL, SEC.34)			Well: WAGNER #13C-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	15360.29	7860.56	-405.17	-2650.00	119.65	5082.23	131.96	38.69	PASS
3516.00†	3391.40	-405.55	-433.97	15395.33	7860.51	-440.21	-2649.56	119.48	4988.28	132.79	37.73	PASS
3616.00†	3477.70	-440.05	-470.89	15430.25	7860.32	-475.13	-2649.39	119.30	4894.33	133.65	36.78	PASS
3716.00†	3563.99	-474.55	-507.81	15461.31	7860.03	-506.19	-2649.46	119.13	4800.38	134.48	35.85	PASS
3816.00†	3650.28	-509.05	-544.73	15485.53	7859.87	-530.41	-2649.49	118.99	4706.49	135.24	34.95	PASS
3916.00†	3736.58	-543.56	-581.65	15510.07	7859.80	-554.95	-2649.43	118.85	4612.68	136.03	34.06	PASS
4016.00†	3822.87	-578.06	-618.57	15534.93	7859.84	-579.81	-2649.28	118.71	4518.95	136.84	33.17	PASS
4116.00†	3909.17	-612.56	-655.49	15560.12	7859.99	-604.99	-2649.02	118.56	4425.30	137.68	32.28	PASS
4216.00†	3995.46	-647.06	-692.41	15585.64	7860.25	-630.51	-2648.67	118.42	4331.72	138.54	31.40	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WAGNER #13C-3HZ AWB Offset Wellpath: WAGNER #13C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#09 WAGNER #13C-3HZ (850'FNL & 556'FWL, SEC.34) Well: WAGNER #13C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	15611.50	7860.62	-656.36	-2648.21	118.27	4238.23	139.43	30.53	PASS
4416.00†	4168.05	-716.06	-766.25	15671.26	7861.64	-716.09	-2646.74	117.93	4144.75	140.71	29.58	PASS
4516.00†	4254.34	-750.56	-803.16	15757.37	7862.61	-802.15	-2643.64	117.43	4050.88	142.25	28.60	PASS
4616.00†	4340.63	-785.07	-840.08	15812.78	7862.90	-857.49	-2641.07	117.08	3956.66	143.46	27.69	PASS
4716.00†	4426.93	-819.57	-877.00	15844.49	7862.92	-889.17	-2639.77	116.86	3862.41	144.45	26.85	PASS
4816.00†	4513.22	-854.07	-913.92	15876.17	7862.82	-920.84	-2638.73	116.62	3768.18	145.47	26.01	PASS
4916.00†	4599.52	-888.57	-950.84	15907.81	7862.60	-952.47	-2637.93	116.35	3673.97	146.53	25.17	PASS
5016.00†	4685.81	-923.07	-987.76	15939.42	7862.27	-984.07	-2637.39	116.06	3579.79	147.62	24.35	PASS
5116.00†	4772.10	-957.57	-1024.68	15969.25	7861.85	-1013.89	-2637.11	115.76	3485.63	148.72	23.53	PASS
5216.00†	4858.40	-992.07	-1061.60	15987.29	7861.60	-1031.94	-2637.04	115.57	3391.58	149.76	22.74	PASS
5316.00†	4944.69	-1026.58	-1098.52	16005.78	7861.39	-1050.42	-2637.07	115.37	3297.70	150.85	21.95	PASS
5416.00†	5030.98	-1061.08	-1135.44	16024.71	7861.22	-1069.35	-2637.18	115.15	3203.99	151.98	21.16	PASS
5516.00†	5117.28	-1095.58	-1172.36	16044.11	7861.11	-1088.75	-2637.40	114.91	3110.46	153.17	20.38	PASS
5616.00†	5203.57	-1130.08	-1209.28	16063.98	7861.04	-1108.62	-2637.72	114.66	3017.12	154.41	19.61	PASS
5716.00†	5289.87	-1164.58	-1246.20	16084.36	7861.03	-1128.99	-2638.15	114.39	2923.98	155.71	18.85	PASS
5816.00†	5376.16	-1199.08	-1283.12	16105.24	7861.08	-1149.86	-2638.71	114.09	2831.05	157.08	18.09	PASS
5916.00†	5462.45	-1233.59	-1320.04	16126.65	7861.19	-1171.27	-2639.39	113.78	2738.34	158.51	17.34	PASS
6016.00†	5548.75	-1268.09	-1356.96	16158.62	7861.45	-1203.21	-2640.57	113.28	2645.84	160.08	16.59	PASS
6116.00†	5635.04	-1302.59	-1393.87	16203.29	7861.77	-1247.85	-2642.10	112.55	2553.31	161.78	15.84	PASS
6216.00†	5721.33	-1337.09	-1430.79	16247.31	7862.03	-1291.85	-2643.43	111.77	2460.71	163.51	15.10	PASS
6316.00†	5807.63	-1371.59	-1467.71	16284.42	7862.21	-1328.95	-2644.46	111.06	2368.09	165.21	14.38	PASS
6416.00†	5893.92	-1406.09	-1504.63	16300.00	7862.28	-1344.52	-2644.89	110.75	2275.62	167.04	13.67	PASS
6516.00†	5980.22	-1440.59	-1541.55	16300.00	7862.28	-1344.52	-2644.89	110.75	2183.75	168.92	12.97	PASS
6616.00†	6066.51	-1475.10	-1578.47	16300.00	7862.28	-1344.52	-2644.89	110.75	2092.63	170.94	12.28	PASS
6716.00†	6152.80	-1509.60	-1615.39	16300.00	7862.28	-1344.52	-2644.89	110.75	2002.36	173.11	11.60	PASS
6816.00†	6239.10	-1544.10	-1652.31	16300.00	7862.28	-1344.52	-2644.89	110.75	1913.06	175.43	10.94	PASS
6916.00†	6325.39	-1578.60	-1689.23	16300.00	7862.28	-1344.52	-2644.89	110.75	1824.86	177.92	10.29	PASS
7016.00†	6411.68	-1613.10	-1726.15	16300.00	7862.28	-1344.52	-2644.89	110.75	1737.95	180.58	9.65	PASS
7116.00†	6497.98	-1647.60	-1763.07	16300.00	7862.28	-1344.52	-2644.89	110.75	1652.51	183.42	9.03	PASS
7216.00†	6584.27	-1682.10	-1799.99	16300.00	7862.28	-1344.52	-2644.89	110.75	1568.80	186.43	8.44	PASS
7316.00†	6670.57	-1716.61	-1836.91	16300.00	7862.28	-1344.52	-2644.89	110.75	1487.10	189.59	7.86	PASS
7416.00†	6756.86	-1751.11	-1873.83	16300.00	7862.28	-1344.52	-2644.89	110.75	1407.77	192.88	7.32	PASS
7516.00†	6843.15	-1785.61	-1910.75	16300.00	7862.28	-1344.52	-2644.89	110.75	1331.22	196.26	6.80	PASS
7616.00†	6929.45	-1820.11	-1947.66	16300.00	7862.28	-1344.52	-2644.89	110.75	1257.97	199.65	6.32	PASS
7716.00†	7015.74	-1854.61	-1984.58	16300.00	7862.28	-1344.52	-2644.89	110.75	1188.63	202.94	5.87	PASS
7816.00†	7102.03	-1889.11	-2021.50	16300.00	7862.28	-1344.52	-2644.89	110.75	1123.91	205.96	5.47	PASS



CLEARANCE DATA - Offset Wellbore: WAGNER #13C-3HZ AWB Offset Wellpath: WAGNER #13C-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#09 WAGNER #13C-3HZ (850'FNL & 556'FWL, SEC.34)			Well: WAGNER #13C-3HZ			Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7916.00†	7188.33	-1923.61	-2058.42	16300.00	7862.28	-1344.52	-2644.89	110.75	1064.66	208.50	5.12	PASS
8016.00†	7274.62	-1958.12	-2095.34	16300.00	7862.28	-1344.52	-2644.89	110.75	1011.85	210.25	4.82	PASS
8085.19	7334.33	-1981.99	-2120.89	16300.00	7862.28	-1344.52	-2644.89	110.75	979.63	210.84	4.66	PASS
8116.00†	7360.64	-1993.39	-2132.14	16300.00	7862.28	-1344.52	-2644.89	115.00	967.26	210.86	4.60	PASS
8211.21†	7437.84	-2038.07	-2165.11	16300.00	7862.28	-1344.52	-2644.89	124.73	944.11	209.61	4.51	PASS
8216.00†	7441.54	-2040.68	-2166.69	16300.00	7862.28	-1344.52	-2644.89	125.11	943.58	209.48	4.51	PASS
8253.50†	7469.75	-2062.26	-2178.71	16300.00	7862.28	-1344.52	-2644.89	127.73	941.57	208.43	4.53	PASS
8316.00†	7513.69	-2102.53	-2197.41	16300.00	7862.28	-1344.52	-2644.89	131.03	946.75	205.89	4.61	PASS
8416.00†	7574.90	-2177.06	-2223.37	16300.00	7862.28	-1344.52	-2644.89	134.00	976.41	200.31	4.89	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WAGNER #13C-3HZ AWB Offset Wellpath: WAGNER #13C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#09 WAGNER #13C-3HZ (850'FNL & 556'FWL, SEC.34) Well: WAGNER #13C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8516.00†	7623.30	-2261.99	-2243.79	16300.00	7862.28	-1344.52	-2644.89	134.48	1029.44	193.91	5.32	PASS
8616.00†	7657.43	-2354.77	-2258.05	16300.00	7862.28	-1344.52	-2644.89	132.18	1101.00	187.82	5.88	PASS
8716.00†	7676.26	-2452.55	-2265.70	16300.00	7862.28	-1344.52	-2644.89	125.51	1185.80	182.77	6.51	PASS
8784.36	7680.00	-2520.76	-2267.01	16300.00	7862.28	-1344.52	-2644.89	116.06	1248.82	180.06	6.95	PASS
8816.00†	7680.00	-2552.39	-2266.87	16300.00	7862.28	-1344.52	-2644.89	116.06	1278.70	178.97	7.16	PASS
8916.00†	7680.00	-2652.39	-2266.43	16300.00	7862.28	-1344.52	-2644.89	116.06	1373.68	175.85	7.83	PASS
9016.00†	7680.00	-2752.39	-2265.99	16300.00	7862.28	-1344.52	-2644.89	116.06	1469.32	173.19	8.51	PASS
9116.00†	7680.00	-2852.39	-2265.55	16300.00	7862.28	-1344.52	-2644.89	116.06	1565.50	170.90	9.19	PASS
9216.00†	7680.00	-2952.39	-2265.11	16300.00	7862.28	-1344.52	-2644.89	116.06	1662.14	168.93	9.87	PASS
9316.00†	7680.00	-3052.39	-2264.67	16300.00	7862.28	-1344.52	-2644.89	116.06	1759.15	167.21	10.55	PASS
9416.00†	7680.00	-3152.39	-2264.23	16300.00	7862.28	-1344.52	-2644.89	116.06	1856.48	165.72	11.24	PASS
9516.00†	7680.00	-3252.39	-2263.79	16300.00	7862.28	-1344.52	-2644.89	116.06	1954.08	164.40	11.92	PASS
9616.00†	7680.00	-3352.39	-2263.34	16300.00	7862.28	-1344.52	-2644.89	116.06	2051.91	163.25	12.61	PASS
9716.00†	7680.00	-3452.39	-2262.90	16300.00	7862.28	-1344.52	-2644.89	116.06	2149.94	162.23	13.30	PASS
9816.00†	7680.00	-3552.38	-2262.46	16300.00	7862.28	-1344.52	-2644.89	116.06	2248.14	161.33	13.98	PASS
9916.00†	7680.00	-3652.38	-2262.02	16300.00	7862.28	-1344.52	-2644.89	116.06	2346.50	160.52	14.67	PASS
10016.00†	7680.00	-3752.38	-2261.58	16300.00	7862.28	-1344.52	-2644.89	116.06	2444.98	159.80	15.35	PASS
10116.00†	7680.00	-3852.38	-2261.14	16300.00	7862.28	-1344.52	-2644.89	116.06	2543.59	159.16	16.04	PASS
10216.00†	7680.00	-3952.38	-2260.70	16300.00	7862.28	-1344.52	-2644.89	116.06	2642.30	158.58	16.72	PASS
10316.00†	7680.00	-4052.38	-2260.26	16300.00	7862.28	-1344.52	-2644.89	116.06	2741.11	158.05	17.40	PASS
10416.00†	7680.00	-4152.38	-2259.82	16300.00	7862.28	-1344.52	-2644.89	116.06	2839.99	157.58	18.09	PASS
10516.00†	7680.00	-4252.38	-2259.38	16300.00	7862.28	-1344.52	-2644.89	116.06	2938.96	157.15	18.77	PASS
10616.00†	7680.00	-4352.38	-2258.94	16300.00	7862.28	-1344.52	-2644.89	116.06	3037.99	156.77	19.45	PASS
10716.00†	7680.00	-4452.38	-2258.50	16300.00	7862.28	-1344.52	-2644.89	116.06	3137.08	156.41	20.13	PASS
10816.00†	7680.00	-4552.37	-2258.06	16300.00	7862.28	-1344.52	-2644.89	116.06	3236.23	156.09	20.81	PASS
10916.00†	7680.00	-4652.37	-2257.61	16300.00	7862.28	-1344.52	-2644.89	116.06	3335.43	155.80	21.49	PASS
11016.00†	7680.00	-4752.37	-2257.17	16300.00	7862.28	-1344.52	-2644.89	116.06	3434.68	155.53	22.16	PASS
11116.00†	7680.00	-4852.37	-2256.73	16300.00	7862.28	-1344.52	-2644.89	116.06	3533.97	155.28	22.84	PASS
11216.00†	7680.00	-4952.37	-2256.29	16300.00	7862.28	-1344.52	-2644.89	116.06	3633.29	155.06	23.52	PASS
11316.00†	7680.00	-5052.37	-2255.85	16300.00	7862.28	-1344.52	-2644.89	116.06	3732.66	154.85	24.19	PASS
11416.00†	7680.00	-5152.37	-2255.41	16300.00	7862.28	-1344.52	-2644.89	116.06	3832.05	154.67	24.87	PASS
11516.00†	7680.00	-5252.37	-2254.97	16300.00	7862.28	-1344.52	-2644.89	116.06	3931.48	154.49	25.54	PASS
11616.00†	7680.00	-5352.37	-2254.53	16300.00	7862.28	-1344.52	-2644.89	116.06	4030.93	154.33	26.21	PASS
11716.00†	7680.00	-5452.37	-2254.09	16300.00	7862.28	-1344.52	-2644.89	116.06	4130.42	154.19	26.89	PASS
11816.00†	7680.00	-5552.36	-2253.65	16300.00	7862.28	-1344.52	-2644.89	116.06	4229.92	154.05	27.56	PASS
11916.00†	7680.00	-5652.36	-2253.21	16300.00	7862.28	-1344.52	-2644.89	116.06	4329.45	153.93	28.23	PASS

CLEARANCE DATA - Offset Wellbore: WAGNER #13C-3HZ AWB Offset Wellpath: WAGNER #13C-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#09 WAGNER #13C-3HZ (850'FNL & 556'FWL, SEC.34)			Well: WAGNER #13C-3HZ			Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12016.00†	7680.00	-5752.36	-2252.77	16300.00	7862.28	-1344.52	-2644.89	116.06	4429.00	153.82	28.90	PASS
12116.00†	7680.00	-5852.36	-2252.32	16300.00	7862.28	-1344.52	-2644.89	116.06	4528.57	153.72	29.57	PASS
12216.00†	7680.00	-5952.36	-2251.88	16300.00	7862.28	-1344.52	-2644.89	116.06	4628.16	153.62	30.24	PASS
12316.00†	7680.00	-6052.36	-2251.44	16300.00	7862.28	-1344.52	-2644.89	116.06	4727.77	153.53	30.91	PASS
12416.00†	7680.00	-6152.36	-2251.00	16300.00	7862.28	-1344.52	-2644.89	116.06	4827.39	153.45	31.57	PASS
12516.00†	7680.00	-6252.36	-2250.56	16300.00	7862.28	-1344.52	-2644.89	116.06	4927.03	153.38	32.24	PASS
12616.00†	7680.00	-6352.36	-2250.12	16300.00	7862.28	-1344.52	-2644.89	116.06	5026.68	153.32	32.91	PASS
12716.00†	7680.00	-6452.36	-2249.68	16300.00	7862.28	-1344.52	-2644.89	116.06	5126.34	153.26	33.57	PASS
12816.00†	7680.00	-6552.36	-2249.24	16300.00	7862.28	-1344.52	-2644.89	116.06	5226.02	153.20	34.24	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WAGNER #13C-3HZ AWB Offset Wellpath: WAGNER #13C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#09 WAGNER #13C-3HZ (850'FNL & 556'FWL, SEC.34) Well: WAGNER #13C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12916.00†	7680.00	-6652.35	-2248.80	16300.00	7862.28	-1344.52	-2644.89	116.06	5325.71	153.16	34.90	PASS
13016.00†	7680.00	-6752.35	-2248.36	16300.00	7862.28	-1344.52	-2644.89	116.06	5425.41	153.11	35.57	PASS
13116.00†	7680.00	-6852.35	-2247.92	16300.00	7862.28	-1344.52	-2644.89	116.06	5525.13	153.07	36.23	PASS
13144.91	7680.00	-6881.26	-2247.79	16300.00	7862.28	-1344.52	-2644.89	116.06	5553.95	153.06	36.42	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: WAGNER #13C-3HZ AWB Offset Wellpath: WAGNER #13C-3HZ AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: WAGNER #13C-3HZ AWB Offset Wellpath: WAGNER #13C-3HZ 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	16.00	1057.00	1041.00	54.00	1094.99	4503.77	-1776.64	4503.99	-1777.37
9.625in Casing Surface	16.00	1057.00	1041.00	54.00	1094.99	4503.77	-1776.64	4503.99	-1777.37
8.75in Open Hole	1057.00	8176.00	7119.00	1094.99	7848.27	4503.99	-1777.37	4317.20	-1709.20
7in Casing Intermediate	16.00	8176.00	8160.00	54.00	7848.27	4503.77	-1776.64	4317.20	-1709.20
6.125in Open Hole	8176.00	16300.00	8124.00	7848.27	7862.28	4317.20	-1709.20	1842.12	-1694.66

## WELLPATH COMPOSITION - Offset Wellbore: WAGNER #13C-3HZ AWB Offset Wellpath: WAGNER #13C-3HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	1032.00	Generic gyro - continuous (Standard)	MS ENERGY GYRO SURVEYS <116-1032>	WAGNER #13C-3HZ AWB
1032.00	16254.00	ISCWSA MWD, Rev. 3, axial magnetic correction (Standard)	HALLIBURTON SURVEYS <1106-16254>	WAGNER #13C-3HZ AWB
16254.00	16300.00	Blind Drilling (std)	Projection to bit	WAGNER #13C-3HZ AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: WAGNER #13C-3HZ AWB Offset Wellpath: WAGNER #13C-3HZ AWP

MD Reference: Rig on SLOT#09 WAGNER #13C-3HZ (850'FNL & 556'FWL, SEC.34) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNEMYER #14C-3HZ AWP Offset Wellpath: GRENNEMYER #14C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#02 GRENNEMYER #14C-3HZ (636'FNL & 2605'FEL, SEC.34) Well: GRENNEMYER #14C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	0.00	49.00	7607.74	-801.11	-6.01	7649.87	25.57	310.91	PASS
116.00†	116.00	0.00	0.00	104.11	153.11	7607.53	-801.05	-6.01	7649.68	60.36	128.78	PASS
216.00†	216.00	0.00	0.00	218.58	267.57	7606.87	-800.70	-6.01	7649.07	60.37	128.73	PASS
316.00†	316.00	0.00	0.00	15096.56	7845.21	26.96	-988.60	-88.44	7593.88	91.83	83.42	PASS
416.00†	416.00	0.00	0.00	15096.66	7845.21	26.85	-988.60	-88.44	7494.75	91.86	82.31	PASS
516.00†	516.00	0.00	0.00	15096.77	7845.21	26.75	-988.60	-88.45	7395.63	91.89	81.19	PASS
616.00†	616.00	0.00	0.00	15096.87	7845.21	26.64	-988.60	-88.46	7296.54	91.93	80.08	PASS
716.00†	716.00	0.00	0.00	15096.98	7845.21	26.53	-988.61	-88.46	7197.48	91.97	78.96	PASS
816.00†	816.00	0.00	0.00	15097.09	7845.21	26.42	-988.61	-88.47	7098.44	91.80	77.84	PASS
916.00†	916.00	0.00	0.00	15097.20	7845.21	26.31	-988.61	-88.48	6999.43	91.84	76.71	PASS
1016.00†	1016.00	0.00	0.00	15097.32	7845.21	26.20	-988.61	-88.48	6900.45	91.89	75.59	PASS
1116.00†	1116.00	0.00	0.00	15097.43	7845.21	26.08	-988.61	-88.49	6801.49	91.95	74.46	PASS
1216.00†	1216.00	0.00	0.00	15097.55	7845.21	25.96	-988.61	-88.50	6702.57	92.00	73.33	PASS
1316.00†	1316.00	0.00	0.00	15097.67	7845.21	25.85	-988.61	-88.50	6603.68	92.06	72.20	PASS
1416.00†	1416.00	0.00	0.00	15097.79	7845.21	25.72	-988.61	-88.51	6504.83	92.13	71.07	PASS
1516.00†	1516.00	0.00	0.00	15097.91	7845.21	25.60	-988.62	-88.52	6406.01	92.20	69.94	PASS
1600.00	1600.00	0.00	0.00	15098.02	7845.21	25.49	-988.62	-88.52	6323.03	92.26	68.98	PASS
1616.00†	1616.00	-0.03	-0.03	15098.06	7845.21	25.46	-988.62	45.99	6307.22	92.27	68.80	PASS
1716.00†	1715.97	-1.60	-1.72	15099.10	7845.22	24.41	-988.63	56.73	6208.25	92.36	67.66	PASS
1816.00†	1815.80	-5.56	-5.95	15101.57	7845.22	21.94	-988.66	70.62	6109.05	92.46	66.50	PASS
1916.00†	1915.36	-11.89	-12.72	15105.49	7845.23	18.02	-988.70	87.03	6009.73	92.58	65.34	PASS
2016.00†	2014.54	-20.59	-22.03	15110.89	7845.25	12.63	-988.75	103.74	5910.41	92.70	64.17	PASS
2116.00†	2113.21	-31.64	-33.86	15117.78	7845.29	5.73	-988.81	118.29	5811.19	92.85	63.00	PASS
2216.00†	2211.26	-45.04	-48.20	15126.20	7845.34	-2.68	-988.87	129.70	5712.22	93.00	61.82	PASS
2316.00†	2308.57	-60.77	-65.03	15138.66	7845.43	-15.14	-988.93	138.31	5613.60	93.20	60.62	PASS
2416.00†	2405.01	-78.81	-84.34	15163.29	7845.60	-39.77	-989.06	144.92	5515.43	93.52	59.36	PASS
2516.00†	2500.47	-99.14	-106.09	15190.64	7845.75	-67.12	-989.22	150.08	5417.84	93.86	58.09	PASS
2616.00†	2594.84	-121.73	-130.26	15220.66	7845.88	-97.14	-989.42	154.20	5320.92	94.24	56.82	PASS
2716.00†	2687.99	-146.55	-156.82	15253.28	7845.96	-129.76	-989.68	157.56	5224.81	94.64	55.56	PASS
2816.00†	2779.81	-173.58	-185.74	15288.45	7846.00	-164.93	-989.99	160.36	5129.64	95.07	54.30	PASS
2916.00†	2870.20	-202.78	-216.99	15342.23	7845.89	-218.71	-990.56	163.00	5035.49	95.70	52.95	PASS
3016.00†	2959.04	-234.11	-250.52	15410.01	7845.27	-286.48	-991.54	165.51	4942.37	96.47	51.55	PASS
3116.00†	3046.23	-267.54	-286.29	15475.17	7844.15	-351.61	-992.77	167.68	4850.39	97.22	50.20	PASS
3117.60	3047.61	-268.10	-286.88	15475.39	7844.15	-351.84	-992.78	167.70	4848.93	97.22	50.18	PASS
3216.00†	3132.52	-302.05	-323.21	15489.29	7843.89	-365.73	-993.07	167.93	4759.17	97.45	49.14	PASS
3316.00†	3218.82	-336.55	-360.13	15503.70	7843.68	-380.13	-993.35	168.17	4668.22	97.70	48.07	PASS

CLEARANCE DATA - Offset Wellbore: GRENNYER #14C-3HZ AWB Offset Wellpath: GRENNYER #14C-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#02 GRENNYER #14C-3HZ (636'FNL & 2605'FEL, SEC.34)				Well: GRENNYER #14C-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	15518.41	7843.54	-394.84	-993.64	168.42	4577.53	97.97	47.01	PASS
3516.00†	3391.40	-405.55	-433.97	15533.42	7843.46	-409.85	-993.91	168.68	4487.13	98.25	45.95	PASS
3616.00†	3477.70	-440.05	-470.89	15548.76	7843.44	-425.18	-994.19	168.95	4397.02	98.55	44.89	PASS
3716.00†	3563.99	-474.55	-507.81	15647.17	7842.92	-523.57	-996.45	170.73	4307.02	99.66	43.48	PASS
3816.00†	3650.28	-509.05	-544.73	15660.57	7842.76	-536.96	-996.83	170.98	4216.88	99.96	42.44	PASS
3916.00†	3736.58	-543.56	-581.65	15674.26	7842.67	-550.65	-997.18	171.25	4127.07	100.28	41.40	PASS
4016.00†	3822.87	-578.06	-618.57	15688.25	7842.65	-564.63	-997.50	171.52	4037.62	100.62	40.37	PASS
4116.00†	3909.17	-612.56	-655.49	15702.53	7842.71	-578.91	-997.80	171.80	3948.55	100.97	39.34	PASS
4216.00†	3995.46	-647.06	-692.41	15717.14	7842.85	-593.51	-998.05	172.09	3859.88	101.35	38.31	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #14C-3HZ AWP Offset Wellpath: GRENNYER #14C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#02 GRENNYER #14C-3HZ (636'FNL & 2605'FEL, SEC.34) Well: GRENNYER #14C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	15740.71	7843.22	-617.08	-998.40	172.57	3771.63	101.82	37.26	PASS
4416.00†	4168.05	-716.06	-766.25	15797.82	7843.96	-674.17	-999.51	173.76	3683.55	102.61	36.11	PASS
4516.00†	4254.34	-750.56	-803.16	15839.97	7844.32	-716.31	-1000.54	174.66	3595.57	103.27	35.02	PASS
4616.00†	4340.63	-785.07	-840.08	15876.26	7844.62	-752.58	-1001.40	175.47	3507.85	103.90	33.95	PASS
4716.00†	4426.93	-819.57	-877.00	15999.10	7844.16	-875.36	-1005.25	178.34	3420.10	105.31	32.66	PASS
4816.00†	4513.22	-854.07	-913.92	16040.49	7843.38	-916.70	-1007.01	179.36	3332.05	106.02	31.60	PASS
4916.00†	4599.52	-888.57	-950.84	16079.69	7842.56	-955.85	-1008.75	-179.65	3244.26	106.74	30.56	PASS
5016.00†	4685.81	-923.07	-987.76	16114.60	7841.80	-990.71	-1010.38	-178.74	3156.80	107.45	29.54	PASS
5116.00†	4772.10	-957.57	-1024.68	16149.65	7841.04	-1025.71	-1012.11	-177.80	3069.72	108.19	28.53	PASS
5216.00†	4858.40	-992.07	-1061.60	16169.38	7840.64	-1045.41	-1013.09	-177.26	2983.12	108.83	27.56	PASS
5316.00†	4944.69	-1026.58	-1098.52	16187.31	7840.39	-1063.33	-1013.94	-176.76	2897.16	109.49	26.60	PASS
5416.00†	5030.98	-1061.08	-1135.44	16205.68	7840.23	-1081.67	-1014.76	-176.24	2811.91	110.20	25.65	PASS
5516.00†	5117.28	-1095.58	-1172.36	16224.48	7840.19	-1100.46	-1015.56	-175.70	2727.42	110.95	24.71	PASS
5616.00†	5203.57	-1130.08	-1209.28	16252.22	7840.28	-1128.17	-1016.66	-174.89	2643.74	111.85	23.76	PASS
5716.00†	5289.87	-1164.58	-1246.20	16299.87	7840.36	-1175.79	-1018.62	-173.46	2560.65	113.02	22.77	PASS
5816.00†	5376.16	-1199.08	-1283.12	16346.86	7840.23	-1222.73	-1020.70	-171.99	2478.12	114.27	21.80	PASS
5916.00†	5462.45	-1233.59	-1320.04	16393.17	7839.92	-1268.99	-1022.88	-170.51	2396.23	115.61	20.83	PASS
6016.00†	5548.75	-1268.09	-1356.96	16424.56	7839.64	-1300.34	-1024.43	-169.47	2315.12	116.88	19.91	PASS
6116.00†	5635.04	-1302.59	-1393.87	16449.59	7839.53	-1325.33	-1025.71	-168.63	2235.14	118.17	19.01	PASS
6216.00†	5721.33	-1337.09	-1430.79	16475.31	7839.56	-1351.02	-1027.06	-167.75	2156.40	119.58	18.12	PASS
6316.00†	5807.63	-1371.59	-1467.71	16505.94	7839.74	-1381.61	-1028.70	-166.69	2079.02	121.19	17.24	PASS
6416.00†	5893.92	-1406.09	-1504.63	16545.23	7839.98	-1420.84	-1030.82	-165.29	2002.96	123.08	16.35	PASS
6516.00†	5980.22	-1440.59	-1541.55	16584.26	7840.17	-1459.81	-1032.90	-163.87	1928.35	125.14	15.48	PASS
6616.00†	6066.51	-1475.10	-1578.47	16623.04	7840.31	-1498.53	-1034.95	-162.42	1855.35	127.41	14.63	PASS
6716.00†	6152.80	-1509.60	-1615.39	16660.75	7840.40	-1536.20	-1036.94	-160.98	1784.18	129.87	13.80	PASS
6816.00†	6239.10	-1544.10	-1652.31	16697.00	7840.49	-1572.39	-1038.84	-159.56	1715.11	132.54	13.00	PASS
6916.00†	6325.39	-1578.60	-1689.23	16697.00	7840.49	-1572.39	-1038.84	-159.56	1648.80	134.63	12.30	PASS
7016.00†	6411.68	-1613.10	-1726.15	16697.00	7840.49	-1572.39	-1038.84	-159.56	1586.04	136.83	11.64	PASS
7116.00†	6497.98	-1647.60	-1763.07	16697.00	7840.49	-1572.39	-1038.84	-159.56	1527.25	139.15	11.02	PASS
7216.00†	6584.27	-1682.10	-1799.99	16697.00	7840.49	-1572.39	-1038.84	-159.56	1472.91	141.54	10.45	PASS
7316.00†	6670.57	-1716.61	-1836.91	16697.00	7840.49	-1572.39	-1038.84	-159.56	1423.52	143.99	9.92	PASS
7416.00†	6756.86	-1751.11	-1873.83	16697.00	7840.49	-1572.39	-1038.84	-159.56	1379.63	146.45	9.46	PASS
7516.00†	6843.15	-1785.61	-1910.75	16697.00	7840.49	-1572.39	-1038.84	-159.56	1341.77	148.86	9.05	PASS
7616.00†	6929.45	-1820.11	-1947.66	16697.00	7840.49	-1572.39	-1038.84	-159.56	1310.46	151.15	8.70	PASS
7716.00†	7015.74	-1854.61	-1984.58	16697.00	7840.49	-1572.39	-1038.84	-159.56	1286.19	153.25	8.42	PASS
7816.00†	7102.03	-1889.11	-2021.50	16697.00	7840.49	-1572.39	-1038.84	-159.56	1269.35	155.10	8.21	PASS



CLEARANCE DATA - Offset Wellbore: GRENNYER #14C-3HZ AWB Offset Wellpath: GRENNYER #14C-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#02 GRENNYER #14C-3HZ (636'FNL & 2605'FEL, SEC.34)				Well: GRENNYER #14C-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7916.00†	7188.33	-1923.61	-2058.42	16697.00	7840.49	-1572.39	-1038.84	-159.56	1260.24	156.64	8.07	PASS
7980.23†	7243.75	-1945.77	-2082.14	16697.00	7840.49	-1572.39	-1038.84	-159.56	1258.56	157.44	8.02	PASS
8016.00†	7274.62	-1958.12	-2095.34	16697.00	7840.49	-1572.39	-1038.84	-159.56	1259.04	157.82	8.00	PASS
8062.48†	7314.73	-1974.15	-2112.50	16697.00	7840.49	-1572.39	-1038.84	-159.56	1261.18	158.23	8.00	PASS
8085.19	7334.33	-1981.99	-2120.89	16697.00	7840.49	-1572.39	-1038.84	-159.56	1262.85	158.40	8.00	PASS
8116.00†	7360.64	-1993.39	-2132.14	16697.00	7840.49	-1572.39	-1038.84	-155.41	1266.01	158.58	8.01	PASS
8216.00†	7441.54	-2040.68	-2166.69	16697.00	7840.49	-1572.39	-1038.84	-144.21	1284.71	158.44	8.14	PASS
8316.00†	7513.69	-2102.53	-2197.41	16697.00	7840.49	-1572.39	-1038.84	-135.08	1315.34	157.30	8.39	PASS
8416.00†	7574.90	-2177.06	-2223.37	16697.00	7840.49	-1572.39	-1038.84	-126.77	1356.20	155.28	8.76	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #14C-3HZ AWP Offset Wellpath: GRENNYER #14C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#02 GRENNYER #14C-3HZ (636'FNL & 2605'FEL, SEC.34) Well: GRENNYER #14C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8516.00†	7623.30	-2261.99	-2243.79	16697.00	7840.49	-1572.39	-1038.84	-118.65	1405.21	152.59	9.24	PASS
8616.00†	7657.43	-2354.77	-2258.05	16697.00	7840.49	-1572.39	-1038.84	-110.54	1460.16	149.49	9.80	PASS
8716.00†	7676.26	-2452.55	-2265.70	16697.00	7840.49	-1572.39	-1038.84	-102.58	1518.83	146.19	10.43	PASS
8784.36	7680.00	-2520.76	-2267.01	16697.00	7840.49	-1572.39	-1038.84	-97.42	1559.98	143.94	10.88	PASS
8816.00†	7680.00	-2552.39	-2266.87	16697.00	7840.49	-1572.39	-1038.84	-97.42	1579.31	142.91	11.09	PASS
8916.00†	7680.00	-2652.39	-2266.43	16697.00	7840.49	-1572.39	-1038.84	-97.42	1642.90	139.84	11.80	PASS
9016.00†	7680.00	-2752.39	-2265.99	16697.00	7840.49	-1572.39	-1038.84	-97.42	1709.98	137.04	12.53	PASS
9116.00†	7680.00	-2852.39	-2265.55	16697.00	7840.49	-1572.39	-1038.84	-97.42	1780.16	134.51	13.29	PASS
9216.00†	7680.00	-2952.39	-2265.11	16697.00	7840.49	-1572.39	-1038.84	-97.42	1853.07	132.23	14.07	PASS
9316.00†	7680.00	-3052.39	-2264.67	16697.00	7840.49	-1572.39	-1038.84	-97.42	1928.42	130.19	14.88	PASS
9416.00†	7680.00	-3152.39	-2264.23	16697.00	7840.49	-1572.39	-1038.84	-97.42	2005.92	128.37	15.70	PASS
9516.00†	7680.00	-3252.39	-2263.79	16697.00	7840.49	-1572.39	-1038.84	-97.42	2085.33	126.74	16.53	PASS
9616.00†	7680.00	-3352.39	-2263.34	16697.00	7840.49	-1572.39	-1038.84	-97.42	2166.46	125.29	17.37	PASS
9716.00†	7680.00	-3452.39	-2262.90	16697.00	7840.49	-1572.39	-1038.84	-97.42	2249.10	124.01	18.22	PASS
9816.00†	7680.00	-3552.38	-2262.46	16697.00	7840.49	-1572.39	-1038.84	-97.42	2333.10	122.86	19.08	PASS
9916.00†	7680.00	-3652.38	-2262.02	16697.00	7840.49	-1572.39	-1038.84	-97.42	2418.32	121.84	19.94	PASS
10016.00†	7680.00	-3752.38	-2261.58	16697.00	7840.49	-1572.39	-1038.84	-97.42	2504.64	120.94	20.81	PASS
10116.00†	7680.00	-3852.38	-2261.14	16697.00	7840.49	-1572.39	-1038.84	-97.42	2591.93	120.14	21.68	PASS
10216.00†	7680.00	-3952.38	-2260.70	16697.00	7840.49	-1572.39	-1038.84	-97.42	2680.12	119.43	22.55	PASS
10316.00†	7680.00	-4052.38	-2260.26	16697.00	7840.49	-1572.39	-1038.84	-97.42	2769.11	118.79	23.43	PASS
10416.00†	7680.00	-4152.38	-2259.82	16697.00	7840.49	-1572.39	-1038.84	-97.42	2858.82	118.23	24.30	PASS
10516.00†	7680.00	-4252.38	-2259.38	16697.00	7840.49	-1572.39	-1038.84	-97.42	2949.20	117.73	25.17	PASS
10616.00†	7680.00	-4352.38	-2258.94	16697.00	7840.49	-1572.39	-1038.84	-97.42	3040.18	117.29	26.05	PASS
10716.00†	7680.00	-4452.38	-2258.50	16697.00	7840.49	-1572.39	-1038.84	-97.42	3131.71	116.90	26.92	PASS
10816.00†	7680.00	-4552.37	-2258.06	16697.00	7840.49	-1572.39	-1038.84	-97.42	3223.74	116.55	27.80	PASS
10916.00†	7680.00	-4652.37	-2257.61	16697.00	7840.49	-1572.39	-1038.84	-97.42	3316.24	116.25	28.67	PASS
11016.00†	7680.00	-4752.37	-2257.17	16697.00	7840.49	-1572.39	-1038.84	-97.42	3409.16	115.98	29.54	PASS
11116.00†	7680.00	-4852.37	-2256.73	16697.00	7840.49	-1572.39	-1038.84	-97.42	3502.47	115.74	30.42	PASS
11216.00†	7680.00	-4952.37	-2256.29	16697.00	7840.49	-1572.39	-1038.84	-97.42	3596.13	115.53	31.29	PASS
11316.00†	7680.00	-5052.37	-2255.85	16697.00	7840.49	-1572.39	-1038.84	-97.42	3690.14	115.35	32.16	PASS
11416.00†	7680.00	-5152.37	-2255.41	16697.00	7840.49	-1572.39	-1038.84	-97.42	3784.44	115.19	33.02	PASS
11516.00†	7680.00	-5252.37	-2254.97	16697.00	7840.49	-1572.39	-1038.84	-97.42	3879.04	115.05	33.89	PASS
11616.00†	7680.00	-5352.37	-2254.53	16697.00	7840.49	-1572.39	-1038.84	-97.42	3973.90	114.94	34.75	PASS
11716.00†	7680.00	-5452.37	-2254.09	16697.00	7840.49	-1572.39	-1038.84	-97.42	4069.00	114.84	35.62	PASS
11816.00†	7680.00	-5552.36	-2253.65	16697.00	7840.49	-1572.39	-1038.84	-97.42	4164.33	114.75	36.48	PASS
11916.00†	7680.00	-5652.36	-2253.21	16697.00	7840.49	-1572.39	-1038.84	-97.42	4259.88	114.68	37.34	PASS

CLEARANCE DATA - Offset Wellbore: GRENNYER #14C-3HZ AWB Offset Wellpath: GRENNYER #14C-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#02 GRENNYER #14C-3HZ (636'FNL & 2605'FEL, SEC.34)				Well: GRENNYER #14C-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12016.00†	7680.00	-5752.36	-2252.77	16697.00	7840.49	-1572.39	-1038.84	-97.42	4355.63	114.63	38.20	PASS
12116.00†	7680.00	-5852.36	-2252.32	16697.00	7840.49	-1572.39	-1038.84	-97.42	4451.56	114.59	39.05	PASS
12216.00†	7680.00	-5952.36	-2251.88	16697.00	7840.49	-1572.39	-1038.84	-97.42	4547.67	114.55	39.91	PASS
12316.00†	7680.00	-6052.36	-2251.44	16697.00	7840.49	-1572.39	-1038.84	-97.42	4643.95	114.53	40.76	PASS
12416.00†	7680.00	-6152.36	-2251.00	16697.00	7840.49	-1572.39	-1038.84	-97.42	4740.38	114.52	41.61	PASS
12516.00†	7680.00	-6252.36	-2250.56	16697.00	7840.49	-1572.39	-1038.84	-97.42	4836.95	114.51	42.46	PASS
12616.00†	7680.00	-6352.36	-2250.12	16697.00	7840.49	-1572.39	-1038.84	-97.42	4933.66	114.52	43.31	PASS
12716.00†	7680.00	-6452.36	-2249.68	16697.00	7840.49	-1572.39	-1038.84	-97.42	5030.50	114.53	44.15	PASS
12816.00†	7680.00	-6552.36	-2249.24	16697.00	7840.49	-1572.39	-1038.84	-97.42	5127.46	114.54	45.00	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNEMYER #14C-3HZ AWB Offset Wellpath: GRENNEMYER #14C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#02 GRENNEMYER #14C-3HZ (636'FNL & 2605'FEL, SEC.34) Well: GRENNEMYER #14C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12916.00†	7680.00	-6652.35	-2248.80	16697.00	7840.49	-1572.39	-1038.84	-97.42	5224.53	114.57	45.84	PASS
13016.00†	7680.00	-6752.35	-2248.36	16697.00	7840.49	-1572.39	-1038.84	-97.42	5321.72	114.60	46.68	PASS
13116.00†	7680.00	-6852.35	-2247.92	16697.00	7840.49	-1572.39	-1038.84	-97.42	5419.00	114.63	47.52	PASS
13144.91	7680.00	-6881.26	-2247.79	16697.00	7840.49	-1572.39	-1038.84	-97.42	5447.14	114.64	47.76	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: GRENNEMYER #14C-3HZ AWB Offset Wellpath: GRENNEMYER #14C-3HZ AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: GRENNEMYER #14C-3HZ AWB Offset Wellpath: GRENNEMYER #14C-3HZ 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	16.00	1107.00	1091.00	65.00	1155.97	4637.68	-488.28	4636.82	-486.44
9.625in Casing Surface	16.00	1107.00	1091.00	65.00	1155.97	4637.68	-488.28	4636.82	-486.44
8.75in Open Hole	1107.00	8185.00	7078.00	1155.97	7820.62	4636.82	-486.44	4432.82	-559.27
7in Casing Intermediate	16.00	8173.00	8157.00	65.00	7820.48	4637.68	-488.28	4436.47	-559.26
6.125in Open Hole	8185.00	16697.00	8512.00	7820.62	7840.49	4432.82	-559.27	1839.58	-560.83

## WELLPATH COMPOSITION - Offset Wellbore: GRENNEMYER #14C-3HZ AWB Offset Wellpath: GRENNEMYER #14C-3HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	963.00	Generic gyro - continuous (Standard)	MS ENERGY GYRO SURVEYS <116-963>	GRENNEMYER #14C-3HZ AWB
963.00	8127.00	NaviTrak (Magcorr,IFR)	BHI MWD + IFR SURVEYS 8.75" HOLE <1183-8127>	GRENNEMYER #14C-3HZ AWB
8127.00	16645.00	NaviTrak (Magcorr,IFR)	BHI MWD + IFR SURVEYS 6.125" HOLE <8184-16645>	GRENNEMYER #14C-3HZ AWB
16645.00	16697.00	Blind Drilling (std)	Projection to bit	GRENNEMYER #14C-3HZ AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: GRENNEMYER #14C-3HZ AWB Offset Wellpath: GRENNEMYER #14C-3HZ AWP

MD Reference: Rig on SLOT#02 GRENNEMYER #14C-3HZ (636'FNL & 2605'FEL, SEC.34) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: L.W. MOORE GAS UNIT 1 AWB Offset Wellpath: L.W. MOORE GAS UNIT 1 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#03 EX L.W. MOORE GAS UNIT 1 (900'FNL & 300'FEL, SEC.10, PR) Well: L.W. MOORE GAS UNIT 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
16.00	16.00	0.00	0.00	-16.00	36.00	-3010.38	1981.78	146.64	3604.20	25.57	146.46	PASS
116.00†	116.00	0.00	0.00	64.00	116.00	-3010.38	1981.78	146.64	3604.14	63.45	57.66	PASS
216.00†	216.00	0.00	0.00	164.00	216.00	-3010.38	1981.78	146.64	3604.14	68.30	53.51	PASS
316.00†	316.00	0.00	0.00	264.00	316.00	-3010.38	1981.78	146.64	3604.14	73.15	49.92	PASS
416.00†	416.00	0.00	0.00	364.00	416.00	-3010.38	1981.78	146.64	3604.14	78.00	46.77	PASS
516.00†	516.00	0.00	0.00	464.00	516.00	-3010.38	1981.78	146.64	3604.14	82.85	44.00	PASS
616.00†	616.00	0.00	0.00	564.00	616.00	-3010.38	1981.78	146.64	3604.14	87.71	41.54	PASS
716.00†	716.00	0.00	0.00	664.00	716.00	-3010.38	1981.78	146.64	3604.14	92.58	39.33	PASS
816.00†	816.00	0.00	0.00	764.00	816.00	-3010.38	1981.78	146.64	3604.14	97.06	37.35	PASS
916.00†	916.00	0.00	0.00	864.00	916.00	-3010.38	1981.78	146.64	3604.14	101.94	35.55	PASS
1016.00†	1016.00	0.00	0.00	964.00	1016.00	-3010.38	1981.78	146.64	3604.14	106.81	33.92	PASS
1116.00†	1116.00	0.00	0.00	1064.00	1116.00	-3010.38	1981.78	146.64	3604.14	111.69	32.43	PASS
1216.00†	1216.00	0.00	0.00	1164.00	1216.00	-3010.38	1981.78	146.64	3604.14	116.58	31.07	PASS
1316.00†	1316.00	0.00	0.00	1264.00	1316.00	-3010.38	1981.78	146.64	3604.14	121.46	29.81	PASS
1416.00†	1416.00	0.00	0.00	1364.00	1416.00	-3010.38	1981.78	146.64	3604.14	126.35	28.65	PASS
1516.00†	1516.00	0.00	0.00	1464.00	1516.00	-3010.38	1981.78	146.64	3604.14	131.25	27.58	PASS
1600.00	1600.00	0.00	0.00	1548.00	1600.00	-3010.38	1981.78	146.64	3604.14	135.36	26.74	PASS
1616.00†	1616.00	-0.03	-0.03	1564.00	1616.00	-3010.38	1981.78	-80.30	3604.14	136.15	26.58	PASS
1716.00†	1715.97	-1.60	-1.72	1663.97	1715.97	-3010.38	1981.78	-80.34	3603.75	141.05	25.65	PASS
1816.00†	1815.80	-5.56	-5.95	1763.80	1815.80	-3010.38	1981.78	-80.45	3602.78	145.95	24.78	PASS
1916.00†	1915.36	-11.89	-12.72	1863.36	1915.36	-3010.38	1981.78	-80.63	3601.25	150.85	23.96	PASS
2016.00†	2014.54	-20.59	-22.03	1962.54	2014.54	-3010.38	1981.78	-80.86	3599.19	155.73	23.19	PASS
2116.00†	2113.21	-31.64	-33.86	2061.21	2113.21	-3010.38	1981.78	-81.17	3596.62	160.61	22.47	PASS
2216.00†	2211.26	-45.04	-48.20	2159.26	2211.26	-3010.38	1981.78	-81.53	3593.61	165.48	21.79	PASS
2316.00†	2308.57	-60.77	-65.03	2256.57	2308.57	-3010.38	1981.78	-81.95	3590.21	170.34	21.15	PASS
2416.00†	2405.01	-78.81	-84.34	2353.01	2405.01	-3010.38	1981.78	-82.43	3586.49	175.20	20.54	PASS
2516.00†	2500.47	-99.14	-106.09	2448.47	2500.47	-3010.38	1981.78	-82.96	3582.53	180.05	19.96	PASS
2616.00†	2594.84	-121.73	-130.26	2542.84	2594.84	-3010.38	1981.78	-83.54	3578.41	184.91	19.41	PASS
2716.00†	2687.99	-146.55	-156.82	2635.99	2687.99	-3010.38	1981.78	-84.16	3574.23	189.77	18.89	PASS
2816.00†	2779.81	-173.58	-185.74	2727.81	2779.81	-3010.38	1981.78	-84.82	3570.10	194.65	18.39	PASS
2916.00†	2870.20	-202.78	-216.99	2818.20	2870.20	-3010.38	1981.78	-85.52	3566.12	199.55	17.92	PASS
3016.00†	2959.04	-234.11	-250.52	2907.04	2959.04	-3010.38	1981.78	-86.25	3562.42	204.47	17.47	PASS
3116.00†	3046.23	-267.54	-286.29	2994.23	3046.23	-3010.38	1981.78	-87.00	3559.12	209.42	17.04	PASS
3117.60	3047.61	-268.10	-286.88	2995.61	3047.61	-3010.38	1981.78	-87.01	3559.07	209.50	17.03	PASS
3216.00†	3132.52	-302.05	-323.21	3080.52	3132.52	-3010.38	1981.78	-87.70	3556.42	214.42	16.63	PASS
3316.00†	3218.82	-336.55	-360.13	3166.82	3218.82	-3010.38	1981.78	-88.41	3554.43	219.48	16.24	PASS

CLEARANCE DATA - Offset Wellbore: L.W. MOORE GAS UNIT 1 AWB    Offset Wellpath: L.W. MOORE GAS UNIT 1 AWP												
Facility: SEC.10-T01S-R67W    Slot: SLOT#03 EX L.W. MOORE GAS UNIT 1 (900'FNL & 300'FEL, SEC.10, PR)    Well: L.W. MOORE GAS UNIT 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
3416.00†	3305.11	-371.05	-397.05	3253.11	3305.11	-3010.38	1981.78	-89.11	3553.16	224.61	15.86	PASS
3516.00†	3391.40	-405.55	-433.97	3339.40	3391.40	-3010.38	1981.78	-89.81	3552.61	229.79	15.50	PASS
3553.50†	3423.76	-418.49	-447.82	3370.43	3422.43	-3010.38	1981.78	-90.07	3552.59	231.69	15.37	PASS
3616.00†	3477.70	-440.05	-470.89	3425.70	3477.70	-3010.38	1981.78	-90.52	3552.77	235.02	15.15	PASS
3716.00†	3563.99	-474.55	-507.81	3511.99	3563.99	-3010.38	1981.78	-91.22	3553.66	240.30	14.82	PASS
3816.00†	3650.28	-509.05	-544.73	3598.28	3650.28	-3010.38	1981.78	-91.92	3555.26	245.61	14.51	PASS
3916.00†	3736.58	-543.56	-581.65	3684.58	3736.58	-3010.38	1981.78	-92.62	3557.58	250.96	14.21	PASS
4016.00†	3822.87	-578.06	-618.57	3770.87	3822.87	-3010.38	1981.78	-93.33	3560.62	256.34	13.92	PASS
4116.00†	3909.17	-612.56	-655.49	3857.17	3909.17	-3010.38	1981.78	-94.03	3564.37	261.74	13.65	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: L.W. MOORE GAS UNIT 1 AWB Offset Wellpath: L.W. MOORE GAS UNIT 1 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#03 EX L.W. MOORE GAS UNIT 1 (900'FNL & 300'FEL, SEC.10, PR) Well: L.W. MOORE GAS UNIT 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
4216.00†	3995.46	-647.06	-692.41	3943.46	3995.46	-3010.38	1981.78	-94.72	3568.83	267.17	13.39	PASS
4316.00†	4081.75	-681.56	-729.33	4029.75	4081.75	-3010.38	1981.78	-95.42	3574.00	272.61	13.14	PASS
4416.00†	4168.05	-716.06	-766.25	4116.05	4168.05	-3010.38	1981.78	-96.12	3579.88	278.07	12.90	PASS
4516.00†	4254.34	-750.56	-803.16	4202.34	4254.34	-3010.38	1981.78	-96.81	3586.46	283.54	12.67	PASS
4616.00†	4340.63	-785.07	-840.08	4288.63	4340.63	-3010.38	1981.78	-97.51	3593.74	289.02	12.46	PASS
4716.00†	4426.93	-819.57	-877.00	4374.93	4426.93	-3010.38	1981.78	-98.20	3601.71	294.51	12.25	PASS
4816.00†	4513.22	-854.07	-913.92	4461.22	4513.22	-3010.38	1981.78	-98.88	3610.37	300.00	12.06	PASS
4916.00†	4599.52	-888.57	-950.84	4547.52	4599.52	-3010.38	1981.78	-99.57	3619.72	305.49	11.87	PASS
5016.00†	4685.81	-923.07	-987.76	4633.81	4685.81	-3010.38	1981.78	-100.25	3629.75	310.99	11.69	PASS
5116.00†	4772.10	-957.57	-1024.68	4720.10	4772.10	-3010.38	1981.78	-100.93	3640.45	316.48	11.52	PASS
5216.00†	4858.40	-992.07	-1061.60	4806.40	4858.40	-3010.38	1981.78	-101.61	3651.81	321.97	11.36	PASS
5316.00†	4944.69	-1026.58	-1098.52	4892.69	4944.69	-3010.38	1981.78	-102.28	3663.84	327.46	11.21	PASS
5416.00†	5030.98	-1061.08	-1135.44	4978.98	5030.98	-3010.38	1981.78	-102.95	3676.53	332.94	11.06	PASS
5516.00†	5117.28	-1095.58	-1172.36	5065.28	5117.28	-3010.38	1981.78	-103.62	3689.86	338.42	10.92	PASS
5616.00†	5203.57	-1130.08	-1209.28	5151.57	5203.57	-3010.38	1981.78	-104.28	3703.84	343.89	10.79	PASS
5716.00†	5289.87	-1164.58	-1246.20	5237.87	5289.87	-3010.38	1981.78	-104.94	3718.44	349.34	10.66	PASS
5816.00†	5376.16	-1199.08	-1283.12	5324.16	5376.16	-3010.38	1981.78	-105.59	3733.68	354.79	10.54	PASS
5916.00†	5462.45	-1233.59	-1320.04	5410.45	5462.45	-3010.38	1981.78	-106.24	3749.53	360.23	10.42	PASS
6016.00†	5548.75	-1268.09	-1356.96	5496.75	5548.75	-3010.38	1981.78	-106.89	3766.00	365.66	10.31	PASS
6116.00†	5635.04	-1302.59	-1393.87	5583.04	5635.04	-3010.38	1981.78	-107.53	3783.07	371.08	10.21	PASS
6216.00†	5721.33	-1337.09	-1430.79	5669.33	5721.33	-3010.38	1981.78	-108.17	3800.73	376.48	10.11	PASS
6316.00†	5807.63	-1371.59	-1467.71	5755.63	5807.63	-3010.38	1981.78	-108.80	3818.99	381.88	10.01	PASS
6416.00†	5893.92	-1406.09	-1504.63	5841.92	5893.92	-3010.38	1981.78	-109.43	3837.82	387.26	9.92	PASS
6516.00†	5980.22	-1440.59	-1541.55	5928.22	5980.22	-3010.38	1981.78	-110.05	3857.22	392.62	9.84	PASS
6616.00†	6066.51	-1475.10	-1578.47	6014.51	6066.51	-3010.38	1981.78	-110.67	3877.18	397.97	9.76	PASS
6716.00†	6152.80	-1509.60	-1615.39	6100.80	6152.80	-3010.38	1981.78	-111.28	3897.69	403.31	9.68	PASS
6816.00†	6239.10	-1544.10	-1652.31	6187.10	6239.10	-3010.38	1981.78	-111.89	3918.75	408.63	9.60	PASS
6916.00†	6325.39	-1578.60	-1689.23	6273.39	6325.39	-3010.38	1981.78	-112.49	3940.35	413.94	9.53	PASS
7016.00†	6411.68	-1613.10	-1726.15	6359.68	6411.68	-3010.38	1981.78	-113.09	3962.47	419.23	9.46	PASS
7116.00†	6497.98	-1647.60	-1763.07	6445.98	6497.98	-3010.38	1981.78	-113.68	3985.11	424.51	9.40	PASS
7216.00†	6584.27	-1682.10	-1799.99	6532.27	6584.27	-3010.38	1981.78	-114.27	4008.25	429.77	9.34	PASS
7316.00†	6670.57	-1716.61	-1836.91	6618.57	6670.57	-3010.38	1981.78	-114.85	4031.90	435.02	9.28	PASS
7416.00†	6756.86	-1751.11	-1873.83	6704.86	6756.86	-3010.38	1981.78	-115.43	4056.04	440.25	9.22	PASS
7516.00†	6843.15	-1785.61	-1910.75	6791.15	6843.15	-3010.38	1981.78	-116.00	4080.67	445.47	9.17	PASS
7616.00†	6929.45	-1820.11	-1947.66	6877.45	6929.45	-3010.38	1981.78	-116.56	4105.76	450.68	9.12	PASS
7716.00†	7015.74	-1854.61	-1984.58	6963.74	7015.74	-3010.38	1981.78	-117.12	4131.33	455.86	9.07	PASS



CLEARANCE DATA - Offset Wellbore: L.W. MOORE GAS UNIT 1 AWB    Offset Wellpath: L.W. MOORE GAS UNIT 1 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#03 EX L.W. MOORE GAS UNIT 1 (900'FNL & 300'FEL, SEC.10, PR)				Well: L.W. MOORE GAS UNIT 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
7816.00†	7102.03	-1889.11	-2021.50	7050.03	7102.03	-3010.38	1981.78	-117.68	4157.35	461.04	9.03	PASS
7916.00†	7188.33	-1923.61	-2058.42	7136.33	7188.33	-3010.38	1981.78	-118.23	4183.82	466.20	8.98	PASS
8016.00†	7274.62	-1958.12	-2095.34	7222.62	7274.62	-3010.38	1981.78	-118.77	4210.72	471.34	8.94	PASS
8085.19	7334.33	-1981.99	-2120.89	7282.33	7334.33	-3010.38	1981.78	-119.14	4229.60	474.89	8.92	PASS
8116.00†	7360.64	-1993.39	-2132.14	7308.64	7360.64	-3010.38	1981.78	-114.69	4237.76	476.47	8.90	PASS
8216.00†	7441.54	-2040.68	-2166.69	7389.54	7441.54	-3010.38	1981.78	-103.81	4260.29	481.54	8.86	PASS
8316.00†	7513.69	-2102.53	-2197.41	7461.69	7513.69	-3010.38	1981.78	-96.96	4276.66	486.45	8.80	PASS
8416.00†	7574.90	-2177.06	-2223.37	7522.90	7574.90	-3010.38	1981.78	-92.77	4286.93	490.94	8.74	PASS
8516.00†	7623.30	-2261.99	-2243.79	7571.30	7623.30	-3010.38	1981.78	-90.41	4291.34	494.86	8.68	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: L.W. MOORE GAS UNIT 1 AWB Offset Wellpath: L.W. MOORE GAS UNIT 1 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#03 EX L.W. MOORE GAS UNIT 1 (900'FNL & 300'FEL, SEC.10, PR) Well: L.W. MOORE GAS UNIT 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
8616.00†	7657.43	-2354.77	-2258.05	7605.43	7657.43	-3010.38	1981.78	-89.41	4290.22	498.12	8.62	PASS
8716.00†	7676.26	-2452.55	-2265.70	7624.26	7676.26	-3010.38	1981.78	-89.45	4283.96	500.60	8.57	PASS
8784.36	7680.00	-2520.76	-2267.01	7628.00	7680.00	-3010.38	1981.78	-90.00	4276.91	501.82	8.53	PASS
8816.00†	7680.00	-2552.39	-2266.87	7628.00	7680.00	-3010.38	1981.78	-90.00	4273.27	502.28	8.52	PASS
8916.00†	7680.00	-2652.39	-2266.43	7628.00	7680.00	-3010.38	1981.78	-90.00	4263.27	503.71	8.47	PASS
9016.00†	7680.00	-2752.39	-2265.99	7628.00	7680.00	-3010.38	1981.78	-90.00	4255.60	505.11	8.43	PASS
9116.00†	7680.00	-2852.39	-2265.55	7628.00	7680.00	-3010.38	1981.78	-90.00	4250.27	506.49	8.40	PASS
9216.00†	7680.00	-2952.39	-2265.11	7628.00	7680.00	-3010.38	1981.78	-90.00	4247.29	507.83	8.37	PASS
9266.54†	7680.00	-3002.93	-2264.89	7628.00	7680.00	-3010.38	1981.78	-90.00	4246.67	529.78	8.02	PASS
9316.00†	7680.00	-3052.39	-2264.67	7628.00	7680.00	-3010.38	1981.78	-90.00	4246.66	509.13	8.35	PASS
9416.00†	7680.00	-3152.39	-2264.23	7628.00	7680.00	-3010.38	1981.78	-90.00	4248.38	510.40	8.33	PASS
9516.00†	7680.00	-3252.39	-2263.79	7628.00	7680.00	-3010.38	1981.78	-90.00	4252.46	511.63	8.32	PASS
9616.00†	7680.00	-3352.39	-2263.34	7628.00	7680.00	-3010.38	1981.78	-90.00	4258.88	512.81	8.31	PASS
9716.00†	7680.00	-3452.39	-2262.90	7628.00	7680.00	-3010.38	1981.78	-90.00	4267.64	513.94	8.31	PASS
9816.00†	7680.00	-3552.38	-2262.46	7628.00	7680.00	-3010.38	1981.78	-90.00	4278.71	515.03	8.32	PASS
9916.00†	7680.00	-3652.38	-2262.02	7628.00	7680.00	-3010.38	1981.78	-90.00	4292.09	516.07	8.33	PASS
10016.00†	7680.00	-3752.38	-2261.58	7628.00	7680.00	-3010.38	1981.78	-90.00	4307.75	517.06	8.34	PASS
10116.00†	7680.00	-3852.38	-2261.14	7628.00	7680.00	-3010.38	1981.78	-90.00	4325.66	517.99	8.36	PASS
10216.00†	7680.00	-3952.38	-2260.70	7628.00	7680.00	-3010.38	1981.78	-90.00	4345.80	518.88	8.38	PASS
10316.00†	7680.00	-4052.38	-2260.26	7628.00	7680.00	-3010.38	1981.78	-90.00	4368.14	519.71	8.41	PASS
10416.00†	7680.00	-4152.38	-2259.82	7628.00	7680.00	-3010.38	1981.78	-90.00	4392.64	520.49	8.45	PASS
10516.00†	7680.00	-4252.38	-2259.38	7628.00	7680.00	-3010.38	1981.78	-90.00	4419.27	521.22	8.49	PASS
10616.00†	7680.00	-4352.38	-2258.94	7628.00	7680.00	-3010.38	1981.78	-90.00	4447.99	521.90	8.53	PASS
10716.00†	7680.00	-4452.38	-2258.50	7628.00	7680.00	-3010.38	1981.78	-90.00	4478.76	522.52	8.58	PASS
10816.00†	7680.00	-4552.37	-2258.06	7628.00	7680.00	-3010.38	1981.78	-90.00	4511.54	523.10	8.63	PASS
10916.00†	7680.00	-4652.37	-2257.61	7628.00	7680.00	-3010.38	1981.78	-90.00	4546.27	523.63	8.69	PASS
11016.00†	7680.00	-4752.37	-2257.17	7628.00	7680.00	-3010.38	1981.78	-90.00	4582.93	524.11	8.75	PASS
11116.00†	7680.00	-4852.37	-2256.73	7628.00	7680.00	-3010.38	1981.78	-90.00	4621.46	524.54	8.82	PASS
11216.00†	7680.00	-4952.37	-2256.29	7628.00	7680.00	-3010.38	1981.78	-90.00	4661.82	524.93	8.89	PASS
11316.00†	7680.00	-5052.37	-2255.85	7628.00	7680.00	-3010.38	1981.78	-90.00	4703.96	525.28	8.96	PASS
11416.00†	7680.00	-5152.37	-2255.41	7628.00	7680.00	-3010.38	1981.78	-90.00	4747.83	525.59	9.04	PASS
11516.00†	7680.00	-5252.37	-2254.97	7628.00	7680.00	-3010.38	1981.78	-90.00	4793.39	525.86	9.12	PASS
11616.00†	7680.00	-5352.37	-2254.53	7628.00	7680.00	-3010.38	1981.78	-90.00	4840.58	526.09	9.21	PASS
11716.00†	7680.00	-5452.37	-2254.09	7628.00	7680.00	-3010.38	1981.78	-90.00	4889.36	526.28	9.30	PASS
11816.00†	7680.00	-5552.36	-2253.65	7628.00	7680.00	-3010.38	1981.78	-90.00	4939.69	526.45	9.39	PASS
11916.00†	7680.00	-5652.36	-2253.21	7628.00	7680.00	-3010.38	1981.78	-90.00	4991.51	526.58	9.49	PASS

CLEARANCE DATA - Offset Wellbore: L.W. MOORE GAS UNIT 1 AWB    Offset Wellpath: L.W. MOORE GAS UNIT 1 AWP												
Facility: SEC.10-T01S-R67W    Slot: SLOT#03 EX L.W. MOORE GAS UNIT 1 (900'FNL & 300'FEL, SEC.10, PR)    Well: L.W. MOORE GAS UNIT 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
12016.00†	7680.00	-5752.36	-2252.77	7628.00	7680.00	-3010.38	1981.78	-90.00	5044.78	526.68	9.59	PASS
12116.00†	7680.00	-5852.36	-2252.32	7628.00	7680.00	-3010.38	1981.78	-90.00	5099.46	526.75	9.69	PASS
12216.00†	7680.00	-5952.36	-2251.88	7628.00	7680.00	-3010.38	1981.78	-90.00	5155.50	526.79	9.80	PASS
12316.00†	7680.00	-6052.36	-2251.44	7628.00	7680.00	-3010.38	1981.78	-90.00	5212.85	526.81	9.90	PASS
12416.00†	7680.00	-6152.36	-2251.00	7628.00	7680.00	-3010.38	1981.78	-90.00	5271.48	526.81	10.02	PASS
12516.00†	7680.00	-6252.36	-2250.56	7628.00	7680.00	-3010.38	1981.78	-90.00	5331.34	526.78	10.13	PASS
12616.00†	7680.00	-6352.36	-2250.12	7628.00	7680.00	-3010.38	1981.78	-90.00	5392.38	526.74	10.25	PASS
12716.00†	7680.00	-6452.36	-2249.68	7628.00	7680.00	-3010.38	1981.78	-90.00	5454.58	526.68	10.37	PASS
12816.00†	7680.00	-6552.36	-2249.24	7628.00	7680.00	-3010.38	1981.78	-90.00	5517.89	526.59	10.49	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: L.W. MOORE GAS UNIT 1 AWB Offset Wellpath: L.W. MOORE GAS UNIT 1 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#03 EX L.W. MOORE GAS UNIT 1 (900'FNL & 300'FEL, SEC.10, PR) Well: L.W. MOORE GAS UNIT 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
12916.00†	7680.00	-6652.35	-2248.80	7628.00	7680.00	-3010.38	1981.78	-90.00	5582.27	526.50	10.61	PASS
13016.00†	7680.00	-6752.35	-2248.36	7628.00	7680.00	-3010.38	1981.78	-90.00	5647.69	526.39	10.74	PASS
13116.00†	7680.00	-6852.35	-2247.92	7628.00	7680.00	-3010.38	1981.78	-90.00	5714.11	526.26	10.87	PASS
13144.91	7680.00	-6881.26	-2247.79	7628.00	7680.00	-3010.38	1981.78	-90.00	5733.50	526.23	10.91	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: L.W. MOORE GAS UNIT 1 AWB Offset Wellpath: L.W. MOORE GAS UNIT 1 AWP

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

## WELLPATH COMPOSITION - Offset Wellbore: L.W. MOORE GAS UNIT 1 AWB Offset Wellpath: L.W. MOORE GAS UNIT 1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8377.00	Custom Drift Indicator (2.0 Maximum Inclination)	WORST CASE SCENARIO- ASSUMED VERTICAL TO SURFACE COGCC <8377>	L.W. MOORE GAS UNIT 1 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: L.W. MOORE GAS UNIT 1 AWB Offset Wellpath: L.W. MOORE GAS UNIT 1 AWP

MD Reference: Rig on SLOT#03 EX L.W. MOORE GAS UNIT 1 (900'FNL & 300'FEL, SEC.10, 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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: MOORE #3-1 AWB Offset Wellpath: MOORE #3-1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX MOORE #3-1 (660'FSL & 1920'FEL, SEC.03,PA) Well: MOORE #3-1 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
16.00	16.00	0.00	0.00	28.00	16.00	-1366.07	383.89	164.30	1418.99	60.86	23.66	PASS
116.00†	116.00	0.00	0.00	128.00	116.00	-1366.07	383.89	164.30	1418.99	62.89	22.88	PASS
216.00†	216.00	0.00	0.00	228.00	216.00	-1366.07	383.89	164.30	1418.99	64.76	22.16	PASS
316.00†	316.00	0.00	0.00	328.00	316.00	-1366.07	383.89	164.30	1418.99	66.80	21.47	PASS
416.00†	416.00	0.00	0.00	428.00	416.00	-1366.07	383.89	164.30	1418.99	68.84	20.83	PASS
516.00†	516.00	0.00	0.00	528.00	516.00	-1366.07	383.89	164.30	1418.99	70.89	20.22	PASS
616.00†	616.00	0.00	0.00	628.00	616.00	-1366.07	383.89	164.30	1418.99	72.94	19.65	PASS
716.00†	716.00	0.00	0.00	728.00	716.00	-1366.07	383.89	164.30	1418.99	74.99	19.10	PASS
816.00†	816.00	0.00	0.00	828.00	816.00	-1366.07	383.89	164.30	1418.99	76.84	18.59	PASS
916.00†	916.00	0.00	0.00	928.00	916.00	-1366.07	383.89	164.30	1418.99	78.91	18.10	PASS
1016.00†	1016.00	0.00	0.00	1028.00	1016.00	-1366.07	383.89	164.30	1418.99	80.97	17.64	PASS
1116.00†	1116.00	0.00	0.00	1128.00	1116.00	-1366.07	383.89	164.30	1418.99	83.05	17.19	PASS
1216.00†	1216.00	0.00	0.00	1228.00	1216.00	-1366.07	383.89	164.30	1418.99	85.12	16.77	PASS
1316.00†	1316.00	0.00	0.00	1328.00	1316.00	-1366.07	383.89	164.30	1418.99	87.20	16.37	PASS
1416.00†	1416.00	0.00	0.00	1428.00	1416.00	-1366.07	383.89	164.30	1418.99	89.28	15.98	PASS
1516.00†	1516.00	0.00	0.00	1528.00	1516.00	-1366.07	383.89	164.30	1418.99	91.37	15.62	PASS
1600.00	1600.00	0.00	0.00	1612.00	1600.00	-1366.07	383.89	164.30	1418.99	93.12	15.32	PASS
1616.00†	1616.00	-0.03	-0.03	1628.00	1616.00	-1366.07	383.89	-62.64	1418.96	93.46	15.27	PASS
1716.00†	1715.97	-1.60	-1.72	1727.97	1715.97	-1366.07	383.89	-62.74	1417.91	95.56	14.92	PASS
1816.00†	1815.80	-5.56	-5.95	1827.80	1815.80	-1366.07	383.89	-62.99	1415.26	97.66	14.57	PASS
1916.00†	1915.36	-11.89	-12.72	1927.36	1915.36	-1366.07	383.89	-63.40	1411.07	99.77	14.21	PASS
2016.00†	2014.54	-20.59	-22.03	2026.54	2014.54	-1366.07	383.89	-63.97	1405.38	101.88	13.86	PASS
2116.00†	2113.21	-31.64	-33.86	2125.21	2113.21	-1366.07	383.89	-64.69	1398.29	103.99	13.51	PASS
2216.00†	2211.26	-45.04	-48.20	2223.26	2211.26	-1366.07	383.89	-65.56	1389.90	106.11	13.16	PASS
2316.00†	2308.57	-60.77	-65.03	2320.57	2308.57	-1366.07	383.89	-66.58	1380.34	108.23	12.81	PASS
2416.00†	2405.01	-78.81	-84.34	2417.01	2405.01	-1366.07	383.89	-67.77	1369.77	110.37	12.47	PASS
2516.00†	2500.47	-99.14	-106.09	2512.47	2500.47	-1366.07	383.89	-69.10	1358.38	112.53	12.12	PASS
2616.00†	2594.84	-121.73	-130.26	2606.84	2594.84	-1366.07	383.89	-70.57	1346.38	114.73	11.79	PASS
2716.00†	2687.99	-146.55	-156.82	2699.99	2687.99	-1366.07	383.89	-72.19	1334.02	116.96	11.45	PASS
2816.00†	2779.81	-173.58	-185.74	2791.81	2779.81	-1366.07	383.89	-73.94	1321.56	119.24	11.13	PASS
2916.00†	2870.20	-202.78	-216.99	2882.20	2870.20	-1366.07	383.89	-75.82	1309.31	121.58	10.81	PASS
3016.00†	2959.04	-234.11	-250.52	2971.04	2959.04	-1366.07	383.89	-77.81	1297.61	124.00	10.51	PASS
3116.00†	3046.23	-267.54	-286.29	3058.23	3046.23	-1366.07	383.89	-79.89	1286.82	126.50	10.21	PASS
3117.60	3047.61	-268.10	-286.88	3059.61	3047.61	-1366.07	383.89	-79.92	1286.66	126.54	10.21	PASS
3216.00†	3132.52	-302.05	-323.21	3144.52	3132.52	-1366.07	383.89	-81.82	1277.55	129.07	9.94	PASS
3316.00†	3218.82	-336.55	-360.13	3230.82	3218.82	-1366.07	383.89	-83.77	1270.23	131.73	9.68	PASS

CLEARANCE DATA - Offset Wellbore: MOORE #3-1 AWB    Offset Wellpath: MOORE #3-1 AWP												
Facility: SEC.03-T01S-R67W    Slot: SLOT#01 EX MOORE #3-1 (660'FSL & 1920'FEL, SEC.03,PA)    Well: MOORE #3-1    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
3416.00†	3305.11	-371.05	-397.05	3317.11	3305.11	-1366.07	383.89	-85.74	1264.89	134.45	9.44	PASS
3516.00†	3391.40	-405.55	-433.97	3403.40	3391.40	-1366.07	383.89	-87.72	1261.54	137.23	9.23	PASS
3616.00†	3477.70	-440.05	-470.89	3489.70	3477.70	-1366.07	383.89	-89.70	1260.22	140.05	9.03	PASS
3628.50†	3488.48	-444.36	-475.51	3500.71	3488.71	-1366.07	383.89	-89.95	1260.20	140.41	9.01	PASS
3716.00†	3563.99	-474.55	-507.81	3575.99	3563.99	-1366.07	383.89	-91.68	1260.92	142.90	8.85	PASS
3816.00†	3650.28	-509.05	-544.73	3662.28	3650.28	-1366.07	383.89	-93.66	1263.65	145.77	8.70	PASS
3916.00†	3736.58	-543.56	-581.65	3748.58	3736.58	-1366.07	383.89	-95.63	1268.38	148.65	8.56	PASS
4016.00†	3822.87	-578.06	-618.57	3834.87	3822.87	-1366.07	383.89	-97.58	1275.10	151.53	8.44	PASS
4116.00†	3909.17	-612.56	-655.49	3921.17	3909.17	-1366.07	383.89	-99.52	1283.78	154.40	8.34	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: MOORE #3-1 AWB Offset Wellpath: MOORE #3-1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX MOORE #3-1 (660'FSL & 1920'FEL, SEC.03,PA) Well: MOORE #3-1 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
4216.00†	3995.46	-647.06	-692.41	4007.46	3995.46	-1366.07	383.89	-101.44	1294.37	157.25	8.26	PASS
4316.00†	4081.75	-681.56	-729.33	4093.75	4081.75	-1366.07	383.89	-103.33	1306.83	160.08	8.19	PASS
4416.00†	4168.05	-716.06	-766.25	4180.05	4168.05	-1366.07	383.89	-105.19	1321.11	162.87	8.13	PASS
4516.00†	4254.34	-750.56	-803.16	4266.34	4254.34	-1366.07	383.89	-107.02	1337.14	165.64	8.10	PASS
4616.00†	4340.63	-785.07	-840.08	4352.63	4340.63	-1366.07	383.89	-108.82	1354.87	168.37	8.07	PASS
4716.00†	4426.93	-819.57	-877.00	4438.93	4426.93	-1366.07	383.89	-110.57	1374.23	171.05	8.06	PASS
4786.51†	4487.78	-843.90	-903.04	4499.77	4487.77	-1366.07	383.89	-111.79	1388.83	172.93	8.05	PASS
4816.00†	4513.22	-854.07	-913.92	4525.22	4513.22	-1366.07	383.89	-112.29	1395.16	173.70	8.05	PASS
4916.00†	4599.52	-888.57	-950.84	4611.52	4599.52	-1366.07	383.89	-113.97	1417.57	176.31	8.06	PASS
5016.00†	4685.81	-923.07	-987.76	4697.81	4685.81	-1366.07	383.89	-115.60	1441.41	178.88	8.08	PASS
5116.00†	4772.10	-957.57	-1024.68	4784.10	4772.10	-1366.07	383.89	-117.19	1466.61	181.41	8.11	PASS
5216.00†	4858.40	-992.07	-1061.60	4870.40	4858.40	-1366.07	383.89	-118.74	1493.09	183.90	8.14	PASS
5316.00†	4944.69	-1026.58	-1098.52	4956.69	4944.69	-1366.07	383.89	-120.24	1520.79	186.35	8.18	PASS
5416.00†	5030.98	-1061.08	-1135.44	5042.98	5030.98	-1366.07	383.89	-121.70	1549.64	188.77	8.23	PASS
5516.00†	5117.28	-1095.58	-1172.36	5129.28	5117.28	-1366.07	383.89	-123.11	1579.58	191.16	8.28	PASS
5616.00†	5203.57	-1130.08	-1209.28	5150.00	5138.00	-1366.07	383.89	-123.44	1611.88	191.94	8.42	PASS
5716.00†	5289.87	-1164.58	-1246.20	5150.00	5138.00	-1366.07	383.89	-123.44	1649.50	191.77	8.62	PASS
5816.00†	5376.16	-1199.08	-1283.12	5150.00	5138.00	-1366.07	383.89	-123.44	1692.19	191.14	8.88	PASS
5916.00†	5462.45	-1233.59	-1320.04	5150.00	5138.00	-1366.07	383.89	-123.44	1739.59	190.13	9.17	PASS
6016.00†	5548.75	-1268.09	-1356.96	5150.00	5138.00	-1366.07	383.89	-123.44	1791.33	188.82	9.51	PASS
6116.00†	5635.04	-1302.59	-1393.87	5150.00	5138.00	-1366.07	383.89	-123.44	1847.03	187.27	9.89	PASS
6216.00†	5721.33	-1337.09	-1430.79	5150.00	5138.00	-1366.07	383.89	-123.44	1906.36	185.53	10.30	PASS
6316.00†	5807.63	-1371.59	-1467.71	5150.00	5138.00	-1366.07	383.89	-123.44	1968.98	183.67	10.75	PASS
6416.00†	5893.92	-1406.09	-1504.63	5150.00	5138.00	-1366.07	383.89	-123.44	2034.58	181.73	11.23	PASS
6516.00†	5980.22	-1440.59	-1541.55	5150.00	5138.00	-1366.07	383.89	-123.44	2102.90	179.75	11.73	PASS
6616.00†	6066.51	-1475.10	-1578.47	5150.00	5138.00	-1366.07	383.89	-123.44	2173.68	177.75	12.26	PASS
6716.00†	6152.80	-1509.60	-1615.39	5150.00	5138.00	-1366.07	383.89	-123.44	2246.67	175.76	12.82	PASS
6816.00†	6239.10	-1544.10	-1652.31	5150.00	5138.00	-1366.07	383.89	-123.44	2321.68	173.79	13.40	PASS
6916.00†	6325.39	-1578.60	-1689.23	5150.00	5138.00	-1366.07	383.89	-123.44	2398.52	171.87	14.00	PASS
7016.00†	6411.68	-1613.10	-1726.15	5150.00	5138.00	-1366.07	383.89	-123.44	2477.01	170.00	14.61	PASS
7116.00†	6497.98	-1647.60	-1763.07	5150.00	5138.00	-1366.07	383.89	-123.44	2557.00	168.19	15.25	PASS
7216.00†	6584.27	-1682.10	-1799.99	5150.00	5138.00	-1366.07	383.89	-123.44	2638.35	166.44	15.90	PASS
7316.00†	6670.57	-1716.61	-1836.91	5150.00	5138.00	-1366.07	383.89	-123.44	2720.95	164.77	16.57	PASS
7416.00†	6756.86	-1751.11	-1873.83	5150.00	5138.00	-1366.07	383.89	-123.44	2804.68	163.16	17.24	PASS
7516.00†	6843.15	-1785.61	-1910.75	5150.00	5138.00	-1366.07	383.89	-123.44	2889.45	161.62	17.93	PASS
7616.00†	6929.45	-1820.11	-1947.66	5150.00	5138.00	-1366.07	383.89	-123.44	2975.16	160.15	18.64	PASS



CLEARANCE DATA - Offset Wellbore: MOORE #3-1 AWB    Offset Wellpath: MOORE #3-1 AWP												
Facility: SEC.03-T01S-R67W    Slot: SLOT#01 EX MOORE #3-1 (660'FSL & 1920'FEL, SEC.03,PA)    Well: MOORE #3-1    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
7716.00†	7015.74	-1854.61	-1984.58	5150.00	5138.00	-1366.07	383.89	-123.44	3061.74	158.75	19.35	PASS
7816.00†	7102.03	-1889.11	-2021.50	5150.00	5138.00	-1366.07	383.89	-123.44	3149.11	157.42	20.07	PASS
7916.00†	7188.33	-1923.61	-2058.42	5150.00	5138.00	-1366.07	383.89	-123.44	3237.22	156.15	20.80	PASS
8016.00†	7274.62	-1958.12	-2095.34	5150.00	5138.00	-1366.07	383.89	-123.44	3326.00	154.95	21.54	PASS
8085.19	7334.33	-1981.99	-2120.89	5150.00	5138.00	-1366.07	383.89	-123.44	3387.79	154.15	22.05	PASS
8116.00†	7360.64	-1993.39	-2132.14	5150.00	5138.00	-1366.07	383.89	-113.92	3415.27	153.82	22.28	PASS
8216.00†	7441.54	-2040.68	-2166.69	5150.00	5138.00	-1366.07	383.89	-89.38	3502.40	152.90	22.98	PASS
8316.00†	7513.69	-2102.53	-2197.41	5150.00	5138.00	-1366.07	383.89	-72.97	3584.60	152.34	23.61	PASS
8416.00†	7574.90	-2177.06	-2223.37	5150.00	5138.00	-1366.07	383.89	-62.14	3659.78	152.09	24.14	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: MOORE #3-1 AWB Offset Wellpath: MOORE #3-1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX MOORE #3-1 (660'FSL & 1920'FEL, SEC.03,PA) Well: MOORE #3-1 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
8516.00†	7623.30	-2261.99	-2243.79	5150.00	5138.00	-1366.07	383.89	-54.97	3726.14	152.18	24.57	PASS
8616.00†	7657.43	-2354.77	-2258.05	5150.00	5138.00	-1366.07	383.89	-50.28	3782.18	152.58	24.87	PASS
8716.00†	7676.26	-2452.55	-2265.70	5150.00	5138.00	-1366.07	383.89	-47.39	3826.69	153.31	25.04	PASS
8784.36	7680.00	-2520.76	-2267.01	5150.00	5138.00	-1366.07	383.89	-46.26	3849.98	153.88	25.10	PASS
8816.00†	7680.00	-2552.39	-2266.87	5150.00	5138.00	-1366.07	383.89	-46.26	3859.49	154.07	25.13	PASS
8916.00†	7680.00	-2652.39	-2266.43	5150.00	5138.00	-1366.07	383.89	-46.26	3891.09	154.59	25.26	PASS
9016.00†	7680.00	-2752.39	-2265.99	5150.00	5138.00	-1366.07	383.89	-46.26	3924.98	155.15	25.38	PASS
9116.00†	7680.00	-2852.39	-2265.55	5150.00	5138.00	-1366.07	383.89	-46.26	3961.11	155.73	25.52	PASS
9216.00†	7680.00	-2952.39	-2265.11	5150.00	5138.00	-1366.07	383.89	-46.26	3999.42	156.34	25.67	PASS
9316.00†	7680.00	-3052.39	-2264.67	5150.00	5138.00	-1366.07	383.89	-46.26	4039.84	156.97	25.82	PASS
9416.00†	7680.00	-3152.39	-2264.23	5150.00	5138.00	-1366.07	383.89	-46.26	4082.30	157.62	25.99	PASS
9516.00†	7680.00	-3252.39	-2263.79	5150.00	5138.00	-1366.07	383.89	-46.26	4126.76	158.28	26.16	PASS
9616.00†	7680.00	-3352.39	-2263.34	5150.00	5138.00	-1366.07	383.89	-46.26	4173.14	158.95	26.34	PASS
9716.00†	7680.00	-3452.39	-2262.90	5150.00	5138.00	-1366.07	383.89	-46.26	4221.37	159.63	26.53	PASS
9816.00†	7680.00	-3552.38	-2262.46	5150.00	5138.00	-1366.07	383.89	-46.26	4271.41	160.32	26.73	PASS
9916.00†	7680.00	-3652.38	-2262.02	5150.00	5138.00	-1366.07	383.89	-46.26	4323.17	161.01	26.94	PASS
10016.00†	7680.00	-3752.38	-2261.58	5150.00	5138.00	-1366.07	383.89	-46.26	4376.62	161.70	27.15	PASS
10116.00†	7680.00	-3852.38	-2261.14	5150.00	5138.00	-1366.07	383.89	-46.26	4431.67	162.38	27.38	PASS
10216.00†	7680.00	-3952.38	-2260.70	5150.00	5138.00	-1366.07	383.89	-46.26	4488.27	163.07	27.61	PASS
10316.00†	7680.00	-4052.38	-2260.26	5150.00	5138.00	-1366.07	383.89	-46.26	4546.38	163.75	27.85	PASS
10416.00†	7680.00	-4152.38	-2259.82	5150.00	5138.00	-1366.07	383.89	-46.26	4605.92	164.42	28.10	PASS
10516.00†	7680.00	-4252.38	-2259.38	5150.00	5138.00	-1366.07	383.89	-46.26	4666.84	165.08	28.36	PASS
10616.00†	7680.00	-4352.38	-2258.94	5150.00	5138.00	-1366.07	383.89	-46.26	4729.09	165.74	28.62	PASS
10716.00†	7680.00	-4452.38	-2258.50	5150.00	5138.00	-1366.07	383.89	-46.26	4792.62	166.39	28.90	PASS
10816.00†	7680.00	-4552.37	-2258.06	5150.00	5138.00	-1366.07	383.89	-46.26	4857.38	167.02	29.17	PASS
10916.00†	7680.00	-4652.37	-2257.61	5150.00	5138.00	-1366.07	383.89	-46.26	4923.32	167.65	29.46	PASS
11016.00†	7680.00	-4752.37	-2257.17	5150.00	5138.00	-1366.07	383.89	-46.26	4990.39	168.26	29.75	PASS
11116.00†	7680.00	-4852.37	-2256.73	5150.00	5138.00	-1366.07	383.89	-46.26	5058.55	168.87	30.05	PASS
11216.00†	7680.00	-4952.37	-2256.29	5150.00	5138.00	-1366.07	383.89	-46.26	5127.75	169.46	30.35	PASS
11316.00†	7680.00	-5052.37	-2255.85	5150.00	5138.00	-1366.07	383.89	-46.26	5197.96	170.04	30.66	PASS
11416.00†	7680.00	-5152.37	-2255.41	5150.00	5138.00	-1366.07	383.89	-46.26	5269.13	170.60	30.98	PASS
11516.00†	7680.00	-5252.37	-2254.97	5150.00	5138.00	-1366.07	383.89	-46.26	5341.22	171.16	31.30	PASS
11616.00†	7680.00	-5352.37	-2254.53	5150.00	5138.00	-1366.07	383.89	-46.26	5414.20	171.70	31.63	PASS
11716.00†	7680.00	-5452.37	-2254.09	5150.00	5138.00	-1366.07	383.89	-46.26	5488.03	172.23	31.96	PASS
11816.00†	7680.00	-5552.36	-2253.65	5150.00	5138.00	-1366.07	383.89	-46.26	5562.68	172.75	32.30	PASS
11916.00†	7680.00	-5652.36	-2253.21	5150.00	5138.00	-1366.07	383.89	-46.26	5638.12	173.26	32.64	PASS

CLEARANCE DATA - Offset Wellbore: MOORE #3-1 AWB    Offset Wellpath: MOORE #3-1 AWP												
Facility: SEC.03-T01S-R67W    Slot: SLOT#01 EX MOORE #3-1 (660'FSL & 1920'FEL, SEC.03,PA)    Well: MOORE #3-1    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
12016.00†	7680.00	-5752.36	-2252.77	5150.00	5138.00	-1366.07	383.89	-46.26	5714.30	173.76	32.99	PASS
12116.00†	7680.00	-5852.36	-2252.32	5150.00	5138.00	-1366.07	383.89	-46.26	5791.22	174.24	33.34	PASS
12216.00†	7680.00	-5952.36	-2251.88	5150.00	5138.00	-1366.07	383.89	-46.26	5868.83	174.72	33.69	PASS
12316.00†	7680.00	-6052.36	-2251.44	5150.00	5138.00	-1366.07	383.89	-46.26	5947.10	175.18	34.05	PASS
12416.00†	7680.00	-6152.36	-2251.00	5150.00	5138.00	-1366.07	383.89	-46.26	6026.02	175.63	34.41	PASS
12516.00†	7680.00	-6252.36	-2250.56	5150.00	5138.00	-1366.07	383.89	-46.26	6105.56	176.08	34.78	PASS
12616.00†	7680.00	-6352.36	-2250.12	5150.00	5138.00	-1366.07	383.89	-46.26	6185.69	176.51	35.15	PASS
12716.00†	7680.00	-6452.36	-2249.68	5150.00	5138.00	-1366.07	383.89	-46.26	6266.40	176.93	35.52	PASS
12816.00†	7680.00	-6552.36	-2249.24	5150.00	5138.00	-1366.07	383.89	-46.26	6347.65	177.35	35.90	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: MOORE #3-1 AWB Offset Wellpath: MOORE #3-1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX MOORE #3-1 (660'FSL & 1920'FEL, SEC.03,PA) Well: MOORE #3-1 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
12916.00†	7680.00	-6652.35	-2248.80	5150.00	5138.00	-1366.07	383.89	-46.26	6429.43	177.75	36.28	PASS
13016.00†	7680.00	-6752.35	-2248.36	5150.00	5138.00	-1366.07	383.89	-46.26	6511.72	178.15	36.66	PASS
13116.00†	7680.00	-6852.35	-2247.92	5150.00	5138.00	-1366.07	383.89	-46.26	6594.50	178.54	37.05	PASS
13144.91	7680.00	-6881.26	-2247.79	5150.00	5138.00	-1366.07	383.89	-46.26	6618.52	178.65	37.16	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: MOORE #3-1 AWB Offset Wellpath: MOORE #3-1 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: MOORE #3-1 AWB Offset Wellpath: MOORE #3-1 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	214.00	214.00	-28.00	186.00	-832.75	234.03	-832.75	234.03
8.625in Casing Surface	0.00	214.00	214.00	-28.00	186.00	-832.75	234.03	-832.75	234.03
7.875in Open Hole	214.00	5150.00	4936.00	186.00	5122.00	-832.75	234.03	-832.75	234.03
4.5in Casing Production	0.00	5150.00	5150.00	-28.00	5122.00	-832.75	234.03	-832.75	234.03

## WELLPATH COMPOSITION - Offset Wellbore: MOORE #3-1 AWB Offset Wellpath: MOORE #3-1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5150.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5150>	MOORE #3-1 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: MOORE #3-1 AWB Offset Wellpath: MOORE #3-1 AWP

MD Reference: Rig on SLOT#01 EX MOORE #3-1 (660'FSL & 1920'FEL, SEC.03) (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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: BIOW-MOORE 3-1 AWB Offset Wellpath: BIOW-MOORE 3-1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX BIOW-MOORE 3-1 (666'FSL & 773'FEL, SEC.03, PR) Well: BIOW-MOORE 3-1 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
16.00	16.00	0.00	0.00	2.00	16.00	-1391.53	1507.54	132.71	2051.59	60.45	34.47	PASS
116.00†	116.00	0.00	0.00	102.00	116.00	-1391.53	1507.54	132.71	2051.59	65.06	31.99	PASS
216.00†	216.00	0.00	0.00	202.00	216.00	-1391.53	1507.54	132.71	2051.59	69.68	29.84	PASS
316.00†	316.00	0.00	0.00	302.00	316.00	-1391.53	1507.54	132.71	2051.59	74.30	27.96	PASS
416.00†	416.00	0.00	0.00	402.00	416.00	-1391.53	1507.54	132.71	2051.59	78.93	26.30	PASS
516.00†	516.00	0.00	0.00	502.00	516.00	-1391.53	1507.54	132.71	2051.59	83.55	24.83	PASS
616.00†	616.00	0.00	0.00	602.00	616.00	-1391.53	1507.54	132.71	2051.59	88.19	23.51	PASS
716.00†	716.00	0.00	0.00	702.00	716.00	-1391.53	1507.54	132.71	2051.59	92.83	22.32	PASS
816.00†	816.00	0.00	0.00	802.00	816.00	-1391.53	1507.54	132.71	2051.59	97.09	21.25	PASS
916.00†	916.00	0.00	0.00	902.00	916.00	-1391.53	1507.54	132.71	2051.59	101.73	20.28	PASS
1016.00†	1016.00	0.00	0.00	1002.00	1016.00	-1391.53	1507.54	132.71	2051.59	106.38	19.39	PASS
1116.00†	1116.00	0.00	0.00	1102.00	1116.00	-1391.53	1507.54	132.71	2051.59	111.04	18.57	PASS
1216.00†	1216.00	0.00	0.00	1202.00	1216.00	-1391.53	1507.54	132.71	2051.59	115.69	17.82	PASS
1316.00†	1316.00	0.00	0.00	1302.00	1316.00	-1391.53	1507.54	132.71	2051.59	120.35	17.12	PASS
1416.00†	1416.00	0.00	0.00	1402.00	1416.00	-1391.53	1507.54	132.71	2051.59	125.02	16.48	PASS
1516.00†	1516.00	0.00	0.00	1502.00	1516.00	-1391.53	1507.54	132.71	2051.59	129.69	15.89	PASS
1600.00	1600.00	0.00	0.00	1586.00	1600.00	-1391.53	1507.54	132.71	2051.59	133.61	15.42	PASS
1616.00†	1616.00	-0.03	-0.03	1602.00	1616.00	-1391.53	1507.54	-94.23	2051.59	134.36	15.33	PASS
1716.00†	1715.97	-1.60	-1.72	1701.97	1715.97	-1391.53	1507.54	-94.29	2051.76	139.03	14.82	PASS
1816.00†	1815.80	-5.56	-5.95	1801.80	1815.80	-1391.53	1507.54	-94.44	2052.20	143.71	14.33	PASS
1916.00†	1915.36	-11.89	-12.72	1901.36	1915.36	-1391.53	1507.54	-94.69	2052.95	148.38	13.89	PASS
2016.00†	2014.54	-20.59	-22.03	2000.54	2014.54	-1391.53	1507.54	-95.02	2054.03	153.04	13.47	PASS
2116.00†	2113.21	-31.64	-33.86	2099.21	2113.21	-1391.53	1507.54	-95.43	2055.53	157.69	13.08	PASS
2216.00†	2211.26	-45.04	-48.20	2197.26	2211.26	-1391.53	1507.54	-95.92	2057.51	162.34	12.72	PASS
2316.00†	2308.57	-60.77	-65.03	2294.57	2308.57	-1391.53	1507.54	-96.49	2060.07	166.98	12.38	PASS
2416.00†	2405.01	-78.81	-84.34	2391.01	2405.01	-1391.53	1507.54	-97.13	2063.32	171.62	12.06	PASS
2516.00†	2500.47	-99.14	-106.09	2486.47	2500.47	-1391.53	1507.54	-97.83	2067.38	176.26	11.76	PASS
2616.00†	2594.84	-121.73	-130.26	2580.84	2594.84	-1391.53	1507.54	-98.59	2072.38	180.91	11.49	PASS
2716.00†	2687.99	-146.55	-156.82	2673.99	2687.99	-1391.53	1507.54	-99.40	2078.47	185.56	11.23	PASS
2816.00†	2779.81	-173.58	-185.74	2765.81	2779.81	-1391.53	1507.54	-100.24	2085.81	190.22	11.00	PASS
2916.00†	2870.20	-202.78	-216.99	2856.20	2870.20	-1391.53	1507.54	-101.11	2094.54	194.90	10.78	PASS
3016.00†	2959.04	-234.11	-250.52	2945.04	2959.04	-1391.53	1507.54	-102.01	2104.84	199.59	10.57	PASS
3116.00†	3046.23	-267.54	-286.29	3032.23	3046.23	-1391.53	1507.54	-102.91	2116.88	204.30	10.39	PASS
3117.60	3047.61	-268.10	-286.88	3033.61	3047.61	-1391.53	1507.54	-102.92	2117.08	204.38	10.39	PASS
3216.00†	3132.52	-302.05	-323.21	3118.52	3132.52	-1391.53	1507.54	-104.06	2130.40	209.03	10.22	PASS
3316.00†	3218.82	-336.55	-360.13	3204.82	3218.82	-1391.53	1507.54	-105.20	2145.03	213.82	10.06	PASS

CLEARANCE DATA - Offset Wellbore: BLOW-MOORE 3-1 AWB Offset Wellpath: BLOW-MOORE 3-1 AWP												
Facility: SEC.03-T01S-R67W			Slot: SLOT#01 EX BLOW-MOORE 3-1 (666'FSL & 773'FEL, SEC.03, PR)			Well: BLOW-MOORE 3-1		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
3416.00†	3305.11	-371.05	-397.05	3291.11	3305.11	-1391.53	1507.54	-106.33	2160.75	218.64	9.91	PASS
3516.00†	3391.40	-405.55	-433.97	3377.40	3391.40	-1391.53	1507.54	-107.45	2177.52	223.49	9.77	PASS
3616.00†	3477.70	-440.05	-470.89	3463.70	3477.70	-1391.53	1507.54	-108.56	2195.33	228.37	9.64	PASS
3716.00†	3563.99	-474.55	-507.81	3549.99	3563.99	-1391.53	1507.54	-109.65	2214.15	233.27	9.51	PASS
3816.00†	3650.28	-509.05	-544.73	3636.28	3650.28	-1391.53	1507.54	-110.72	2233.95	238.18	9.40	PASS
3916.00†	3736.58	-543.56	-581.65	3722.58	3736.58	-1391.53	1507.54	-111.78	2254.72	243.10	9.29	PASS
4016.00†	3822.87	-578.06	-618.57	3808.87	3822.87	-1391.53	1507.54	-112.83	2276.41	248.03	9.20	PASS
4116.00†	3909.17	-612.56	-655.49	3895.17	3909.17	-1391.53	1507.54	-113.86	2299.01	252.96	9.11	PASS
4216.00†	3995.46	-647.06	-692.41	3981.46	3995.46	-1391.53	1507.54	-114.87	2322.49	257.89	9.02	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: BLOW-MOORE 3-1 AWB Offset Wellpath: BLOW-MOORE 3-1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX BLOW-MOORE 3-1 (666'FSL & 773'FEL, SEC.03, PR) Well: BLOW-MOORE 3-1 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
4316.00†	4081.75	-681.56	-729.33	4067.75	4081.75	-1391.53	1507.54	-115.87	2346.83	262.81	8.95	PASS
4416.00†	4168.05	-716.06	-766.25	4154.05	4168.05	-1391.53	1507.54	-116.85	2371.99	267.73	8.88	PASS
4516.00†	4254.34	-750.56	-803.16	4240.34	4254.34	-1391.53	1507.54	-117.81	2397.95	272.64	8.81	PASS
4616.00†	4340.63	-785.07	-840.08	4326.63	4340.63	-1391.53	1507.54	-118.76	2424.69	277.54	8.75	PASS
4716.00†	4426.93	-819.57	-877.00	4412.93	4426.93	-1391.53	1507.54	-119.69	2452.18	282.43	8.70	PASS
4816.00†	4513.22	-854.07	-913.92	4499.22	4513.22	-1391.53	1507.54	-120.60	2480.39	287.30	8.65	PASS
4916.00†	4599.52	-888.57	-950.84	4585.52	4599.52	-1391.53	1507.54	-121.50	2509.30	292.17	8.60	PASS
5016.00†	4685.81	-923.07	-987.76	4671.81	4685.81	-1391.53	1507.54	-122.38	2538.89	297.02	8.56	PASS
5116.00†	4772.10	-957.57	-1024.68	4758.10	4772.10	-1391.53	1507.54	-123.24	2569.13	301.85	8.53	PASS
5216.00†	4858.40	-992.07	-1061.60	4844.40	4858.40	-1391.53	1507.54	-124.09	2600.00	306.68	8.49	PASS
5316.00†	4944.69	-1026.58	-1098.52	4930.69	4944.69	-1391.53	1507.54	-124.91	2631.49	311.48	8.46	PASS
5416.00†	5030.98	-1061.08	-1135.44	5016.98	5030.98	-1391.53	1507.54	-125.73	2663.55	316.28	8.44	PASS
5516.00†	5117.28	-1095.58	-1172.36	5103.28	5117.28	-1391.53	1507.54	-126.52	2696.19	321.06	8.41	PASS
5616.00†	5203.57	-1130.08	-1209.28	5189.57	5203.57	-1391.53	1507.54	-127.30	2729.36	325.82	8.39	PASS
5640.83†	5225.00	-1138.65	-1218.44	5211.00	5225.00	-1391.53	1507.54	-127.50	2737.68	327.00	8.39	PASS
5716.00†	5289.87	-1164.58	-1246.20	5211.00	5225.00	-1391.53	1507.54	-127.50	2763.83	327.43	8.45	PASS
5816.00†	5376.16	-1199.08	-1283.12	5211.00	5225.00	-1391.53	1507.54	-127.50	2801.36	327.72	8.56	PASS
5916.00†	5462.45	-1233.59	-1320.04	5211.00	5225.00	-1391.53	1507.54	-127.50	2841.92	327.72	8.69	PASS
6016.00†	5548.75	-1268.09	-1356.96	5211.00	5225.00	-1391.53	1507.54	-127.50	2885.37	327.44	8.83	PASS
6116.00†	5635.04	-1302.59	-1393.87	5211.00	5225.00	-1391.53	1507.54	-127.50	2931.59	326.92	8.98	PASS
6216.00†	5721.33	-1337.09	-1430.79	5211.00	5225.00	-1391.53	1507.54	-127.50	2980.45	326.18	9.15	PASS
6316.00†	5807.63	-1371.59	-1467.71	5211.00	5225.00	-1391.53	1507.54	-127.50	3031.82	325.24	9.34	PASS
6416.00†	5893.92	-1406.09	-1504.63	5211.00	5225.00	-1391.53	1507.54	-127.50	3085.58	324.12	9.54	PASS
6516.00†	5980.22	-1440.59	-1541.55	5211.00	5225.00	-1391.53	1507.54	-127.50	3141.61	322.86	9.75	PASS
6616.00†	6066.51	-1475.10	-1578.47	5211.00	5225.00	-1391.53	1507.54	-127.50	3199.78	321.47	9.97	PASS
6716.00†	6152.80	-1509.60	-1615.39	5211.00	5225.00	-1391.53	1507.54	-127.50	3259.97	319.97	10.20	PASS
6816.00†	6239.10	-1544.10	-1652.31	5211.00	5225.00	-1391.53	1507.54	-127.50	3322.09	318.39	10.45	PASS
6916.00†	6325.39	-1578.60	-1689.23	5211.00	5225.00	-1391.53	1507.54	-127.50	3386.02	316.72	10.71	PASS
7016.00†	6411.68	-1613.10	-1726.15	5211.00	5225.00	-1391.53	1507.54	-127.50	3451.67	315.00	10.98	PASS
7116.00†	6497.98	-1647.60	-1763.07	5211.00	5225.00	-1391.53	1507.54	-127.50	3518.93	313.24	11.25	PASS
7216.00†	6584.27	-1682.10	-1799.99	5211.00	5225.00	-1391.53	1507.54	-127.50	3587.72	311.44	11.54	PASS
7316.00†	6670.57	-1716.61	-1836.91	5211.00	5225.00	-1391.53	1507.54	-127.50	3657.95	309.61	11.83	PASS
7416.00†	6756.86	-1751.11	-1873.83	5211.00	5225.00	-1391.53	1507.54	-127.50	3729.54	307.78	12.14	PASS
7516.00†	6843.15	-1785.61	-1910.75	5211.00	5225.00	-1391.53	1507.54	-127.50	3802.42	305.94	12.45	PASS
7616.00†	6929.45	-1820.11	-1947.66	5211.00	5225.00	-1391.53	1507.54	-127.50	3876.50	304.10	12.77	PASS
7716.00†	7015.74	-1854.61	-1984.58	5211.00	5225.00	-1391.53	1507.54	-127.50	3951.72	302.28	13.10	PASS



CLEARANCE DATA - Offset Wellbore: B1OW-MOORE 3-1 AWB    Offset Wellpath: B1OW-MOORE 3-1 AWP												
Facility: SEC.03-T01S-R67W			Slot: SLOT#01 EX B1OW-MOORE 3-1 (666'FSL & 773'FEL, SEC.03, PR)			Well: B1OW-MOORE 3-1		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
7816.00†	7102.03	-1889.11	-2021.50	5211.00	5225.00	-1391.53	1507.54	-127.50	4028.02	300.46	13.43	PASS
7916.00†	7188.33	-1923.61	-2058.42	5211.00	5225.00	-1391.53	1507.54	-127.50	4105.34	298.67	13.77	PASS
8016.00†	7274.62	-1958.12	-2095.34	5211.00	5225.00	-1391.53	1507.54	-127.50	4183.62	296.90	14.12	PASS
8085.19	7334.33	-1981.99	-2120.89	5211.00	5225.00	-1391.53	1507.54	-127.50	4238.32	295.69	14.36	PASS
8116.00†	7360.64	-1993.39	-2132.14	5211.00	5225.00	-1391.53	1507.54	-119.83	4262.68	295.17	14.47	PASS
8216.00†	7441.54	-2040.68	-2166.69	5211.00	5225.00	-1391.53	1507.54	-99.31	4339.86	293.73	14.80	PASS
8316.00†	7513.69	-2102.53	-2197.41	5211.00	5225.00	-1391.53	1507.54	-84.46	4412.51	292.75	15.10	PASS
8416.00†	7574.90	-2177.06	-2223.37	5211.00	5225.00	-1391.53	1507.54	-73.88	4478.70	292.19	15.36	PASS
8516.00†	7623.30	-2261.99	-2243.79	5211.00	5225.00	-1391.53	1507.54	-66.48	4536.74	292.09	15.56	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: BIOW-MOORE 3-1 AWB Offset Wellpath: BIOW-MOORE 3-1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX BIOW-MOORE 3-1 (666'FSL & 773'FEL, SEC.03, PR) Well: BIOW-MOORE 3-1 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
8616.00†	7657.43	-2354.77	-2258.05	5211.00	5225.00	-1391.53	1507.54	-61.45	4585.21	292.44	15.71	PASS
8716.00†	7676.26	-2452.55	-2265.70	5211.00	5225.00	-1391.53	1507.54	-58.27	4622.96	293.24	15.79	PASS
8784.36	7680.00	-2520.76	-2267.01	5211.00	5225.00	-1391.53	1507.54	-56.99	4642.13	293.96	15.82	PASS
8816.00†	7680.00	-2552.39	-2266.87	5211.00	5225.00	-1391.53	1507.54	-56.99	4649.82	294.27	15.83	PASS
8916.00†	7680.00	-2652.39	-2266.43	5211.00	5225.00	-1391.53	1507.54	-56.99	4675.43	295.20	15.87	PASS
9016.00†	7680.00	-2752.39	-2265.99	5211.00	5225.00	-1391.53	1507.54	-56.99	4703.03	296.16	15.91	PASS
9116.00†	7680.00	-2852.39	-2265.55	5211.00	5225.00	-1391.53	1507.54	-56.99	4732.58	297.13	15.96	PASS
9216.00†	7680.00	-2952.39	-2265.11	5211.00	5225.00	-1391.53	1507.54	-56.99	4764.05	298.13	16.01	PASS
9316.00†	7680.00	-3052.39	-2264.67	5211.00	5225.00	-1391.53	1507.54	-56.99	4797.39	299.14	16.07	PASS
9416.00†	7680.00	-3152.39	-2264.23	5211.00	5225.00	-1391.53	1507.54	-56.99	4832.58	300.16	16.13	PASS
9516.00†	7680.00	-3252.39	-2263.79	5211.00	5225.00	-1391.53	1507.54	-56.99	4869.57	301.18	16.20	PASS
9616.00†	7680.00	-3352.39	-2263.34	5211.00	5225.00	-1391.53	1507.54	-56.99	4908.31	302.22	16.27	PASS
9716.00†	7680.00	-3452.39	-2262.90	5211.00	5225.00	-1391.53	1507.54	-56.99	4948.77	303.25	16.35	PASS
9816.00†	7680.00	-3552.38	-2262.46	5211.00	5225.00	-1391.53	1507.54	-56.99	4990.91	304.29	16.43	PASS
9916.00†	7680.00	-3652.38	-2262.02	5211.00	5225.00	-1391.53	1507.54	-56.99	5034.69	305.32	16.52	PASS
10016.00†	7680.00	-3752.38	-2261.58	5211.00	5225.00	-1391.53	1507.54	-56.99	5080.05	306.34	16.61	PASS
10116.00†	7680.00	-3852.38	-2261.14	5211.00	5225.00	-1391.53	1507.54	-56.99	5126.96	307.36	16.71	PASS
10216.00†	7680.00	-3952.38	-2260.70	5211.00	5225.00	-1391.53	1507.54	-56.99	5175.38	308.38	16.81	PASS
10316.00†	7680.00	-4052.38	-2260.26	5211.00	5225.00	-1391.53	1507.54	-56.99	5225.27	309.38	16.92	PASS
10416.00†	7680.00	-4152.38	-2259.82	5211.00	5225.00	-1391.53	1507.54	-56.99	5276.58	310.37	17.03	PASS
10516.00†	7680.00	-4252.38	-2259.38	5211.00	5225.00	-1391.53	1507.54	-56.99	5329.27	311.34	17.15	PASS
10616.00†	7680.00	-4352.38	-2258.94	5211.00	5225.00	-1391.53	1507.54	-56.99	5383.30	312.30	17.27	PASS
10716.00†	7680.00	-4452.38	-2258.50	5211.00	5225.00	-1391.53	1507.54	-56.99	5438.64	313.25	17.39	PASS
10816.00†	7680.00	-4552.37	-2258.06	5211.00	5225.00	-1391.53	1507.54	-56.99	5495.24	314.18	17.52	PASS
10916.00†	7680.00	-4652.37	-2257.61	5211.00	5225.00	-1391.53	1507.54	-56.99	5553.06	315.09	17.65	PASS
11016.00†	7680.00	-4752.37	-2257.17	5211.00	5225.00	-1391.53	1507.54	-56.99	5612.07	315.99	17.79	PASS
11116.00†	7680.00	-4852.37	-2256.73	5211.00	5225.00	-1391.53	1507.54	-56.99	5672.23	316.86	17.93	PASS
11216.00†	7680.00	-4952.37	-2256.29	5211.00	5225.00	-1391.53	1507.54	-56.99	5733.50	317.72	18.08	PASS
11316.00†	7680.00	-5052.37	-2255.85	5211.00	5225.00	-1391.53	1507.54	-56.99	5795.85	318.56	18.23	PASS
11416.00†	7680.00	-5152.37	-2255.41	5211.00	5225.00	-1391.53	1507.54	-56.99	5859.24	319.38	18.38	PASS
11516.00†	7680.00	-5252.37	-2254.97	5211.00	5225.00	-1391.53	1507.54	-56.99	5923.64	320.19	18.53	PASS
11616.00†	7680.00	-5352.37	-2254.53	5211.00	5225.00	-1391.53	1507.54	-56.99	5989.02	320.97	18.69	PASS
11716.00†	7680.00	-5452.37	-2254.09	5211.00	5225.00	-1391.53	1507.54	-56.99	6055.35	321.74	18.85	PASS
11816.00†	7680.00	-5552.36	-2253.65	5211.00	5225.00	-1391.53	1507.54	-56.99	6122.59	322.48	19.02	PASS
11916.00†	7680.00	-5652.36	-2253.21	5211.00	5225.00	-1391.53	1507.54	-56.99	6190.71	323.21	19.19	PASS
12016.00†	7680.00	-5752.36	-2252.77	5211.00	5225.00	-1391.53	1507.54	-56.99	6259.69	323.92	19.36	PASS

CLEARANCE DATA - Offset Wellbore: BLOW-MOORE 3-1 AWB    Offset Wellpath: BLOW-MOORE 3-1 AWP												
Facility: SEC.03-T01S-R67W    Slot: SLOT#01 EX BLOW-MOORE 3-1 (666'FSL & 773'FEL, SEC.03, PR)    Well: BLOW-MOORE 3-1    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
12116.00†	7680.00	-5852.36	-2252.32	5211.00	5225.00	-1391.53	1507.54	-56.99	6329.50	324.61	19.53	PASS
12216.00†	7680.00	-5952.36	-2251.88	5211.00	5225.00	-1391.53	1507.54	-56.99	6400.11	325.29	19.71	PASS
12316.00†	7680.00	-6052.36	-2251.44	5211.00	5225.00	-1391.53	1507.54	-56.99	6471.50	325.95	19.89	PASS
12416.00†	7680.00	-6152.36	-2251.00	5211.00	5225.00	-1391.53	1507.54	-56.99	6543.63	326.59	20.07	PASS
12516.00†	7680.00	-6252.36	-2250.56	5211.00	5225.00	-1391.53	1507.54	-56.99	6616.49	327.21	20.26	PASS
12616.00†	7680.00	-6352.36	-2250.12	5211.00	5225.00	-1391.53	1507.54	-56.99	6690.05	327.82	20.44	PASS
12716.00†	7680.00	-6452.36	-2249.68	5211.00	5225.00	-1391.53	1507.54	-56.99	6764.29	328.41	20.63	PASS
12816.00†	7680.00	-6552.36	-2249.24	5211.00	5225.00	-1391.53	1507.54	-56.99	6839.19	328.99	20.82	PASS
12916.00†	7680.00	-6652.35	-2248.80	5211.00	5225.00	-1391.53	1507.54	-56.99	6914.72	329.55	21.02	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: BIOW-MOORE 3-1 AWB Offset Wellpath: BIOW-MOORE 3-1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX BIOW-MOORE 3-1 (666'FSL & 773'FEL, SEC.03, PR) Well: BIOW-MOORE 3-1 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
13016.00†	7680.00	-6752.35	-2248.36	5211.00	5225.00	-1391.53	1507.54	-56.99	6990.87	330.09	21.21	PASS
13116.00†	7680.00	-6852.35	-2247.92	5211.00	5225.00	-1391.53	1507.54	-56.99	7067.61	330.62	21.41	PASS
13144.91	7680.00	-6881.26	-2247.79	5211.00	5225.00	-1391.53	1507.54	-56.99	7089.90	330.78	21.47	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: BIOW-MOORE 3-1 AWB Offset Wellpath: BIOW-MOORE 3-1 AWP

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

## WELLPATH COMPOSITION - Offset Wellbore: BIOW-MOORE 3-1 AWB Offset Wellpath: BIOW-MOORE 3-1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5211.00	Custom Drift Indicator (2.0 Maximum Inclination)	WORST CASE SCENARIO-ASSUMED VERTICAL TO SURFACE COGCC <5211>	BIOW-MOORE 3-1 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: BIOW-MOORE 3-1 AWB Offset Wellpath: BIOW-MOORE 3-1 AWP

MD Reference: Rig on SLOT#01 EX BIOW-MOORE 3-1 (666'FSL & 773'FEL, SEC.03, 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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #3 AWB Offset Wellpath: RIVERDALE FARMS #3 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#02 EX RIVERDALE FARMS #3 (660'FNL & 660'FWL, SEC.10, PA) Well: RIVERDALE FARMS #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
16.00	16.00	0.00	0.00	-6.00	16.00	-2736.04	-2357.26	-139.25	3611.46	25.57	146.76	PASS
116.00†	116.00	0.00	0.00	94.00	116.00	-2736.04	-2357.26	-139.25	3611.46	62.20	58.92	PASS
216.00†	216.00	0.00	0.00	194.00	216.00	-2736.04	-2357.26	-139.25	3611.46	64.23	57.03	PASS
316.00†	316.00	0.00	0.00	294.00	316.00	-2736.04	-2357.26	-139.25	3611.46	66.09	55.26	PASS
416.00†	416.00	0.00	0.00	394.00	416.00	-2736.04	-2357.26	-139.25	3611.46	68.13	53.59	PASS
516.00†	516.00	0.00	0.00	494.00	516.00	-2736.04	-2357.26	-139.25	3611.46	70.17	52.01	PASS
616.00†	616.00	0.00	0.00	594.00	616.00	-2736.04	-2357.26	-139.25	3611.46	72.22	50.52	PASS
716.00†	716.00	0.00	0.00	694.00	716.00	-2736.04	-2357.26	-139.25	3611.46	74.27	49.11	PASS
816.00†	816.00	0.00	0.00	794.00	816.00	-2736.04	-2357.26	-139.25	3611.46	76.11	47.78	PASS
916.00†	916.00	0.00	0.00	894.00	916.00	-2736.04	-2357.26	-139.25	3611.46	78.17	46.51	PASS
1016.00†	1016.00	0.00	0.00	994.00	1016.00	-2736.04	-2357.26	-139.25	3611.46	80.23	45.31	PASS
1116.00†	1116.00	0.00	0.00	1094.00	1116.00	-2736.04	-2357.26	-139.25	3611.46	82.30	44.17	PASS
1216.00†	1216.00	0.00	0.00	1194.00	1216.00	-2736.04	-2357.26	-139.25	3611.46	84.37	43.07	PASS
1316.00†	1316.00	0.00	0.00	1294.00	1316.00	-2736.04	-2357.26	-139.25	3611.46	86.44	42.03	PASS
1416.00†	1416.00	0.00	0.00	1394.00	1416.00	-2736.04	-2357.26	-139.25	3611.46	88.52	41.04	PASS
1516.00†	1516.00	0.00	0.00	1494.00	1516.00	-2736.04	-2357.26	-139.25	3611.46	90.60	40.09	PASS
1600.00	1600.00	0.00	0.00	1578.00	1600.00	-2736.04	-2357.26	-139.25	3611.46	92.36	39.33	PASS
1616.00†	1616.00	-0.03	-0.03	1594.00	1616.00	-2736.04	-2357.26	-6.19	3611.41	92.69	39.19	PASS
1716.00†	1715.97	-1.60	-1.72	1693.97	1715.97	-2736.04	-2357.26	-6.20	3609.12	94.79	38.29	PASS
1816.00†	1815.80	-5.56	-5.95	1793.80	1815.80	-2736.04	-2357.26	-6.22	3603.36	96.94	37.37	PASS
1916.00†	1915.36	-11.89	-12.72	1893.36	1915.36	-2736.04	-2357.26	-6.26	3594.15	99.09	36.47	PASS
2016.00†	2014.54	-20.59	-22.03	1992.54	2014.54	-2736.04	-2357.26	-6.31	3581.48	101.23	35.56	PASS
2116.00†	2113.21	-31.64	-33.86	2091.21	2113.21	-2736.04	-2357.26	-6.38	3565.39	103.37	34.67	PASS
2216.00†	2211.26	-45.04	-48.20	2189.26	2211.26	-2736.04	-2357.26	-6.46	3545.88	105.50	33.78	PASS
2316.00†	2308.57	-60.77	-65.03	2286.57	2308.57	-2736.04	-2357.26	-6.55	3522.98	107.62	32.90	PASS
2416.00†	2405.01	-78.81	-84.34	2383.01	2405.01	-2736.04	-2357.26	-6.66	3496.72	109.73	32.02	PASS
2516.00†	2500.47	-99.14	-106.09	2478.47	2500.47	-2736.04	-2357.26	-6.79	3467.14	111.82	31.15	PASS
2616.00†	2594.84	-121.73	-130.26	2572.84	2594.84	-2736.04	-2357.26	-6.94	3434.27	113.90	30.29	PASS
2716.00†	2687.99	-146.55	-156.82	2665.99	2687.99	-2736.04	-2357.26	-7.11	3398.15	115.96	29.44	PASS
2816.00†	2779.81	-173.58	-185.74	2757.81	2779.81	-2736.04	-2357.26	-7.30	3358.83	118.00	28.59	PASS
2916.00†	2870.20	-202.78	-216.99	2848.20	2870.20	-2736.04	-2357.26	-7.52	3316.36	120.02	27.75	PASS
3016.00†	2959.04	-234.11	-250.52	2937.04	2959.04	-2736.04	-2357.26	-7.76	3270.78	122.02	26.92	PASS
3116.00†	3046.23	-267.54	-286.29	3024.23	3046.23	-2736.04	-2357.26	-8.03	3222.17	123.99	26.10	PASS
3117.60	3047.61	-268.10	-286.88	3025.61	3047.61	-2736.04	-2357.26	-8.04	3221.37	124.03	26.08	PASS
3216.00†	3132.52	-302.05	-323.21	3110.52	3132.52	-2736.04	-2357.26	-8.16	3172.02	125.92	25.30	PASS
3316.00†	3218.82	-336.55	-360.13	3196.82	3218.82	-2736.04	-2357.26	-8.29	3121.88	127.85	24.52	PASS

CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #3 AWB    Offset Wellpath: RIVERDALE FARMS #3 AWP												
Facility: SEC.10-T01S-R67W		Slot: SLOT#02 EX RIVERDALE FARMS #3 (660'FNL & 660'FWL, SEC.10, PA)				Well: RIVERDALE FARMS #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
3416.00†	3305.11	-371.05	-397.05	3283.11	3305.11	-2736.04	-2357.26	-8.43	3071.75	129.79	23.76	PASS
3516.00†	3391.40	-405.55	-433.97	3369.40	3391.40	-2736.04	-2357.26	-8.57	3021.63	131.75	23.03	PASS
3616.00†	3477.70	-440.05	-470.89	3455.70	3477.70	-2736.04	-2357.26	-8.71	2971.53	133.72	22.31	PASS
3716.00†	3563.99	-474.55	-507.81	3541.99	3563.99	-2736.04	-2357.26	-8.86	2921.44	135.70	21.61	PASS
3816.00†	3650.28	-509.05	-544.73	3628.28	3650.28	-2736.04	-2357.26	-9.02	2871.37	137.69	20.93	PASS
3916.00†	3736.58	-543.56	-581.65	3714.58	3736.58	-2736.04	-2357.26	-9.18	2821.31	139.70	20.27	PASS
4016.00†	3822.87	-578.06	-618.57	3800.87	3822.87	-2736.04	-2357.26	-9.34	2771.27	141.71	19.63	PASS
4116.00†	3909.17	-612.56	-655.49	3887.17	3909.17	-2736.04	-2357.26	-9.52	2721.25	143.74	19.00	PASS
4216.00†	3995.46	-647.06	-692.41	3973.46	3995.46	-2736.04	-2357.26	-9.69	2671.25	145.78	18.39	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #3 AWB Offset Wellpath: RIVERDALE FARMS #3 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#02 EX RIVERDALE FARMS #3 (660'FNL & 660'FWL, SEC.10, PA) Well: RIVERDALE FARMS #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
4316.00†	4081.75	-681.56	-729.33	4059.75	4081.75	-2736.04	-2357.26	-9.88	2621.27	147.84	17.79	PASS
4416.00†	4168.05	-716.06	-766.25	4146.05	4168.05	-2736.04	-2357.26	-10.07	2571.31	149.90	17.21	PASS
4516.00†	4254.34	-750.56	-803.16	4232.34	4254.34	-2736.04	-2357.26	-10.27	2521.38	151.98	16.65	PASS
4616.00†	4340.63	-785.07	-840.08	4318.63	4340.63	-2736.04	-2357.26	-10.48	2471.46	154.07	16.09	PASS
4716.00†	4426.93	-819.57	-877.00	4404.93	4426.93	-2736.04	-2357.26	-10.70	2421.58	156.17	15.56	PASS
4816.00†	4513.22	-854.07	-913.92	4491.22	4513.22	-2736.04	-2357.26	-10.92	2371.72	158.28	15.03	PASS
4916.00†	4599.52	-888.57	-950.84	4577.52	4599.52	-2736.04	-2357.26	-11.16	2321.89	160.41	14.52	PASS
5016.00†	4685.81	-923.07	-987.76	4663.81	4685.81	-2736.04	-2357.26	-11.40	2272.09	162.55	14.02	PASS
5116.00†	4772.10	-957.57	-1024.68	4750.10	4772.10	-2736.04	-2357.26	-11.66	2222.32	164.71	13.53	PASS
5216.00†	4858.40	-992.07	-1061.60	4836.40	4858.40	-2736.04	-2357.26	-11.93	2172.59	166.88	13.06	PASS
5316.00†	4944.69	-1026.58	-1098.52	4922.69	4944.69	-2736.04	-2357.26	-12.21	2122.90	169.06	12.59	PASS
5416.00†	5030.98	-1061.08	-1135.44	5008.98	5030.98	-2736.04	-2357.26	-12.50	2073.25	171.26	12.14	PASS
5516.00†	5117.28	-1095.58	-1172.36	5095.28	5117.28	-2736.04	-2357.26	-12.81	2023.64	173.48	11.70	PASS
5616.00†	5203.57	-1130.08	-1209.28	5099.00	5121.00	-2736.04	-2357.26	-12.82	1975.80	174.11	11.38	PASS
5716.00†	5289.87	-1164.58	-1246.20	5099.00	5121.00	-2736.04	-2357.26	-12.82	1931.96	174.39	11.11	PASS
5816.00†	5376.16	-1199.08	-1283.12	5099.00	5121.00	-2736.04	-2357.26	-12.82	1892.39	174.33	10.89	PASS
5916.00†	5462.45	-1233.59	-1320.04	5099.00	5121.00	-2736.04	-2357.26	-12.82	1857.37	173.89	10.71	PASS
6016.00†	5548.75	-1268.09	-1356.96	5099.00	5121.00	-2736.04	-2357.26	-12.82	1827.15	173.04	10.59	PASS
6116.00†	5635.04	-1302.59	-1393.87	5099.00	5121.00	-2736.04	-2357.26	-12.82	1801.98	171.73	10.52	PASS
6177.08†	5687.75	-1323.66	-1416.42	5099.00	5121.00	-2736.04	-2357.26	-12.82	1789.19	170.70	10.51	PASS
6216.00†	5721.33	-1337.09	-1430.79	5099.00	5121.00	-2736.04	-2357.26	-12.82	1782.08	169.95	10.52	PASS
6316.00†	5807.63	-1371.59	-1467.71	5099.00	5121.00	-2736.04	-2357.26	-12.82	1767.62	167.67	10.57	PASS
6416.00†	5893.92	-1406.09	-1504.63	5099.00	5121.00	-2736.04	-2357.26	-12.82	1758.74	164.91	10.70	PASS
6516.00†	5980.22	-1440.59	-1541.55	5099.00	5121.00	-2736.04	-2357.26	-12.82	1755.51	161.67	10.89	PASS
6523.50†	5986.69	-1443.18	-1544.32	5099.00	5121.00	-2736.04	-2357.26	-12.82	1755.50	161.41	10.91	PASS
6616.00†	6066.51	-1475.10	-1578.47	5099.00	5121.00	-2736.04	-2357.26	-12.82	1757.98	157.99	11.16	PASS
6716.00†	6152.80	-1509.60	-1615.39	5099.00	5121.00	-2736.04	-2357.26	-12.82	1766.11	153.90	11.51	PASS
6816.00†	6239.10	-1544.10	-1652.31	5099.00	5121.00	-2736.04	-2357.26	-12.82	1779.84	149.47	11.95	PASS
6916.00†	6325.39	-1578.60	-1689.23	5099.00	5121.00	-2736.04	-2357.26	-12.82	1799.03	144.77	12.47	PASS
7016.00†	6411.68	-1613.10	-1726.15	5099.00	5121.00	-2736.04	-2357.26	-12.82	1823.50	139.85	13.09	PASS
7116.00†	6497.98	-1647.60	-1763.07	5099.00	5121.00	-2736.04	-2357.26	-12.82	1853.06	134.79	13.80	PASS
7216.00†	6584.27	-1682.10	-1799.99	5099.00	5121.00	-2736.04	-2357.26	-12.82	1887.46	129.66	14.61	PASS
7316.00†	6670.57	-1716.61	-1836.91	5099.00	5121.00	-2736.04	-2357.26	-12.82	1926.44	124.54	15.53	PASS
7416.00†	6756.86	-1751.11	-1873.83	5099.00	5121.00	-2736.04	-2357.26	-12.82	1969.73	119.47	16.56	PASS
7516.00†	6843.15	-1785.61	-1910.75	5099.00	5121.00	-2736.04	-2357.26	-12.82	2017.06	114.50	17.69	PASS
7616.00†	6929.45	-1820.11	-1947.66	5099.00	5121.00	-2736.04	-2357.26	-12.82	2068.14	109.70	18.94	PASS



CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #3 AWB    Offset Wellpath: RIVERDALE FARMS #3 AWP												
Facility: SEC.10-T01S-R67W		Slot: SLOT#02 EX RIVERDALE FARMS #3 (660'FNL & 660'FWL, SEC.10, PA)				Well: RIVERDALE FARMS #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
7716.00†	7015.74	-1854.61	-1984.58	5099.00	5121.00	-2736.04	-2357.26	-12.82	2122.70	105.08	20.30	PASS
7816.00†	7102.03	-1889.11	-2021.50	5099.00	5121.00	-2736.04	-2357.26	-12.82	2180.49	100.68	21.77	PASS
7916.00†	7188.33	-1923.61	-2058.42	5099.00	5121.00	-2736.04	-2357.26	-12.82	2241.25	96.53	23.34	PASS
8016.00†	7274.62	-1958.12	-2095.34	5099.00	5121.00	-2736.04	-2357.26	-12.82	2304.75	92.64	25.02	PASS
8085.19	7334.33	-1981.99	-2120.89	5099.00	5121.00	-2736.04	-2357.26	-12.82	2350.17	90.10	26.23	PASS
8116.00†	7360.64	-1993.39	-2132.14	5099.00	5121.00	-2736.04	-2357.26	-10.60	2370.28	88.98	26.80	PASS
8216.00†	7441.54	-2040.68	-2166.69	5099.00	5121.00	-2736.04	-2357.26	-5.47	2429.97	85.18	28.70	PASS
8316.00†	7513.69	-2102.53	-2197.41	5099.00	5121.00	-2736.04	-2357.26	-2.48	2480.29	81.44	30.65	PASS
8416.00†	7574.90	-2177.06	-2223.37	5099.00	5121.00	-2736.04	-2357.26	-0.67	2520.32	77.68	32.66	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #3 AWB Offset Wellpath: RIVERDALE FARMS #3 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#02 EX RIVERDALE FARMS #3 (660'FNL & 660'FWL, SEC.10, PA) Well: RIVERDALE FARMS #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
8516.00†	7623.30	-2261.99	-2243.79	5099.00	5121.00	-2736.04	-2357.26	0.48	2549.34	74.12	34.64	PASS
8616.00†	7657.43	-2354.77	-2258.05	5099.00	5121.00	-2736.04	-2357.26	1.24	2566.85	70.96	36.44	PASS
8716.00†	7676.26	-2452.55	-2265.70	5099.00	5121.00	-2736.04	-2357.26	1.77	2572.56	68.46	37.87	PASS
8784.36	7680.00	-2520.76	-2267.01	5099.00	5121.00	-2736.04	-2357.26	2.04	2569.63	67.12	38.59	PASS
8816.00†	7680.00	-2552.39	-2266.87	5099.00	5121.00	-2736.04	-2357.26	2.04	2567.17	66.51	38.91	PASS
8916.00†	7680.00	-2652.39	-2266.43	5099.00	5121.00	-2736.04	-2357.26	2.04	2561.98	65.15	39.65	PASS
9016.00†	7680.00	-2752.39	-2265.99	5099.00	5121.00	-2736.04	-2357.26	2.04	2560.68	65.00	39.72	PASS
9116.00†	7680.00	-2852.39	-2265.55	5099.00	5121.00	-2736.04	-2357.26	2.04	2563.28	66.09	39.10	PASS
9216.00†	7680.00	-2952.39	-2265.11	5099.00	5121.00	-2736.04	-2357.26	2.04	2569.78	68.34	37.90	PASS
9316.00†	7680.00	-3052.39	-2264.67	5099.00	5121.00	-2736.04	-2357.26	2.04	2580.14	71.55	36.33	PASS
9416.00†	7680.00	-3152.39	-2264.23	5099.00	5121.00	-2736.04	-2357.26	2.04	2594.32	75.53	34.59	PASS
9516.00†	7680.00	-3252.39	-2263.79	5099.00	5121.00	-2736.04	-2357.26	2.04	2612.25	80.06	32.84	PASS
9616.00†	7680.00	-3352.39	-2263.34	5099.00	5121.00	-2736.04	-2357.26	2.04	2633.85	84.97	31.19	PASS
9716.00†	7680.00	-3452.39	-2262.90	5099.00	5121.00	-2736.04	-2357.26	2.04	2659.05	90.13	29.68	PASS
9816.00†	7680.00	-3552.38	-2262.46	5099.00	5121.00	-2736.04	-2357.26	2.04	2687.73	95.42	28.32	PASS
9916.00†	7680.00	-3652.38	-2262.02	5099.00	5121.00	-2736.04	-2357.26	2.04	2719.79	100.76	27.13	PASS
10016.00†	7680.00	-3752.38	-2261.58	5099.00	5121.00	-2736.04	-2357.26	2.04	2755.10	106.08	26.10	PASS
10116.00†	7680.00	-3852.38	-2261.14	5099.00	5121.00	-2736.04	-2357.26	2.04	2793.55	111.33	25.21	PASS
10216.00†	7680.00	-3952.38	-2260.70	5099.00	5121.00	-2736.04	-2357.26	2.04	2835.01	116.47	24.45	PASS
10316.00†	7680.00	-4052.38	-2260.26	5099.00	5121.00	-2736.04	-2357.26	2.04	2879.35	121.47	23.81	PASS
10416.00†	7680.00	-4152.38	-2259.82	5099.00	5121.00	-2736.04	-2357.26	2.04	2926.43	126.31	23.26	PASS
10516.00†	7680.00	-4252.38	-2259.38	5099.00	5121.00	-2736.04	-2357.26	2.04	2976.13	130.97	22.81	PASS
10616.00†	7680.00	-4352.38	-2258.94	5099.00	5121.00	-2736.04	-2357.26	2.04	3028.31	135.45	22.44	PASS
10716.00†	7680.00	-4452.38	-2258.50	5099.00	5121.00	-2736.04	-2357.26	2.04	3082.86	139.74	22.14	PASS
10816.00†	7680.00	-4552.37	-2258.06	5099.00	5121.00	-2736.04	-2357.26	2.04	3139.65	143.83	21.91	PASS
10916.00†	7680.00	-4652.37	-2257.61	5099.00	5121.00	-2736.04	-2357.26	2.04	3198.55	147.73	21.73	PASS
11016.00†	7680.00	-4752.37	-2257.17	5099.00	5121.00	-2736.04	-2357.26	2.04	3259.46	151.44	21.60	PASS
11116.00†	7680.00	-4852.37	-2256.73	5099.00	5121.00	-2736.04	-2357.26	2.04	3322.26	154.97	21.51	PASS
11216.00†	7680.00	-4952.37	-2256.29	5099.00	5121.00	-2736.04	-2357.26	2.04	3386.86	158.31	21.46	PASS
11316.00†	7680.00	-5052.37	-2255.85	5099.00	5121.00	-2736.04	-2357.26	2.04	3453.13	161.48	21.45	PASS
11416.00†	7680.00	-5152.37	-2255.41	5099.00	5121.00	-2736.04	-2357.26	2.04	3521.01	164.48	21.47	PASS
11516.00†	7680.00	-5252.37	-2254.97	5099.00	5121.00	-2736.04	-2357.26	2.04	3590.38	167.32	21.52	PASS
11616.00†	7680.00	-5352.37	-2254.53	5099.00	5121.00	-2736.04	-2357.26	2.04	3661.17	170.01	21.60	PASS
11716.00†	7680.00	-5452.37	-2254.09	5099.00	5121.00	-2736.04	-2357.26	2.04	3733.30	172.55	21.70	PASS
11816.00†	7680.00	-5552.36	-2253.65	5099.00	5121.00	-2736.04	-2357.26	2.04	3806.69	174.96	21.82	PASS
11916.00†	7680.00	-5652.36	-2253.21	5099.00	5121.00	-2736.04	-2357.26	2.04	3881.27	177.24	21.96	PASS

CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #3 AWB    Offset Wellpath: RIVERDALE FARMS #3 AWP												
Facility: SEC.10-T01S-R67W		Slot: SLOT#02 EX RIVERDALE FARMS #3 (660'FNL & 660'FWL, SEC.10, PA)				Well: RIVERDALE FARMS #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
12016.00†	7680.00	-5752.36	-2252.77	5099.00	5121.00	-2736.04	-2357.26	2.04	3956.97	179.39	22.12	PASS
12116.00†	7680.00	-5852.36	-2252.32	5099.00	5121.00	-2736.04	-2357.26	2.04	4033.73	181.43	22.30	PASS
12216.00†	7680.00	-5952.36	-2251.88	5099.00	5121.00	-2736.04	-2357.26	2.04	4111.48	183.36	22.49	PASS
12316.00†	7680.00	-6052.36	-2251.44	5099.00	5121.00	-2736.04	-2357.26	2.04	4190.18	185.19	22.69	PASS
12416.00†	7680.00	-6152.36	-2251.00	5099.00	5121.00	-2736.04	-2357.26	2.04	4269.78	186.92	22.91	PASS
12516.00†	7680.00	-6252.36	-2250.56	5099.00	5121.00	-2736.04	-2357.26	2.04	4350.21	188.56	23.13	PASS
12616.00†	7680.00	-6352.36	-2250.12	5099.00	5121.00	-2736.04	-2357.26	2.04	4431.44	190.11	23.37	PASS
12716.00†	7680.00	-6452.36	-2249.68	5099.00	5121.00	-2736.04	-2357.26	2.04	4513.43	191.59	23.62	PASS
12816.00†	7680.00	-6552.36	-2249.24	5099.00	5121.00	-2736.04	-2357.26	2.04	4596.13	192.99	23.88	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #3 AWB Offset Wellpath: RIVERDALE FARMS #3 AWP

Facility: SEC.10-T01S-R67W													Slot: SLOT#02 EX RIVERDALE FARMS #3 (660'FNL & 660'FWL, SEC.10, PA)		Well: RIVERDALE FARMS #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								
12916.00†	7680.00	-6652.35	-2248.80	5099.00	5121.00	-2736.04	-2357.26	2.04	4679.50	194.32	24.15	PASS								
13016.00†	7680.00	-6752.35	-2248.36	5099.00	5121.00	-2736.04	-2357.26	2.04	4763.52	195.59	24.42	PASS								
13116.00†	7680.00	-6852.35	-2247.92	5099.00	5121.00	-2736.04	-2357.26	2.04	4848.14	196.79	24.70	PASS								
13144.91	7680.00	-6881.26	-2247.79	5099.00	5121.00	-2736.04	-2357.26	2.04	4872.71	197.13	24.78	PASS								

## POSITIONAL UNCERTAINTY - Offset Wellbore: RIVERDALE FARMS #3 AWB Offset Wellpath: RIVERDALE FARMS #3 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: RIVERDALE FARMS #3 AWB Offset Wellpath: RIVERDALE FARMS #3 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	221.00	221.00	6.00	227.00	-1667.82	-1437.07	-1667.82	-1437.07
8.625in Casing Surface	0.00	221.00	221.00	6.00	227.00	-1667.82	-1437.07	-1667.82	-1437.07
7.875in Open Hole	221.00	5134.00	4913.00	227.00	N/A	-1667.82	-1437.07	N/A	N/A
4.5in Casing Production	0.00	5134.00	5134.00	6.00	N/A	-1667.82	-1437.07	N/A	N/A

## WELLPATH COMPOSITION - Offset Wellbore: RIVERDALE FARMS #3 AWB Offset Wellpath: RIVERDALE FARMS #3 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5099.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5099>	RIVERDALE FARMS #3 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: RIVERDALE FARMS #3 AWB Offset Wellpath: RIVERDALE FARMS #3 AWP

MD Reference: Rig on SLOT#02 EX RIVERDALE FARMS #3 (660'FNL & 660'FWL, SEC.10, 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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER 10-5P AWB Offset Wellpath: EHLER 10-5P AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#02 EX EHLER 10-5P (720'FSL & 600'FEL, SEC.10, PA.) Well: EHLER 10-5P Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	-16.00	22.00	-6604.45	1704.04	165.53	6820.74	25.57	277.21	PASS
116.00†	116.00	0.00	0.00	78.00	116.00	-6604.45	1704.04	165.53	6820.74	63.95	108.28	PASS
216.00†	216.00	0.00	0.00	178.00	216.00	-6604.45	1704.04	165.53	6820.74	68.55	100.90	PASS
316.00†	316.00	0.00	0.00	278.00	316.00	-6604.45	1704.04	165.53	6820.74	73.16	94.46	PASS
416.00†	416.00	0.00	0.00	378.00	416.00	-6604.45	1704.04	165.53	6820.74	77.78	88.78	PASS
516.00†	516.00	0.00	0.00	478.00	516.00	-6604.45	1704.04	165.53	6820.74	82.40	83.75	PASS
616.00†	616.00	0.00	0.00	578.00	616.00	-6604.45	1704.04	165.53	6820.74	87.02	79.25	PASS
716.00†	716.00	0.00	0.00	678.00	716.00	-6604.45	1704.04	165.53	6820.74	91.65	75.20	PASS
816.00†	816.00	0.00	0.00	778.00	816.00	-6604.45	1704.04	165.53	6820.74	95.90	71.55	PASS
916.00†	916.00	0.00	0.00	878.00	916.00	-6604.45	1704.04	165.53	6820.74	100.53	68.23	PASS
1016.00†	1016.00	0.00	0.00	978.00	1016.00	-6604.45	1704.04	165.53	6820.74	105.17	65.21	PASS
1116.00†	1116.00	0.00	0.00	1078.00	1116.00	-6604.45	1704.04	165.53	6820.74	109.82	62.44	PASS
1216.00†	1216.00	0.00	0.00	1178.00	1216.00	-6604.45	1704.04	165.53	6820.74	114.46	59.89	PASS
1316.00†	1316.00	0.00	0.00	1278.00	1316.00	-6604.45	1704.04	165.53	6820.74	119.11	57.54	PASS
1416.00†	1416.00	0.00	0.00	1378.00	1416.00	-6604.45	1704.04	165.53	6820.74	123.77	55.37	PASS
1516.00†	1516.00	0.00	0.00	1478.00	1516.00	-6604.45	1704.04	165.53	6820.74	128.43	53.35	PASS
1600.00	1600.00	0.00	0.00	1562.00	1600.00	-6604.45	1704.04	165.53	6820.74	132.34	51.76	PASS
1616.00†	1616.00	-0.03	-0.03	1578.00	1616.00	-6604.45	1704.04	-61.41	6820.72	133.09	51.47	PASS
1716.00†	1715.97	-1.60	-1.72	1677.97	1715.97	-6604.45	1704.04	-61.44	6819.62	137.76	49.71	PASS
1816.00†	1815.80	-5.56	-5.95	1777.80	1815.80	-6604.45	1704.04	-61.54	6816.85	142.43	48.05	PASS
1916.00†	1915.36	-11.89	-12.72	1877.36	1915.36	-6604.45	1704.04	-61.68	6812.42	147.10	46.49	PASS
2016.00†	2014.54	-20.59	-22.03	1976.54	2014.54	-6604.45	1704.04	-61.88	6806.36	151.77	45.02	PASS
2116.00†	2113.21	-31.64	-33.86	2075.21	2113.21	-6604.45	1704.04	-62.14	6798.68	156.42	43.62	PASS
2216.00†	2211.26	-45.04	-48.20	2173.26	2211.26	-6604.45	1704.04	-62.45	6789.41	161.06	42.31	PASS
2316.00†	2308.57	-60.77	-65.03	2270.57	2308.57	-6604.45	1704.04	-62.81	6778.59	165.69	41.05	PASS
2416.00†	2405.01	-78.81	-84.34	2367.01	2405.01	-6604.45	1704.04	-63.22	6766.25	170.30	39.86	PASS
2516.00†	2500.47	-99.14	-106.09	2462.47	2500.47	-6604.45	1704.04	-63.69	6752.45	174.92	38.73	PASS
2616.00†	2594.84	-121.73	-130.26	2556.84	2594.84	-6604.45	1704.04	-64.21	6737.23	179.52	37.65	PASS
2716.00†	2687.99	-146.55	-156.82	2649.99	2687.99	-6604.45	1704.04	-64.78	6720.66	184.13	36.61	PASS
2816.00†	2779.81	-173.58	-185.74	2741.81	2779.81	-6604.45	1704.04	-65.39	6702.79	188.74	35.62	PASS
2916.00†	2870.20	-202.78	-216.99	2832.20	2870.20	-6604.45	1704.04	-66.05	6683.69	193.36	34.67	PASS
3016.00†	2959.04	-234.11	-250.52	2921.04	2959.04	-6604.45	1704.04	-66.76	6663.44	198.00	33.75	PASS
3116.00†	3046.23	-267.54	-286.29	3008.23	3046.23	-6604.45	1704.04	-67.51	6642.12	202.65	32.87	PASS
3117.60	3047.61	-268.10	-286.88	3009.61	3047.61	-6604.45	1704.04	-67.52	6641.77	202.72	32.85	PASS
3216.00†	3132.52	-302.05	-323.21	3094.52	3132.52	-6604.45	1704.04	-67.87	6620.43	207.33	32.02	PASS
3316.00†	3218.82	-336.55	-360.13	3180.82	3218.82	-6604.45	1704.04	-68.23	6599.04	212.08	31.20	PASS

CLEARANCE DATA - Offset Wellbore: EHLER 10-5P AWB Offset Wellpath: EHLER 10-5P AWP												
Facility: SEC.10-T01S-R67W				Slot: SLOT#02 EX EHLER 10-5P (720'FSL & 600'FEL, SEC.10, PA.)		Well: EHLER 10-5P		Threshold Value=1.00 † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	3267.11	3305.11	-6604.45	1704.04	-68.59	6577.98	216.89	30.41	PASS
3516.00†	3391.40	-405.55	-433.97	3353.40	3391.40	-6604.45	1704.04	-68.96	6557.24	221.77	29.64	PASS
3616.00†	3477.70	-440.05	-470.89	3439.70	3477.70	-6604.45	1704.04	-69.32	6536.83	226.69	28.91	PASS
3716.00†	3563.99	-474.55	-507.81	3525.99	3563.99	-6604.45	1704.04	-69.69	6516.74	231.67	28.20	PASS
3816.00†	3650.28	-509.05	-544.73	3612.28	3650.28	-6604.45	1704.04	-70.05	6496.98	236.69	27.51	PASS
3916.00†	3736.58	-543.56	-581.65	3698.58	3736.58	-6604.45	1704.04	-70.42	6477.56	241.76	26.86	PASS
4016.00†	3822.87	-578.06	-618.57	3784.87	3822.87	-6604.45	1704.04	-70.79	6458.47	246.87	26.22	PASS
4116.00†	3909.17	-612.56	-655.49	3871.17	3909.17	-6604.45	1704.04	-71.17	6439.73	252.02	25.61	PASS
4216.00†	3995.46	-647.06	-692.41	3957.46	3995.46	-6604.45	1704.04	-71.54	6421.33	257.20	25.02	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER 10-5P AWB Offset Wellpath: EHLER 10-5P AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#02 EX EHLER 10-5P (720'FSL & 600'FEL, SEC.10, PA.) Well: EHLER 10-5P Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	4043.75	4081.75	-6604.45	1704.04	-71.92	6403.27	262.42	24.45	PASS
4416.00†	4168.05	-716.06	-766.25	4130.05	4168.05	-6604.45	1704.04	-72.30	6385.56	267.67	23.91	PASS
4516.00†	4254.34	-750.56	-803.16	4216.34	4254.34	-6604.45	1704.04	-72.67	6368.20	272.95	23.38	PASS
4616.00†	4340.63	-785.07	-840.08	4302.63	4340.63	-6604.45	1704.04	-73.06	6351.20	278.25	22.87	PASS
4716.00†	4426.93	-819.57	-877.00	4388.93	4426.93	-6604.45	1704.04	-73.44	6334.56	283.58	22.38	PASS
4816.00†	4513.22	-854.07	-913.92	4475.22	4513.22	-6604.45	1704.04	-73.82	6318.27	288.93	21.91	PASS
4916.00†	4599.52	-888.57	-950.84	4561.52	4599.52	-6604.45	1704.04	-74.21	6302.35	294.31	21.45	PASS
5016.00†	4685.81	-923.07	-987.76	4647.81	4685.81	-6604.45	1704.04	-74.59	6286.80	299.70	21.02	PASS
5116.00†	4772.10	-957.57	-1024.68	4734.10	4772.10	-6604.45	1704.04	-74.98	6271.61	305.12	20.59	PASS
5216.00†	4858.40	-992.07	-1061.60	4820.40	4858.40	-6604.45	1704.04	-75.37	6256.80	310.55	20.18	PASS
5316.00†	4944.69	-1026.58	-1098.52	4906.69	4944.69	-6604.45	1704.04	-75.76	6242.35	316.00	19.79	PASS
5416.00†	5030.98	-1061.08	-1135.44	4992.98	5030.98	-6604.45	1704.04	-76.16	6228.29	321.46	19.41	PASS
5516.00†	5117.28	-1095.58	-1172.36	5079.28	5117.28	-6604.45	1704.04	-76.55	6214.60	326.94	19.04	PASS
5616.00†	5203.57	-1130.08	-1209.28	5119.00	5157.00	-6604.45	1704.04	-76.73	6201.47	330.28	18.81	PASS
5716.00†	5289.87	-1164.58	-1246.20	5119.00	5157.00	-6604.45	1704.04	-76.73	6189.81	331.76	18.69	PASS
5816.00†	5376.16	-1199.08	-1283.12	5119.00	5157.00	-6604.45	1704.04	-76.73	6179.73	333.19	18.58	PASS
5916.00†	5462.45	-1233.59	-1320.04	5119.00	5157.00	-6604.45	1704.04	-76.73	6171.26	334.56	18.48	PASS
6016.00†	5548.75	-1268.09	-1356.96	5119.00	5157.00	-6604.45	1704.04	-76.73	6164.41	335.87	18.38	PASS
6116.00†	5635.04	-1302.59	-1393.87	5119.00	5157.00	-6604.45	1704.04	-76.73	6159.17	337.12	18.30	PASS
6216.00†	5721.33	-1337.09	-1430.79	5119.00	5157.00	-6604.45	1704.04	-76.73	6155.54	338.31	18.22	PASS
6316.00†	5807.63	-1371.59	-1467.71	5119.00	5157.00	-6604.45	1704.04	-76.73	6153.55	339.44	18.16	PASS
6416.00†	5893.92	-1406.09	-1504.63	5119.00	5157.00	-6604.45	1704.04	-76.73	6153.17	340.50	18.10	PASS
6516.00†	5980.22	-1440.59	-1541.55	5119.00	5157.00	-6604.45	1704.04	-76.73	6154.42	341.50	18.05	PASS
6616.00†	6066.51	-1475.10	-1578.47	5119.00	5157.00	-6604.45	1704.04	-76.73	6157.30	342.43	18.01	PASS
6716.00†	6152.80	-1509.60	-1615.39	5119.00	5157.00	-6604.45	1704.04	-76.73	6161.80	343.30	17.98	PASS
6816.00†	6239.10	-1544.10	-1652.31	5119.00	5157.00	-6604.45	1704.04	-76.73	6167.91	344.10	17.95	PASS
6916.00†	6325.39	-1578.60	-1689.23	5119.00	5157.00	-6604.45	1704.04	-76.73	6175.64	344.83	17.94	PASS
7016.00†	6411.68	-1613.10	-1726.15	5119.00	5157.00	-6604.45	1704.04	-76.73	6184.98	345.49	17.93	PASS
7116.00†	6497.98	-1647.60	-1763.07	5119.00	5157.00	-6604.45	1704.04	-76.73	6195.92	346.08	17.93	PASS
7216.00†	6584.27	-1682.10	-1799.99	5119.00	5157.00	-6604.45	1704.04	-76.73	6208.44	346.61	17.94	PASS
7316.00†	6670.57	-1716.61	-1836.91	5119.00	5157.00	-6604.45	1704.04	-76.73	6222.56	347.07	17.96	PASS
7416.00†	6756.86	-1751.11	-1873.83	5119.00	5157.00	-6604.45	1704.04	-76.73	6238.24	347.46	17.98	PASS
7516.00†	6843.15	-1785.61	-1910.75	5119.00	5157.00	-6604.45	1704.04	-76.73	6255.48	347.79	18.01	PASS
7616.00†	6929.45	-1820.11	-1947.66	5119.00	5157.00	-6604.45	1704.04	-76.73	6274.27	348.05	18.06	PASS
7716.00†	7015.74	-1854.61	-1984.58	5119.00	5157.00	-6604.45	1704.04	-76.73	6294.59	348.25	18.10	PASS
7816.00†	7102.03	-1889.11	-2021.50	5119.00	5157.00	-6604.45	1704.04	-76.73	6316.42	348.39	18.16	PASS



CLEARANCE DATA - Offset Wellbore: EHLER 10-5P AWB    Offset Wellpath: EHLER 10-5P AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#02 EX EHLER 10-5P (720'FSL & 600'FEL, SEC.10, PA.)			Well: EHLER 10-5P		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7916.00†	7188.33	-1923.61	-2058.42	5119.00	5157.00	-6604.45	1704.04	-76.73	6339.77	348.46	18.22	PASS
8016.00†	7274.62	-1958.12	-2095.34	5119.00	5157.00	-6604.45	1704.04	-76.73	6364.59	348.48	18.29	PASS
8085.19	7334.33	-1981.99	-2120.89	5119.00	5157.00	-6604.45	1704.04	-76.73	6382.63	348.45	18.35	PASS
8116.00†	7360.64	-1993.39	-2132.14	5119.00	5157.00	-6604.45	1704.04	-72.56	6390.16	348.45	18.37	PASS
8216.00†	7441.54	-2040.68	-2166.69	5119.00	5157.00	-6604.45	1704.04	-62.53	6405.44	348.64	18.40	PASS
8316.00†	7513.69	-2102.53	-2197.41	5119.00	5157.00	-6604.45	1704.04	-56.48	6406.45	349.29	18.37	PASS
8416.00†	7574.90	-2177.06	-2223.37	5119.00	5157.00	-6604.45	1704.04	-53.13	6393.17	350.07	18.29	PASS
8516.00†	7623.30	-2261.99	-2243.79	5119.00	5157.00	-6604.45	1704.04	-51.84	6365.92	350.98	18.17	PASS
8616.00†	7657.43	-2354.77	-2258.05	5119.00	5157.00	-6604.45	1704.04	-52.33	6325.36	352.01	18.00	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER 10-5P AWB Offset Wellpath: EHLER 10-5P AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#02 EX EHLER 10-5P (720'FSL & 600'FEL, SEC.10, PA.) Well: EHLER 10-5P Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8716.00†	7676.26	-2452.55	-2265.70	5119.00	5157.00	-6604.45	1704.04	-54.65	6272.46	353.16	17.79	PASS
8784.36	7680.00	-2520.76	-2267.01	5119.00	5157.00	-6604.45	1704.04	-57.45	6229.87	353.98	17.63	PASS
8816.00†	7680.00	-2552.39	-2266.87	5119.00	5157.00	-6604.45	1704.04	-57.45	6209.09	354.35	17.55	PASS
8916.00†	7680.00	-2652.39	-2266.43	5119.00	5157.00	-6604.45	1704.04	-57.45	6144.01	355.48	17.31	PASS
9016.00†	7680.00	-2752.39	-2265.99	5119.00	5157.00	-6604.45	1704.04	-57.45	6079.88	356.64	17.07	PASS
9116.00†	7680.00	-2852.39	-2265.55	5119.00	5157.00	-6604.45	1704.04	-57.45	6016.73	357.81	16.84	PASS
9216.00†	7680.00	-2952.39	-2265.11	5119.00	5157.00	-6604.45	1704.04	-57.45	5954.59	359.00	16.61	PASS
9316.00†	7680.00	-3052.39	-2264.67	5119.00	5157.00	-6604.45	1704.04	-57.45	5893.50	360.21	16.39	PASS
9416.00†	7680.00	-3152.39	-2264.23	5119.00	5157.00	-6604.45	1704.04	-57.45	5833.47	361.44	16.16	PASS
9516.00†	7680.00	-3252.39	-2263.79	5119.00	5157.00	-6604.45	1704.04	-57.45	5774.55	362.68	15.95	PASS
9616.00†	7680.00	-3352.39	-2263.34	5119.00	5157.00	-6604.45	1704.04	-57.45	5716.78	363.94	15.73	PASS
9716.00†	7680.00	-3452.39	-2262.90	5119.00	5157.00	-6604.45	1704.04	-57.45	5660.18	365.22	15.52	PASS
9816.00†	7680.00	-3552.38	-2262.46	5119.00	5157.00	-6604.45	1704.04	-57.45	5604.80	366.50	15.32	PASS
9916.00†	7680.00	-3652.38	-2262.02	5119.00	5157.00	-6604.45	1704.04	-57.45	5550.66	367.81	15.11	PASS
10016.00†	7680.00	-3752.38	-2261.58	5119.00	5157.00	-6604.45	1704.04	-57.45	5497.81	369.12	14.92	PASS
10116.00†	7680.00	-3852.38	-2261.14	5119.00	5157.00	-6604.45	1704.04	-57.45	5446.29	370.45	14.72	PASS
10216.00†	7680.00	-3952.38	-2260.70	5119.00	5157.00	-6604.45	1704.04	-57.45	5396.12	371.79	14.54	PASS
10316.00†	7680.00	-4052.38	-2260.26	5119.00	5157.00	-6604.45	1704.04	-57.45	5347.36	373.13	14.35	PASS
10416.00†	7680.00	-4152.38	-2259.82	5119.00	5157.00	-6604.45	1704.04	-57.45	5300.03	374.49	14.17	PASS
10516.00†	7680.00	-4252.38	-2259.38	5119.00	5157.00	-6604.45	1704.04	-57.45	5254.18	375.86	14.00	PASS
10616.00†	7680.00	-4352.38	-2258.94	5119.00	5157.00	-6604.45	1704.04	-57.45	5209.85	377.23	13.83	PASS
10716.00†	7680.00	-4452.38	-2258.50	5119.00	5157.00	-6604.45	1704.04	-57.45	5167.07	378.60	13.67	PASS
10816.00†	7680.00	-4552.37	-2258.06	5119.00	5157.00	-6604.45	1704.04	-57.45	5125.89	379.98	13.51	PASS
10916.00†	7680.00	-4652.37	-2257.61	5119.00	5157.00	-6604.45	1704.04	-57.45	5086.34	381.37	13.36	PASS
11016.00†	7680.00	-4752.37	-2257.17	5119.00	5157.00	-6604.45	1704.04	-57.45	5048.46	382.75	13.21	PASS
11116.00†	7680.00	-4852.37	-2256.73	5119.00	5157.00	-6604.45	1704.04	-57.45	5012.29	384.14	13.07	PASS
11216.00†	7680.00	-4952.37	-2256.29	5119.00	5157.00	-6604.45	1704.04	-57.45	4977.86	385.52	12.93	PASS
11316.00†	7680.00	-5052.37	-2255.85	5119.00	5157.00	-6604.45	1704.04	-57.45	4945.22	386.90	12.80	PASS
11416.00†	7680.00	-5152.37	-2255.41	5119.00	5157.00	-6604.45	1704.04	-57.45	4914.40	388.28	12.67	PASS
11516.00†	7680.00	-5252.37	-2254.97	5119.00	5157.00	-6604.45	1704.04	-57.45	4885.43	389.65	12.56	PASS
11616.00†	7680.00	-5352.37	-2254.53	5119.00	5157.00	-6604.45	1704.04	-57.45	4858.34	391.01	12.44	PASS
11716.00†	7680.00	-5452.37	-2254.09	5119.00	5157.00	-6604.45	1704.04	-57.45	4833.18	392.37	12.33	PASS
11816.00†	7680.00	-5552.36	-2253.65	5119.00	5157.00	-6604.45	1704.04	-57.45	4809.96	393.71	12.23	PASS
11916.00†	7680.00	-5652.36	-2253.21	5119.00	5157.00	-6604.45	1704.04	-57.45	4788.72	395.04	12.14	PASS
12016.00†	7680.00	-5752.36	-2252.77	5119.00	5157.00	-6604.45	1704.04	-57.45	4769.48	396.35	12.05	PASS
12116.00†	7680.00	-5852.36	-2252.32	5119.00	5157.00	-6604.45	1704.04	-57.45	4752.26	397.65	11.97	PASS

CLEARANCE DATA - Offset Wellbore: EHLER 10-5P AWB    Offset Wellpath: EHLER 10-5P AWP												
Facility: SEC.10-T01S-R67W				Slot: SLOT#02 EX EHLER 10-5P (720'FSL & 600'FEL, SEC.10, PA.)			Well: EHLER 10-5P		Threshold Value=1.00    † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12216.00†	7680.00	-5952.36	-2251.88	5119.00	5157.00	-6604.45	1704.04	-57.45	4737.10	398.93	11.89	PASS
12316.00†	7680.00	-6052.36	-2251.44	5119.00	5157.00	-6604.45	1704.04	-57.45	4724.00	400.19	11.82	PASS
12416.00†	7680.00	-6152.36	-2251.00	5119.00	5157.00	-6604.45	1704.04	-57.45	4712.99	401.43	11.76	PASS
12516.00†	7680.00	-6252.36	-2250.56	5119.00	5157.00	-6604.45	1704.04	-57.45	4704.08	402.64	11.70	PASS
12616.00†	7680.00	-6352.36	-2250.12	5119.00	5157.00	-6604.45	1704.04	-57.45	4697.28	403.83	11.65	PASS
12716.00†	7680.00	-6452.36	-2249.68	5119.00	5157.00	-6604.45	1704.04	-57.45	4692.61	405.00	11.60	PASS
12816.00†	7680.00	-6552.36	-2249.24	5119.00	5157.00	-6604.45	1704.04	-57.45	4690.06	406.13	11.56	PASS
12881.00†	7680.00	-6617.35	-2248.95	5119.00	5157.00	-6604.45	1704.04	-57.45	4689.55	406.85	11.54	PASS
12916.00†	7680.00	-6652.35	-2248.80	5119.00	5157.00	-6604.45	1704.04	-57.45	4689.64	407.23	11.53	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER 10-5P AWB Offset Wellpath: EHLER 10-5P AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#02 EX EHLER 10-5P (720'FSL & 600'FEL, SEC.10, PA.) Well: EHLER 10-5P Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
13016.00†	7680.00	-6752.35	-2248.36	5119.00	5157.00	-6604.45	1704.04	-57.45	4691.36	408.31	11.50	PASS
13116.00†	7680.00	-6852.35	-2247.92	5119.00	5157.00	-6604.45	1704.04	-57.45	4695.21	409.35	11.48	PASS
13144.91	7680.00	-6881.26	-2247.79	5119.00	5157.00	-6604.45	1704.04	-57.45	4696.71	409.64	11.48	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: EHLER 10-5P AWB Offset Wellpath: EHLER 10-5P AWP

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

## WELLPATH COMPOSITION - Offset Wellbore: EHLER 10-5P AWB Offset Wellpath: EHLER 10-5P AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5119.00	Custom Drift Indicator (2.0 Maximum Inclination)	WORST CASE SCENARIO-ASSUMED VERTICAL TO SURFACE COGCC<5119>	EHLER 10-5P AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: EHLER 10-5P AWB Offset Wellpath: EHLER 10-5P AWP

MD Reference: Rig on SLOT#02 EX EHLER 10-5P (720'FSL & 600'FEL, SEC.10, 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

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER FARMS #A 4 AWB Offset Wellpath: SELTZER FARMS #A 4 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#03 EX SELTZER FARMS #A 4 (1760'FNL & 1780'FWL, SEC.03,PR) Well: SELTZER FARMS #A 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
16.00	16.00	0.00	0.00	-5.00	16.00	1237.51	-1280.15	-45.97	1780.51	25.57	72.33	PASS
116.00†	116.00	0.00	0.00	95.00	116.00	1237.51	-1280.15	-45.97	1780.51	62.42	28.94	PASS
216.00†	216.00	0.00	0.00	195.00	216.00	1237.51	-1280.15	-45.97	1780.51	64.66	27.92	PASS
316.00†	316.00	0.00	0.00	295.00	316.00	1237.51	-1280.15	-45.97	1780.51	66.91	26.97	PASS
416.00†	416.00	0.00	0.00	395.00	416.00	1237.51	-1280.15	-45.97	1780.51	69.17	26.08	PASS
516.00†	516.00	0.00	0.00	495.00	516.00	1237.51	-1280.15	-45.97	1780.51	71.42	25.24	PASS
616.00†	616.00	0.00	0.00	595.00	616.00	1237.51	-1280.15	-45.97	1780.51	73.68	24.46	PASS
716.00†	716.00	0.00	0.00	695.00	716.00	1237.51	-1280.15	-45.97	1780.51	75.95	23.72	PASS
816.00†	816.00	0.00	0.00	795.00	816.00	1237.51	-1280.15	-45.97	1780.51	78.01	23.03	PASS
916.00†	916.00	0.00	0.00	895.00	916.00	1237.51	-1280.15	-45.97	1780.51	80.28	22.37	PASS
1016.00†	1016.00	0.00	0.00	995.00	1016.00	1237.51	-1280.15	-45.97	1780.51	82.56	21.75	PASS
1116.00†	1116.00	0.00	0.00	1095.00	1116.00	1237.51	-1280.15	-45.97	1780.51	84.84	21.16	PASS
1216.00†	1216.00	0.00	0.00	1195.00	1216.00	1237.51	-1280.15	-45.97	1780.51	86.99	20.60	PASS
1316.00†	1316.00	0.00	0.00	1295.00	1316.00	1237.51	-1280.15	-45.97	1780.51	89.28	20.07	PASS
1416.00†	1416.00	0.00	0.00	1395.00	1416.00	1237.51	-1280.15	-45.97	1780.51	91.57	19.56	PASS
1516.00†	1516.00	0.00	0.00	1495.00	1516.00	1237.51	-1280.15	-45.97	1780.51	93.87	19.08	PASS
1600.00	1600.00	0.00	0.00	1579.00	1600.00	1237.51	-1280.15	-45.97	1780.51	95.80	18.69	PASS
1616.00†	1616.00	-0.03	-0.03	1595.00	1616.00	1237.51	-1280.15	87.09	1780.51	96.17	18.62	PASS
1716.00†	1715.97	-1.60	-1.72	1694.97	1715.97	1237.51	-1280.15	87.17	1780.39	98.47	18.18	PASS
1816.00†	1815.80	-5.56	-5.95	1794.80	1815.80	1237.51	-1280.15	87.36	1780.12	100.78	17.76	PASS
1916.00†	1915.36	-11.89	-12.72	1894.36	1915.36	1237.51	-1280.15	87.67	1779.71	103.08	17.36	PASS
2016.00†	2014.54	-20.59	-22.03	1993.54	2014.54	1237.51	-1280.15	88.08	1779.24	105.39	16.97	PASS
2116.00†	2113.21	-31.64	-33.86	2092.21	2113.21	1237.51	-1280.15	88.61	1778.76	107.70	16.60	PASS
2216.00†	2211.26	-45.04	-48.20	2190.26	2211.26	1237.51	-1280.15	89.23	1778.38	110.02	16.24	PASS
2316.00†	2308.57	-60.77	-65.03	2287.57	2308.57	1237.51	-1280.15	89.96	1778.22	112.35	15.90	PASS
2416.00†	2405.01	-78.81	-84.34	2384.01	2405.01	1237.51	-1280.15	90.78	1778.39	114.70	15.58	PASS
2516.00†	2500.47	-99.14	-106.09	2479.47	2500.47	1237.51	-1280.15	91.68	1779.06	117.08	15.27	PASS
2616.00†	2594.84	-121.73	-130.26	2573.84	2594.84	1237.51	-1280.15	92.66	1780.39	119.49	14.97	PASS
2716.00†	2687.99	-146.55	-156.82	2666.99	2687.99	1237.51	-1280.15	93.70	1782.55	121.93	14.68	PASS
2816.00†	2779.81	-173.58	-185.74	2758.81	2779.81	1237.51	-1280.15	94.80	1785.75	124.42	14.42	PASS
2916.00†	2870.20	-202.78	-216.99	2849.20	2870.20	1237.51	-1280.15	95.95	1790.18	126.97	14.16	PASS
3016.00†	2959.04	-234.11	-250.52	2938.04	2959.04	1237.51	-1280.15	97.13	1796.06	129.56	13.92	PASS
3116.00†	3046.23	-267.54	-286.29	3025.23	3046.23	1237.51	-1280.15	98.33	1803.59	132.22	13.70	PASS
3117.60	3047.61	-268.10	-286.88	3026.61	3047.61	1237.51	-1280.15	98.35	1803.73	132.26	13.69	PASS
3216.00†	3132.52	-302.05	-323.21	3111.52	3132.52	1237.51	-1280.15	99.69	1812.72	134.93	13.49	PASS
3316.00†	3218.82	-336.55	-360.13	3197.82	3218.82	1237.51	-1280.15	101.05	1823.21	137.69	13.29	PASS

CLEARANCE DATA - Offset Wellbore: SELTZER FARMS #A 4 AWB Offset Wellpath: SELTZER FARMS #A 4 AWP												
Facility: SEC.03-T01S-R67W		Slot: SLOT#03 EX SELTZER FARMS #A 4 (1760'FNL & 1780'FWL, SEC.03,PR)					Well: SELTZER FARMS #A 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
3416.00†	3305.11	-371.05	-397.05	3284.11	3305.11	1237.51	-1280.15	102.40	1835.03	140.49	13.11	PASS
3516.00†	3391.40	-405.55	-433.97	3370.40	3391.40	1237.51	-1280.15	103.73	1848.15	143.32	12.94	PASS
3616.00†	3477.70	-440.05	-470.89	3456.70	3477.70	1237.51	-1280.15	105.05	1862.56	146.17	12.79	PASS
3716.00†	3563.99	-474.55	-507.81	3542.99	3563.99	1237.51	-1280.15	106.35	1878.21	149.04	12.65	PASS
3816.00†	3650.28	-509.05	-544.73	3629.28	3650.28	1237.51	-1280.15	107.64	1895.08	151.93	12.52	PASS
3916.00†	3736.58	-543.56	-581.65	3715.58	3736.58	1237.51	-1280.15	108.91	1913.14	154.82	12.40	PASS
4016.00†	3822.87	-578.06	-618.57	3801.87	3822.87	1237.51	-1280.15	110.15	1932.35	157.70	12.29	PASS
4116.00†	3909.17	-612.56	-655.49	3888.17	3909.17	1237.51	-1280.15	111.38	1952.68	160.59	12.20	PASS
4216.00†	3995.46	-647.06	-692.41	3974.46	3995.46	1237.51	-1280.15	112.59	1974.10	163.47	12.12	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER FARMS #A 4 AWB Offset Wellpath: SELTZER FARMS #A 4 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#03 EX SELTZER FARMS #A 4 (1760'FNL & 1780'FWL, SEC.03,PR) Well: SELTZER FARMS #A 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
4316.00†	4081.75	-681.56	-729.33	4060.75	4081.75	1237.51	-1280.15	113.78	1996.56	166.34	12.04	PASS
4416.00†	4168.05	-716.06	-766.25	4147.05	4168.05	1237.51	-1280.15	114.94	2020.04	169.20	11.98	PASS
4516.00†	4254.34	-750.56	-803.16	4233.34	4254.34	1237.51	-1280.15	116.09	2044.50	172.04	11.92	PASS
4616.00†	4340.63	-785.07	-840.08	4319.63	4340.63	1237.51	-1280.15	117.21	2069.90	174.87	11.87	PASS
4716.00†	4426.93	-819.57	-877.00	4405.93	4426.93	1237.51	-1280.15	118.31	2096.21	177.68	11.83	PASS
4816.00†	4513.22	-854.07	-913.92	4492.22	4513.22	1237.51	-1280.15	119.39	2123.40	180.47	11.80	PASS
4916.00†	4599.52	-888.57	-950.84	4578.52	4599.52	1237.51	-1280.15	120.44	2151.44	183.25	11.77	PASS
5016.00†	4685.81	-923.07	-987.76	4664.81	4685.81	1237.51	-1280.15	121.48	2180.28	186.01	11.76	PASS
5116.00†	4772.10	-957.57	-1024.68	4751.10	4772.10	1237.51	-1280.15	122.49	2209.90	188.75	11.74	PASS
5216.00†	4858.40	-992.07	-1061.60	4837.40	4858.40	1237.51	-1280.15	123.48	2240.27	191.47	11.73	PASS
5316.00†	4944.69	-1026.58	-1098.52	4923.69	4944.69	1237.51	-1280.15	124.44	2271.36	194.17	11.73	PASS
5416.00†	5030.98	-1061.08	-1135.44	5009.98	5030.98	1237.51	-1280.15	125.39	2303.14	196.86	11.73	PASS
5516.00†	5117.28	-1095.58	-1172.36	5096.28	5117.28	1237.51	-1280.15	126.31	2335.58	199.52	11.74	PASS
5616.00†	5203.57	-1130.08	-1209.28	5182.57	5203.57	1237.51	-1280.15	127.21	2368.66	202.17	11.75	PASS
5716.00†	5289.87	-1164.58	-1246.20	5268.87	5289.87	1237.51	-1280.15	128.09	2402.34	204.81	11.76	PASS
5816.00†	5376.16	-1199.08	-1283.12	5355.16	5376.16	1237.51	-1280.15	128.95	2436.60	207.42	11.78	PASS
5916.00†	5462.45	-1233.59	-1320.04	5441.45	5462.45	1237.51	-1280.15	129.79	2471.42	210.02	11.80	PASS
6016.00†	5548.75	-1268.09	-1356.96	5527.75	5548.75	1237.51	-1280.15	130.61	2506.78	212.61	11.82	PASS
6116.00†	5635.04	-1302.59	-1393.87	5614.04	5635.04	1237.51	-1280.15	131.41	2542.65	215.18	11.85	PASS
6216.00†	5721.33	-1337.09	-1430.79	5700.33	5721.33	1237.51	-1280.15	132.19	2579.01	217.74	11.87	PASS
6316.00†	5807.63	-1371.59	-1467.71	5786.63	5807.63	1237.51	-1280.15	132.95	2615.84	220.28	11.90	PASS
6416.00†	5893.92	-1406.09	-1504.63	5872.92	5893.92	1237.51	-1280.15	133.70	2653.12	222.82	11.94	PASS
6516.00†	5980.22	-1440.59	-1541.55	5959.22	5980.22	1237.51	-1280.15	134.42	2690.83	225.34	11.97	PASS
6616.00†	6066.51	-1475.10	-1578.47	6045.51	6066.51	1237.51	-1280.15	135.13	2728.96	227.84	12.01	PASS
6716.00†	6152.80	-1509.60	-1615.39	6131.80	6152.80	1237.51	-1280.15	135.82	2767.49	230.34	12.04	PASS
6816.00†	6239.10	-1544.10	-1652.31	6218.10	6239.10	1237.51	-1280.15	136.50	2806.40	232.83	12.08	PASS
6916.00†	6325.39	-1578.60	-1689.23	6304.39	6325.39	1237.51	-1280.15	137.15	2845.67	235.31	12.12	PASS
7016.00†	6411.68	-1613.10	-1726.15	6390.68	6411.68	1237.51	-1280.15	137.79	2885.29	237.78	12.16	PASS
7116.00†	6497.98	-1647.60	-1763.07	6476.98	6497.98	1237.51	-1280.15	138.42	2925.25	240.24	12.20	PASS
7216.00†	6584.27	-1682.10	-1799.99	6563.27	6584.27	1237.51	-1280.15	139.03	2965.54	242.70	12.25	PASS
7316.00†	6670.57	-1716.61	-1836.91	6649.57	6670.57	1237.51	-1280.15	139.63	3006.13	245.14	12.29	PASS
7416.00†	6756.86	-1751.11	-1873.83	6735.86	6756.86	1237.51	-1280.15	140.21	3047.02	247.58	12.33	PASS
7516.00†	6843.15	-1785.61	-1910.75	6822.15	6843.15	1237.51	-1280.15	140.78	3088.19	250.02	12.38	PASS
7616.00†	6929.45	-1820.11	-1947.66	6908.45	6929.45	1237.51	-1280.15	141.34	3129.64	252.44	12.42	PASS
7716.00†	7015.74	-1854.61	-1984.58	6994.74	7015.74	1237.51	-1280.15	141.88	3171.35	254.87	12.47	PASS
7816.00†	7102.03	-1889.11	-2021.50	7081.03	7102.03	1237.51	-1280.15	142.41	3213.32	257.28	12.52	PASS



CLEARANCE DATA - Offset Wellbore: SELTZER FARMS #A 4 AWB Offset Wellpath: SELTZER FARMS #A 4 AWP												
Facility: SEC.03-T01S-R67W			Slot: SLOT#03 EX SELTZER FARMS #A 4 (1760'FNL & 1780'FWL, SEC.03,PR)				Well: SELTZER FARMS #A 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
7916.00†	7188.33	-1923.61	-2058.42	7167.33	7188.33	1237.51	-1280.15	142.92	3255.52	259.69	12.56	PASS
8016.00†	7274.62	-1958.12	-2095.34	7253.62	7274.62	1237.51	-1280.15	143.43	3297.97	262.10	12.61	PASS
8085.19	7334.33	-1981.99	-2120.89	7313.33	7334.33	1237.51	-1280.15	143.77	3327.47	263.76	12.64	PASS
8116.00†	7360.64	-1993.39	-2132.14	7339.64	7360.64	1237.51	-1280.15	148.17	3341.35	264.50	12.66	PASS
8216.00†	7441.54	-2040.68	-2166.69	7420.54	7441.54	1237.51	-1280.15	159.87	3395.96	266.86	12.75	PASS
8316.00†	7513.69	-2102.53	-2197.41	7492.69	7513.69	1237.51	-1280.15	169.30	3463.71	269.17	12.89	PASS
8365.84†	7545.69	-2138.22	-2211.00	7524.69	7545.69	1237.51	-1280.15	173.81	3501.72	305.51	11.48	PASS
8416.00†	7574.90	-2177.06	-2223.37	7553.90	7574.90	1237.51	-1280.15	178.59	3542.45	271.06	13.09	PASS
8516.00†	7623.30	-2261.99	-2243.79	7602.30	7623.30	1237.51	-1280.15	-169.60	3629.76	272.49	13.35	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER FARMS #A 4 AWB Offset Wellpath: SELTZER FARMS #A 4 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#03 EX SELTZER FARMS #A 4 (1760'FNL & 1780'FWL, SEC.03,PR) Well: SELTZER FARMS #A 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
8616.00†	7657.43	-2354.77	-2258.05	7636.43	7657.43	1237.51	-1280.15	-150.19	3723.00	273.44	13.64	PASS
8716.00†	7676.26	-2452.55	-2265.70	7655.26	7676.26	1237.51	-1280.15	-116.26	3819.41	273.90	13.97	PASS
8784.36	7680.00	-2520.76	-2267.01	7659.00	7680.00	1237.51	-1280.15	-90.00	3885.68	273.94	14.21	PASS
8816.00†	7680.00	-2552.39	-2266.87	7659.00	7680.00	1237.51	-1280.15	-90.00	3916.25	273.91	14.33	PASS
8916.00†	7680.00	-2652.39	-2266.43	7659.00	7680.00	1237.51	-1280.15	-90.00	4012.99	273.82	14.68	PASS
9016.00†	7680.00	-2752.39	-2265.99	7659.00	7680.00	1237.51	-1280.15	-90.00	4109.89	273.74	15.04	PASS
9116.00†	7680.00	-2852.39	-2265.55	7659.00	7680.00	1237.51	-1280.15	-90.00	4206.94	273.66	15.40	PASS
9216.00†	7680.00	-2952.39	-2265.11	7659.00	7680.00	1237.51	-1280.15	-90.00	4304.12	273.58	15.76	PASS
9316.00†	7680.00	-3052.39	-2264.67	7659.00	7680.00	1237.51	-1280.15	-90.00	4401.43	273.51	16.12	PASS
9416.00†	7680.00	-3152.39	-2264.23	7659.00	7680.00	1237.51	-1280.15	-90.00	4498.85	273.45	16.49	PASS
9516.00†	7680.00	-3252.39	-2263.79	7659.00	7680.00	1237.51	-1280.15	-90.00	4596.38	273.39	16.85	PASS
9616.00†	7680.00	-3352.39	-2263.34	7659.00	7680.00	1237.51	-1280.15	-90.00	4694.02	273.34	17.21	PASS
9716.00†	7680.00	-3452.39	-2262.90	7659.00	7680.00	1237.51	-1280.15	-90.00	4791.76	273.28	17.57	PASS
9816.00†	7680.00	-3552.38	-2262.46	7659.00	7680.00	1237.51	-1280.15	-90.00	4889.59	273.24	17.93	PASS
9916.00†	7680.00	-3652.38	-2262.02	7659.00	7680.00	1237.51	-1280.15	-90.00	4987.50	273.19	18.29	PASS
10016.00†	7680.00	-3752.38	-2261.58	7659.00	7680.00	1237.51	-1280.15	-90.00	5085.50	273.15	18.66	PASS
10116.00†	7680.00	-3852.38	-2261.14	7659.00	7680.00	1237.51	-1280.15	-90.00	5183.57	273.12	19.02	PASS
10216.00†	7680.00	-3952.38	-2260.70	7659.00	7680.00	1237.51	-1280.15	-90.00	5281.71	273.08	19.38	PASS
10316.00†	7680.00	-4052.38	-2260.26	7659.00	7680.00	1237.51	-1280.15	-90.00	5379.92	273.06	19.74	PASS
10416.00†	7680.00	-4152.38	-2259.82	7659.00	7680.00	1237.51	-1280.15	-90.00	5478.20	273.03	20.11	PASS
10516.00†	7680.00	-4252.38	-2259.38	7659.00	7680.00	1237.51	-1280.15	-90.00	5576.54	273.01	20.47	PASS
10616.00†	7680.00	-4352.38	-2258.94	7659.00	7680.00	1237.51	-1280.15	-90.00	5674.94	272.99	20.83	PASS
10716.00†	7680.00	-4452.38	-2258.50	7659.00	7680.00	1237.51	-1280.15	-90.00	5773.39	272.97	21.19	PASS
10816.00†	7680.00	-4552.37	-2258.06	7659.00	7680.00	1237.51	-1280.15	-90.00	5871.89	272.96	21.56	PASS
10916.00†	7680.00	-4652.37	-2257.61	7659.00	7680.00	1237.51	-1280.15	-90.00	5970.45	272.94	21.92	PASS
11016.00†	7680.00	-4752.37	-2257.17	7659.00	7680.00	1237.51	-1280.15	-90.00	6069.05	272.93	22.28	PASS
11116.00†	7680.00	-4852.37	-2256.73	7659.00	7680.00	1237.51	-1280.15	-90.00	6167.69	272.93	22.64	PASS
11216.00†	7680.00	-4952.37	-2256.29	7659.00	7680.00	1237.51	-1280.15	-90.00	6266.38	272.92	23.01	PASS
11316.00†	7680.00	-5052.37	-2255.85	7659.00	7680.00	1237.51	-1280.15	-90.00	6365.11	272.92	23.37	PASS
11416.00†	7680.00	-5152.37	-2255.41	7659.00	7680.00	1237.51	-1280.15	-90.00	6463.88	272.92	23.73	PASS
11516.00†	7680.00	-5252.37	-2254.97	7659.00	7680.00	1237.51	-1280.15	-90.00	6562.69	272.93	24.09	PASS
11616.00†	7680.00	-5352.37	-2254.53	7659.00	7680.00	1237.51	-1280.15	-90.00	6661.53	272.93	24.46	PASS
11716.00†	7680.00	-5452.37	-2254.09	7659.00	7680.00	1237.51	-1280.15	-90.00	6760.40	272.94	24.82	PASS
11816.00†	7680.00	-5552.36	-2253.65	7659.00	7680.00	1237.51	-1280.15	-90.00	6859.31	272.95	25.18	PASS
11916.00†	7680.00	-5652.36	-2253.21	7659.00	7680.00	1237.51	-1280.15	-90.00	6958.25	272.96	25.54	PASS
12016.00†	7680.00	-5752.36	-2252.77	7659.00	7680.00	1237.51	-1280.15	-90.00	7057.22	272.97	25.91	PASS

CLEARANCE DATA - Offset Wellbore: SELTZER FARMS #A 4 AWB Offset Wellpath: SELTZER FARMS #A 4 AWP												
Facility: SEC.03-T01S-R67W			Slot: SLOT#03 EX SELTZER FARMS #A 4 (1760'FNL & 1780'FWL, SEC.03,PR)				Well: SELTZER FARMS #A 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
12116.00†	7680.00	-5852.36	-2252.32	7659.00	7680.00	1237.51	-1280.15	-90.00	7156.22	272.99	26.27	PASS
12216.00†	7680.00	-5952.36	-2251.88	7659.00	7680.00	1237.51	-1280.15	-90.00	7255.24	273.01	26.63	PASS
12316.00†	7680.00	-6052.36	-2251.44	7659.00	7680.00	1237.51	-1280.15	-90.00	7354.30	273.03	26.99	PASS
12416.00†	7680.00	-6152.36	-2251.00	7659.00	7680.00	1237.51	-1280.15	-90.00	7453.37	273.05	27.35	PASS
12516.00†	7680.00	-6252.36	-2250.56	7659.00	7680.00	1237.51	-1280.15	-90.00	7552.48	273.07	27.71	PASS
12616.00†	7680.00	-6352.36	-2250.12	7659.00	7680.00	1237.51	-1280.15	-90.00	7651.60	273.10	28.08	PASS
12716.00†	7680.00	-6452.36	-2249.68	7659.00	7680.00	1237.51	-1280.15	-90.00	7750.75	273.12	28.44	PASS
12816.00†	7680.00	-6552.36	-2249.24	7659.00	7680.00	1237.51	-1280.15	-90.00	7849.92	273.15	28.80	PASS
12916.00†	7680.00	-6652.35	-2248.80	7659.00	7680.00	1237.51	-1280.15	-90.00	7949.11	273.18	29.16	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER FARMS #A 4 AWB Offset Wellpath: SELTZER FARMS #A 4 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#03 EX SELTZER FARMS #A 4 (1760'FNL & 1780'FWL, SEC.03,PR) Well: SELTZER FARMS #A 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
13016.00†	7680.00	-6752.35	-2248.36	7659.00	7680.00	1237.51	-1280.15	-90.00	8048.32	273.21	29.52	PASS
13116.00†	7680.00	-6852.35	-2247.92	7659.00	7680.00	1237.51	-1280.15	-90.00	8147.55	273.25	29.88	PASS
13144.91	7680.00	-6881.26	-2247.79	7659.00	7680.00	1237.51	-1280.15	-90.00	8176.24	273.26	29.98	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: SELTZER FARMS #A 4 AWB Offset Wellpath: SELTZER FARMS #A 4 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: SELTZER FARMS #A 4 AWB Offset Wellpath: SELTZER FARMS #A 4 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	1098.00	1098.00	5.00	1103.00	754.41	-780.36	754.41	-780.36
8.625in Casing Surface	0.00	1098.00	1098.00	5.00	1103.00	754.41	-780.36	754.41	-780.36
7.875in Open Hole	1098.00	8430.00	7332.00	1103.00	8435.00	754.41	-780.36	754.41	-780.36
5.5in Casing Production	0.00	8430.00	8430.00	5.00	8435.00	754.41	-780.36	754.41	-780.36

## WELLPATH COMPOSITION - Offset Wellbore: SELTZER FARMS #A 4 AWB Offset Wellpath: SELTZER FARMS #A 4 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8430.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <8430>	SELTZER FARMS #A 4 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: SELTZER FARMS #A 4 AWB Offset Wellpath: SELTZER FARMS #A 4 AWP

MD Reference: Rig on SLOT#03 EX SELTZER FARMS #A 4 (1760'FNL & 1780'FWL, SEC.03) (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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WEIGANDT #43-3 AWB Offset Wellpath: WEIGANDT #43-3 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#04 EX WEIGANDT #43-3 (1640'FSL & 990'FEL, SEC.03.PR) Well: WEIGANDT #43-3 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
16.00	16.00	0.00	0.00	-8.00	16.00	-368.60	1288.92	105.96	1340.59	25.57	54.45	PASS
116.00†	116.00	0.00	0.00	92.00	116.00	-368.60	1288.92	105.96	1340.59	62.35	21.81	PASS
216.00†	216.00	0.00	0.00	192.00	216.00	-368.60	1288.92	105.96	1340.59	64.60	21.04	PASS
316.00†	316.00	0.00	0.00	292.00	316.00	-368.60	1288.92	105.96	1340.59	66.84	20.32	PASS
416.00†	416.00	0.00	0.00	392.00	416.00	-368.60	1288.92	105.96	1340.59	68.92	19.65	PASS
516.00†	516.00	0.00	0.00	492.00	516.00	-368.60	1288.92	105.96	1340.59	71.18	19.02	PASS
616.00†	616.00	0.00	0.00	592.00	616.00	-368.60	1288.92	105.96	1340.59	73.44	18.43	PASS
716.00†	716.00	0.00	0.00	692.00	716.00	-368.60	1288.92	105.96	1340.59	75.70	17.88	PASS
816.00†	816.00	0.00	0.00	792.00	816.00	-368.60	1288.92	105.96	1340.59	77.76	17.35	PASS
916.00†	916.00	0.00	0.00	892.00	916.00	-368.60	1288.92	105.96	1340.59	80.04	16.86	PASS
1016.00†	1016.00	0.00	0.00	992.00	1016.00	-368.60	1288.92	105.96	1340.59	82.31	16.39	PASS
1116.00†	1116.00	0.00	0.00	1092.00	1116.00	-368.60	1288.92	105.96	1340.59	84.59	15.94	PASS
1216.00†	1216.00	0.00	0.00	1192.00	1216.00	-368.60	1288.92	105.96	1340.59	86.87	15.52	PASS
1316.00†	1316.00	0.00	0.00	1292.00	1316.00	-368.60	1288.92	105.96	1340.59	89.16	15.12	PASS
1416.00†	1416.00	0.00	0.00	1392.00	1416.00	-368.60	1288.92	105.96	1340.59	91.45	14.74	PASS
1516.00†	1516.00	0.00	0.00	1492.00	1516.00	-368.60	1288.92	105.96	1340.59	93.75	14.38	PASS
1600.00	1600.00	0.00	0.00	1576.00	1600.00	-368.60	1288.92	105.96	1340.59	95.68	14.09	PASS
1616.00†	1616.00	-0.03	-0.03	1592.00	1616.00	-368.60	1288.92	-120.98	1340.61	96.05	14.03	PASS
1716.00†	1715.97	-1.60	-1.72	1691.97	1715.97	-368.60	1288.92	-121.05	1341.80	98.35	13.71	PASS
1816.00†	1815.80	-5.56	-5.95	1791.80	1815.80	-368.60	1288.92	-121.21	1344.80	100.67	13.42	PASS
1916.00†	1915.36	-11.89	-12.72	1891.36	1915.36	-368.60	1288.92	-121.46	1349.63	103.00	13.17	PASS
2016.00†	2014.54	-20.59	-22.03	1990.54	2014.54	-368.60	1288.92	-121.80	1356.35	105.32	12.94	PASS
2116.00†	2113.21	-31.64	-33.86	2089.21	2113.21	-368.60	1288.92	-122.23	1365.02	107.64	12.74	PASS
2216.00†	2211.26	-45.04	-48.20	2187.26	2211.26	-368.60	1288.92	-122.73	1375.71	109.97	12.57	PASS
2316.00†	2308.57	-60.77	-65.03	2284.57	2308.57	-368.60	1288.92	-123.30	1388.50	112.30	12.42	PASS
2416.00†	2405.01	-78.81	-84.34	2381.01	2405.01	-368.60	1288.92	-123.92	1403.50	114.64	12.30	PASS
2516.00†	2500.47	-99.14	-106.09	2476.47	2500.47	-368.60	1288.92	-124.60	1420.79	117.00	12.20	PASS
2616.00†	2594.84	-121.73	-130.26	2570.84	2594.84	-368.60	1288.92	-125.32	1440.49	119.36	12.12	PASS
2716.00†	2687.99	-146.55	-156.82	2663.99	2687.99	-368.60	1288.92	-126.06	1462.69	121.73	12.06	PASS
2816.00†	2779.81	-173.58	-185.74	2755.81	2779.81	-368.60	1288.92	-126.82	1487.50	124.12	12.03	PASS
2916.00†	2870.20	-202.78	-216.99	2846.20	2870.20	-368.60	1288.92	-127.59	1515.01	126.52	12.02	PASS
2928.08†	2881.02	-206.45	-220.92	2857.02	2881.02	-368.60	1288.92	-127.68	1518.52	126.82	12.02	PASS
3016.00†	2959.04	-234.11	-250.52	2935.04	2959.04	-368.60	1288.92	-128.35	1545.30	128.93	12.03	PASS
3116.00†	3046.23	-267.54	-286.29	3022.23	3046.23	-368.60	1288.92	-129.10	1578.45	131.35	12.06	PASS
3117.60	3047.61	-268.10	-286.88	3023.61	3047.61	-368.60	1288.92	-129.11	1579.00	131.39	12.06	PASS
3216.00†	3132.52	-302.05	-323.21	3108.52	3132.52	-368.60	1288.92	-130.37	1613.50	133.75	12.11	PASS

CLEARANCE DATA - Offset Wellbore: WEIGANDT #43-3 AWB    Offset Wellpath: WEIGANDT #43-3 AWP												
Facility: SEC.03-T01S-R67W			Slot: SLOT#04 EX WEIGANDT #43-3 (1640°FSL & 990°FEL, SEC.03,PR)			Well: WEIGANDT #43-3		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
3316.00†	3218.82	-336.55	-360.13	3194.82	3218.82	-368.60	1288.92	-131.61	1649.36	136.18	12.16	PASS
3416.00†	3305.11	-371.05	-397.05	3281.11	3305.11	-368.60	1288.92	-132.80	1685.97	138.61	12.21	PASS
3516.00†	3391.40	-405.55	-433.97	3367.40	3391.40	-368.60	1288.92	-133.95	1723.29	141.05	12.26	PASS
3616.00†	3477.70	-440.05	-470.89	3453.70	3477.70	-368.60	1288.92	-135.06	1761.26	143.50	12.32	PASS
3716.00†	3563.99	-474.55	-507.81	3539.99	3563.99	-368.60	1288.92	-136.12	1799.85	145.95	12.37	PASS
3816.00†	3650.28	-509.05	-544.73	3626.28	3650.28	-368.60	1288.92	-137.15	1839.02	148.40	12.43	PASS
3916.00†	3736.58	-543.56	-581.65	3712.58	3736.58	-368.60	1288.92	-138.13	1878.73	150.85	12.50	PASS
4016.00†	3822.87	-578.06	-618.57	3798.87	3822.87	-368.60	1288.92	-139.08	1918.95	153.31	12.56	PASS
4116.00†	3909.17	-612.56	-655.49	3885.17	3909.17	-368.60	1288.92	-140.00	1959.65	155.76	12.62	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WEIGANDT #43-3 AWB Offset Wellpath: WEIGANDT #43-3 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#04 EX WEIGANDT #43-3 (1640'FSL & 990'FEL, SEC.03,PR) Well: WEIGANDT #43-3 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
4216.00†	3995.46	-647.06	-692.41	3971.46	3995.46	-368.60	1288.92	-140.88	2000.80	158.21	12.69	PASS
4316.00†	4081.75	-681.56	-729.33	4057.75	4081.75	-368.60	1288.92	-141.73	2042.36	160.65	12.75	PASS
4416.00†	4168.05	-716.06	-766.25	4144.05	4168.05	-368.60	1288.92	-142.55	2084.33	163.10	12.82	PASS
4516.00†	4254.34	-750.56	-803.16	4230.34	4254.34	-368.60	1288.92	-143.34	2126.67	165.54	12.89	PASS
4616.00†	4340.63	-785.07	-840.08	4316.63	4340.63	-368.60	1288.92	-144.10	2169.35	167.97	12.95	PASS
4716.00†	4426.93	-819.57	-877.00	4402.93	4426.93	-368.60	1288.92	-144.83	2212.37	170.40	13.02	PASS
4816.00†	4513.22	-854.07	-913.92	4489.22	4513.22	-368.60	1288.92	-145.54	2255.70	172.83	13.09	PASS
4916.00†	4599.52	-888.57	-950.84	4575.52	4599.52	-368.60	1288.92	-146.23	2299.32	175.26	13.16	PASS
5016.00†	4685.81	-923.07	-987.76	4661.81	4685.81	-368.60	1288.92	-146.89	2343.23	177.68	13.22	PASS
5116.00†	4772.10	-957.57	-1024.68	4748.10	4772.10	-368.60	1288.92	-147.52	2387.39	180.10	13.29	PASS
5216.00†	4858.40	-992.07	-1061.60	4834.40	4858.40	-368.60	1288.92	-148.14	2431.80	182.52	13.36	PASS
5316.00†	4944.69	-1026.58	-1098.52	4920.69	4944.69	-368.60	1288.92	-148.73	2476.45	184.94	13.43	PASS
5416.00†	5030.98	-1061.08	-1135.44	5006.98	5030.98	-368.60	1288.92	-149.31	2521.31	187.35	13.49	PASS
5516.00†	5117.28	-1095.58	-1172.36	5093.28	5117.28	-368.60	1288.92	-149.87	2566.39	189.76	13.56	PASS
5616.00†	5203.57	-1130.08	-1209.28	5179.57	5203.57	-368.60	1288.92	-150.41	2611.67	192.17	13.63	PASS
5716.00†	5289.87	-1164.58	-1246.20	5265.87	5289.87	-368.60	1288.92	-150.93	2657.14	194.57	13.69	PASS
5816.00†	5376.16	-1199.08	-1283.12	5352.16	5376.16	-368.60	1288.92	-151.43	2702.79	196.98	13.76	PASS
5916.00†	5462.45	-1233.59	-1320.04	5438.45	5462.45	-368.60	1288.92	-151.92	2748.61	199.38	13.82	PASS
6016.00†	5548.75	-1268.09	-1356.96	5524.75	5548.75	-368.60	1288.92	-152.40	2794.59	201.78	13.88	PASS
6116.00†	5635.04	-1302.59	-1393.87	5611.04	5635.04	-368.60	1288.92	-152.86	2840.72	204.18	13.95	PASS
6216.00†	5721.33	-1337.09	-1430.79	5697.33	5721.33	-368.60	1288.92	-153.30	2887.00	206.58	14.01	PASS
6316.00†	5807.63	-1371.59	-1467.71	5783.63	5807.63	-368.60	1288.92	-153.73	2933.43	208.97	14.07	PASS
6416.00†	5893.92	-1406.09	-1504.63	5869.92	5893.92	-368.60	1288.92	-154.15	2979.98	211.37	14.13	PASS
6516.00†	5980.22	-1440.59	-1541.55	5956.22	5980.22	-368.60	1288.92	-154.56	3026.67	213.77	14.19	PASS
6616.00†	6066.51	-1475.10	-1578.47	6042.51	6066.51	-368.60	1288.92	-154.96	3073.47	216.16	14.25	PASS
6716.00†	6152.80	-1509.60	-1615.39	6128.80	6152.80	-368.60	1288.92	-155.34	3120.40	218.56	14.31	PASS
6816.00†	6239.10	-1544.10	-1652.31	6215.10	6239.10	-368.60	1288.92	-155.71	3167.43	220.95	14.37	PASS
6916.00†	6325.39	-1578.60	-1689.23	6301.39	6325.39	-368.60	1288.92	-156.07	3214.57	223.35	14.43	PASS
7016.00†	6411.68	-1613.10	-1726.15	6387.68	6411.68	-368.60	1288.92	-156.43	3261.81	225.74	14.48	PASS
7116.00†	6497.98	-1647.60	-1763.07	6473.98	6497.98	-368.60	1288.92	-156.77	3309.15	228.14	14.54	PASS
7216.00†	6584.27	-1682.10	-1799.99	6560.27	6584.27	-368.60	1288.92	-157.10	3356.58	230.53	14.59	PASS
7316.00†	6670.57	-1716.61	-1836.91	6646.57	6670.57	-368.60	1288.92	-157.43	3404.10	232.93	14.65	PASS
7416.00†	6756.86	-1751.11	-1873.83	6732.86	6756.86	-368.60	1288.92	-157.74	3451.70	235.32	14.70	PASS
7516.00†	6843.15	-1785.61	-1910.75	6819.15	6843.15	-368.60	1288.92	-158.05	3499.39	237.72	14.75	PASS
7616.00†	6929.45	-1820.11	-1947.66	6905.45	6929.45	-368.60	1288.92	-158.35	3547.16	240.11	14.80	PASS
7716.00†	7015.74	-1854.61	-1984.58	6991.74	7015.74	-368.60	1288.92	-158.64	3595.00	242.51	14.86	PASS



CLEARANCE DATA - Offset Wellbore: WEIGANDT #43-3 AWB    Offset Wellpath: WEIGANDT #43-3 AWP												
Facility: SEC.03-T01S-R67W    Slot: SLOT#04 EX WEIGANDT #43-3 (1640'FSL & 990'FEL, SEC.03,PR)    Well: WEIGANDT #43-3    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
7816.00†	7102.03	-1889.11	-2021.50	7078.03	7102.03	-368.60	1288.92	-158.93	3642.92	244.91	14.91	PASS
7916.00†	7188.33	-1923.61	-2058.42	7164.33	7188.33	-368.60	1288.92	-159.21	3690.90	247.31	14.95	PASS
8016.00†	7274.62	-1958.12	-2095.34	7250.62	7274.62	-368.60	1288.92	-159.48	3738.95	249.71	15.00	PASS
8085.19	7334.33	-1981.99	-2120.89	7310.33	7334.33	-368.60	1288.92	-159.66	3772.24	251.37	15.04	PASS
8116.00†	7360.64	-1993.39	-2132.14	7336.64	7360.64	-368.60	1288.92	-154.26	3787.29	252.10	15.05	PASS
8216.00†	7441.54	-2040.68	-2166.69	7417.54	7441.54	-368.60	1288.92	-139.50	3838.89	254.45	15.12	PASS
8316.00†	7513.69	-2102.53	-2197.41	7489.69	7513.69	-368.60	1288.92	-127.65	3893.71	256.64	15.20	PASS
8416.00†	7574.90	-2177.06	-2223.37	7550.90	7574.90	-368.60	1288.92	-117.57	3950.53	258.58	15.31	PASS
8516.00†	7623.30	-2261.99	-2243.79	7599.30	7623.30	-368.60	1288.92	-108.71	4008.11	260.22	15.43	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WEIGANDT #43-3 AWB Offset Wellpath: WEIGANDT #43-3 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#04 EX WEIGANDT #43-3 (1640'FSL & 990'FEL, SEC.03.PR) Well: WEIGANDT #43-3 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
8616.00†	7657.43	-2354.77	-2258.05	7633.43	7657.43	-368.60	1288.92	-100.87	4065.19	261.49	15.58	PASS
8716.00†	7676.26	-2452.55	-2265.70	7652.26	7676.26	-368.60	1288.92	-94.04	4120.46	262.37	15.74	PASS
8784.36	7680.00	-2520.76	-2267.01	7656.00	7680.00	-368.60	1288.92	-90.00	4156.49	262.73	15.85	PASS
8816.00†	7680.00	-2552.39	-2266.87	7656.00	7680.00	-368.60	1288.92	-90.00	4172.84	262.83	15.91	PASS
8916.00†	7680.00	-2652.39	-2266.43	7656.00	7680.00	-368.60	1288.92	-90.00	4225.66	263.17	16.09	PASS
9016.00†	7680.00	-2752.39	-2265.99	7656.00	7680.00	-368.60	1288.92	-90.00	4280.16	263.50	16.28	PASS
9116.00†	7680.00	-2852.39	-2265.55	7656.00	7680.00	-368.60	1288.92	-90.00	4336.29	263.82	16.47	PASS
9216.00†	7680.00	-2952.39	-2265.11	7656.00	7680.00	-368.60	1288.92	-90.00	4393.98	264.14	16.67	PASS
9316.00†	7680.00	-3052.39	-2264.67	7656.00	7680.00	-368.60	1288.92	-90.00	4453.16	264.46	16.87	PASS
9416.00†	7680.00	-3152.39	-2264.23	7656.00	7680.00	-368.60	1288.92	-90.00	4513.79	264.76	17.08	PASS
9516.00†	7680.00	-3252.39	-2263.79	7656.00	7680.00	-368.60	1288.92	-90.00	4575.80	265.06	17.30	PASS
9616.00†	7680.00	-3352.39	-2263.34	7656.00	7680.00	-368.60	1288.92	-90.00	4639.13	265.35	17.52	PASS
9716.00†	7680.00	-3452.39	-2262.90	7656.00	7680.00	-368.60	1288.92	-90.00	4703.74	265.64	17.74	PASS
9816.00†	7680.00	-3552.38	-2262.46	7656.00	7680.00	-368.60	1288.92	-90.00	4769.57	265.92	17.97	PASS
9916.00†	7680.00	-3652.38	-2262.02	7656.00	7680.00	-368.60	1288.92	-90.00	4836.57	266.19	18.20	PASS
10016.00†	7680.00	-3752.38	-2261.58	7656.00	7680.00	-368.60	1288.92	-90.00	4904.69	266.45	18.44	PASS
10116.00†	7680.00	-3852.38	-2261.14	7656.00	7680.00	-368.60	1288.92	-90.00	4973.89	266.71	18.69	PASS
10216.00†	7680.00	-3952.38	-2260.70	7656.00	7680.00	-368.60	1288.92	-90.00	5044.13	266.96	18.93	PASS
10316.00†	7680.00	-4052.38	-2260.26	7656.00	7680.00	-368.60	1288.92	-90.00	5115.36	267.20	19.18	PASS
10416.00†	7680.00	-4152.38	-2259.82	7656.00	7680.00	-368.60	1288.92	-90.00	5187.53	267.43	19.43	PASS
10516.00†	7680.00	-4252.38	-2259.38	7656.00	7680.00	-368.60	1288.92	-90.00	5260.62	267.66	19.69	PASS
10616.00†	7680.00	-4352.38	-2258.94	7656.00	7680.00	-368.60	1288.92	-90.00	5334.58	267.89	19.95	PASS
10716.00†	7680.00	-4452.38	-2258.50	7656.00	7680.00	-368.60	1288.92	-90.00	5409.37	268.10	20.22	PASS
10816.00†	7680.00	-4552.37	-2258.06	7656.00	7680.00	-368.60	1288.92	-90.00	5484.98	268.32	20.48	PASS
10916.00†	7680.00	-4652.37	-2257.61	7656.00	7680.00	-368.60	1288.92	-90.00	5561.35	268.52	20.75	PASS
11016.00†	7680.00	-4752.37	-2257.17	7656.00	7680.00	-368.60	1288.92	-90.00	5638.46	268.72	21.02	PASS
11116.00†	7680.00	-4852.37	-2256.73	7656.00	7680.00	-368.60	1288.92	-90.00	5716.28	268.92	21.30	PASS
11216.00†	7680.00	-4952.37	-2256.29	7656.00	7680.00	-368.60	1288.92	-90.00	5794.78	269.11	21.57	PASS
11316.00†	7680.00	-5052.37	-2255.85	7656.00	7680.00	-368.60	1288.92	-90.00	5873.93	269.30	21.85	PASS
11416.00†	7680.00	-5152.37	-2255.41	7656.00	7680.00	-368.60	1288.92	-90.00	5953.71	269.48	22.14	PASS
11516.00†	7680.00	-5252.37	-2254.97	7656.00	7680.00	-368.60	1288.92	-90.00	6034.09	269.65	22.42	PASS
11616.00†	7680.00	-5352.37	-2254.53	7656.00	7680.00	-368.60	1288.92	-90.00	6115.06	269.83	22.71	PASS
11716.00†	7680.00	-5452.37	-2254.09	7656.00	7680.00	-368.60	1288.92	-90.00	6196.57	270.00	22.99	PASS
11816.00†	7680.00	-5552.36	-2253.65	7656.00	7680.00	-368.60	1288.92	-90.00	6278.63	270.16	23.28	PASS
11916.00†	7680.00	-5652.36	-2253.21	7656.00	7680.00	-368.60	1288.92	-90.00	6361.19	270.32	23.58	PASS
12016.00†	7680.00	-5752.36	-2252.77	7656.00	7680.00	-368.60	1288.92	-90.00	6444.25	270.48	23.87	PASS

CLEARANCE DATA - Offset Wellbore: WEIGANDT #43-3 AWB    Offset Wellpath: WEIGANDT #43-3 AWP												
Facility: SEC.03-T01S-R67W    Slot: SLOT#04 EX WEIGANDT #43-3 (1640'FSL & 990'FEL, SEC.03,PR)    Well: WEIGANDT #43-3    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
12116.00†	7680.00	-5852.36	-2252.32	7656.00	7680.00	-368.60	1288.92	-90.00	6527.79	270.64	24.17	PASS
12216.00†	7680.00	-5952.36	-2251.88	7656.00	7680.00	-368.60	1288.92	-90.00	6611.78	270.79	24.46	PASS
12316.00†	7680.00	-6052.36	-2251.44	7656.00	7680.00	-368.60	1288.92	-90.00	6696.21	270.94	24.76	PASS
12416.00†	7680.00	-6152.36	-2251.00	7656.00	7680.00	-368.60	1288.92	-90.00	6781.07	271.09	25.06	PASS
12516.00†	7680.00	-6252.36	-2250.56	7656.00	7680.00	-368.60	1288.92	-90.00	6866.33	271.23	25.36	PASS
12616.00†	7680.00	-6352.36	-2250.12	7656.00	7680.00	-368.60	1288.92	-90.00	6951.98	271.38	25.67	PASS
12716.00†	7680.00	-6452.36	-2249.68	7656.00	7680.00	-368.60	1288.92	-90.00	7038.02	271.52	25.97	PASS
12816.00†	7680.00	-6552.36	-2249.24	7656.00	7680.00	-368.60	1288.92	-90.00	7124.42	271.65	26.28	PASS
12916.00†	7680.00	-6652.35	-2248.80	7656.00	7680.00	-368.60	1288.92	-90.00	7211.17	271.79	26.58	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WEIGANDT #43-3 AWB Offset Wellpath: WEIGANDT #43-3 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#04 EX WEIGANDT #43-3 (1640'FSL & 990'FEL, SEC.03,PR) Well: WEIGANDT #43-3 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
13016.00†	7680.00	-6752.35	-2248.36	7656.00	7680.00	-368.60	1288.92	-90.00	7298.26	271.92	26.89	PASS
13116.00†	7680.00	-6852.35	-2247.92	7656.00	7680.00	-368.60	1288.92	-90.00	7385.67	272.05	27.20	PASS
13144.91	7680.00	-6881.26	-2247.79	7656.00	7680.00	-368.60	1288.92	-90.00	7411.01	272.09	27.29	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: WEIGANDT #43-3 AWB Offset Wellpath: WEIGANDT #43-3 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: WEIGANDT #43-3 AWB Offset Wellpath: WEIGANDT #43-3 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	321.00	321.00	8.00	329.00	-224.68	785.73	-224.68	785.73
8.625in Casing Surface	0.00	321.00	321.00	8.00	329.00	-224.68	785.73	-224.68	785.73
7.875in Open Hole	321.00	8406.00	8085.00	329.00	8414.00	-224.68	785.73	-224.68	785.73
4.5in Casing Production	0.00	8406.00	8406.00	8.00	8414.00	-224.68	785.73	-224.68	785.73

## WELLPATH COMPOSITION - Offset Wellbore: WEIGANDT #43-3 AWB Offset Wellpath: WEIGANDT #43-3 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8413.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <8413>	WEIGANDT #43-3 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: WEIGANDT #43-3 AWB Offset Wellpath: WEIGANDT #43-3 AWP

MD Reference: Rig on SLOT#04 EX WEIGANDT #43-3 (1640'FSL & 990'FEL, SEC.03) (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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: BONACQUISTI 10-1 AWB Offset Wellpath: BONACQUISTI 10-1 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#01 EX BONACQUISTI 10-1 (1980'FNL & 660'FEL, SEC.10, PA) Well: BONACQUISTI 10-1 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
16.00	16.00	0.00	0.00	-16.00	51.00	-4029.36	1630.69	157.97	4346.96	25.56	176.66	PASS
116.00†	116.00	0.00	0.00	49.00	116.00	-4029.36	1630.69	157.97	4346.82	62.61	70.50	PASS
216.00†	216.00	0.00	0.00	149.00	216.00	-4029.36	1630.69	157.97	4346.82	67.22	65.60	PASS
316.00†	316.00	0.00	0.00	249.00	316.00	-4029.36	1630.69	157.97	4346.82	71.82	61.33	PASS
416.00†	416.00	0.00	0.00	349.00	416.00	-4029.36	1630.69	157.97	4346.82	76.44	57.58	PASS
516.00†	516.00	0.00	0.00	449.00	516.00	-4029.36	1630.69	157.97	4346.82	81.05	54.26	PASS
616.00†	616.00	0.00	0.00	549.00	616.00	-4029.36	1630.69	157.97	4346.82	85.68	51.30	PASS
716.00†	716.00	0.00	0.00	649.00	716.00	-4029.36	1630.69	157.97	4346.82	90.30	48.65	PASS
816.00†	816.00	0.00	0.00	749.00	816.00	-4029.36	1630.69	157.97	4346.82	94.55	46.25	PASS
916.00†	916.00	0.00	0.00	849.00	916.00	-4029.36	1630.69	157.97	4346.82	99.18	44.08	PASS
1016.00†	1016.00	0.00	0.00	949.00	1016.00	-4029.36	1630.69	157.97	4346.82	103.82	42.10	PASS
1116.00†	1116.00	0.00	0.00	1049.00	1116.00	-4029.36	1630.69	157.97	4346.82	108.46	40.29	PASS
1216.00†	1216.00	0.00	0.00	1149.00	1216.00	-4029.36	1630.69	157.97	4346.82	113.10	38.63	PASS
1316.00†	1316.00	0.00	0.00	1249.00	1316.00	-4029.36	1630.69	157.97	4346.82	117.75	37.09	PASS
1416.00†	1416.00	0.00	0.00	1349.00	1416.00	-4029.36	1630.69	157.97	4346.82	122.40	35.68	PASS
1516.00†	1516.00	0.00	0.00	1449.00	1516.00	-4029.36	1630.69	157.97	4346.82	127.06	34.36	PASS
1600.00	1600.00	0.00	0.00	1533.00	1600.00	-4029.36	1630.69	157.97	4346.82	130.97	33.33	PASS
1616.00†	1616.00	-0.03	-0.03	1549.00	1616.00	-4029.36	1630.69	-68.97	4346.81	131.72	33.14	PASS
1716.00†	1715.97	-1.60	-1.72	1648.97	1715.97	-4029.36	1630.69	-69.02	4345.98	136.38	32.00	PASS
1816.00†	1815.80	-5.56	-5.95	1748.80	1815.80	-4029.36	1630.69	-69.13	4343.91	141.05	30.92	PASS
1916.00†	1915.36	-11.89	-12.72	1848.36	1915.36	-4029.36	1630.69	-69.30	4340.61	145.72	29.90	PASS
2016.00†	2014.54	-20.59	-22.03	1947.54	2014.54	-4029.36	1630.69	-69.54	4336.09	150.37	28.94	PASS
2116.00†	2113.21	-31.64	-33.86	2046.21	2113.21	-4029.36	1630.69	-69.85	4330.41	155.01	28.04	PASS
2216.00†	2211.26	-45.04	-48.20	2144.26	2211.26	-4029.36	1630.69	-70.22	4323.59	159.65	27.18	PASS
2316.00†	2308.57	-60.77	-65.03	2241.57	2308.57	-4029.36	1630.69	-70.65	4315.68	164.28	26.36	PASS
2416.00†	2405.01	-78.81	-84.34	2338.01	2405.01	-4029.36	1630.69	-71.14	4306.75	168.90	25.58	PASS
2516.00†	2500.47	-99.14	-106.09	2433.47	2500.47	-4029.36	1630.69	-71.69	4296.86	173.52	24.84	PASS
2616.00†	2594.84	-121.73	-130.26	2527.84	2594.84	-4029.36	1630.69	-72.29	4286.08	178.14	24.14	PASS
2716.00†	2687.99	-146.55	-156.82	2620.99	2687.99	-4029.36	1630.69	-72.95	4274.50	182.76	23.46	PASS
2816.00†	2779.81	-173.58	-185.74	2712.81	2779.81	-4029.36	1630.69	-73.66	4262.21	187.40	22.81	PASS
2916.00†	2870.20	-202.78	-216.99	2803.20	2870.20	-4029.36	1630.69	-74.41	4249.31	192.06	22.19	PASS
3016.00†	2959.04	-234.11	-250.52	2892.04	2959.04	-4029.36	1630.69	-75.21	4235.90	196.73	21.59	PASS
3116.00†	3046.23	-267.54	-286.29	2979.23	3046.23	-4029.36	1630.69	-76.05	4222.09	201.44	21.02	PASS
3117.60	3047.61	-268.10	-286.88	2980.61	3047.61	-4029.36	1630.69	-76.06	4221.87	201.52	21.01	PASS
3216.00†	3132.52	-302.05	-323.21	3065.52	3132.52	-4029.36	1630.69	-76.63	4208.39	206.19	20.46	PASS
3316.00†	3218.82	-336.55	-360.13	3151.82	3218.82	-4029.36	1630.69	-77.22	4195.26	211.02	19.93	PASS

CLEARANCE DATA - Offset Wellbore: BONACQUISTI 10-1 AWB Offset Wellpath: BONACQUISTI 10-1 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#01 EX BONACQUISTI 10-1 (1980'FNL & 660'FEL, SEC.10, PA)				Well: BONACQUISTI 10-1		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
3416.00†	3305.11	-371.05	-397.05	3238.11	3305.11	-4029.36	1630.69	-77.80	4182.70	215.91	19.42	PASS
3516.00†	3391.40	-405.55	-433.97	3324.40	3391.40	-4029.36	1630.69	-78.39	4170.71	220.87	18.93	PASS
3616.00†	3477.70	-440.05	-470.89	3410.70	3477.70	-4029.36	1630.69	-78.99	4159.30	225.88	18.46	PASS
3716.00†	3563.99	-474.55	-507.81	3496.99	3563.99	-4029.36	1630.69	-79.58	4148.47	230.94	18.01	PASS
3816.00†	3650.28	-509.05	-544.73	3583.28	3650.28	-4029.36	1630.69	-80.18	4138.23	236.05	17.57	PASS
3916.00†	3736.58	-543.56	-581.65	3669.58	3736.58	-4029.36	1630.69	-80.78	4128.59	241.20	17.16	PASS
4016.00†	3822.87	-578.06	-618.57	3755.87	3822.87	-4029.36	1630.69	-81.38	4119.54	246.40	16.76	PASS
4116.00†	3909.17	-612.56	-655.49	3842.17	3909.17	-4029.36	1630.69	-81.98	4111.10	251.62	16.37	PASS
4216.00†	3995.46	-647.06	-692.41	3928.46	3995.46	-4029.36	1630.69	-82.58	4103.26	256.89	16.01	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: BONACQUISTI 10-1 AWB Offset Wellpath: BONACQUISTI 10-1 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#01 EX BONACQUISTI 10-1 (1980'FNL & 660'FEL, SEC.10, PA) Well: BONACQUISTI 10-1 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
4316.00†	4081.75	-681.56	-729.33	4014.75	4081.75	-4029.36	1630.69	-83.19	4096.02	262.18	15.66	PASS
4416.00†	4168.05	-716.06	-766.25	4101.05	4168.05	-4029.36	1630.69	-83.80	4089.40	267.49	15.32	PASS
4516.00†	4254.34	-750.56	-803.16	4187.34	4254.34	-4029.36	1630.69	-84.41	4083.40	272.83	15.00	PASS
4616.00†	4340.63	-785.07	-840.08	4273.63	4340.63	-4029.36	1630.69	-85.02	4078.01	278.19	14.69	PASS
4716.00†	4426.93	-819.57	-877.00	4359.93	4426.93	-4029.36	1630.69	-85.63	4073.24	283.57	14.39	PASS
4816.00†	4513.22	-854.07	-913.92	4446.22	4513.22	-4029.36	1630.69	-86.24	4069.09	288.97	14.11	PASS
4916.00†	4599.52	-888.57	-950.84	4532.52	4599.52	-4029.36	1630.69	-86.86	4065.57	294.38	13.84	PASS
5016.00†	4685.81	-923.07	-987.76	4618.81	4685.81	-4029.36	1630.69	-87.47	4062.67	299.80	13.58	PASS
5116.00†	4772.10	-957.57	-1024.68	4705.10	4772.10	-4029.36	1630.69	-88.08	4060.40	305.23	13.33	PASS
5216.00†	4858.40	-992.07	-1061.60	4791.40	4858.40	-4029.36	1630.69	-88.70	4058.76	310.67	13.09	PASS
5316.00†	4944.69	-1026.58	-1098.52	4877.69	4944.69	-4029.36	1630.69	-89.32	4057.74	316.12	12.86	PASS
5416.00†	5030.98	-1061.08	-1135.44	4963.98	5030.98	-4029.36	1630.69	-89.93	4057.36	321.57	12.64	PASS
5428.50†	5041.77	-1065.39	-1140.05	4970.51	5037.51	-4029.36	1630.69	-89.98	4057.36	322.05	12.62	PASS
5516.00†	5117.28	-1095.58	-1172.36	5050.28	5117.28	-4029.36	1630.69	-90.55	4057.60	327.02	12.43	PASS
5616.00†	5203.57	-1130.08	-1209.28	5100.00	5167.00	-4029.36	1630.69	-90.90	4058.64	330.78	12.29	PASS
5716.00†	5289.87	-1164.58	-1246.20	5100.00	5167.00	-4029.36	1630.69	-90.90	4061.84	332.13	12.25	PASS
5816.00†	5376.16	-1199.08	-1283.12	5100.00	5167.00	-4029.36	1630.69	-90.90	4067.49	333.33	12.22	PASS
5916.00†	5462.45	-1233.59	-1320.04	5100.00	5167.00	-4029.36	1630.69	-90.90	4075.59	334.38	12.21	PASS
5974.91†	5513.29	-1253.91	-1341.78	5100.00	5167.00	-4029.36	1630.69	-90.90	4081.50	334.92	12.21	PASS
6016.00†	5548.75	-1268.09	-1356.96	5100.00	5167.00	-4029.36	1630.69	-90.90	4086.12	335.27	12.21	PASS
6116.00†	5635.04	-1302.59	-1393.87	5100.00	5167.00	-4029.36	1630.69	-90.90	4099.06	336.01	12.22	PASS
6216.00†	5721.33	-1337.09	-1430.79	5100.00	5167.00	-4029.36	1630.69	-90.90	4114.40	336.61	12.24	PASS
6316.00†	5807.63	-1371.59	-1467.71	5100.00	5167.00	-4029.36	1630.69	-90.90	4132.10	337.05	12.28	PASS
6416.00†	5893.92	-1406.09	-1504.63	5100.00	5167.00	-4029.36	1630.69	-90.90	4152.13	337.35	12.33	PASS
6516.00†	5980.22	-1440.59	-1541.55	5100.00	5167.00	-4029.36	1630.69	-90.90	4174.46	337.52	12.39	PASS
6616.00†	6066.51	-1475.10	-1578.47	5100.00	5167.00	-4029.36	1630.69	-90.90	4199.06	337.54	12.46	PASS
6716.00†	6152.80	-1509.60	-1615.39	5100.00	5167.00	-4029.36	1630.69	-90.90	4225.88	337.43	12.54	PASS
6816.00†	6239.10	-1544.10	-1652.31	5100.00	5167.00	-4029.36	1630.69	-90.90	4254.88	337.20	12.64	PASS
6916.00†	6325.39	-1578.60	-1689.23	5100.00	5167.00	-4029.36	1630.69	-90.90	4286.02	336.85	12.74	PASS
7016.00†	6411.68	-1613.10	-1726.15	5100.00	5167.00	-4029.36	1630.69	-90.90	4319.25	336.38	12.86	PASS
7116.00†	6497.98	-1647.60	-1763.07	5100.00	5167.00	-4029.36	1630.69	-90.90	4354.52	335.81	12.99	PASS
7216.00†	6584.27	-1682.10	-1799.99	5100.00	5167.00	-4029.36	1630.69	-90.90	4391.79	335.14	13.13	PASS
7316.00†	6670.57	-1716.61	-1836.91	5100.00	5167.00	-4029.36	1630.69	-90.90	4431.00	334.38	13.27	PASS
7416.00†	6756.86	-1751.11	-1873.83	5100.00	5167.00	-4029.36	1630.69	-90.90	4472.10	333.53	13.43	PASS
7516.00†	6843.15	-1785.61	-1910.75	5100.00	5167.00	-4029.36	1630.69	-90.90	4515.05	332.60	13.60	PASS
7616.00†	6929.45	-1820.11	-1947.66	5100.00	5167.00	-4029.36	1630.69	-90.90	4559.78	331.59	13.77	PASS



CLEARANCE DATA - Offset Wellbore: BONACQUISTI 10-1 AWB Offset Wellpath: BONACQUISTI 10-1 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#01 EX BONACQUISTI 10-1 (1980'FNL & 660'FEL, SEC.10, PA)				Well: BONACQUISTI 10-1		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
7716.00†	7015.74	-1854.61	-1984.58	5100.00	5167.00	-4029.36	1630.69	-90.90	4606.25	330.53	13.96	PASS
7816.00†	7102.03	-1889.11	-2021.50	5100.00	5167.00	-4029.36	1630.69	-90.90	4654.41	329.40	14.15	PASS
7916.00†	7188.33	-1923.61	-2058.42	5100.00	5167.00	-4029.36	1630.69	-90.90	4704.20	328.22	14.36	PASS
8016.00†	7274.62	-1958.12	-2095.34	5100.00	5167.00	-4029.36	1630.69	-90.90	4755.57	327.00	14.57	PASS
8085.19	7334.33	-1981.99	-2120.89	5100.00	5167.00	-4029.36	1630.69	-90.90	4792.01	326.12	14.72	PASS
8116.00†	7360.64	-1993.39	-2132.14	5100.00	5167.00	-4029.36	1630.69	-85.89	4807.92	325.74	14.78	PASS
8216.00†	7441.54	-2040.68	-2166.69	5100.00	5167.00	-4029.36	1630.69	-73.51	4852.67	324.74	14.97	PASS
8316.00†	7513.69	-2102.53	-2197.41	5100.00	5167.00	-4029.36	1630.69	-65.49	4886.10	324.21	15.10	PASS
8416.00†	7574.90	-2177.06	-2223.37	5100.00	5167.00	-4029.36	1630.69	-60.40	4907.42	323.95	15.17	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: BONACQUISTI 10-1 AWB Offset Wellpath: BONACQUISTI 10-1 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#01 EX BONACQUISTI 10-1 (1980'FNL & 660'FEL, SEC.10, PA) Well: BONACQUISTI 10-1 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
8516.00†	7623.30	-2261.99	-2243.79	5100.00	5167.00	-4029.36	1630.69	-57.42	4916.16	323.99	15.20	PASS
8616.00†	7657.43	-2354.77	-2258.05	5100.00	5167.00	-4029.36	1630.69	-56.09	4912.11	324.32	15.17	PASS
8716.00†	7676.26	-2452.55	-2265.70	5100.00	5167.00	-4029.36	1630.69	-56.23	4895.36	324.96	15.09	PASS
8784.36	7680.00	-2520.76	-2267.01	5100.00	5167.00	-4029.36	1630.69	-57.14	4876.79	325.53	15.01	PASS
8816.00†	7680.00	-2552.39	-2266.87	5100.00	5167.00	-4029.36	1630.69	-57.14	4866.99	325.79	14.96	PASS
8916.00†	7680.00	-2652.39	-2266.43	5100.00	5167.00	-4029.36	1630.69	-57.14	4837.22	326.55	14.84	PASS
9016.00†	7680.00	-2752.39	-2265.99	5100.00	5167.00	-4029.36	1630.69	-57.14	4809.36	327.33	14.72	PASS
9116.00†	7680.00	-2852.39	-2265.55	5100.00	5167.00	-4029.36	1630.69	-57.14	4783.42	328.13	14.60	PASS
9216.00†	7680.00	-2952.39	-2265.11	5100.00	5167.00	-4029.36	1630.69	-57.14	4759.44	328.95	14.49	PASS
9316.00†	7680.00	-3052.39	-2264.67	5100.00	5167.00	-4029.36	1630.69	-57.14	4737.45	329.78	14.39	PASS
9416.00†	7680.00	-3152.39	-2264.23	5100.00	5167.00	-4029.36	1630.69	-57.14	4717.48	330.63	14.29	PASS
9516.00†	7680.00	-3252.39	-2263.79	5100.00	5167.00	-4029.36	1630.69	-57.14	4699.55	331.50	14.20	PASS
9616.00†	7680.00	-3352.39	-2263.34	5100.00	5167.00	-4029.36	1630.69	-57.14	4683.69	332.38	14.11	PASS
9716.00†	7680.00	-3452.39	-2262.90	5100.00	5167.00	-4029.36	1630.69	-57.14	4669.92	333.28	14.03	PASS
9816.00†	7680.00	-3552.38	-2262.46	5100.00	5167.00	-4029.36	1630.69	-57.14	4658.25	334.19	13.96	PASS
9916.00†	7680.00	-3652.38	-2262.02	5100.00	5167.00	-4029.36	1630.69	-57.14	4648.71	335.11	13.89	PASS
10016.00†	7680.00	-3752.38	-2261.58	5100.00	5167.00	-4029.36	1630.69	-57.14	4641.30	336.05	13.83	PASS
10116.00†	7680.00	-3852.38	-2261.14	5100.00	5167.00	-4029.36	1630.69	-57.14	4636.04	336.99	13.78	PASS
10216.00†	7680.00	-3952.38	-2260.70	5100.00	5167.00	-4029.36	1630.69	-57.14	4632.93	337.94	13.73	PASS
10316.00†	7680.00	-4052.38	-2260.26	5100.00	5167.00	-4029.36	1630.69	-57.14	4631.97	338.90	13.69	PASS
10416.00†	7680.00	-4152.38	-2259.82	5100.00	5167.00	-4029.36	1630.69	-57.14	4633.18	339.87	13.65	PASS
10516.00†	7680.00	-4252.38	-2259.38	5100.00	5167.00	-4029.36	1630.69	-57.14	4636.54	340.83	13.63	PASS
10616.00†	7680.00	-4352.38	-2258.94	5100.00	5167.00	-4029.36	1630.69	-57.14	4642.06	341.80	13.60	PASS
10716.00†	7680.00	-4452.38	-2258.50	5100.00	5167.00	-4029.36	1630.69	-57.14	4649.72	342.77	13.59	PASS
10816.00†	7680.00	-4552.37	-2258.06	5100.00	5167.00	-4029.36	1630.69	-57.14	4659.51	343.74	13.58	PASS
10916.00†	7680.00	-4652.37	-2257.61	5100.00	5167.00	-4029.36	1630.69	-57.14	4671.43	344.71	13.57	PASS
11016.00†	7680.00	-4752.37	-2257.17	5100.00	5167.00	-4029.36	1630.69	-57.14	4685.45	345.67	13.58	PASS
11116.00†	7680.00	-4852.37	-2256.73	5100.00	5167.00	-4029.36	1630.69	-57.14	4701.55	346.62	13.59	PASS
11216.00†	7680.00	-4952.37	-2256.29	5100.00	5167.00	-4029.36	1630.69	-57.14	4719.72	347.56	13.60	PASS
11316.00†	7680.00	-5052.37	-2255.85	5100.00	5167.00	-4029.36	1630.69	-57.14	4739.93	348.49	13.62	PASS
11416.00†	7680.00	-5152.37	-2255.41	5100.00	5167.00	-4029.36	1630.69	-57.14	4762.15	349.41	13.65	PASS
11516.00†	7680.00	-5252.37	-2254.97	5100.00	5167.00	-4029.36	1630.69	-57.14	4786.36	350.32	13.68	PASS
11616.00†	7680.00	-5352.37	-2254.53	5100.00	5167.00	-4029.36	1630.69	-57.14	4812.53	351.21	13.72	PASS
11716.00†	7680.00	-5452.37	-2254.09	5100.00	5167.00	-4029.36	1630.69	-57.14	4840.62	352.08	13.77	PASS
11816.00†	7680.00	-5552.36	-2253.65	5100.00	5167.00	-4029.36	1630.69	-57.14	4870.61	352.93	13.82	PASS
11916.00†	7680.00	-5652.36	-2253.21	5100.00	5167.00	-4029.36	1630.69	-57.14	4902.45	353.76	13.88	PASS

CLEARANCE DATA - Offset Wellbore: BONACQUISTI 10-1 AWB    Offset Wellpath: BONACQUISTI 10-1 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#01 EX BONACQUISTI 10-1 (1980'FNL & 660'FEL, SEC.10, PA)				Well: BONACQUISTI 10-1		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
12016.00†	7680.00	-5752.36	-2252.77	5100.00	5167.00	-4029.36	1630.69	-57.14	4936.11	354.57	13.94	PASS
12116.00†	7680.00	-5852.36	-2252.32	5100.00	5167.00	-4029.36	1630.69	-57.14	4971.55	355.36	14.01	PASS
12216.00†	7680.00	-5952.36	-2251.88	5100.00	5167.00	-4029.36	1630.69	-57.14	5008.74	356.13	14.09	PASS
12316.00†	7680.00	-6052.36	-2251.44	5100.00	5167.00	-4029.36	1630.69	-57.14	5047.64	356.87	14.17	PASS
12416.00†	7680.00	-6152.36	-2251.00	5100.00	5167.00	-4029.36	1630.69	-57.14	5088.21	357.59	14.25	PASS
12516.00†	7680.00	-6252.36	-2250.56	5100.00	5167.00	-4029.36	1630.69	-57.14	5130.40	358.28	14.34	PASS
12616.00†	7680.00	-6352.36	-2250.12	5100.00	5167.00	-4029.36	1630.69	-57.14	5174.19	358.95	14.44	PASS
12716.00†	7680.00	-6452.36	-2249.68	5100.00	5167.00	-4029.36	1630.69	-57.14	5219.52	359.59	14.54	PASS
12816.00†	7680.00	-6552.36	-2249.24	5100.00	5167.00	-4029.36	1630.69	-57.14	5266.36	360.21	14.64	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: BONACQUISTI 10-1 AWB Offset Wellpath: BONACQUISTI 10-1 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#01 EX BONACQUISTI 10-1 (1980'FNL & 660'FEL, SEC.10, PA) Well: BONACQUISTI 10-1 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
12916.00†	7680.00	-6652.35	-2248.80	5100.00	5167.00	-4029.36	1630.69	-57.14	5314.67	360.80	14.75	PASS
13016.00†	7680.00	-6752.35	-2248.36	5100.00	5167.00	-4029.36	1630.69	-57.14	5364.41	361.37	14.87	PASS
13116.00†	7680.00	-6852.35	-2247.92	5100.00	5167.00	-4029.36	1630.69	-57.14	5415.54	361.91	14.99	PASS
13144.91	7680.00	-6881.26	-2247.79	5100.00	5167.00	-4029.36	1630.69	-57.14	5430.57	362.06	15.02	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: BONACQUISTI 10-1 AWB Offset Wellpath: BONACQUISTI 10-1 AWP

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

## WELLPATH COMPOSITION - Offset Wellbore: BONACQUISTI 10-1 AWB Offset Wellpath: BONACQUISTI 10-1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5100.00	Custom Drift Indicator (2.0 Maximum Inclination)	WORST CASE SCENARIO-ASSUMED VERTICAL TO SURFACE COGCC <5100>	BONACQUISTI 10-1 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: BONACQUISTI 10-1 AWB Offset Wellpath: BONACQUISTI 10-1 AWP

MD Reference: Rig on SLOT#01 EX BONACQUISTI 10-1 (1980'FNL & 660'FEL, SEC.10) (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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WEIGANDT JOHN H #A 1 AWB Offset Wellpath: WEIGANDT JOHN H #A 1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#05 EX WEIGANDT JOHN H #A 1 (1710'FNL & 1980'FEL, SEC.03,PR) Well: WEIGANDT JOHN H #A 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
16.00	16.00	0.00	0.00	-16.00	25.00	1265.53	322.77	14.31	1306.08	25.56	53.05	PASS
116.00†	116.00	0.00	0.00	75.00	116.00	1265.53	322.77	14.31	1306.05	62.00	21.38	PASS
216.00†	216.00	0.00	0.00	175.00	216.00	1265.53	322.77	14.31	1306.05	64.22	20.63	PASS
316.00†	316.00	0.00	0.00	275.00	316.00	1265.53	322.77	14.31	1306.05	66.45	19.93	PASS
416.00†	416.00	0.00	0.00	375.00	416.00	1265.53	322.77	14.31	1306.05	68.69	19.27	PASS
516.00†	516.00	0.00	0.00	475.00	516.00	1265.53	322.77	14.31	1306.05	70.93	18.65	PASS
616.00†	616.00	0.00	0.00	575.00	616.00	1265.53	322.77	14.31	1306.05	73.17	18.07	PASS
716.00†	716.00	0.00	0.00	675.00	716.00	1265.53	322.77	14.31	1306.05	75.41	17.53	PASS
816.00†	816.00	0.00	0.00	775.00	816.00	1265.53	322.77	14.31	1306.05	77.45	17.02	PASS
916.00†	916.00	0.00	0.00	875.00	916.00	1265.53	322.77	14.31	1306.05	79.71	16.53	PASS
1016.00†	1016.00	0.00	0.00	975.00	1016.00	1265.53	322.77	14.31	1306.05	81.97	16.07	PASS
1116.00†	1116.00	0.00	0.00	1075.00	1116.00	1265.53	322.77	14.31	1306.05	84.23	15.64	PASS
1216.00†	1216.00	0.00	0.00	1175.00	1216.00	1265.53	322.77	14.31	1306.05	86.38	15.23	PASS
1316.00†	1316.00	0.00	0.00	1275.00	1316.00	1265.53	322.77	14.31	1306.05	88.65	14.83	PASS
1416.00†	1416.00	0.00	0.00	1375.00	1416.00	1265.53	322.77	14.31	1306.05	90.92	14.46	PASS
1516.00†	1516.00	0.00	0.00	1475.00	1516.00	1265.53	322.77	14.31	1306.05	93.20	14.10	PASS
1600.00	1600.00	0.00	0.00	1559.00	1600.00	1265.53	322.77	14.31	1306.05	95.12	13.82	PASS
1616.00†	1616.00	-0.03	-0.03	1575.00	1616.00	1265.53	322.77	147.37	1306.08	95.48	13.77	PASS
1716.00†	1715.97	-1.60	-1.72	1674.97	1715.97	1265.53	322.77	147.40	1308.02	97.78	13.46	PASS
1816.00†	1815.80	-5.56	-5.95	1774.80	1815.80	1265.53	322.77	147.49	1312.91	100.10	13.19	PASS
1916.00†	1915.36	-11.89	-12.72	1874.36	1915.36	1265.53	322.77	147.62	1320.74	102.43	12.97	PASS
2016.00†	2014.54	-20.59	-22.03	1973.54	2014.54	1265.53	322.77	147.80	1331.54	104.76	12.78	PASS
2116.00†	2113.21	-31.64	-33.86	2072.21	2113.21	1265.53	322.77	148.01	1345.31	107.08	12.63	PASS
2216.00†	2211.26	-45.04	-48.20	2170.26	2211.26	1265.53	322.77	148.27	1362.07	109.39	12.52	PASS
2316.00†	2308.57	-60.77	-65.03	2267.57	2308.57	1265.53	322.77	148.56	1381.84	111.71	12.44	PASS
2416.00†	2405.01	-78.81	-84.34	2364.01	2405.01	1265.53	322.77	148.88	1404.64	114.01	12.38	PASS
2516.00†	2500.47	-99.14	-106.09	2459.47	2500.47	1265.53	322.77	149.21	1430.47	116.31	12.36	PASS
2616.00†	2594.84	-121.73	-130.26	2553.84	2594.84	1265.53	322.77	149.56	1459.36	118.60	12.37	PASS
2716.00†	2687.99	-146.55	-156.82	2646.99	2687.99	1265.53	322.77	149.92	1491.30	120.88	12.40	PASS
2816.00†	2779.81	-173.58	-185.74	2738.81	2779.81	1265.53	322.77	150.29	1526.31	123.15	12.45	PASS
2916.00†	2870.20	-202.78	-216.99	2829.20	2870.20	1265.53	322.77	150.64	1564.38	125.41	12.53	PASS
3016.00†	2959.04	-234.11	-250.52	2918.04	2959.04	1265.53	322.77	150.99	1605.49	127.65	12.64	PASS
3116.00†	3046.23	-267.54	-286.29	3005.23	3046.23	1265.53	322.77	151.33	1649.63	129.87	12.76	PASS
3117.60	3047.61	-268.10	-286.88	3006.61	3047.61	1265.53	322.77	151.33	1650.36	129.91	12.76	PASS
3216.00†	3132.52	-302.05	-323.21	3091.52	3132.52	1265.53	322.77	152.11	1695.46	132.05	12.90	PASS
3316.00†	3218.82	-336.55	-360.13	3177.82	3218.82	1265.53	322.77	152.87	1741.56	134.24	13.03	PASS

CLEARANCE DATA - Offset Wellbore: WEIGANDT JOHN H #A 1 AWB    Offset Wellpath: WEIGANDT JOHN H #A 1 AWP												
Facility: SEC.03-T01S-R67W    Slot: SLOT#05 EX WEIGANDT JOHN H #A 1 (1710'FNL & 1980'FEL, SEC.03,PR)    Well: WEIGANDT JOHN H #A 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
3416.00†	3305.11	-371.05	-397.05	3264.11	3305.11	1265.53	322.77	153.59	1787.89	136.44	13.16	PASS
3516.00†	3391.40	-405.55	-433.97	3350.40	3391.40	1265.53	322.77	154.28	1834.44	138.65	13.29	PASS
3616.00†	3477.70	-440.05	-470.89	3436.70	3477.70	1265.53	322.77	154.93	1881.20	140.86	13.41	PASS
3716.00†	3563.99	-474.55	-507.81	3522.99	3563.99	1265.53	322.77	155.55	1928.15	143.09	13.53	PASS
3816.00†	3650.28	-509.05	-544.73	3609.28	3650.28	1265.53	322.77	156.14	1975.28	145.32	13.65	PASS
3916.00†	3736.58	-543.56	-581.65	3695.58	3736.58	1265.53	322.77	156.71	2022.57	147.55	13.76	PASS
4016.00†	3822.87	-578.06	-618.57	3781.87	3822.87	1265.53	322.77	157.25	2070.01	149.80	13.87	PASS
4116.00†	3909.17	-612.56	-655.49	3868.17	3909.17	1265.53	322.77	157.77	2117.60	152.04	13.98	PASS
4216.00†	3995.46	-647.06	-692.41	3954.46	3995.46	1265.53	322.77	158.27	2165.32	154.30	14.09	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WEIGANDT JOHN H #A 1 AWB Offset Wellpath: WEIGANDT JOHN H #A 1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#05 EX WEIGANDT JOHN H #A 1 (1710'FNL & 1980'FEL, SEC.03,PR) Well: WEIGANDT JOHN H #A 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
4316.00†	4081.75	-681.56	-729.33	4040.75	4081.75	1265.53	322.77	158.75	2213.16	156.55	14.19	PASS
4416.00†	4168.05	-716.06	-766.25	4127.05	4168.05	1265.53	322.77	159.20	2261.12	158.82	14.29	PASS
4516.00†	4254.34	-750.56	-803.16	4213.34	4254.34	1265.53	322.77	159.64	2309.19	161.08	14.39	PASS
4616.00†	4340.63	-785.07	-840.08	4299.63	4340.63	1265.53	322.77	160.06	2357.37	163.35	14.48	PASS
4716.00†	4426.93	-819.57	-877.00	4385.93	4426.93	1265.53	322.77	160.47	2405.64	165.63	14.58	PASS
4816.00†	4513.22	-854.07	-913.92	4472.22	4513.22	1265.53	322.77	160.85	2454.00	167.91	14.67	PASS
4916.00†	4599.52	-888.57	-950.84	4558.52	4599.52	1265.53	322.77	161.23	2502.45	170.19	14.76	PASS
5016.00†	4685.81	-923.07	-987.76	4644.81	4685.81	1265.53	322.77	161.59	2550.98	172.48	14.84	PASS
5116.00†	4772.10	-957.57	-1024.68	4731.10	4772.10	1265.53	322.77	161.94	2599.58	174.77	14.93	PASS
5216.00†	4858.40	-992.07	-1061.60	4817.40	4858.40	1265.53	322.77	162.27	2648.26	177.06	15.01	PASS
5316.00†	4944.69	-1026.58	-1098.52	4903.69	4944.69	1265.53	322.77	162.60	2697.00	179.36	15.09	PASS
5416.00†	5030.98	-1061.08	-1135.44	4989.98	5030.98	1265.53	322.77	162.91	2745.81	181.66	15.17	PASS
5516.00†	5117.28	-1095.58	-1172.36	5076.28	5117.28	1265.53	322.77	163.21	2794.68	183.97	15.24	PASS
5616.00†	5203.57	-1130.08	-1209.28	5162.57	5203.57	1265.53	322.77	163.50	2843.61	186.28	15.32	PASS
5716.00†	5289.87	-1164.58	-1246.20	5248.87	5289.87	1265.53	322.77	163.78	2892.60	188.59	15.39	PASS
5816.00†	5376.16	-1199.08	-1283.12	5335.16	5376.16	1265.53	322.77	164.05	2941.63	190.91	15.46	PASS
5916.00†	5462.45	-1233.59	-1320.04	5421.45	5462.45	1265.53	322.77	164.32	2990.72	193.22	15.53	PASS
6016.00†	5548.75	-1268.09	-1356.96	5507.75	5548.75	1265.53	322.77	164.57	3039.85	195.54	15.59	PASS
6116.00†	5635.04	-1302.59	-1393.87	5594.04	5635.04	1265.53	322.77	164.82	3089.03	197.87	15.66	PASS
6216.00†	5721.33	-1337.09	-1430.79	5680.33	5721.33	1265.53	322.77	165.06	3138.25	200.20	15.72	PASS
6316.00†	5807.63	-1371.59	-1467.71	5766.63	5807.63	1265.53	322.77	165.29	3187.51	202.53	15.79	PASS
6416.00†	5893.92	-1406.09	-1504.63	5852.92	5893.92	1265.53	322.77	165.52	3236.82	204.86	15.85	PASS
6516.00†	5980.22	-1440.59	-1541.55	5939.22	5980.22	1265.53	322.77	165.73	3286.15	207.20	15.91	PASS
6616.00†	6066.51	-1475.10	-1578.47	6025.51	6066.51	1265.53	322.77	165.95	3335.53	209.54	15.96	PASS
6716.00†	6152.80	-1509.60	-1615.39	6111.80	6152.80	1265.53	322.77	166.15	3384.94	211.88	16.02	PASS
6816.00†	6239.10	-1544.10	-1652.31	6198.10	6239.10	1265.53	322.77	166.35	3434.38	214.23	16.08	PASS
6916.00†	6325.39	-1578.60	-1689.23	6284.39	6325.39	1265.53	322.77	166.55	3483.85	216.57	16.13	PASS
7016.00†	6411.68	-1613.10	-1726.15	6370.68	6411.68	1265.53	322.77	166.74	3533.35	218.92	16.18	PASS
7116.00†	6497.98	-1647.60	-1763.07	6456.98	6497.98	1265.53	322.77	166.92	3582.89	221.28	16.24	PASS
7216.00†	6584.27	-1682.10	-1799.99	6543.27	6584.27	1265.53	322.77	167.10	3632.45	223.63	16.29	PASS
7316.00†	6670.57	-1716.61	-1836.91	6629.57	6670.57	1265.53	322.77	167.28	3682.03	225.99	16.34	PASS
7416.00†	6756.86	-1751.11	-1873.83	6715.86	6756.86	1265.53	322.77	167.45	3731.64	228.35	16.39	PASS
7516.00†	6843.15	-1785.61	-1910.75	6802.15	6843.15	1265.53	322.77	167.61	3781.28	230.72	16.43	PASS
7616.00†	6929.45	-1820.11	-1947.66	6888.45	6929.45	1265.53	322.77	167.77	3830.93	233.08	16.48	PASS
7716.00†	7015.74	-1854.61	-1984.58	6974.74	7015.74	1265.53	322.77	167.93	3880.62	235.45	16.52	PASS
7816.00†	7102.03	-1889.11	-2021.50	7061.03	7102.03	1265.53	322.77	168.08	3930.32	237.82	16.57	PASS



CLEARANCE DATA - Offset Wellbore: WEIGANDT JOHN H #A 1 AWB    Offset Wellpath: WEIGANDT JOHN H #A 1 AWP												
Facility: SEC.03-T01S-R67W    Slot: SLOT#05 EX WEIGANDT JOHN H #A 1 (1710'FNL & 1980'FEL, SEC.03,PR)    Well: WEIGANDT JOHN H #A 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
7916.00†	7188.33	-1923.61	-2058.42	7147.33	7188.33	1265.53	322.77	168.23	3980.04	240.20	16.61	PASS
8016.00†	7274.62	-1958.12	-2095.34	7233.62	7274.62	1265.53	322.77	168.38	4029.79	242.57	16.65	PASS
8085.19	7334.33	-1981.99	-2120.89	7293.33	7334.33	1265.53	322.77	168.48	4064.22	244.22	16.68	PASS
8116.00†	7360.64	-1993.39	-2132.14	7319.64	7360.64	1265.53	322.77	173.56	4080.09	244.95	16.70	PASS
8216.00†	7441.54	-2040.68	-2166.69	7400.54	7441.54	1265.53	322.77	-172.09	4138.65	247.26	16.78	PASS
8316.00†	7513.69	-2102.53	-2197.41	7472.69	7513.69	1265.53	322.77	-159.27	4206.56	249.45	16.90	PASS
8416.00†	7574.90	-2177.06	-2223.37	7533.90	7574.90	1265.53	322.77	-146.16	4281.85	251.26	17.08	PASS
8516.00†	7623.30	-2261.99	-2243.79	7582.30	7623.30	1265.53	322.77	-131.66	4362.42	252.64	17.31	PASS
8616.00†	7657.43	-2354.77	-2258.05	7616.43	7657.43	1265.53	322.77	-115.71	4446.03	253.56	17.58	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WEIGANDT JOHN H #A 1 AWB Offset Wellpath: WEIGANDT JOHN H #A 1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#05 EX WEIGANDT JOHN H #A 1 (1710'FNL & 1980'FEL, SEC.03,PR) Well: WEIGANDT JOHN H #A 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	
8716.00†	7676.26	-2452.55	-2265.70	7635.26	7676.26	1265.53	322.77	-99.78	4530.38	254.02	17.88	PASS	
8784.36	7680.00	-2520.76	-2267.01	7639.00	7680.00	1265.53	322.77	-90.00	4587.26	254.07	18.10	PASS	
8816.00†	7680.00	-2552.39	-2266.87	7639.00	7680.00	1265.53	322.77	-90.00	4613.33	254.05	18.20	PASS	
8916.00†	7680.00	-2652.39	-2266.43	7639.00	7680.00	1265.53	322.77	-90.00	4696.18	253.97	18.54	PASS	
9016.00†	7680.00	-2752.39	-2265.99	7639.00	7680.00	1265.53	322.77	-90.00	4779.69	253.90	18.87	PASS	
9116.00†	7680.00	-2852.39	-2265.55	7639.00	7680.00	1265.53	322.77	-90.00	4863.81	253.84	19.21	PASS	
9216.00†	7680.00	-2952.39	-2265.11	7639.00	7680.00	1265.53	322.77	-90.00	4948.53	253.80	19.55	PASS	
9316.00†	7680.00	-3052.39	-2264.67	7639.00	7680.00	1265.53	322.77	-90.00	5033.81	253.76	19.88	PASS	
9416.00†	7680.00	-3152.39	-2264.23	7639.00	7680.00	1265.53	322.77	-90.00	5119.63	253.73	20.23	PASS	
9516.00†	7680.00	-3252.39	-2263.79	7639.00	7680.00	1265.53	322.77	-90.00	5205.95	253.71	20.57	PASS	
9616.00†	7680.00	-3352.39	-2263.34	7639.00	7680.00	1265.53	322.77	-90.00	5292.75	253.70	20.91	PASS	
9716.00†	7680.00	-3452.39	-2262.90	7639.00	7680.00	1265.53	322.77	-90.00	5380.01	253.69	21.26	PASS	
9816.00†	7680.00	-3552.38	-2262.46	7639.00	7680.00	1265.53	322.77	-90.00	5467.70	253.69	21.61	PASS	
9916.00†	7680.00	-3652.38	-2262.02	7639.00	7680.00	1265.53	322.77	-90.00	5555.81	253.69	21.95	PASS	
10016.00†	7680.00	-3752.38	-2261.58	7639.00	7680.00	1265.53	322.77	-90.00	5644.32	253.71	22.30	PASS	
10116.00†	7680.00	-3852.38	-2261.14	7639.00	7680.00	1265.53	322.77	-90.00	5733.20	253.72	22.65	PASS	
10216.00†	7680.00	-3952.38	-2260.70	7639.00	7680.00	1265.53	322.77	-90.00	5822.45	253.74	23.00	PASS	
10316.00†	7680.00	-4052.38	-2260.26	7639.00	7680.00	1265.53	322.77	-90.00	5912.04	253.77	23.35	PASS	
10416.00†	7680.00	-4152.38	-2259.82	7639.00	7680.00	1265.53	322.77	-90.00	6001.96	253.80	23.71	PASS	
10516.00†	7680.00	-4252.38	-2259.38	7639.00	7680.00	1265.53	322.77	-90.00	6092.19	253.84	24.06	PASS	
10616.00†	7680.00	-4352.38	-2258.94	7639.00	7680.00	1265.53	322.77	-90.00	6182.73	253.88	24.41	PASS	
10716.00†	7680.00	-4452.38	-2258.50	7639.00	7680.00	1265.53	322.77	-90.00	6273.55	253.92	24.77	PASS	
10816.00†	7680.00	-4552.37	-2258.06	7639.00	7680.00	1265.53	322.77	-90.00	6364.64	253.96	25.12	PASS	
10916.00†	7680.00	-4652.37	-2257.61	7639.00	7680.00	1265.53	322.77	-90.00	6456.00	254.01	25.48	PASS	
11016.00†	7680.00	-4752.37	-2257.17	7639.00	7680.00	1265.53	322.77	-90.00	6547.62	254.07	25.83	PASS	
11116.00†	7680.00	-4852.37	-2256.73	7639.00	7680.00	1265.53	322.77	-90.00	6639.47	254.12	26.19	PASS	
11216.00†	7680.00	-4952.37	-2256.29	7639.00	7680.00	1265.53	322.77	-90.00	6731.56	254.18	26.55	PASS	
11316.00†	7680.00	-5052.37	-2255.85	7639.00	7680.00	1265.53	322.77	-90.00	6823.87	254.24	26.91	PASS	
11416.00†	7680.00	-5152.37	-2255.41	7639.00	7680.00	1265.53	322.77	-90.00	6916.39	254.31	27.26	PASS	
11516.00†	7680.00	-5252.37	-2254.97	7639.00	7680.00	1265.53	322.77	-90.00	7009.12	254.37	27.62	PASS	
11616.00†	7680.00	-5352.37	-2254.53	7639.00	7680.00	1265.53	322.77	-90.00	7102.05	254.44	27.98	PASS	
11716.00†	7680.00	-5452.37	-2254.09	7639.00	7680.00	1265.53	322.77	-90.00	7195.16	254.51	28.34	PASS	
11816.00†	7680.00	-5552.36	-2253.65	7639.00	7680.00	1265.53	322.77	-90.00	7288.46	254.59	28.70	PASS	
11916.00†	7680.00	-5652.36	-2253.21	7639.00	7680.00	1265.53	322.77	-90.00	7381.93	254.66	29.06	PASS	
12016.00†	7680.00	-5752.36	-2252.77	7639.00	7680.00	1265.53	322.77	-90.00	7475.58	254.74	29.42	PASS	
12116.00†	7680.00	-5852.36	-2252.32	7639.00	7680.00	1265.53	322.77	-90.00	7569.38	254.82	29.78	PASS	

CLEARANCE DATA - Offset Wellbore: WEIGANDT JOHN H #A 1 AWB    Offset Wellpath: WEIGANDT JOHN H #A 1 AWP												
Facility: SEC.03-T01S-R67W    Slot: SLOT#05 EX WEIGANDT JOHN H #A 1 (1710'FNL & 1980'FEL, SEC.03,PR)    Well: WEIGANDT JOHN H #A 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
12216.00†	7680.00	-5952.36	-2251.88	7639.00	7680.00	1265.53	322.77	-90.00	7663.34	254.90	30.14	PASS
12316.00†	7680.00	-6052.36	-2251.44	7639.00	7680.00	1265.53	322.77	-90.00	7757.46	254.98	30.50	PASS
12416.00†	7680.00	-6152.36	-2251.00	7639.00	7680.00	1265.53	322.77	-90.00	7851.71	255.07	30.86	PASS
12516.00†	7680.00	-6252.36	-2250.56	7639.00	7680.00	1265.53	322.77	-90.00	7946.11	255.16	31.22	PASS
12616.00†	7680.00	-6352.36	-2250.12	7639.00	7680.00	1265.53	322.77	-90.00	8040.65	255.24	31.58	PASS
12716.00†	7680.00	-6452.36	-2249.68	7639.00	7680.00	1265.53	322.77	-90.00	8135.31	255.33	31.94	PASS
12816.00†	7680.00	-6552.36	-2249.24	7639.00	7680.00	1265.53	322.77	-90.00	8230.10	255.42	32.30	PASS
12916.00†	7680.00	-6652.35	-2248.80	7639.00	7680.00	1265.53	322.77	-90.00	8325.02	255.52	32.66	PASS
13016.00†	7680.00	-6752.35	-2248.36	7639.00	7680.00	1265.53	322.77	-90.00	8420.05	255.61	33.02	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WEIGANDT JOHN H #A 1 AWB Offset Wellpath: WEIGANDT JOHN H #A 1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#05 EX WEIGANDT JOHN H #A 1 (1710'FNL & 1980'FEL, SEC.03,PR) Well: WEIGANDT JOHN H #A 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	
13116.00†	7680.00	-6852.35	-2247.92	7639.00	7680.00	1265.53	322.77	-90.00	8515.19	255.70	33.38	PASS	
13144.91	7680.00	-6881.26	-2247.79	7639.00	7680.00	1265.53	322.77	-90.00	8542.72	255.73	33.49	PASS	

## POSITIONAL UNCERTAINTY - Offset Wellbore: WEIGANDT JOHN H #A 1 AWB Offset Wellpath: WEIGANDT JOHN H #A 1 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: WEIGANDT JOHN H #A 1 AWB Offset Wellpath: WEIGANDT JOHN H #A 1 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	1165.00	1165.00	25.00	1190.00	771.47	196.75	771.47	196.75
9.625in Casing Surface	0.00	1165.00	1165.00	25.00	1190.00	771.47	196.75	771.47	196.75
8.75in Open Hole	1165.00	7989.00	6824.00	1190.00	8014.00	771.47	196.75	771.47	196.75
7in Casing Production	0.00	7989.00	7989.00	25.00	8014.00	771.47	196.75	771.47	196.75

## WELLPATH COMPOSITION - Offset Wellbore: WEIGANDT JOHN H #A 1 AWB Offset Wellpath: WEIGANDT JOHN H #A 1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7989.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <7989>	WEIGANDT JOHN H #A 1 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: WEIGANDT JOHN H #A 1 AWB Offset Wellpath: WEIGANDT JOHN H #A 1 AWP

MD Reference: Rig on SLOT#05 EX WEIGANDT JOHN H #A 1 (1710'FNL & 1980'FEL, SEC.03,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

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #36C-3HZ AWP Offset Wellpath: GRENNYER #36C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#06 GRENNYER #36C-3HZ (689'FNL & 1650'FEL, SEC.34) Well: GRENNYER #36C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	0.00	48.00	7557.13	156.55	1.19	7558.82	25.57	307.21	PASS
116.00†	116.00	0.00	0.00	110.05	158.05	7556.84	156.54	1.19	7558.58	60.36	127.24	PASS
216.00†	216.00	0.00	0.00	205.86	253.86	7556.32	156.49	1.19	7558.03	60.37	127.20	PASS
316.00†	316.00	0.00	0.00	15727.77	7836.05	28.31	39.00	54.03	7520.20	103.48	73.24	PASS
416.00†	416.00	0.00	0.00	15727.89	7836.05	28.18	39.01	54.15	7420.20	103.49	72.26	PASS
516.00†	516.00	0.00	0.00	15728.02	7836.05	28.05	39.01	54.28	7320.21	103.51	71.28	PASS
616.00†	616.00	0.00	0.00	15728.15	7836.05	27.92	39.02	54.41	7220.21	103.52	70.29	PASS
716.00†	716.00	0.00	0.00	15728.28	7836.05	27.79	39.02	54.54	7120.21	103.54	69.30	PASS
816.00†	816.00	0.00	0.00	15728.42	7836.05	27.66	39.03	54.68	7020.21	103.36	68.32	PASS
916.00†	916.00	0.00	0.00	15728.56	7836.05	27.52	39.03	54.81	6920.22	103.39	67.33	PASS
1016.00†	1016.00	0.00	0.00	15728.70	7836.05	27.38	39.04	54.95	6820.22	103.41	66.34	PASS
1116.00†	1116.00	0.00	0.00	15728.84	7836.05	27.24	39.04	55.10	6720.22	103.45	65.34	PASS
1216.00†	1216.00	0.00	0.00	15728.98	7836.05	27.09	39.05	55.25	6620.22	103.48	64.35	PASS
1316.00†	1316.00	0.00	0.00	15729.13	7836.05	26.95	39.06	55.40	6520.23	103.52	63.35	PASS
1416.00†	1416.00	0.00	0.00	15729.28	7836.05	26.80	39.06	55.55	6420.23	103.56	62.36	PASS
1516.00†	1516.00	0.00	0.00	15729.43	7836.05	26.64	39.07	55.71	6320.23	103.61	61.36	PASS
1600.00	1600.00	0.00	0.00	15729.56	7836.05	26.51	39.07	55.84	6236.23	103.65	60.52	PASS
1616.00†	1616.00	-0.03	-0.03	15729.60	7836.05	26.48	39.07	-174.85	6220.23	103.65	60.36	PASS
1716.00†	1715.97	-1.60	-1.72	15730.36	7836.06	25.72	39.10	-178.47	6120.29	103.71	59.36	PASS
1816.00†	1815.80	-5.56	-5.95	15732.04	7836.07	24.04	39.17	-178.96	6020.51	103.78	58.35	PASS
1916.00†	1915.36	-11.89	-12.72	15734.68	7836.08	21.41	39.28	-179.10	5921.04	103.87	57.34	PASS
2016.00†	2014.54	-20.59	-22.03	15738.28	7836.10	17.80	39.43	-179.13	5822.01	103.96	56.32	PASS
2116.00†	2113.21	-31.64	-33.86	15742.88	7836.13	13.21	39.62	-179.10	5723.56	104.08	55.31	PASS
2216.00†	2211.26	-45.04	-48.20	15748.49	7836.17	7.61	39.86	-179.04	5625.85	104.22	54.29	PASS
2316.00†	2308.57	-60.77	-65.03	15755.11	7836.24	0.99	40.16	-178.97	5529.01	104.38	53.28	PASS
2416.00†	2405.01	-78.81	-84.34	15762.78	7836.32	-6.67	40.52	-178.88	5433.23	104.56	52.26	PASS
2516.00†	2500.47	-99.14	-106.09	15771.73	7836.44	-15.61	40.95	-178.77	5338.65	104.78	51.24	PASS
2616.00†	2594.84	-121.73	-130.26	15783.17	7836.62	-27.03	41.52	-178.62	5245.45	105.06	50.22	PASS
2716.00†	2687.99	-146.55	-156.82	15795.83	7836.84	-39.68	42.16	-178.47	5153.80	105.38	49.19	PASS
2816.00†	2779.81	-173.58	-185.74	15809.73	7837.12	-53.55	42.89	-178.30	5063.89	105.75	48.16	PASS
2916.00†	2870.20	-202.78	-216.99	15824.85	7837.46	-68.65	43.70	-178.13	4975.90	106.19	47.12	PASS
3016.00†	2959.04	-234.11	-250.52	15841.19	7837.88	-84.96	44.60	-177.96	4890.03	106.69	46.09	PASS
3116.00†	3046.23	-267.54	-286.29	15859.65	7838.41	-103.38	45.66	-177.76	4806.47	107.30	45.05	PASS
3117.60	3047.61	-268.10	-286.88	15860.01	7838.42	-103.74	45.68	-177.75	4805.15	107.30	45.03	PASS
3216.00†	3132.52	-302.05	-323.21	15882.19	7839.12	-125.86	47.02	-177.38	4724.42	107.99	43.99	PASS
3316.00†	3218.82	-336.55	-360.13	15904.77	7839.87	-148.38	48.47	-177.00	4642.90	108.76	42.92	PASS

CLEARANCE DATA - Offset Wellbore: GRENNYER #36C-3HZ AWB Offset Wellpath: GRENNYER #36C-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#06 GRENNYER #36C-3HZ (689'FNL & 1650'FEL, SEC.34)				Well: GRENNYER #36C-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	15927.39	7840.69	-170.94	50.03	-176.62	4561.95	109.60	41.85	PASS
3516.00†	3391.40	-405.55	-433.97	15953.90	7841.69	-197.36	51.97	-176.16	4481.58	110.58	40.75	PASS
3616.00†	3477.70	-440.05	-470.89	15988.09	7843.01	-231.42	54.58	-175.56	4401.77	111.76	39.60	PASS
3716.00†	3563.99	-474.55	-507.81	16020.00	7844.23	-263.22	57.03	-175.00	4322.52	112.97	38.46	PASS
3816.00†	3650.28	-509.05	-544.73	16020.00	7844.23	-263.22	57.03	-175.00	4244.02	113.87	37.47	PASS
3916.00†	3736.58	-543.56	-581.65	16020.00	7844.23	-263.22	57.03	-175.00	4166.45	114.85	36.46	PASS
4016.00†	3822.87	-578.06	-618.57	16020.00	7844.23	-263.22	57.03	-175.00	4089.85	115.93	35.46	PASS
4116.00†	3909.17	-612.56	-655.49	16020.00	7844.23	-263.22	57.03	-175.00	4014.28	117.11	34.45	PASS
4216.00†	3995.46	-647.06	-692.41	16020.00	7844.23	-263.22	57.03	-175.00	3939.80	118.39	33.45	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #36C-3HZ AWP Offset Wellpath: GRENNYER #36C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#06 GRENNYER #36C-3HZ (689'FNL & 1650'FEL, SEC.34) Well: GRENNYER #36C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	16020.00	7844.23	-263.22	57.03	-175.00	3866.47	119.77	32.44	PASS
4416.00†	4168.05	-716.06	-766.25	16020.00	7844.23	-263.22	57.03	-175.00	3794.36	121.26	31.44	PASS
4516.00†	4254.34	-750.56	-803.16	16020.00	7844.23	-263.22	57.03	-175.00	3723.54	122.87	30.45	PASS
4616.00†	4340.63	-785.07	-840.08	16020.00	7844.23	-263.22	57.03	-175.00	3654.08	124.60	29.47	PASS
4716.00†	4426.93	-819.57	-877.00	16020.00	7844.23	-263.22	57.03	-175.00	3586.07	126.45	28.49	PASS
4816.00†	4513.22	-854.07	-913.92	16020.00	7844.23	-263.22	57.03	-175.00	3519.58	128.42	27.53	PASS
4916.00†	4599.52	-888.57	-950.84	16020.00	7844.23	-263.22	57.03	-175.00	3454.71	130.52	26.59	PASS
5016.00†	4685.81	-923.07	-987.76	16020.00	7844.23	-263.22	57.03	-175.00	3391.55	132.75	25.66	PASS
5116.00†	4772.10	-957.57	-1024.68	16020.00	7844.23	-263.22	57.03	-175.00	3330.19	135.11	24.75	PASS
5216.00†	4858.40	-992.07	-1061.60	16020.00	7844.23	-263.22	57.03	-175.00	3270.74	137.61	23.87	PASS
5316.00†	4944.69	-1026.58	-1098.52	16020.00	7844.23	-263.22	57.03	-175.00	3213.31	140.23	23.01	PASS
5416.00†	5030.98	-1061.08	-1135.44	16020.00	7844.23	-263.22	57.03	-175.00	3157.99	142.97	22.18	PASS
5516.00†	5117.28	-1095.58	-1172.36	16020.00	7844.23	-263.22	57.03	-175.00	3104.91	145.84	21.37	PASS
5616.00†	5203.57	-1130.08	-1209.28	16020.00	7844.23	-263.22	57.03	-175.00	3054.19	148.83	20.60	PASS
5716.00†	5289.87	-1164.58	-1246.20	16020.00	7844.23	-263.22	57.03	-175.00	3005.93	151.93	19.86	PASS
5816.00†	5376.16	-1199.08	-1283.12	16020.00	7844.23	-263.22	57.03	-175.00	2960.27	155.12	19.16	PASS
5916.00†	5462.45	-1233.59	-1320.04	16020.00	7844.23	-263.22	57.03	-175.00	2917.32	158.40	18.48	PASS
6016.00†	5548.75	-1268.09	-1356.96	16020.00	7844.23	-263.22	57.03	-175.00	2877.21	161.76	17.85	PASS
6116.00†	5635.04	-1302.59	-1393.87	16020.00	7844.23	-263.22	57.03	-175.00	2840.06	165.17	17.25	PASS
6216.00†	5721.33	-1337.09	-1430.79	16020.00	7844.23	-263.22	57.03	-175.00	2805.98	168.63	16.70	PASS
6316.00†	5807.63	-1371.59	-1467.71	16020.00	7844.23	-263.22	57.03	-175.00	2775.08	172.11	16.18	PASS
6416.00†	5893.92	-1406.09	-1504.63	16020.00	7844.23	-263.22	57.03	-175.00	2747.48	175.58	15.70	PASS
6516.00†	5980.22	-1440.59	-1541.55	16020.00	7844.23	-263.22	57.03	-175.00	2723.27	179.04	15.26	PASS
6616.00†	6066.51	-1475.10	-1578.47	16020.00	7844.23	-263.22	57.03	-175.00	2702.55	182.45	14.86	PASS
6716.00†	6152.80	-1509.60	-1615.39	16020.00	7844.23	-263.22	57.03	-175.00	2685.40	185.80	14.50	PASS
6816.00†	6239.10	-1544.10	-1652.31	16020.00	7844.23	-263.22	57.03	-175.00	2671.88	189.05	14.18	PASS
6916.00†	6325.39	-1578.60	-1689.23	16020.00	7844.23	-263.22	57.03	-175.00	2662.05	192.20	13.89	PASS
7016.00†	6411.68	-1613.10	-1726.15	16020.00	7844.23	-263.22	57.03	-175.00	2655.95	195.21	13.65	PASS
7116.00†	6497.98	-1647.60	-1763.07	16020.00	7844.23	-263.22	57.03	-175.00	2653.61	198.07	13.44	PASS
7129.75†	6509.84	-1652.35	-1768.14	16020.00	7844.23	-263.22	57.03	-175.00	2653.59	198.45	13.41	PASS
7216.00†	6584.27	-1682.10	-1799.99	16020.00	7844.23	-263.22	57.03	-175.00	2655.04	200.76	13.26	PASS
7316.00†	6670.57	-1716.61	-1836.91	16020.00	7844.23	-263.22	57.03	-175.00	2660.23	203.27	13.12	PASS
7416.00†	6756.86	-1751.11	-1873.83	16020.00	7844.23	-263.22	57.03	-175.00	2669.16	205.59	13.02	PASS
7516.00†	6843.15	-1785.61	-1910.75	16020.00	7844.23	-263.22	57.03	-175.00	2681.78	207.70	12.95	PASS
7616.00†	6929.45	-1820.11	-1947.66	16020.00	7844.23	-263.22	57.03	-175.00	2698.06	209.61	12.91	PASS
7698.83†	7000.93	-1848.69	-1978.25	16020.00	7844.23	-263.22	57.03	-175.00	2714.26	211.04	12.90	PASS

CLEARANCE DATA - Offset Wellbore: GRENNYER #36C-3HZ AWB Offset Wellpath: GRENNYER #36C-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#06 GRENNYER #36C-3HZ (689'FNL & 1650'FEL, SEC.34)				Well: GRENNYER #36C-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7716.00†	7015.74	-1854.61	-1984.58	16020.00	7844.23	-263.22	57.03	-175.00	2717.92	211.31	12.90	PASS
7816.00†	7102.03	-1889.11	-2021.50	16020.00	7844.23	-263.22	57.03	-175.00	2741.29	212.81	12.92	PASS
7916.00†	7188.33	-1923.61	-2058.42	16020.00	7844.23	-263.22	57.03	-175.00	2768.08	214.09	12.96	PASS
8016.00†	7274.62	-1958.12	-2095.34	16020.00	7844.23	-263.22	57.03	-175.00	2798.18	215.19	13.04	PASS
8085.19	7334.33	-1981.99	-2120.89	16020.00	7844.23	-263.22	57.03	-175.00	2820.90	215.83	13.10	PASS
8116.00†	7360.64	-1993.39	-2132.14	16020.00	7844.23	-263.22	57.03	-170.17	2831.93	216.06	13.14	PASS
8216.00†	7441.54	-2040.68	-2166.69	16020.00	7844.23	-263.22	57.03	-156.66	2875.14	216.31	13.33	PASS
8316.00†	7513.69	-2102.53	-2197.41	16020.00	7844.23	-263.22	57.03	-144.98	2928.28	215.86	13.60	PASS
8416.00†	7574.90	-2177.06	-2223.37	16020.00	7844.23	-263.22	57.03	-133.81	2989.24	214.67	13.96	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNEMYER #36C-3HZ AWP Offset Wellpath: GRENNEMYER #36C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#06 GRENNEMYER #36C-3HZ (689'FNL & 1650'FEL, SEC.34) Well: GRENNEMYER #36C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8516.00†	7623.30	-2261.99	-2243.79	16020.00	7844.23	-263.22	57.03	-122.56	3055.77	212.85	14.40	PASS
8616.00†	7657.43	-2354.77	-2258.05	16020.00	7844.23	-263.22	57.03	-111.30	3125.55	210.51	14.89	PASS
8716.00†	7676.26	-2452.55	-2265.70	16020.00	7844.23	-263.22	57.03	-100.61	3196.32	207.80	15.42	PASS
8784.36	7680.00	-2520.76	-2267.01	16020.00	7844.23	-263.22	57.03	-94.03	3244.17	205.78	15.81	PASS
8816.00†	7680.00	-2552.39	-2266.87	16020.00	7844.23	-263.22	57.03	-94.03	3266.16	204.83	15.99	PASS
8916.00†	7680.00	-2652.39	-2266.43	16020.00	7844.23	-263.22	57.03	-94.03	3336.70	201.86	16.58	PASS
9016.00†	7680.00	-2752.39	-2265.99	16020.00	7844.23	-263.22	57.03	-94.03	3408.72	198.97	17.18	PASS
9116.00†	7680.00	-2852.39	-2265.55	16020.00	7844.23	-263.22	57.03	-94.03	3482.12	196.16	17.80	PASS
9216.00†	7680.00	-2952.39	-2265.11	16020.00	7844.23	-263.22	57.03	-94.03	3556.82	193.44	18.44	PASS
9316.00†	7680.00	-3052.39	-2264.67	16020.00	7844.23	-263.22	57.03	-94.03	3632.73	190.80	19.10	PASS
9416.00†	7680.00	-3152.39	-2264.23	16020.00	7844.23	-263.22	57.03	-94.03	3709.79	188.24	19.77	PASS
9516.00†	7680.00	-3252.39	-2263.79	16020.00	7844.23	-263.22	57.03	-94.03	3787.91	185.77	20.45	PASS
9616.00†	7680.00	-3352.39	-2263.34	16020.00	7844.23	-263.22	57.03	-94.03	3867.05	183.38	21.15	PASS
9716.00†	7680.00	-3452.39	-2262.90	16020.00	7844.23	-263.22	57.03	-94.03	3947.13	181.07	21.87	PASS
9816.00†	7680.00	-3552.38	-2262.46	16020.00	7844.23	-263.22	57.03	-94.03	4028.11	178.85	22.60	PASS
9916.00†	7680.00	-3652.38	-2262.02	16020.00	7844.23	-263.22	57.03	-94.03	4109.92	176.70	23.34	PASS
10016.00†	7680.00	-3752.38	-2261.58	16020.00	7844.23	-263.22	57.03	-94.03	4192.52	174.62	24.09	PASS
10116.00†	7680.00	-3852.38	-2261.14	16020.00	7844.23	-263.22	57.03	-94.03	4275.86	172.62	24.85	PASS
10216.00†	7680.00	-3952.38	-2260.70	16020.00	7844.23	-263.22	57.03	-94.03	4359.90	170.70	25.63	PASS
10316.00†	7680.00	-4052.38	-2260.26	16020.00	7844.23	-263.22	57.03	-94.03	4444.61	168.84	26.42	PASS
10416.00†	7680.00	-4152.38	-2259.82	16020.00	7844.23	-263.22	57.03	-94.03	4529.94	167.05	27.21	PASS
10516.00†	7680.00	-4252.38	-2259.38	16020.00	7844.23	-263.22	57.03	-94.03	4615.85	165.32	28.02	PASS
10616.00†	7680.00	-4352.38	-2258.94	16020.00	7844.23	-263.22	57.03	-94.03	4702.33	163.66	28.84	PASS
10716.00†	7680.00	-4452.38	-2258.50	16020.00	7844.23	-263.22	57.03	-94.03	4789.33	162.06	29.66	PASS
10816.00†	7680.00	-4552.37	-2258.06	16020.00	7844.23	-263.22	57.03	-94.03	4876.83	160.52	30.49	PASS
10916.00†	7680.00	-4652.37	-2257.61	16020.00	7844.23	-263.22	57.03	-94.03	4964.80	159.04	31.33	PASS
11016.00†	7680.00	-4752.37	-2257.17	16020.00	7844.23	-263.22	57.03	-94.03	5053.22	157.61	32.18	PASS
11116.00†	7680.00	-4852.37	-2256.73	16020.00	7844.23	-263.22	57.03	-94.03	5142.06	156.23	33.04	PASS
11216.00†	7680.00	-4952.37	-2256.29	16020.00	7844.23	-263.22	57.03	-94.03	5231.31	154.90	33.90	PASS
11316.00†	7680.00	-5052.37	-2255.85	16020.00	7844.23	-263.22	57.03	-94.03	5320.94	153.62	34.77	PASS
11416.00†	7680.00	-5152.37	-2255.41	16020.00	7844.23	-263.22	57.03	-94.03	5410.93	152.39	35.64	PASS
11516.00†	7680.00	-5252.37	-2254.97	16020.00	7844.23	-263.22	57.03	-94.03	5501.27	151.21	36.53	PASS
11616.00†	7680.00	-5352.37	-2254.53	16020.00	7844.23	-263.22	57.03	-94.03	5591.93	150.06	37.41	PASS
11716.00†	7680.00	-5452.37	-2254.09	16020.00	7844.23	-263.22	57.03	-94.03	5682.91	148.96	38.30	PASS
11816.00†	7680.00	-5552.36	-2253.65	16020.00	7844.23	-263.22	57.03	-94.03	5774.19	147.90	39.20	PASS
11916.00†	7680.00	-5652.36	-2253.21	16020.00	7844.23	-263.22	57.03	-94.03	5865.75	146.88	40.10	PASS

CLEARANCE DATA - Offset Wellbore: GRENNYER #36C-3HZ AWB Offset Wellpath: GRENNYER #36C-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#06 GRENNYER #36C-3HZ (689'FNL & 1650'FEL, SEC.34)				Well: GRENNYER #36C-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12016.00†	7680.00	-5752.36	-2252.77	16020.00	7844.23	-263.22	57.03	-94.03	5957.59	145.89	41.00	PASS
12116.00†	7680.00	-5852.36	-2252.32	16020.00	7844.23	-263.22	57.03	-94.03	6049.68	144.94	41.91	PASS
12216.00†	7680.00	-5952.36	-2251.88	16020.00	7844.23	-263.22	57.03	-94.03	6142.02	144.03	42.82	PASS
12316.00†	7680.00	-6052.36	-2251.44	16020.00	7844.23	-263.22	57.03	-94.03	6234.60	143.15	43.74	PASS
12416.00†	7680.00	-6152.36	-2251.00	16020.00	7844.23	-263.22	57.03	-94.03	6327.40	142.30	44.65	PASS
12516.00†	7680.00	-6252.36	-2250.56	16020.00	7844.23	-263.22	57.03	-94.03	6420.42	141.48	45.57	PASS
12616.00†	7680.00	-6352.36	-2250.12	16020.00	7844.23	-263.22	57.03	-94.03	6513.64	140.69	46.50	PASS
12716.00†	7680.00	-6452.36	-2249.68	16020.00	7844.23	-263.22	57.03	-94.03	6607.07	139.93	47.42	PASS
12816.00†	7680.00	-6552.36	-2249.24	16020.00	7844.23	-263.22	57.03	-94.03	6700.68	139.19	48.35	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNEMYER #36C-3HZ AWB Offset Wellpath: GRENNEMYER #36C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#06 GRENNEMYER #36C-3HZ (689'FNL & 1650'FEL, SEC.34) Well: GRENNEMYER #36C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12916.00†	7680.00	-6652.35	-2248.80	16020.00	7844.23	-263.22	57.03	-94.03	6794.48	138.48	49.28	PASS
13016.00†	7680.00	-6752.35	-2248.36	16020.00	7844.23	-263.22	57.03	-94.03	6888.44	137.80	50.21	PASS
13116.00†	7680.00	-6852.35	-2247.92	16020.00	7844.23	-263.22	57.03	-94.03	6982.58	137.14	51.14	PASS
13144.91	7680.00	-6881.26	-2247.79	16020.00	7844.23	-263.22	57.03	-94.03	7009.83	136.96	51.41	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: GRENNEMYER #36C-3HZ AWB Offset Wellpath: GRENNEMYER #36C-3HZ AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: GRENNEMYER #36C-3HZ AWB Offset Wellpath: GRENNEMYER #36C-3HZ 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	16.00	1094.00	1078.00	64.00	1141.99	4606.82	95.42	4606.76	96.53
9.625in Casing Surface	16.00	1094.00	1078.00	64.00	1141.99	4606.82	95.42	4606.76	96.53
8.75in Open Hole	1094.00	8208.00	7114.00	1141.99	7833.01	4606.76	96.53	4601.87	38.84
7in Casing Intermediate	16.00	8208.00	8192.00	64.00	7833.01	4606.82	95.42	4601.87	38.84
6.125in Open Hole	8208.00	16020.00	7812.00	7833.01	7844.23	4601.87	38.84	2223.18	65.10

## WELLPATH COMPOSITION - Offset Wellbore: GRENNEMYER #36C-3HZ AWB Offset Wellpath: GRENNEMYER #36C-3HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	997.00	Generic gyro - continuous (Standard)	MS ENERGY GYRO SURVEYS <100-997>	GRENNEMYER #36C-3HZ AWB
997.00	15962.00	ISCWSA MWD, Rev. 3 (Standard)	INTEGRITY DIRECTIONAL SERVICES <1174-15962>	GRENNEMYER #36C-3HZ AWB
15962.00	16020.00	Blind Drilling (std)	Projection to bit	GRENNEMYER #36C-3HZ AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: GRENNEMYER #36C-3HZ AWB Offset Wellpath: GRENNEMYER #36C-3HZ AWP

MD Reference: Rig on SLOT#06 GRENNEMYER #36C-3HZ (689'FNL & 1650'FEL, SEC.34) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNEMYER #15N-3HZ AWP Offset Wellpath: GRENNEMYER #15N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#03 GRENNEMYER #15N-3HZ (689'FNL & 1620'FEL, SEC.34) Well: GRENNEMYER #15N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	0.00	46.00	7557.13	184.02	1.40	7559.43	25.57	307.23	PASS
116.00†	116.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	7542.10	107.07	70.97	PASS
216.00†	216.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	7442.33	107.10	70.02	PASS
316.00†	316.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	7342.56	107.12	69.06	PASS
416.00†	416.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	7242.81	107.15	68.11	PASS
516.00†	516.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	7143.05	107.18	67.15	PASS
616.00†	616.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	7043.31	107.22	66.19	PASS
716.00†	716.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	6943.57	107.26	65.22	PASS
816.00†	816.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	6843.84	107.10	64.26	PASS
916.00†	916.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	6744.12	107.15	63.30	PASS
1016.00†	1016.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	6644.41	107.20	62.33	PASS
1116.00†	1116.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	6544.71	107.26	61.36	PASS
1216.00†	1216.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	6445.01	107.32	60.39	PASS
1316.00†	1316.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	6345.32	107.38	59.42	PASS
1416.00†	1416.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	6245.65	107.45	58.45	PASS
1516.00†	1516.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	6145.98	107.53	57.48	PASS
1600.00	1600.00	0.00	0.00	15828.00	7641.05	-247.01	442.62	119.16	6062.27	107.60	56.66	PASS
1616.00†	1616.00	-0.03	-0.03	15828.00	7641.05	-247.01	442.62	-111.33	6046.33	107.61	56.50	PASS
1716.00†	1715.97	-1.60	-1.72	15828.00	7641.05	-247.01	442.62	-129.42	5946.78	107.70	55.52	PASS
1816.00†	1815.80	-5.56	-5.95	15828.00	7641.05	-247.01	442.62	-141.24	5847.48	107.81	54.54	PASS
1916.00†	1915.36	-11.89	-12.72	15828.00	7641.05	-247.01	442.62	-148.94	5748.58	107.94	53.56	PASS
2016.00†	2014.54	-20.59	-22.03	15828.00	7641.05	-247.01	442.62	-154.17	5650.20	108.09	52.56	PASS
2116.00†	2113.21	-31.64	-33.86	15828.00	7641.05	-247.01	442.62	-157.89	5552.51	108.27	51.57	PASS
2216.00†	2211.26	-45.04	-48.20	15828.00	7641.05	-247.01	442.62	-160.65	5455.66	108.47	50.57	PASS
2316.00†	2308.57	-60.77	-65.03	15828.00	7641.05	-247.01	442.62	-162.76	5359.82	108.72	49.57	PASS
2416.00†	2405.01	-78.81	-84.34	15828.00	7641.05	-247.01	442.62	-164.42	5265.17	109.00	48.57	PASS
2516.00†	2500.47	-99.14	-106.09	15828.00	7641.05	-247.01	442.62	-165.75	5171.89	109.34	47.56	PASS
2616.00†	2594.84	-121.73	-130.26	15828.00	7641.05	-247.01	442.62	-166.84	5080.17	109.72	46.55	PASS
2716.00†	2687.99	-146.55	-156.82	15828.00	7641.05	-247.01	442.62	-167.75	4990.21	110.18	45.54	PASS
2816.00†	2779.81	-173.58	-185.74	15828.00	7641.05	-247.01	442.62	-168.51	4902.23	110.71	44.52	PASS
2916.00†	2870.20	-202.78	-216.99	15828.00	7641.05	-247.01	442.62	-169.16	4816.43	111.33	43.50	PASS
3016.00†	2959.04	-234.11	-250.52	15828.00	7641.05	-247.01	442.62	-169.71	4733.05	112.04	42.47	PASS
3116.00†	3046.23	-267.54	-286.29	15828.00	7641.05	-247.01	442.62	-170.19	4652.32	112.86	41.44	PASS
3117.60	3047.61	-268.10	-286.88	15828.00	7641.05	-247.01	442.62	-170.20	4651.05	112.87	41.43	PASS
3216.00†	3132.52	-302.05	-323.21	15828.00	7641.05	-247.01	442.62	-170.20	4573.44	113.75	40.42	PASS
3316.00†	3218.82	-336.55	-360.13	15828.00	7641.05	-247.01	442.62	-170.20	4495.39	114.74	39.38	PASS

CLEARANCE DATA - Offset Wellbore: GRENNYER #15N-3HZ AWB Offset Wellpath: GRENNYER #15N-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#03 GRENNYER #15N-3HZ (689'FNL & 1620'FEL, SEC.34)				Well: GRENNYER #15N-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	15828.00	7641.05	-247.01	442.62	-170.20	4418.23	115.82	38.34	PASS
3516.00†	3391.40	-405.55	-433.97	15828.00	7641.05	-247.01	442.62	-170.20	4342.01	117.01	37.30	PASS
3616.00†	3477.70	-440.05	-470.89	15828.00	7641.05	-247.01	442.62	-170.20	4266.76	118.29	36.25	PASS
3716.00†	3563.99	-474.55	-507.81	15828.00	7641.05	-247.01	442.62	-170.20	4192.55	119.68	35.21	PASS
3816.00†	3650.28	-509.05	-544.73	15828.00	7641.05	-247.01	442.62	-170.20	4119.43	121.18	34.16	PASS
3916.00†	3736.58	-543.56	-581.65	15828.00	7641.05	-247.01	442.62	-170.20	4047.46	122.80	33.12	PASS
4016.00†	3822.87	-578.06	-618.57	15828.00	7641.05	-247.01	442.62	-170.20	3976.70	124.53	32.09	PASS
4116.00†	3909.17	-612.56	-655.49	15828.00	7641.05	-247.01	442.62	-170.20	3907.23	126.38	31.06	PASS
4216.00†	3995.46	-647.06	-692.41	15828.00	7641.05	-247.01	442.62	-170.20	3839.09	128.36	30.05	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #15N-3HZ AWP Offset Wellpath: GRENNYER #15N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#03 GRENNYER #15N-3HZ (689'FNL & 1620'FEL, SEC.34) Well: GRENNYER #15N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	15828.00	7641.05	-247.01	442.62	-170.20	3772.38	130.46	29.05	PASS
4416.00†	4168.05	-716.06	-766.25	15828.00	7641.05	-247.01	442.62	-170.20	3707.17	132.69	28.06	PASS
4516.00†	4254.34	-750.56	-803.16	15828.00	7641.05	-247.01	442.62	-170.20	3643.53	135.05	27.10	PASS
4616.00†	4340.63	-785.07	-840.08	15828.00	7641.05	-247.01	442.62	-170.20	3581.56	137.54	26.15	PASS
4716.00†	4426.93	-819.57	-877.00	15828.00	7641.05	-247.01	442.62	-170.20	3521.34	140.15	25.23	PASS
4816.00†	4513.22	-854.07	-913.92	15828.00	7641.05	-247.01	442.62	-170.20	3462.95	142.90	24.33	PASS
4916.00†	4599.52	-888.57	-950.84	15828.00	7641.05	-247.01	442.62	-170.20	3406.50	145.77	23.46	PASS
5016.00†	4685.81	-923.07	-987.76	15828.00	7641.05	-247.01	442.62	-170.20	3352.09	148.76	22.62	PASS
5116.00†	4772.10	-957.57	-1024.68	15828.00	7641.05	-247.01	442.62	-170.20	3299.81	151.87	21.81	PASS
5216.00†	4858.40	-992.07	-1061.60	15828.00	7641.05	-247.01	442.62	-170.20	3249.76	155.08	21.03	PASS
5316.00†	4944.69	-1026.58	-1098.52	15828.00	7641.05	-247.01	442.62	-170.20	3202.06	158.40	20.29	PASS
5416.00†	5030.98	-1061.08	-1135.44	15828.00	7641.05	-247.01	442.62	-170.20	3156.81	161.81	19.58	PASS
5516.00†	5117.28	-1095.58	-1172.36	15828.00	7641.05	-247.01	442.62	-170.20	3114.11	165.30	18.91	PASS
5616.00†	5203.57	-1130.08	-1209.28	15828.00	7641.05	-247.01	442.62	-170.20	3074.07	168.86	18.27	PASS
5716.00†	5289.87	-1164.58	-1246.20	15828.00	7641.05	-247.01	442.62	-170.20	3036.79	172.46	17.67	PASS
5816.00†	5376.16	-1199.08	-1283.12	15828.00	7641.05	-247.01	442.62	-170.20	3002.39	176.11	17.10	PASS
5916.00†	5462.45	-1233.59	-1320.04	15828.00	7641.05	-247.01	442.62	-170.20	2970.96	179.77	16.58	PASS
6016.00†	5548.75	-1268.09	-1356.96	15828.00	7641.05	-247.01	442.62	-170.20	2942.59	183.43	16.09	PASS
6116.00†	5635.04	-1302.59	-1393.87	15828.00	7641.05	-247.01	442.62	-170.20	2917.37	187.07	15.64	PASS
6216.00†	5721.33	-1337.09	-1430.79	15828.00	7641.05	-247.01	442.62	-170.20	2895.39	190.67	15.23	PASS
6316.00†	5807.63	-1371.59	-1467.71	15828.00	7641.05	-247.01	442.62	-170.20	2876.72	194.20	14.86	PASS
6416.00†	5893.92	-1406.09	-1504.63	15828.00	7641.05	-247.01	442.62	-170.20	2861.42	197.65	14.52	PASS
6516.00†	5980.22	-1440.59	-1541.55	15828.00	7641.05	-247.01	442.62	-170.20	2849.56	201.00	14.22	PASS
6616.00†	6066.51	-1475.10	-1578.47	15828.00	7641.05	-247.01	442.62	-170.20	2841.16	204.23	13.95	PASS
6716.00†	6152.80	-1509.60	-1615.39	15828.00	7641.05	-247.01	442.62	-170.20	2836.27	207.31	13.72	PASS
6806.00†	6230.47	-1540.65	-1648.62	15828.00	7641.05	-247.01	442.62	-170.20	2834.88	209.95	13.54	PASS
6816.00†	6239.10	-1544.10	-1652.31	15828.00	7641.05	-247.01	442.62	-170.20	2834.90	210.24	13.52	PASS
6916.00†	6325.39	-1578.60	-1689.23	15828.00	7641.05	-247.01	442.62	-170.20	2837.06	212.99	13.36	PASS
7016.00†	6411.68	-1613.10	-1726.15	15828.00	7641.05	-247.01	442.62	-170.20	2842.73	215.57	13.22	PASS
7116.00†	6497.98	-1647.60	-1763.07	15828.00	7641.05	-247.01	442.62	-170.20	2851.90	217.94	13.12	PASS
7216.00†	6584.27	-1682.10	-1799.99	15828.00	7641.05	-247.01	442.62	-170.20	2864.54	220.12	13.05	PASS
7316.00†	6670.57	-1716.61	-1836.91	15828.00	7641.05	-247.01	442.62	-170.20	2880.59	222.10	13.00	PASS
7416.00†	6756.86	-1751.11	-1873.83	15828.00	7641.05	-247.01	442.62	-170.20	2900.01	223.87	12.99	PASS
7516.00†	6843.15	-1785.61	-1910.75	15828.00	7641.05	-247.01	442.62	-170.20	2922.72	225.43	13.00	PASS
7616.00†	6929.45	-1820.11	-1947.66	15828.00	7641.05	-247.01	442.62	-170.20	2948.65	226.80	13.03	PASS
7716.00†	7015.74	-1854.61	-1984.58	15828.00	7641.05	-247.01	442.62	-170.20	2977.71	227.97	13.09	PASS

CLEARANCE DATA - Offset Wellbore: GRENNEMYER #15N-3HZ AWB Offset Wellpath: GRENNEMYER #15N-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#03 GRENNEMYER #15N-3HZ (689'FNL & 1620'FEL, SEC.34)				Well: GRENNEMYER #15N-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7816.00†	7102.03	-1889.11	-2021.50	15828.00	7641.05	-247.01	442.62	-170.20	3009.81	228.94	13.18	PASS
7916.00†	7188.33	-1923.61	-2058.42	15828.00	7641.05	-247.01	442.62	-170.20	3044.87	229.74	13.29	PASS
8016.00†	7274.62	-1958.12	-2095.34	15828.00	7641.05	-247.01	442.62	-170.20	3082.76	230.37	13.41	PASS
8085.19	7334.33	-1981.99	-2120.89	15828.00	7641.05	-247.01	442.62	-170.20	3110.60	230.71	13.52	PASS
8116.00†	7360.64	-1993.39	-2132.14	15828.00	7641.05	-247.01	442.62	-165.07	3123.76	230.82	13.57	PASS
8216.00†	7441.54	-2040.68	-2166.69	15828.00	7641.05	-247.01	442.62	-150.61	3172.63	230.77	13.78	PASS
8316.00†	7513.69	-2102.53	-2197.41	15828.00	7641.05	-247.01	442.62	-138.08	3229.39	230.17	14.07	PASS
8416.00†	7574.90	-2177.06	-2223.37	15828.00	7641.05	-247.01	442.62	-126.33	3291.96	229.00	14.41	PASS
8516.00†	7623.30	-2261.99	-2243.79	15828.00	7641.05	-247.01	442.62	-115.01	3358.17	227.36	14.81	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #15N-3HZ AWP Offset Wellpath: GRENNYER #15N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#03 GRENNYER #15N-3HZ (689'FNL & 1620'FEL, SEC.34) Well: GRENNYER #15N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8616.00†	7657.43	-2354.77	-2258.05	15828.00	7641.05	-247.01	442.62	-104.32	3425.87	225.32	15.24	PASS
8716.00†	7676.26	-2452.55	-2265.70	15828.00	7641.05	-247.01	442.62	-94.79	3492.95	223.01	15.70	PASS
8784.36	7680.00	-2520.76	-2267.01	15828.00	7641.05	-247.01	442.62	-89.18	3537.45	221.31	16.03	PASS
8816.00†	7680.00	-2552.39	-2266.87	15828.00	7641.05	-247.01	442.62	-89.18	3557.77	220.49	16.18	PASS
8916.00†	7680.00	-2652.39	-2266.43	15828.00	7641.05	-247.01	442.62	-89.18	3623.03	217.93	16.67	PASS
9016.00†	7680.00	-2752.39	-2265.99	15828.00	7641.05	-247.01	442.62	-89.18	3689.86	215.42	17.17	PASS
9116.00†	7680.00	-2852.39	-2265.55	15828.00	7641.05	-247.01	442.62	-89.18	3758.16	212.94	17.70	PASS
9216.00†	7680.00	-2952.39	-2265.11	15828.00	7641.05	-247.01	442.62	-89.18	3827.85	210.51	18.23	PASS
9316.00†	7680.00	-3052.39	-2264.67	15828.00	7641.05	-247.01	442.62	-89.18	3898.86	208.13	18.78	PASS
9416.00†	7680.00	-3152.39	-2264.23	15828.00	7641.05	-247.01	442.62	-89.18	3971.12	205.80	19.35	PASS
9516.00†	7680.00	-3252.39	-2263.79	15828.00	7641.05	-247.01	442.62	-89.18	4044.56	203.53	19.93	PASS
9616.00†	7680.00	-3352.39	-2263.34	15828.00	7641.05	-247.01	442.62	-89.18	4119.12	201.30	20.52	PASS
9716.00†	7680.00	-3452.39	-2262.90	15828.00	7641.05	-247.01	442.62	-89.18	4194.74	199.14	21.13	PASS
9816.00†	7680.00	-3552.38	-2262.46	15828.00	7641.05	-247.01	442.62	-89.18	4271.36	197.02	21.74	PASS
9916.00†	7680.00	-3652.38	-2262.02	15828.00	7641.05	-247.01	442.62	-89.18	4348.93	194.97	22.37	PASS
10016.00†	7680.00	-3752.38	-2261.58	15828.00	7641.05	-247.01	442.62	-89.18	4427.40	192.97	23.01	PASS
10116.00†	7680.00	-3852.38	-2261.14	15828.00	7641.05	-247.01	442.62	-89.18	4506.73	191.02	23.67	PASS
10216.00†	7680.00	-3952.38	-2260.70	15828.00	7641.05	-247.01	442.62	-89.18	4586.86	189.13	24.33	PASS
10316.00†	7680.00	-4052.38	-2260.26	15828.00	7641.05	-247.01	442.62	-89.18	4667.76	187.29	25.00	PASS
10416.00†	7680.00	-4152.38	-2259.82	15828.00	7641.05	-247.01	442.62	-89.18	4749.38	185.50	25.68	PASS
10516.00†	7680.00	-4252.38	-2259.38	15828.00	7641.05	-247.01	442.62	-89.18	4831.70	183.77	26.38	PASS
10616.00†	7680.00	-4352.38	-2258.94	15828.00	7641.05	-247.01	442.62	-89.18	4914.67	182.09	27.08	PASS
10716.00†	7680.00	-4452.38	-2258.50	15828.00	7641.05	-247.01	442.62	-89.18	4998.27	180.46	27.79	PASS
10816.00†	7680.00	-4552.37	-2258.06	15828.00	7641.05	-247.01	442.62	-89.18	5082.46	178.88	28.51	PASS
10916.00†	7680.00	-4652.37	-2257.61	15828.00	7641.05	-247.01	442.62	-89.18	5167.21	177.34	29.23	PASS
11016.00†	7680.00	-4752.37	-2257.17	15828.00	7641.05	-247.01	442.62	-89.18	5252.50	175.85	29.97	PASS
11116.00†	7680.00	-4852.37	-2256.73	15828.00	7641.05	-247.01	442.62	-89.18	5338.30	174.41	30.71	PASS
11216.00†	7680.00	-4952.37	-2256.29	15828.00	7641.05	-247.01	442.62	-89.18	5424.58	173.01	31.46	PASS
11316.00†	7680.00	-5052.37	-2255.85	15828.00	7641.05	-247.01	442.62	-89.18	5511.33	171.66	32.22	PASS
11416.00†	7680.00	-5152.37	-2255.41	15828.00	7641.05	-247.01	442.62	-89.18	5598.53	170.34	32.98	PASS
11516.00†	7680.00	-5252.37	-2254.97	15828.00	7641.05	-247.01	442.62	-89.18	5686.14	169.07	33.75	PASS
11616.00†	7680.00	-5352.37	-2254.53	15828.00	7641.05	-247.01	442.62	-89.18	5774.15	167.83	34.53	PASS
11716.00†	7680.00	-5452.37	-2254.09	15828.00	7641.05	-247.01	442.62	-89.18	5862.55	166.64	35.31	PASS
11816.00†	7680.00	-5552.36	-2253.65	15828.00	7641.05	-247.01	442.62	-89.18	5951.32	165.48	36.09	PASS
11916.00†	7680.00	-5652.36	-2253.21	15828.00	7641.05	-247.01	442.62	-89.18	6040.44	164.35	36.89	PASS
12016.00†	7680.00	-5752.36	-2252.77	15828.00	7641.05	-247.01	442.62	-89.18	6129.89	163.27	37.68	PASS



CLEARANCE DATA - Offset Wellbore: GRENNYER #15N-3HZ AWB Offset Wellpath: GRENNYER #15N-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#03 GRENNYER #15N-3HZ (689'FNL & 1620'FEL, SEC.34)				Well: GRENNYER #15N-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12116.00†	7680.00	-5852.36	-2252.32	15828.00	7641.05	-247.01	442.62	-89.18	6219.67	162.21	38.48	PASS
12216.00†	7680.00	-5952.36	-2251.88	15828.00	7641.05	-247.01	442.62	-89.18	6309.75	161.19	39.29	PASS
12316.00†	7680.00	-6052.36	-2251.44	15828.00	7641.05	-247.01	442.62	-89.18	6400.13	160.19	40.10	PASS
12416.00†	7680.00	-6152.36	-2251.00	15828.00	7641.05	-247.01	442.62	-89.18	6490.79	159.23	40.92	PASS
12516.00†	7680.00	-6252.36	-2250.56	15828.00	7641.05	-247.01	442.62	-89.18	6581.72	158.30	41.73	PASS
12616.00†	7680.00	-6352.36	-2250.12	15828.00	7641.05	-247.01	442.62	-89.18	6672.91	157.40	42.56	PASS
12716.00†	7680.00	-6452.36	-2249.68	15828.00	7641.05	-247.01	442.62	-89.18	6764.35	156.52	43.38	PASS
12816.00†	7680.00	-6552.36	-2249.24	15828.00	7641.05	-247.01	442.62	-89.18	6856.02	155.67	44.21	PASS
12916.00†	7680.00	-6652.35	-2248.80	15828.00	7641.05	-247.01	442.62	-89.18	6947.93	154.85	45.04	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENEMYER #15N-3HZ AWB Offset Wellpath: GRENEMYER #15N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#03 GRENEMYER #15N-3HZ (689'FNL & 1620'FEL, SEC.34) Well: GRENEMYER #15N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
13016.00†	7680.00	-6752.35	-2248.36	15828.00	7641.05	-247.01	442.62	-89.18	7040.06	154.05	45.88	PASS
13116.00†	7680.00	-6852.35	-2247.92	15828.00	7641.05	-247.01	442.62	-89.18	7132.40	153.28	46.71	PASS
13144.91	7680.00	-6881.26	-2247.79	15828.00	7641.05	-247.01	442.62	-89.18	7159.13	153.06	46.96	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: GRENEMYER #15N-3HZ AWB Offset Wellpath: GRENEMYER #15N-3HZ AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: GRENEMYER #15N-3HZ AWB Offset Wellpath: GRENEMYER #15N-3HZ 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	16.00	1095.00	1079.00	62.00	1140.98	4606.82	112.16	4605.63	111.73
9.625in Casing Surface	16.00	1095.00	1079.00	62.00	1140.98	4606.82	112.16	4605.63	111.73
8.75in Open Hole	1095.00	8014.00	6919.00	1140.98	7666.72	4605.63	111.73	4608.17	182.52
7in Casing Intermediate	16.00	8014.00	7998.00	62.00	7666.72	4606.82	112.16	4608.17	182.52
6.125in Open Hole	8014.00	15828.00	7814.00	7666.72	7641.05	4608.17	182.52	2228.13	191.00

## WELLPATH COMPOSITION - Offset Wellbore: GRENEMYER #15N-3HZ AWB Offset Wellpath: GRENEMYER #15N-3HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	916.00	ISCWSA MWD, Rev. 3 (Standard)	INTEGRITY DIRECTIONAL SERVICES <116-916>	GRENEMYER #15N-3HZ AWB
916.00	15767.00	ISCWSA MWD, Rev. 3 (Standard)	INTEGRITY DIRECTIONAL SERVICES <1009-15767>	GRENEMYER #15N-3HZ AWB
15767.00	15828.00	Blind Drilling (std)	Projection to bit	GRENEMYER #15N-3HZ AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: GRENEMYER #15N-3HZ AWB Offset Wellpath: GRENEMYER #15N-3HZ AWP

MD Reference: Rig on SLOT#03 GRENEMYER #15N-3HZ (689'FNL & 1620'FEL, SEC.34) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER #3 AWB Offset Wellpath: SELTZER #3 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#02 EX SELTZER FARMS #3 (1710'FNL & 660'FWL, SEC.03, PR) Well: SELTZER #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
16.00	16.00	0.00	0.00	14.00	16.00	1256.90	-2361.93	-61.98	2675.54	60.58	44.83	PASS
116.00†	116.00	0.00	0.00	114.00	116.00	1256.90	-2361.93	-61.98	2675.54	62.61	43.36	PASS
216.00†	216.00	0.00	0.00	214.00	216.00	1256.90	-2361.93	-61.98	2675.54	64.65	41.97	PASS
316.00†	316.00	0.00	0.00	314.00	316.00	1256.90	-2361.93	-61.98	2675.54	66.69	40.67	PASS
416.00†	416.00	0.00	0.00	414.00	416.00	1256.90	-2361.93	-61.98	2675.54	68.73	39.44	PASS
516.00†	516.00	0.00	0.00	514.00	516.00	1256.90	-2361.93	-61.98	2675.54	70.78	38.29	PASS
616.00†	616.00	0.00	0.00	614.00	616.00	1256.90	-2361.93	-61.98	2675.54	72.83	37.19	PASS
716.00†	716.00	0.00	0.00	714.00	716.00	1256.90	-2361.93	-61.98	2675.54	74.89	36.16	PASS
816.00†	816.00	0.00	0.00	814.00	816.00	1256.90	-2361.93	-61.98	2675.54	76.74	35.18	PASS
916.00†	916.00	0.00	0.00	914.00	916.00	1256.90	-2361.93	-61.98	2675.54	78.80	34.25	PASS
1016.00†	1016.00	0.00	0.00	1014.00	1016.00	1256.90	-2361.93	-61.98	2675.54	80.87	33.37	PASS
1116.00†	1116.00	0.00	0.00	1114.00	1116.00	1256.90	-2361.93	-61.98	2675.54	82.81	32.53	PASS
1216.00†	1216.00	0.00	0.00	1214.00	1216.00	1256.90	-2361.93	-61.98	2675.54	84.89	31.73	PASS
1316.00†	1316.00	0.00	0.00	1314.00	1316.00	1256.90	-2361.93	-61.98	2675.54	86.97	30.96	PASS
1416.00†	1416.00	0.00	0.00	1414.00	1416.00	1256.90	-2361.93	-61.98	2675.54	89.05	30.24	PASS
1516.00†	1516.00	0.00	0.00	1514.00	1516.00	1256.90	-2361.93	-61.98	2675.54	91.14	29.54	PASS
1600.00	1600.00	0.00	0.00	1598.00	1600.00	1256.90	-2361.93	-61.98	2675.54	92.90	28.98	PASS
1616.00†	1616.00	-0.03	-0.03	1614.00	1616.00	1256.90	-2361.93	71.08	2675.52	93.23	28.87	PASS
1716.00†	1715.97	-1.60	-1.72	1713.97	1715.97	1256.90	-2361.93	71.14	2674.78	95.33	28.22	PASS
1816.00†	1815.80	-5.56	-5.95	1813.80	1815.80	1256.90	-2361.93	71.30	2672.91	97.43	27.59	PASS
1916.00†	1915.36	-11.89	-12.72	1913.36	1915.36	1256.90	-2361.93	71.54	2669.94	99.54	26.98	PASS
2016.00†	2014.54	-20.59	-22.03	2012.54	2014.54	1256.90	-2361.93	71.87	2665.91	101.64	26.37	PASS
2116.00†	2113.21	-31.64	-33.86	2111.21	2113.21	1256.90	-2361.93	72.30	2660.87	103.75	25.79	PASS
2216.00†	2211.26	-45.04	-48.20	2209.26	2211.26	1256.90	-2361.93	72.81	2654.88	105.87	25.21	PASS
2316.00†	2308.57	-60.77	-65.03	2306.57	2308.57	1256.90	-2361.93	73.41	2648.02	108.00	24.65	PASS
2416.00†	2405.01	-78.81	-84.34	2403.01	2405.01	1256.90	-2361.93	74.08	2640.37	110.14	24.09	PASS
2516.00†	2500.47	-99.14	-106.09	2498.47	2500.47	1256.90	-2361.93	74.84	2632.04	112.31	23.55	PASS
2616.00†	2594.84	-121.73	-130.26	2592.84	2594.84	1256.90	-2361.93	75.68	2623.16	114.51	23.02	PASS
2716.00†	2687.99	-146.55	-156.82	2685.99	2687.99	1256.90	-2361.93	76.58	2613.84	116.76	22.49	PASS
2816.00†	2779.81	-173.58	-185.74	2777.81	2779.81	1256.90	-2361.93	77.55	2604.24	119.05	21.98	PASS
2916.00†	2870.20	-202.78	-216.99	2868.20	2870.20	1256.90	-2361.93	78.58	2594.50	121.40	21.47	PASS
3016.00†	2959.04	-234.11	-250.52	2957.04	2959.04	1256.90	-2361.93	79.66	2584.80	123.82	20.97	PASS
3116.00†	3046.23	-267.54	-286.29	3044.23	3046.23	1256.90	-2361.93	80.79	2575.30	126.31	20.48	PASS
3117.60	3047.61	-268.10	-286.88	3045.61	3047.61	1256.90	-2361.93	80.80	2575.15	126.35	20.47	PASS
3216.00†	3132.52	-302.05	-323.21	3130.52	3132.52	1256.90	-2361.93	81.75	2566.45	128.87	20.00	PASS
3316.00†	3218.82	-336.55	-360.13	3216.82	3218.82	1256.90	-2361.93	82.72	2558.57	131.51	19.54	PASS

CLEARANCE DATA - Offset Wellbore: SELTZER #3 AWB Offset Wellpath: SELTZER #3 AWP												
Facility: SEC.03-T01S-R67W Slot: SLOT#02 EX SELTZER FARMS #3 (1710'FNL & 660'FWL, SEC.03, PR) Well: SELTZER #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
3416.00†	3305.11	-371.05	-397.05	3303.11	3305.11	1256.90	-2361.93	83.70	2551.66	134.22	19.09	PASS
3516.00†	3391.40	-405.55	-433.97	3389.40	3391.40	1256.90	-2361.93	84.67	2545.73	136.99	18.66	PASS
3616.00†	3477.70	-440.05	-470.89	3475.70	3477.70	1256.90	-2361.93	85.65	2540.80	139.81	18.25	PASS
3716.00†	3563.99	-474.55	-507.81	3561.99	3563.99	1256.90	-2361.93	86.64	2536.86	142.67	17.85	PASS
3816.00†	3650.28	-509.05	-544.73	3648.28	3650.28	1256.90	-2361.93	87.62	2533.93	145.58	17.47	PASS
3916.00†	3736.58	-543.56	-581.65	3734.58	3736.58	1256.90	-2361.93	88.61	2532.00	148.52	17.11	PASS
4016.00†	3822.87	-578.06	-618.57	3820.87	3822.87	1256.90	-2361.93	89.59	2531.08	151.49	16.77	PASS
4053.50†	3855.23	-591.00	-632.41	3850.10	3852.10	1256.90	-2361.93	89.93	2531.00	152.55	16.65	PASS
4116.00†	3909.17	-612.56	-655.49	3907.17	3909.17	1256.90	-2361.93	90.58	2531.17	154.49	16.44	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER #3 AWB Offset Wellpath: SELTZER #3 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#02 EX SELTZER FARMS #3 (1710'FNL & 660'FWL, SEC.03, PR) Well: SELTZER #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
4216.00†	3995.46	-647.06	-692.41	3993.46	3995.46	1256.90	-2361.93	91.57	2532.26	157.51	16.13	PASS
4316.00†	4081.75	-681.56	-729.33	4079.75	4081.75	1256.90	-2361.93	92.55	2534.37	160.54	15.84	PASS
4416.00†	4168.05	-716.06	-766.25	4166.05	4168.05	1256.90	-2361.93	93.54	2537.48	163.58	15.56	PASS
4516.00†	4254.34	-750.56	-803.16	4252.34	4254.34	1256.90	-2361.93	94.52	2541.59	166.64	15.30	PASS
4616.00†	4340.63	-785.07	-840.08	4338.63	4340.63	1256.90	-2361.93	95.50	2546.69	169.69	15.06	PASS
4716.00†	4426.93	-819.57	-877.00	4424.93	4426.93	1256.90	-2361.93	96.47	2552.79	172.75	14.82	PASS
4816.00†	4513.22	-854.07	-913.92	4511.22	4513.22	1256.90	-2361.93	97.45	2559.87	175.81	14.61	PASS
4916.00†	4599.52	-888.57	-950.84	4597.52	4599.52	1256.90	-2361.93	98.42	2567.92	178.86	14.40	PASS
5016.00†	4685.81	-923.07	-987.76	4683.81	4685.81	1256.90	-2361.93	99.38	2576.94	181.90	14.21	PASS
5116.00†	4772.10	-957.57	-1024.68	4770.10	4772.10	1256.90	-2361.93	100.34	2586.91	184.93	14.03	PASS
5216.00†	4858.40	-992.07	-1061.60	4856.40	4858.40	1256.90	-2361.93	101.29	2597.83	187.95	13.86	PASS
5316.00†	4944.69	-1026.58	-1098.52	4942.69	4944.69	1256.90	-2361.93	102.24	2609.69	190.96	13.70	PASS
5416.00†	5030.98	-1061.08	-1135.44	5028.98	5030.98	1256.90	-2361.93	103.18	2622.46	193.96	13.56	PASS
5516.00†	5117.28	-1095.58	-1172.36	5115.28	5117.28	1256.90	-2361.93	104.11	2636.14	196.93	13.42	PASS
5585.69†	5177.42	-1119.62	-1198.09	5160.00	5162.00	1256.90	-2361.93	104.59	2646.25	198.68	13.36	PASS
5616.00†	5203.57	-1130.08	-1209.28	5160.00	5162.00	1256.90	-2361.93	104.59	2651.04	199.01	13.36	PASS
5716.00†	5289.87	-1164.58	-1246.20	5160.00	5162.00	1256.90	-2361.93	104.59	2669.23	199.98	13.38	PASS
5816.00†	5376.16	-1199.08	-1283.12	5160.00	5162.00	1256.90	-2361.93	104.59	2691.01	200.73	13.44	PASS
5916.00†	5462.45	-1233.59	-1320.04	5160.00	5162.00	1256.90	-2361.93	104.59	2716.31	201.27	13.53	PASS
6016.00†	5548.75	-1268.09	-1356.96	5160.00	5162.00	1256.90	-2361.93	104.59	2745.01	201.61	13.65	PASS
6116.00†	5635.04	-1302.59	-1393.87	5160.00	5162.00	1256.90	-2361.93	104.59	2777.03	201.76	13.80	PASS
6216.00†	5721.33	-1337.09	-1430.79	5160.00	5162.00	1256.90	-2361.93	104.59	2812.23	201.73	13.98	PASS
6316.00†	5807.63	-1371.59	-1467.71	5160.00	5162.00	1256.90	-2361.93	104.59	2850.51	201.54	14.18	PASS
6416.00†	5893.92	-1406.09	-1504.63	5160.00	5162.00	1256.90	-2361.93	104.59	2891.75	201.21	14.41	PASS
6516.00†	5980.22	-1440.59	-1541.55	5160.00	5162.00	1256.90	-2361.93	104.59	2935.81	200.74	14.66	PASS
6616.00†	6066.51	-1475.10	-1578.47	5160.00	5162.00	1256.90	-2361.93	104.59	2982.57	200.15	14.94	PASS
6716.00†	6152.80	-1509.60	-1615.39	5160.00	5162.00	1256.90	-2361.93	104.59	3031.92	199.46	15.24	PASS
6816.00†	6239.10	-1544.10	-1652.31	5160.00	5162.00	1256.90	-2361.93	104.59	3083.71	198.68	15.56	PASS
6916.00†	6325.39	-1578.60	-1689.23	5160.00	5162.00	1256.90	-2361.93	104.59	3137.84	197.82	15.91	PASS
7016.00†	6411.68	-1613.10	-1726.15	5160.00	5162.00	1256.90	-2361.93	104.59	3194.19	196.90	16.27	PASS
7116.00†	6497.98	-1647.60	-1763.07	5160.00	5162.00	1256.90	-2361.93	104.59	3252.63	195.92	16.65	PASS
7216.00†	6584.27	-1682.10	-1799.99	5160.00	5162.00	1256.90	-2361.93	104.59	3313.06	194.90	17.05	PASS
7316.00†	6670.57	-1716.61	-1836.91	5160.00	5162.00	1256.90	-2361.93	104.59	3375.37	193.84	17.46	PASS
7416.00†	6756.86	-1751.11	-1873.83	5160.00	5162.00	1256.90	-2361.93	104.59	3439.47	192.76	17.89	PASS
7516.00†	6843.15	-1785.61	-1910.75	5160.00	5162.00	1256.90	-2361.93	104.59	3505.24	191.66	18.34	PASS
7616.00†	6929.45	-1820.11	-1947.66	5160.00	5162.00	1256.90	-2361.93	104.59	3572.60	190.55	18.80	PASS

CLEARANCE DATA - Offset Wellbore: SELTZER #3 AWB    Offset Wellpath: SELTZER #3 AWP												
Facility: SEC.03-T01S-R67W    Slot: SLOT#02 EX SELTZER FARMS #3 (1710'FNL & 660'FWL, SEC.03, PR)    Well: SELTZER #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
7716.00†	7015.74	-1854.61	-1984.58	5160.00	5162.00	1256.90	-2361.93	104.59	3641.46	189.44	19.28	PASS
7816.00†	7102.03	-1889.11	-2021.50	5160.00	5162.00	1256.90	-2361.93	104.59	3711.74	188.33	19.77	PASS
7916.00†	7188.33	-1923.61	-2058.42	5160.00	5162.00	1256.90	-2361.93	104.59	3783.36	187.22	20.27	PASS
8016.00†	7274.62	-1958.12	-2095.34	5160.00	5162.00	1256.90	-2361.93	104.59	3856.24	186.12	20.78	PASS
8085.19	7334.33	-1981.99	-2120.89	5160.00	5162.00	1256.90	-2361.93	104.59	3907.37	185.37	21.14	PASS
8116.00†	7360.64	-1993.39	-2132.14	5160.00	5162.00	1256.90	-2361.93	106.91	3930.80	185.06	21.31	PASS
8216.00†	7441.54	-2040.68	-2166.69	5160.00	5162.00	1256.90	-2361.93	109.07	4013.54	184.35	21.84	PASS
8316.00†	7513.69	-2102.53	-2197.41	5160.00	5162.00	1256.90	-2361.93	101.42	4104.06	184.14	22.36	PASS
8416.00†	7574.90	-2177.06	-2223.37	5160.00	5162.00	1256.90	-2361.93	78.67	4199.21	184.28	22.86	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER #3 AWB Offset Wellpath: SELTZER #3 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#02 EX SELTZER FARMS #3 (1710'FNL & 660'FWL, SEC.03, PR) Well: SELTZER #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
8516.00†	7623.30	-2261.99	-2243.79	5160.00	5162.00	1256.90	-2361.93	44.05	4295.88	184.79	23.32	PASS
8616.00†	7657.43	-2354.77	-2258.05	5160.00	5162.00	1256.90	-2361.93	19.53	4391.14	185.65	23.72	PASS
8716.00†	7676.26	-2452.55	-2265.70	5160.00	5162.00	1256.90	-2361.93	6.95	4482.27	186.85	24.06	PASS
8784.36	7680.00	-2520.76	-2267.01	5160.00	5162.00	1256.90	-2361.93	1.78	4540.93	187.83	24.25	PASS
8816.00†	7680.00	-2552.39	-2266.87	5160.00	5162.00	1256.90	-2361.93	1.78	4567.28	188.29	24.33	PASS
8916.00†	7680.00	-2652.39	-2266.43	5160.00	5162.00	1256.90	-2361.93	1.78	4651.02	189.68	24.59	PASS
9016.00†	7680.00	-2752.39	-2265.99	5160.00	5162.00	1256.90	-2361.93	1.78	4735.39	191.00	24.87	PASS
9116.00†	7680.00	-2852.39	-2265.55	5160.00	5162.00	1256.90	-2361.93	1.78	4820.36	192.25	25.15	PASS
9216.00†	7680.00	-2952.39	-2265.11	5160.00	5162.00	1256.90	-2361.93	1.78	4905.90	193.45	25.43	PASS
9316.00†	7680.00	-3052.39	-2264.67	5160.00	5162.00	1256.90	-2361.93	1.78	4991.97	194.58	25.73	PASS
9416.00†	7680.00	-3152.39	-2264.23	5160.00	5162.00	1256.90	-2361.93	1.78	5078.55	195.67	26.03	PASS
9516.00†	7680.00	-3252.39	-2263.79	5160.00	5162.00	1256.90	-2361.93	1.78	5165.62	196.70	26.34	PASS
9616.00†	7680.00	-3352.39	-2263.34	5160.00	5162.00	1256.90	-2361.93	1.78	5253.15	197.69	26.65	PASS
9716.00†	7680.00	-3452.39	-2262.90	5160.00	5162.00	1256.90	-2361.93	1.78	5341.11	198.63	26.97	PASS
9816.00†	7680.00	-3552.38	-2262.46	5160.00	5162.00	1256.90	-2361.93	1.78	5429.50	199.53	27.29	PASS
9916.00†	7680.00	-3652.38	-2262.02	5160.00	5162.00	1256.90	-2361.93	1.78	5518.28	200.39	27.62	PASS
10016.00†	7680.00	-3752.38	-2261.58	5160.00	5162.00	1256.90	-2361.93	1.78	5607.43	201.21	27.95	PASS
10116.00†	7680.00	-3852.38	-2261.14	5160.00	5162.00	1256.90	-2361.93	1.78	5696.95	202.00	28.28	PASS
10216.00†	7680.00	-3952.38	-2260.70	5160.00	5162.00	1256.90	-2361.93	1.78	5786.81	202.75	28.62	PASS
10316.00†	7680.00	-4052.38	-2260.26	5160.00	5162.00	1256.90	-2361.93	1.78	5877.00	203.47	28.96	PASS
10416.00†	7680.00	-4152.38	-2259.82	5160.00	5162.00	1256.90	-2361.93	1.78	5967.50	204.17	29.31	PASS
10516.00†	7680.00	-4252.38	-2259.38	5160.00	5162.00	1256.90	-2361.93	1.78	6058.30	204.83	29.66	PASS
10616.00†	7680.00	-4352.38	-2258.94	5160.00	5162.00	1256.90	-2361.93	1.78	6149.38	205.47	30.01	PASS
10716.00†	7680.00	-4452.38	-2258.50	5160.00	5162.00	1256.90	-2361.93	1.78	6240.74	206.09	30.37	PASS
10816.00†	7680.00	-4552.37	-2258.06	5160.00	5162.00	1256.90	-2361.93	1.78	6332.36	206.68	30.72	PASS
10916.00†	7680.00	-4652.37	-2257.61	5160.00	5162.00	1256.90	-2361.93	1.78	6424.23	207.24	31.08	PASS
11016.00†	7680.00	-4752.37	-2257.17	5160.00	5162.00	1256.90	-2361.93	1.78	6516.34	207.79	31.45	PASS
11116.00†	7680.00	-4852.37	-2256.73	5160.00	5162.00	1256.90	-2361.93	1.78	6608.68	208.32	31.81	PASS
11216.00†	7680.00	-4952.37	-2256.29	5160.00	5162.00	1256.90	-2361.93	1.78	6701.23	208.83	32.18	PASS
11316.00†	7680.00	-5052.37	-2255.85	5160.00	5162.00	1256.90	-2361.93	1.78	6794.00	209.32	32.55	PASS
11416.00†	7680.00	-5152.37	-2255.41	5160.00	5162.00	1256.90	-2361.93	1.78	6886.97	209.79	32.92	PASS
11516.00†	7680.00	-5252.37	-2254.97	5160.00	5162.00	1256.90	-2361.93	1.78	6980.14	210.25	33.29	PASS
11616.00†	7680.00	-5352.37	-2254.53	5160.00	5162.00	1256.90	-2361.93	1.78	7073.49	210.69	33.66	PASS
11716.00†	7680.00	-5452.37	-2254.09	5160.00	5162.00	1256.90	-2361.93	1.78	7167.02	211.12	34.04	PASS
11816.00†	7680.00	-5552.36	-2253.65	5160.00	5162.00	1256.90	-2361.93	1.78	7260.73	211.54	34.42	PASS
11916.00†	7680.00	-5652.36	-2253.21	5160.00	5162.00	1256.90	-2361.93	1.78	7354.60	211.94	34.79	PASS

CLEARANCE DATA - Offset Wellbore: SELTZER #3 AWB    Offset Wellpath: SELTZER #3 AWP												
Facility: SEC.03-T01S-R67W    Slot: SLOT#02 EX SELTZER FARMS #3 (1710'FNL & 660'FWL, SEC.03, PR)    Well: SELTZER #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
12016.00†	7680.00	-5752.36	-2252.77	5160.00	5162.00	1256.90	-2361.93	1.78	7448.62	212.33	35.17	PASS
12116.00†	7680.00	-5852.36	-2252.32	5160.00	5162.00	1256.90	-2361.93	1.78	7542.81	212.70	35.56	PASS
12216.00†	7680.00	-5952.36	-2251.88	5160.00	5162.00	1256.90	-2361.93	1.78	7637.14	213.07	35.94	PASS
12316.00†	7680.00	-6052.36	-2251.44	5160.00	5162.00	1256.90	-2361.93	1.78	7731.61	213.43	36.32	PASS
12416.00†	7680.00	-6152.36	-2251.00	5160.00	5162.00	1256.90	-2361.93	1.78	7826.22	213.77	36.71	PASS
12516.00†	7680.00	-6252.36	-2250.56	5160.00	5162.00	1256.90	-2361.93	1.78	7920.97	214.11	37.09	PASS
12616.00†	7680.00	-6352.36	-2250.12	5160.00	5162.00	1256.90	-2361.93	1.78	8015.84	214.43	37.48	PASS
12716.00†	7680.00	-6452.36	-2249.68	5160.00	5162.00	1256.90	-2361.93	1.78	8110.83	214.75	37.87	PASS
12816.00†	7680.00	-6552.36	-2249.24	5160.00	5162.00	1256.90	-2361.93	1.78	8205.94	215.06	38.26	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER #3 AWB Offset Wellpath: SELTZER #3 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#02 EX SELTZER FARMS #3 (1710'FNL & 660'FWL, SEC.03, PR) Well: SELTZER #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
12916.00†	7680.00	-6652.35	-2248.80	5160.00	5162.00	1256.90	-2361.93	1.78	8301.17	215.36	38.65	PASS
13016.00†	7680.00	-6752.35	-2248.36	5160.00	5162.00	1256.90	-2361.93	1.78	8396.51	215.65	39.04	PASS
13116.00†	7680.00	-6852.35	-2247.92	5160.00	5162.00	1256.90	-2361.93	1.78	8491.96	215.94	39.43	PASS
13144.91	7680.00	-6881.26	-2247.79	5160.00	5162.00	1256.90	-2361.93	1.78	8519.57	216.02	39.54	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: SELTZER #3 AWB Offset Wellpath: SELTZER #3 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: SELTZER #3 AWB Offset Wellpath: SELTZER #3 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	1035.00	1035.00	-14.00	1021.00	766.27	-1439.79	766.27	-1439.79
8.625in Casing Surface	0.00	1035.00	1035.00	-14.00	1021.00	766.27	-1439.79	766.27	-1439.79
7.875in Open Hole	1035.00	5160.00	4125.00	1021.00	5146.00	766.27	-1439.79	766.27	-1439.79
5.5in Casing Production	0.00	5160.00	5160.00	-14.00	5146.00	766.27	-1439.79	766.27	-1439.79

## WELLPATH COMPOSITION - Offset Wellbore: SELTZER #3 AWB Offset Wellpath: SELTZER #3 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5160.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5160>	SELTZER #3 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: SELTZER #3 AWB Offset Wellpath: SELTZER #3 AWP

MD Reference: Rig on SLOT#02 EX SELTZER FARMS #3 (1710'FNL & 660'FWL, SEC.03, 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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER #10-4 AWB Offset Wellpath: EHLER #10-4 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#06 EX EHLER#10-4 (660'FSL & 1980'FEL, SEC.10, PA) Well: EHLER #10-4 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
16.00	16.00	0.00	0.00	-8.00	16.00	-6666.80	322.03	177.24	6674.57	25.57	271.26	PASS
116.00†	116.00	0.00	0.00	92.00	116.00	-6666.80	322.03	177.24	6674.57	62.16	108.98	PASS
216.00†	216.00	0.00	0.00	192.00	216.00	-6666.80	322.03	177.24	6674.57	64.20	105.47	PASS
316.00†	316.00	0.00	0.00	292.00	316.00	-6666.80	322.03	177.24	6674.57	66.06	102.18	PASS
416.00†	416.00	0.00	0.00	392.00	416.00	-6666.80	322.03	177.24	6674.57	68.11	99.08	PASS
516.00†	516.00	0.00	0.00	492.00	516.00	-6666.80	322.03	177.24	6674.57	70.15	96.16	PASS
616.00†	616.00	0.00	0.00	592.00	616.00	-6666.80	322.03	177.24	6674.57	72.20	93.40	PASS
716.00†	716.00	0.00	0.00	692.00	716.00	-6666.80	322.03	177.24	6674.57	74.26	90.79	PASS
816.00†	816.00	0.00	0.00	792.00	816.00	-6666.80	322.03	177.24	6674.57	76.11	88.32	PASS
916.00†	916.00	0.00	0.00	892.00	916.00	-6666.80	322.03	177.24	6674.57	78.17	85.97	PASS
1016.00†	1016.00	0.00	0.00	992.00	1016.00	-6666.80	322.03	177.24	6674.57	80.24	83.74	PASS
1116.00†	1116.00	0.00	0.00	1092.00	1116.00	-6666.80	322.03	177.24	6674.57	82.31	81.62	PASS
1216.00†	1216.00	0.00	0.00	1192.00	1216.00	-6666.80	322.03	177.24	6674.57	84.38	79.60	PASS
1316.00†	1316.00	0.00	0.00	1292.00	1316.00	-6666.80	322.03	177.24	6674.57	86.46	77.68	PASS
1416.00†	1416.00	0.00	0.00	1392.00	1416.00	-6666.80	322.03	177.24	6674.57	88.54	75.84	PASS
1516.00†	1516.00	0.00	0.00	1492.00	1516.00	-6666.80	322.03	177.24	6674.57	90.63	74.09	PASS
1600.00	1600.00	0.00	0.00	1576.00	1600.00	-6666.80	322.03	177.24	6674.57	92.38	72.67	PASS
1616.00†	1616.00	-0.03	-0.03	1592.00	1616.00	-6666.80	322.03	-49.71	6674.54	92.72	72.41	PASS
1716.00†	1715.97	-1.60	-1.72	1691.97	1715.97	-6666.80	322.03	-49.74	6673.05	94.82	70.78	PASS
1816.00†	1815.80	-5.56	-5.95	1791.80	1815.80	-6666.80	322.03	-49.84	6669.31	96.94	69.18	PASS
1916.00†	1915.36	-11.89	-12.72	1891.36	1915.36	-6666.80	322.03	-49.99	6663.32	99.06	67.63	PASS
2016.00†	2014.54	-20.59	-22.03	1990.54	2014.54	-6666.80	322.03	-50.20	6655.11	101.18	66.13	PASS
2116.00†	2113.21	-31.64	-33.86	2089.21	2113.21	-6666.80	322.03	-50.47	6644.69	103.30	64.66	PASS
2216.00†	2211.26	-45.04	-48.20	2187.26	2211.26	-6666.80	322.03	-50.79	6632.09	105.42	63.23	PASS
2316.00†	2308.57	-60.77	-65.03	2284.57	2308.57	-6666.80	322.03	-51.18	6617.35	107.54	61.84	PASS
2416.00†	2405.01	-78.81	-84.34	2381.01	2405.01	-6666.80	322.03	-51.62	6600.50	109.67	60.48	PASS
2516.00†	2500.47	-99.14	-106.09	2476.47	2500.47	-6666.80	322.03	-52.12	6581.60	111.81	59.14	PASS
2616.00†	2594.84	-121.73	-130.26	2570.84	2594.84	-6666.80	322.03	-52.68	6560.68	113.97	57.84	PASS
2716.00†	2687.99	-146.55	-156.82	2663.99	2687.99	-6666.80	322.03	-53.30	6537.81	116.15	56.55	PASS
2816.00†	2779.81	-173.58	-185.74	2755.81	2779.81	-6666.80	322.03	-53.98	6513.04	118.35	55.28	PASS
2916.00†	2870.20	-202.78	-216.99	2846.20	2870.20	-6666.80	322.03	-54.71	6486.46	120.58	54.03	PASS
3016.00†	2959.04	-234.11	-250.52	2935.04	2959.04	-6666.80	322.03	-55.51	6458.12	122.85	52.80	PASS
3116.00†	3046.23	-267.54	-286.29	3022.23	3046.23	-6666.80	322.03	-56.36	6428.10	125.16	51.58	PASS
3117.60	3047.61	-268.10	-286.88	3023.61	3047.61	-6666.80	322.03	-56.37	6427.61	125.20	51.56	PASS
3216.00†	3132.52	-302.05	-323.21	3108.52	3132.52	-6666.80	322.03	-56.71	6397.37	127.50	50.38	PASS
3316.00†	3218.82	-336.55	-360.13	3194.82	3218.82	-6666.80	322.03	-57.05	6366.90	129.91	49.21	PASS

CLEARANCE DATA - Offset Wellbore: EHLER #10-4 AWB    Offset Wellpath: EHLER #10-4 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#06 EX EHLER#10-4 (660'FSL & 1980'FEL, SEC.10, PA)			Well: EHLER #10-4		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
3416.00†	3305.11	-371.05	-397.05	3281.11	3305.11	-6666.80	322.03	-57.40	6336.68	132.37	48.06	PASS
3516.00†	3391.40	-405.55	-433.97	3367.40	3391.40	-6666.80	322.03	-57.75	6306.72	134.89	46.94	PASS
3616.00†	3477.70	-440.05	-470.89	3453.70	3477.70	-6666.80	322.03	-58.10	6277.03	137.45	45.84	PASS
3716.00†	3563.99	-474.55	-507.81	3539.99	3563.99	-6666.80	322.03	-58.45	6247.60	140.07	44.77	PASS
3816.00†	3650.28	-509.05	-544.73	3626.28	3650.28	-6666.80	322.03	-58.81	6218.45	142.73	43.73	PASS
3916.00†	3736.58	-543.56	-581.65	3712.58	3736.58	-6666.80	322.03	-59.17	6189.57	145.44	42.71	PASS
4016.00†	3822.87	-578.06	-618.57	3798.87	3822.87	-6666.80	322.03	-59.54	6160.96	148.19	41.72	PASS
4116.00†	3909.17	-612.56	-655.49	3885.17	3909.17	-6666.80	322.03	-59.90	6132.65	150.98	40.76	PASS
4216.00†	3995.46	-647.06	-692.41	3971.46	3995.46	-6666.80	322.03	-60.27	6104.61	153.80	39.83	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER #10-4 AWB Offset Wellpath: EHLER #10-4 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#06 EX EHLER#10-4 (660'FSL & 1980'FEL, SEC.10, PA) Well: EHLER #10-4 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
4316.00†	4081.75	-681.56	-729.33	4057.75	4081.75	-6666.80	322.03	-60.64	6076.87	156.66	38.92	PASS
4416.00†	4168.05	-716.06	-766.25	4144.05	4168.05	-6666.80	322.03	-61.02	6049.43	159.56	38.04	PASS
4516.00†	4254.34	-750.56	-803.16	4230.34	4254.34	-6666.80	322.03	-61.39	6022.28	162.49	37.18	PASS
4616.00†	4340.63	-785.07	-840.08	4316.63	4340.63	-6666.80	322.03	-61.77	5995.44	165.45	36.35	PASS
4716.00†	4426.93	-819.57	-877.00	4402.93	4426.93	-6666.80	322.03	-62.16	5968.90	168.44	35.55	PASS
4816.00†	4513.22	-854.07	-913.92	4489.22	4513.22	-6666.80	322.03	-62.54	5942.68	171.46	34.77	PASS
4916.00†	4599.52	-888.57	-950.84	4575.52	4599.52	-6666.80	322.03	-62.93	5916.76	174.51	34.01	PASS
5016.00†	4685.81	-923.07	-987.76	4661.81	4685.81	-6666.80	322.03	-63.32	5891.17	177.58	33.27	PASS
5116.00†	4772.10	-957.57	-1024.68	4748.10	4772.10	-6666.80	322.03	-63.71	5865.91	180.67	32.56	PASS
5216.00†	4858.40	-992.07	-1061.60	4834.40	4858.40	-6666.80	322.03	-64.11	5840.97	183.79	31.87	PASS
5316.00†	4944.69	-1026.58	-1098.52	4920.69	4944.69	-6666.80	322.03	-64.51	5816.36	186.93	31.20	PASS
5416.00†	5030.98	-1061.08	-1135.44	5006.98	5030.98	-6666.80	322.03	-64.91	5792.09	190.09	30.55	PASS
5516.00†	5117.28	-1095.58	-1172.36	5093.28	5117.28	-6666.80	322.03	-65.31	5768.16	193.28	29.93	PASS
5616.00†	5203.57	-1130.08	-1209.28	5142.00	5166.00	-6666.80	322.03	-65.54	5744.70	195.76	29.43	PASS
5716.00†	5289.87	-1164.58	-1246.20	5142.00	5166.00	-6666.80	322.03	-65.54	5722.68	197.22	29.10	PASS
5816.00†	5376.16	-1199.08	-1283.12	5142.00	5166.00	-6666.80	322.03	-65.54	5702.33	198.65	28.79	PASS
5916.00†	5462.45	-1233.59	-1320.04	5142.00	5166.00	-6666.80	322.03	-65.54	5683.67	200.05	28.49	PASS
6016.00†	5548.75	-1268.09	-1356.96	5142.00	5166.00	-6666.80	322.03	-65.54	5666.71	201.41	28.21	PASS
6116.00†	5635.04	-1302.59	-1393.87	5142.00	5166.00	-6666.80	322.03	-65.54	5651.47	202.75	27.95	PASS
6216.00†	5721.33	-1337.09	-1430.79	5142.00	5166.00	-6666.80	322.03	-65.54	5637.96	204.05	27.71	PASS
6316.00†	5807.63	-1371.59	-1467.71	5142.00	5166.00	-6666.80	322.03	-65.54	5626.20	205.31	27.48	PASS
6416.00†	5893.92	-1406.09	-1504.63	5142.00	5166.00	-6666.80	322.03	-65.54	5616.19	206.53	27.27	PASS
6516.00†	5980.22	-1440.59	-1541.55	5142.00	5166.00	-6666.80	322.03	-65.54	5607.95	207.71	27.07	PASS
6616.00†	6066.51	-1475.10	-1578.47	5142.00	5166.00	-6666.80	322.03	-65.54	5601.48	208.85	26.89	PASS
6716.00†	6152.80	-1509.60	-1615.39	5142.00	5166.00	-6666.80	322.03	-65.54	5596.79	209.94	26.73	PASS
6816.00†	6239.10	-1544.10	-1652.31	5142.00	5166.00	-6666.80	322.03	-65.54	5593.89	210.98	26.58	PASS
6916.00†	6325.39	-1578.60	-1689.23	5142.00	5166.00	-6666.80	322.03	-65.54	5592.77	211.98	26.45	PASS
7016.00†	6411.68	-1613.10	-1726.15	5142.00	5166.00	-6666.80	322.03	-65.54	5593.44	212.92	26.34	PASS
7116.00†	6497.98	-1647.60	-1763.07	5142.00	5166.00	-6666.80	322.03	-65.54	5595.90	213.82	26.24	PASS
7216.00†	6584.27	-1682.10	-1799.99	5142.00	5166.00	-6666.80	322.03	-65.54	5600.14	214.66	26.16	PASS
7316.00†	6670.57	-1716.61	-1836.91	5142.00	5166.00	-6666.80	322.03	-65.54	5606.17	215.45	26.09	PASS
7416.00†	6756.86	-1751.11	-1873.83	5142.00	5166.00	-6666.80	322.03	-65.54	5613.97	216.19	26.04	PASS
7516.00†	6843.15	-1785.61	-1910.75	5142.00	5166.00	-6666.80	322.03	-65.54	5623.53	216.88	26.00	PASS
7616.00†	6929.45	-1820.11	-1947.66	5142.00	5166.00	-6666.80	322.03	-65.54	5634.86	217.51	25.97	PASS
7716.00†	7015.74	-1854.61	-1984.58	5142.00	5166.00	-6666.80	322.03	-65.54	5647.93	218.09	25.96	PASS
7816.00†	7102.03	-1889.11	-2021.50	5142.00	5166.00	-6666.80	322.03	-65.54	5662.74	218.62	25.97	PASS

CLEARANCE DATA - Offset Wellbore: EHLER #10-4 AWB    Offset Wellpath: EHLER #10-4 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#06 EX EHLER#10-4 (660'FSL & 1980'FEL, SEC.10, PA)			Well: EHLER #10-4		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
7916.00†	7188.33	-1923.61	-2058.42	5142.00	5166.00	-6666.80	322.03	-65.54	5679.27	219.10	25.99	PASS
8016.00†	7274.62	-1958.12	-2095.34	5142.00	5166.00	-6666.80	322.03	-65.54	5697.51	219.52	26.02	PASS
8085.19	7334.33	-1981.99	-2120.89	5142.00	5166.00	-6666.80	322.03	-65.54	5711.13	219.79	26.05	PASS
8116.00†	7360.64	-1993.39	-2132.14	5142.00	5166.00	-6666.80	322.03	-61.56	5716.66	219.90	26.06	PASS
8216.00†	7441.54	-2040.68	-2166.69	5142.00	5166.00	-6666.80	322.03	-51.99	5724.75	220.47	26.03	PASS
8316.00†	7513.69	-2102.53	-2197.41	5142.00	5166.00	-6666.80	322.03	-46.14	5717.67	221.43	25.89	PASS
8416.00†	7574.90	-2177.06	-2223.37	5142.00	5166.00	-6666.80	322.03	-42.80	5695.58	222.42	25.67	PASS
8516.00†	7623.30	-2261.99	-2243.79	5142.00	5166.00	-6666.80	322.03	-41.31	5658.98	223.42	25.39	PASS
8616.00†	7657.43	-2354.77	-2258.05	5142.00	5166.00	-6666.80	322.03	-41.42	5608.71	224.43	25.05	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER #10-4 AWB Offset Wellpath: EHLER #10-4 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#06 EX EHLER#10-4 (660'FSL & 1980'FEL, SEC.10, PA) Well: EHLER #10-4 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
8716.00†	7676.26	-2452.55	-2265.70	5142.00	5166.00	-6666.80	322.03	-43.22	5545.96	225.43	24.66	PASS
8784.36	7680.00	-2520.76	-2267.01	5142.00	5166.00	-6666.80	322.03	-45.64	5496.63	226.07	24.37	PASS
8816.00†	7680.00	-2552.39	-2266.87	5142.00	5166.00	-6666.80	322.03	-45.64	5472.74	226.34	24.24	PASS
8916.00†	7680.00	-2652.39	-2266.43	5142.00	5166.00	-6666.80	322.03	-45.64	5397.76	227.17	23.82	PASS
9016.00†	7680.00	-2752.39	-2265.99	5142.00	5166.00	-6666.80	322.03	-45.64	5323.59	228.01	23.41	PASS
9116.00†	7680.00	-2852.39	-2265.55	5142.00	5166.00	-6666.80	322.03	-45.64	5250.28	228.86	23.00	PASS
9216.00†	7680.00	-2952.39	-2265.11	5142.00	5166.00	-6666.80	322.03	-45.64	5177.87	229.73	22.59	PASS
9316.00†	7680.00	-3052.39	-2264.67	5142.00	5166.00	-6666.80	322.03	-45.64	5106.38	230.60	22.20	PASS
9416.00†	7680.00	-3152.39	-2264.23	5142.00	5166.00	-6666.80	322.03	-45.64	5035.87	231.48	21.81	PASS
9516.00†	7680.00	-3252.39	-2263.79	5142.00	5166.00	-6666.80	322.03	-45.64	4966.37	232.37	21.42	PASS
9616.00†	7680.00	-3352.39	-2263.34	5142.00	5166.00	-6666.80	322.03	-45.64	4897.93	233.27	21.05	PASS
9716.00†	7680.00	-3452.39	-2262.90	5142.00	5166.00	-6666.80	322.03	-45.64	4830.58	234.18	20.68	PASS
9816.00†	7680.00	-3552.38	-2262.46	5142.00	5166.00	-6666.80	322.03	-45.64	4764.39	235.09	20.31	PASS
9916.00†	7680.00	-3652.38	-2262.02	5142.00	5166.00	-6666.80	322.03	-45.64	4699.38	236.01	19.96	PASS
10016.00†	7680.00	-3752.38	-2261.58	5142.00	5166.00	-6666.80	322.03	-45.64	4635.63	236.93	19.61	PASS
10116.00†	7680.00	-3852.38	-2261.14	5142.00	5166.00	-6666.80	322.03	-45.64	4573.17	237.85	19.27	PASS
10216.00†	7680.00	-3952.38	-2260.70	5142.00	5166.00	-6666.80	322.03	-45.64	4512.07	238.77	18.94	PASS
10316.00†	7680.00	-4052.38	-2260.26	5142.00	5166.00	-6666.80	322.03	-45.64	4452.37	239.69	18.62	PASS
10416.00†	7680.00	-4152.38	-2259.82	5142.00	5166.00	-6666.80	322.03	-45.64	4394.14	240.61	18.30	PASS
10516.00†	7680.00	-4252.38	-2259.38	5142.00	5166.00	-6666.80	322.03	-45.64	4337.43	241.52	18.00	PASS
10616.00†	7680.00	-4352.38	-2258.94	5142.00	5166.00	-6666.80	322.03	-45.64	4282.30	242.43	17.70	PASS
10716.00†	7680.00	-4452.38	-2258.50	5142.00	5166.00	-6666.80	322.03	-45.64	4228.83	243.33	17.42	PASS
10816.00†	7680.00	-4552.37	-2258.06	5142.00	5166.00	-6666.80	322.03	-45.64	4177.06	244.22	17.14	PASS
10916.00†	7680.00	-4652.37	-2257.61	5142.00	5166.00	-6666.80	322.03	-45.64	4127.07	245.09	16.88	PASS
11016.00†	7680.00	-4752.37	-2257.17	5142.00	5166.00	-6666.80	322.03	-45.64	4078.91	245.96	16.62	PASS
11116.00†	7680.00	-4852.37	-2256.73	5142.00	5166.00	-6666.80	322.03	-45.64	4032.66	246.80	16.38	PASS
11216.00†	7680.00	-4952.37	-2256.29	5142.00	5166.00	-6666.80	322.03	-45.64	3988.38	247.63	16.14	PASS
11316.00†	7680.00	-5052.37	-2255.85	5142.00	5166.00	-6666.80	322.03	-45.64	3946.14	248.44	15.92	PASS
11416.00†	7680.00	-5152.37	-2255.41	5142.00	5166.00	-6666.80	322.03	-45.64	3906.01	249.22	15.71	PASS
11516.00†	7680.00	-5252.37	-2254.97	5142.00	5166.00	-6666.80	322.03	-45.64	3868.04	249.98	15.51	PASS
11616.00†	7680.00	-5352.37	-2254.53	5142.00	5166.00	-6666.80	322.03	-45.64	3832.31	250.72	15.32	PASS
11716.00†	7680.00	-5452.37	-2254.09	5142.00	5166.00	-6666.80	322.03	-45.64	3798.87	251.43	15.14	PASS
11816.00†	7680.00	-5552.36	-2253.65	5142.00	5166.00	-6666.80	322.03	-45.64	3767.79	252.11	14.98	PASS
11916.00†	7680.00	-5652.36	-2253.21	5142.00	5166.00	-6666.80	322.03	-45.64	3739.13	252.76	14.82	PASS
12016.00†	7680.00	-5752.36	-2252.77	5142.00	5166.00	-6666.80	322.03	-45.64	3712.95	253.39	14.68	PASS
12116.00†	7680.00	-5852.36	-2252.32	5142.00	5166.00	-6666.80	322.03	-45.64	3689.28	253.98	14.56	PASS

CLEARANCE DATA - Offset Wellbore: EHLER #10-4 AWB    Offset Wellpath: EHLER #10-4 AWP												
Facility: SEC.10-T01S-R67W    Slot: SLOT#06 EX EHLER#10-4 (660'FSL & 1980'FEL, SEC.10, PA)    Well: EHLER #10-4    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
12216.00†	7680.00	-5952.36	-2251.88	5142.00	5166.00	-6666.80	322.03	-45.64	3668.19	254.53	14.44	PASS
12316.00†	7680.00	-6052.36	-2251.44	5142.00	5166.00	-6666.80	322.03	-45.64	3649.73	255.05	14.34	PASS
12416.00†	7680.00	-6152.36	-2251.00	5142.00	5166.00	-6666.80	322.03	-45.64	3633.92	255.54	14.25	PASS
12516.00†	7680.00	-6252.36	-2250.56	5142.00	5166.00	-6666.80	322.03	-45.64	3620.80	256.00	14.17	PASS
12616.00†	7680.00	-6352.36	-2250.12	5142.00	5166.00	-6666.80	322.03	-45.64	3610.41	256.42	14.11	PASS
12716.00†	7680.00	-6452.36	-2249.68	5142.00	5166.00	-6666.80	322.03	-45.64	3602.76	256.80	14.06	PASS
12816.00†	7680.00	-6552.36	-2249.24	5142.00	5166.00	-6666.80	322.03	-45.64	3597.88	257.14	14.02	PASS
12916.00†	7680.00	-6652.35	-2248.80	5142.00	5166.00	-6666.80	322.03	-45.64	3595.77	257.45	14.00	PASS
12941.00†	7680.00	-6677.35	-2248.69	5142.00	5166.00	-6666.80	322.03	-45.64	3595.68	257.52	13.99	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER #10-4 AWB Offset Wellpath: EHLER #10-4 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#06 EX EHLER#10-4 (660'FSL & 1980'FEL, SEC.10, PA) Well: EHLER #10-4 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
13016.00†	7680.00	-6752.35	-2248.36	5142.00	5166.00	-6666.80	322.03	-45.64	3596.44	257.72	13.98	PASS
13059.69†	7680.00	-6796.04	-2248.16	5142.00	5166.00	-6666.80	322.03	-45.64	3597.61	257.83	13.98	PASS
13116.00†	7680.00	-6852.35	-2247.92	5142.00	5166.00	-6666.80	322.03	-45.64	3599.90	257.96	13.98	PASS
13144.91	7680.00	-6881.26	-2247.79	5142.00	5166.00	-6666.80	322.03	-45.64	3601.41	258.02	13.99	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: EHLER #10-4 AWB Offset Wellpath: EHLER #10-4 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: EHLER #10-4 AWB Offset Wellpath: EHLER #10-4 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	221.00	221.00	8.00	229.00	-4064.08	196.34	-4064.08	196.34
8.625in Casing Surface	0.00	221.00	221.00	8.00	229.00	-4064.08	196.34	-4064.08	196.34
7.875in Open Hole	221.00	5140.00	4919.00	229.00	5148.00	-4064.08	196.34	-4064.08	196.34
4.5in Casing Production	0.00	5140.00	5140.00	8.00	5148.00	-4064.08	196.34	-4064.08	196.34

## WELLPATH COMPOSITION - Offset Wellbore: EHLER #10-4 AWB Offset Wellpath: EHLER #10-4 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5142.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5142>	EHLER #10-4 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: EHLER #10-4 AWB Offset Wellpath: EHLER #10-4 AWP

MD Reference: Rig on SLOT#06 EX #10-4 (660'FSL & 1980'FEL, SEC.10, 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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #2 AWB Offset Wellpath: RIVERDALE FARMS #2 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#01 EX RIVERDALE FARMS #2 (1980'FNL & 1980'FWL, SEC.10,PA) Well: RIVERDALE FARMS #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
16.00	16.00	0.00	0.00	-16.00	30.00	-4047.56	-1034.37	-165.67	4177.66	25.57	169.77	PASS
116.00†	116.00	0.00	0.00	70.00	116.00	-4047.56	-1034.37	-165.67	4177.64	61.71	68.71	PASS
216.00†	216.00	0.00	0.00	170.00	216.00	-4047.56	-1034.37	-165.67	4177.64	63.74	66.49	PASS
316.00†	316.00	0.00	0.00	270.00	316.00	-4047.56	-1034.37	-165.67	4177.64	65.61	64.40	PASS
416.00†	416.00	0.00	0.00	370.00	416.00	-4047.56	-1034.37	-165.67	4177.64	67.64	62.44	PASS
516.00†	516.00	0.00	0.00	470.00	516.00	-4047.56	-1034.37	-165.67	4177.64	69.69	60.59	PASS
616.00†	616.00	0.00	0.00	570.00	616.00	-4047.56	-1034.37	-165.67	4177.64	71.73	58.84	PASS
716.00†	716.00	0.00	0.00	670.00	716.00	-4047.56	-1034.37	-165.67	4177.64	73.79	57.19	PASS
816.00†	816.00	0.00	0.00	770.00	816.00	-4047.56	-1034.37	-165.67	4177.64	75.63	55.63	PASS
916.00†	916.00	0.00	0.00	870.00	916.00	-4047.56	-1034.37	-165.67	4177.64	77.69	54.14	PASS
1016.00†	1016.00	0.00	0.00	970.00	1016.00	-4047.56	-1034.37	-165.67	4177.64	79.75	52.73	PASS
1116.00†	1116.00	0.00	0.00	1070.00	1116.00	-4047.56	-1034.37	-165.67	4177.64	81.82	51.39	PASS
1216.00†	1216.00	0.00	0.00	1170.00	1216.00	-4047.56	-1034.37	-165.67	4177.64	83.89	50.12	PASS
1316.00†	1316.00	0.00	0.00	1270.00	1316.00	-4047.56	-1034.37	-165.67	4177.64	85.96	48.90	PASS
1416.00†	1416.00	0.00	0.00	1370.00	1416.00	-4047.56	-1034.37	-165.67	4177.64	88.04	47.74	PASS
1516.00†	1516.00	0.00	0.00	1470.00	1516.00	-4047.56	-1034.37	-165.67	4177.64	90.12	46.63	PASS
1600.00	1600.00	0.00	0.00	1554.00	1600.00	-4047.56	-1034.37	-165.67	4177.64	91.88	45.73	PASS
1616.00†	1616.00	-0.03	-0.03	1570.00	1616.00	-4047.56	-1034.37	-32.60	4177.60	92.21	45.57	PASS
1716.00†	1715.97	-1.60	-1.72	1669.97	1715.97	-4047.56	-1034.37	-32.64	4175.66	94.31	44.53	PASS
1816.00†	1815.80	-5.56	-5.95	1769.80	1815.80	-4047.56	-1034.37	-32.74	4170.79	96.44	43.48	PASS
1916.00†	1915.36	-11.89	-12.72	1869.36	1915.36	-4047.56	-1034.37	-32.89	4162.98	98.58	42.46	PASS
2016.00†	2014.54	-20.59	-22.03	1968.54	2014.54	-4047.56	-1034.37	-33.10	4152.27	100.71	41.45	PASS
2116.00†	2113.21	-31.64	-33.86	2067.21	2113.21	-4047.56	-1034.37	-33.38	4138.67	102.83	40.45	PASS
2216.00†	2211.26	-45.04	-48.20	2165.26	2211.26	-4047.56	-1034.37	-33.71	4122.22	104.96	39.47	PASS
2316.00†	2308.57	-60.77	-65.03	2262.57	2308.57	-4047.56	-1034.37	-34.11	4102.94	107.08	38.51	PASS
2416.00†	2405.01	-78.81	-84.34	2359.01	2405.01	-4047.56	-1034.37	-34.57	4080.87	109.19	37.55	PASS
2516.00†	2500.47	-99.14	-106.09	2454.47	2500.47	-4047.56	-1034.37	-35.10	4056.08	111.31	36.61	PASS
2616.00†	2594.84	-121.73	-130.26	2548.84	2594.84	-4047.56	-1034.37	-35.70	4028.60	113.42	35.68	PASS
2716.00†	2687.99	-146.55	-156.82	2641.99	2687.99	-4047.56	-1034.37	-36.37	3998.50	115.54	34.77	PASS
2816.00†	2779.81	-173.58	-185.74	2733.81	2779.81	-4047.56	-1034.37	-37.11	3965.85	117.66	33.86	PASS
2916.00†	2870.20	-202.78	-216.99	2824.20	2870.20	-4047.56	-1034.37	-37.93	3930.71	119.79	32.96	PASS
3016.00†	2959.04	-234.11	-250.52	2913.04	2959.04	-4047.56	-1034.37	-38.83	3893.18	121.93	32.07	PASS
3116.00†	3046.23	-267.54	-286.29	3000.23	3046.23	-4047.56	-1034.37	-39.82	3853.33	124.09	31.18	PASS
3117.60	3047.61	-268.10	-286.88	3001.61	3047.61	-4047.56	-1034.37	-39.84	3852.67	124.13	31.17	PASS
3216.00†	3132.52	-302.05	-323.21	3086.52	3132.52	-4047.56	-1034.37	-40.29	3812.43	126.25	30.32	PASS
3316.00†	3218.82	-336.55	-360.13	3172.82	3218.82	-4047.56	-1034.37	-40.76	3771.77	128.46	29.48	PASS

CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #2 AWB    Offset Wellpath: RIVERDALE FARMS #2 AWP												
Facility: SEC.10-T01S-R67W		Slot: SLOT#01 EX RIVERDALE FARMS #2 (1980'FNL & 1980'FWL, SEC.10,PA)					Well: RIVERDALE FARMS #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
3416.00†	3305.11	-371.05	-397.05	3259.11	3305.11	-4047.56	-1034.37	-41.24	3731.34	130.71	28.66	PASS
3516.00†	3391.40	-405.55	-433.97	3345.40	3391.40	-4047.56	-1034.37	-41.72	3691.17	133.00	27.86	PASS
3616.00†	3477.70	-440.05	-470.89	3431.70	3477.70	-4047.56	-1034.37	-42.22	3651.25	135.34	27.08	PASS
3716.00†	3563.99	-474.55	-507.81	3517.99	3563.99	-4047.56	-1034.37	-42.73	3611.60	137.73	26.32	PASS
3816.00†	3650.28	-509.05	-544.73	3604.28	3650.28	-4047.56	-1034.37	-43.24	3572.22	140.16	25.58	PASS
3916.00†	3736.58	-543.56	-581.65	3690.58	3736.58	-4047.56	-1034.37	-43.77	3533.13	142.63	24.86	PASS
4016.00†	3822.87	-578.06	-618.57	3776.87	3822.87	-4047.56	-1034.37	-44.30	3494.33	145.15	24.16	PASS
4116.00†	3909.17	-612.56	-655.49	3863.17	3909.17	-4047.56	-1034.37	-44.85	3455.84	147.72	23.48	PASS
4216.00†	3995.46	-647.06	-692.41	3949.46	3995.46	-4047.56	-1034.37	-45.41	3417.65	150.32	22.81	PASS



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SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #2 AWB Offset Wellpath: RIVERDALE FARMS #2 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#01 EX RIVERDALE FARMS #2 (1980'FNL & 1980'FWL, SEC.10,PA) Well: RIVERDALE FARMS #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
4316.00†	4081.75	-681.56	-729.33	4035.75	4081.75	-4047.56	-1034.37	-45.98	3379.79	152.98	22.17	PASS
4416.00†	4168.05	-716.06	-766.25	4122.05	4168.05	-4047.56	-1034.37	-46.56	3342.27	155.67	21.54	PASS
4516.00†	4254.34	-750.56	-803.16	4208.34	4254.34	-4047.56	-1034.37	-47.15	3305.09	158.41	20.93	PASS
4616.00†	4340.63	-785.07	-840.08	4294.63	4340.63	-4047.56	-1034.37	-47.75	3268.28	161.19	20.34	PASS
4716.00†	4426.93	-819.57	-877.00	4380.93	4426.93	-4047.56	-1034.37	-48.36	3231.83	164.02	19.77	PASS
4816.00†	4513.22	-854.07	-913.92	4467.22	4513.22	-4047.56	-1034.37	-48.99	3195.76	166.88	19.21	PASS
4916.00†	4599.52	-888.57	-950.84	4553.52	4599.52	-4047.56	-1034.37	-49.63	3160.10	169.79	18.67	PASS
5016.00†	4685.81	-923.07	-987.76	4639.81	4685.81	-4047.56	-1034.37	-50.28	3124.84	172.74	18.14	PASS
5116.00†	4772.10	-957.57	-1024.68	4726.10	4772.10	-4047.56	-1034.37	-50.94	3090.00	175.73	17.64	PASS
5216.00†	4858.40	-992.07	-1061.60	4812.40	4858.40	-4047.56	-1034.37	-51.62	3055.61	178.76	17.14	PASS
5316.00†	4944.69	-1026.58	-1098.52	4898.69	4944.69	-4047.56	-1034.37	-52.30	3021.67	181.83	16.66	PASS
5416.00†	5030.98	-1061.08	-1135.44	4984.98	5030.98	-4047.56	-1034.37	-53.01	2988.19	184.94	16.20	PASS
5516.00†	5117.28	-1095.58	-1172.36	5071.28	5117.28	-4047.56	-1034.37	-53.72	2955.21	188.09	15.75	PASS
5616.00†	5203.57	-1130.08	-1209.28	5103.00	5149.00	-4047.56	-1034.37	-53.99	2923.23	190.18	15.41	PASS
5716.00†	5289.87	-1164.58	-1246.20	5103.00	5149.00	-4047.56	-1034.37	-53.99	2894.18	191.54	15.15	PASS
5816.00†	5376.16	-1199.08	-1283.12	5103.00	5149.00	-4047.56	-1034.37	-53.99	2868.33	192.77	14.92	PASS
5916.00†	5462.45	-1233.59	-1320.04	5103.00	5149.00	-4047.56	-1034.37	-53.99	2845.76	193.84	14.72	PASS
6016.00†	5548.75	-1268.09	-1356.96	5103.00	5149.00	-4047.56	-1034.37	-53.99	2826.54	194.76	14.55	PASS
6116.00†	5635.04	-1302.59	-1393.87	5103.00	5149.00	-4047.56	-1034.37	-53.99	2810.76	195.50	14.41	PASS
6216.00†	5721.33	-1337.09	-1430.79	5103.00	5149.00	-4047.56	-1034.37	-53.99	2798.46	196.07	14.31	PASS
6316.00†	5807.63	-1371.59	-1467.71	5103.00	5149.00	-4047.56	-1034.37	-53.99	2789.70	196.44	14.24	PASS
6416.00†	5893.92	-1406.09	-1504.63	5103.00	5149.00	-4047.56	-1034.37	-53.99	2784.50	196.62	14.20	PASS
6487.83†	5955.90	-1430.87	-1531.15	5103.00	5149.00	-4047.56	-1034.37	-53.99	2782.97	196.63	14.19	PASS
6511.00†	5975.90	-1438.87	-1539.71	5103.00	5149.00	-4047.56	-1034.37	-53.99	2782.88	196.61	14.19	PASS
6516.00†	5980.22	-1440.59	-1541.55	5103.00	5149.00	-4047.56	-1034.37	-53.99	2782.88	196.61	14.19	PASS
6616.00†	6066.51	-1475.10	-1578.47	5103.00	5149.00	-4047.56	-1034.37	-53.99	2784.86	196.40	14.22	PASS
6716.00†	6152.80	-1509.60	-1615.39	5103.00	5149.00	-4047.56	-1034.37	-53.99	2790.43	195.99	14.27	PASS
6816.00†	6239.10	-1544.10	-1652.31	5103.00	5149.00	-4047.56	-1034.37	-53.99	2799.55	195.40	14.36	PASS
6916.00†	6325.39	-1578.60	-1689.23	5103.00	5149.00	-4047.56	-1034.37	-53.99	2812.21	194.63	14.49	PASS
7016.00†	6411.68	-1613.10	-1726.15	5103.00	5149.00	-4047.56	-1034.37	-53.99	2828.34	193.68	14.64	PASS
7116.00†	6497.98	-1647.60	-1763.07	5103.00	5149.00	-4047.56	-1034.37	-53.99	2847.90	192.58	14.83	PASS
7216.00†	6584.27	-1682.10	-1799.99	5103.00	5149.00	-4047.56	-1034.37	-53.99	2870.81	191.33	15.04	PASS
7316.00†	6670.57	-1716.61	-1836.91	5103.00	5149.00	-4047.56	-1034.37	-53.99	2897.00	189.94	15.29	PASS
7416.00†	6756.86	-1751.11	-1873.83	5103.00	5149.00	-4047.56	-1034.37	-53.99	2926.36	188.44	15.57	PASS
7516.00†	6843.15	-1785.61	-1910.75	5103.00	5149.00	-4047.56	-1034.37	-53.99	2958.82	186.83	15.88	PASS
7616.00†	6929.45	-1820.11	-1947.66	5103.00	5149.00	-4047.56	-1034.37	-53.99	2994.27	185.14	16.22	PASS

CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #2 AWB    Offset Wellpath: RIVERDALE FARMS #2 AWP												
Facility: SEC.10-T01S-R67W		Slot: SLOT#01 EX RIVERDALE FARMS #2 (1980'FNL & 1980'FWL, SEC.10,PA)					Well: RIVERDALE FARMS #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
7716.00†	7015.74	-1854.61	-1984.58	5103.00	5149.00	-4047.56	-1034.37	-53.99	3032.60	183.37	16.58	PASS
7816.00†	7102.03	-1889.11	-2021.50	5103.00	5149.00	-4047.56	-1034.37	-53.99	3073.71	181.55	16.98	PASS
7916.00†	7188.33	-1923.61	-2058.42	5103.00	5149.00	-4047.56	-1034.37	-53.99	3117.48	179.68	17.40	PASS
8016.00†	7274.62	-1958.12	-2095.34	5103.00	5149.00	-4047.56	-1034.37	-53.99	3163.81	177.78	17.85	PASS
8085.19	7334.33	-1981.99	-2120.89	5103.00	5149.00	-4047.56	-1034.37	-53.99	3197.31	176.46	18.17	PASS
8116.00†	7360.64	-1993.39	-2132.14	5103.00	5149.00	-4047.56	-1034.37	-50.07	3211.87	175.86	18.32	PASS
8216.00†	7441.54	-2040.68	-2166.69	5103.00	5149.00	-4047.56	-1034.37	-40.51	3250.46	173.97	18.74	PASS
8316.00†	7513.69	-2102.53	-2197.41	5103.00	5149.00	-4047.56	-1034.37	-34.39	3275.30	172.31	19.07	PASS
8416.00†	7574.90	-2177.06	-2223.37	5103.00	5149.00	-4047.56	-1034.37	-30.45	3285.96	170.57	19.32	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #2 AWB Offset Wellpath: RIVERDALE FARMS #2 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#01 EX RIVERDALE FARMS #2 (1980'FNL & 1980'FWL, SEC.10,PA) Well: RIVERDALE FARMS #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
8516.00†	7623.30	-2261.99	-2243.79	5103.00	5149.00	-4047.56	-1034.37	-27.95	3282.25	168.80	19.50	PASS
8616.00†	7657.43	-2354.77	-2258.05	5103.00	5149.00	-4047.56	-1034.37	-26.48	3264.23	167.01	19.61	PASS
8716.00†	7676.26	-2452.55	-2265.70	5103.00	5149.00	-4047.56	-1034.37	-25.85	3232.22	165.24	19.62	PASS
8784.36	7680.00	-2520.76	-2267.01	5103.00	5149.00	-4047.56	-1034.37	-25.84	3202.58	163.99	19.59	PASS
8816.00†	7680.00	-2552.39	-2266.87	5103.00	5149.00	-4047.56	-1034.37	-25.84	3187.56	163.35	19.58	PASS
8916.00†	7680.00	-2652.39	-2266.43	5103.00	5149.00	-4047.56	-1034.37	-25.84	3141.72	161.18	19.55	PASS
9016.00†	7680.00	-2752.39	-2265.99	5103.00	5149.00	-4047.56	-1034.37	-25.84	3098.44	158.95	19.56	PASS
9116.00†	7680.00	-2852.39	-2265.55	5103.00	5149.00	-4047.56	-1034.37	-25.84	3057.81	156.67	19.58	PASS
9216.00†	7680.00	-2952.39	-2265.11	5103.00	5149.00	-4047.56	-1034.37	-25.84	3019.95	154.34	19.63	PASS
9316.00†	7680.00	-3052.39	-2264.67	5103.00	5149.00	-4047.56	-1034.37	-25.84	2984.96	152.00	19.70	PASS
9416.00†	7680.00	-3152.39	-2264.23	5103.00	5149.00	-4047.56	-1034.37	-25.84	2952.94	149.65	19.80	PASS
9516.00†	7680.00	-3252.39	-2263.79	5103.00	5149.00	-4047.56	-1034.37	-25.84	2923.99	147.33	19.92	PASS
9616.00†	7680.00	-3352.39	-2263.34	5103.00	5149.00	-4047.56	-1034.37	-25.84	2898.21	145.06	20.05	PASS
9716.00†	7680.00	-3452.39	-2262.90	5103.00	5149.00	-4047.56	-1034.37	-25.84	2875.67	142.88	20.20	PASS
9816.00†	7680.00	-3552.38	-2262.46	5103.00	5149.00	-4047.56	-1034.37	-25.84	2856.46	140.80	20.36	PASS
9916.00†	7680.00	-3652.38	-2262.02	5103.00	5149.00	-4047.56	-1034.37	-25.84	2840.64	138.87	20.53	PASS
10016.00†	7680.00	-3752.38	-2261.58	5103.00	5149.00	-4047.56	-1034.37	-25.84	2828.28	137.11	20.70	PASS
10116.00†	7680.00	-3852.38	-2261.14	5103.00	5149.00	-4047.56	-1034.37	-25.84	2819.40	135.56	20.88	PASS
10216.00†	7680.00	-3952.38	-2260.70	5103.00	5149.00	-4047.56	-1034.37	-25.84	2814.06	134.23	21.05	PASS
10316.00†	7680.00	-4052.38	-2260.26	5103.00	5149.00	-4047.56	-1034.37	-25.84	2812.26	133.13	21.21	PASS
10416.00†	7680.00	-4152.38	-2259.82	5103.00	5149.00	-4047.56	-1034.37	-25.84	2814.01	132.29	21.35	PASS
10516.00†	7680.00	-4252.38	-2259.38	5103.00	5149.00	-4047.56	-1034.37	-25.84	2819.32	131.70	21.49	PASS
10616.00†	7680.00	-4352.38	-2258.94	5103.00	5149.00	-4047.56	-1034.37	-25.84	2828.15	131.36	21.61	PASS
10716.00†	7680.00	-4452.38	-2258.50	5103.00	5149.00	-4047.56	-1034.37	-25.84	2840.48	131.26	21.73	PASS
10816.00†	7680.00	-4552.37	-2258.06	5103.00	5149.00	-4047.56	-1034.37	-25.84	2856.26	131.37	21.83	PASS
10916.00†	7680.00	-4652.37	-2257.61	5103.00	5149.00	-4047.56	-1034.37	-25.84	2875.43	131.69	21.92	PASS
11016.00†	7680.00	-4752.37	-2257.17	5103.00	5149.00	-4047.56	-1034.37	-25.84	2897.92	132.18	22.01	PASS
11116.00†	7680.00	-4852.37	-2256.73	5103.00	5149.00	-4047.56	-1034.37	-25.84	2923.67	132.82	22.10	PASS
11216.00†	7680.00	-4952.37	-2256.29	5103.00	5149.00	-4047.56	-1034.37	-25.84	2952.58	133.60	22.19	PASS
11316.00†	7680.00	-5052.37	-2255.85	5103.00	5149.00	-4047.56	-1034.37	-25.84	2984.56	134.48	22.28	PASS
11416.00†	7680.00	-5152.37	-2255.41	5103.00	5149.00	-4047.56	-1034.37	-25.84	3019.52	135.46	22.38	PASS
11516.00†	7680.00	-5252.37	-2254.97	5103.00	5149.00	-4047.56	-1034.37	-25.84	3057.35	136.50	22.48	PASS
11616.00†	7680.00	-5352.37	-2254.53	5103.00	5149.00	-4047.56	-1034.37	-25.84	3097.95	137.60	22.60	PASS
11716.00†	7680.00	-5452.37	-2254.09	5103.00	5149.00	-4047.56	-1034.37	-25.84	3141.20	138.75	22.72	PASS
11816.00†	7680.00	-5552.36	-2253.65	5103.00	5149.00	-4047.56	-1034.37	-25.84	3187.01	139.92	22.86	PASS
11916.00†	7680.00	-5652.36	-2253.21	5103.00	5149.00	-4047.56	-1034.37	-25.84	3235.26	141.11	23.01	PASS

CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #2 AWB Offset Wellpath: RIVERDALE FARMS #2 AWP												
Facility: SEC.10-T01S-R67W		Slot: SLOT#01 EX RIVERDALE FARMS #2 (1980'FNL & 1980'FWL, SEC.10,PA)					Well: RIVERDALE FARMS #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
12016.00†	7680.00	-5752.36	-2252.77	5103.00	5149.00	-4047.56	-1034.37	-25.84	3285.85	142.32	23.17	PASS
12116.00†	7680.00	-5852.36	-2252.32	5103.00	5149.00	-4047.56	-1034.37	-25.84	3338.66	143.53	23.35	PASS
12216.00†	7680.00	-5952.36	-2251.88	5103.00	5149.00	-4047.56	-1034.37	-25.84	3393.61	144.74	23.53	PASS
12316.00†	7680.00	-6052.36	-2251.44	5103.00	5149.00	-4047.56	-1034.37	-25.84	3450.57	145.94	23.73	PASS
12416.00†	7680.00	-6152.36	-2251.00	5103.00	5149.00	-4047.56	-1034.37	-25.84	3509.46	147.14	23.94	PASS
12516.00†	7680.00	-6252.36	-2250.56	5103.00	5149.00	-4047.56	-1034.37	-25.84	3570.18	148.32	24.16	PASS
12616.00†	7680.00	-6352.36	-2250.12	5103.00	5149.00	-4047.56	-1034.37	-25.84	3632.64	149.49	24.38	PASS
12716.00†	7680.00	-6452.36	-2249.68	5103.00	5149.00	-4047.56	-1034.37	-25.84	3696.75	150.64	24.62	PASS
12816.00†	7680.00	-6552.36	-2249.24	5103.00	5149.00	-4047.56	-1034.37	-25.84	3762.43	151.78	24.87	PASS



# Clearance Report

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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #2 AWB Offset Wellpath: RIVERDALE FARMS #2 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#01 EX RIVERDALE FARMS #2 (1980'FNL & 1980'FWL, SEC.10,PA) Well: RIVERDALE FARMS #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
12916.00†	7680.00	-6652.35	-2248.80	5103.00	5149.00	-4047.56	-1034.37	-25.84	3829.59	152.89	25.13	PASS
13016.00†	7680.00	-6752.35	-2248.36	5103.00	5149.00	-4047.56	-1034.37	-25.84	3898.16	153.99	25.40	PASS
13116.00†	7680.00	-6852.35	-2247.92	5103.00	5149.00	-4047.56	-1034.37	-25.84	3968.06	155.06	25.68	PASS
13144.91	7680.00	-6881.26	-2247.79	5103.00	5149.00	-4047.56	-1034.37	-25.84	3988.51	155.37	25.76	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: RIVERDALE FARMS #2 AWB Offset Wellpath: RIVERDALE FARMS #2 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: RIVERDALE FARMS #2 AWB Offset Wellpath: RIVERDALE FARMS #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	221.00	221.00	30.00	251.00	-2467.38	-630.60	-2467.38	-630.60
8.625in Casing Surface	0.00	221.00	221.00	30.00	251.00	-2467.38	-630.60	-2467.38	-630.60
7.875in Open Hole	221.00	5103.00	4882.00	251.00	5133.00	-2467.38	-630.60	-2467.38	-630.60
4.5in Casing Production	0.00	5103.00	5103.00	30.00	5133.00	-2467.38	-630.60	-2467.38	-630.60

## WELLPATH COMPOSITION - Offset Wellbore: RIVERDALE FARMS #2 AWB Offset Wellpath: RIVERDALE FARMS #2 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5103.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5103>	RIVERDALE FARMS #2 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: RIVERDALE FARMS #2 AWB Offset Wellpath: RIVERDALE FARMS #2 AWP

MD Reference: Rig on SLOT#01 EX RIVERDALE FARMS #2 (1980'FNL & 1980'FWL, SEC.10) (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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #5 AWB Offset Wellpath: EHLER JOHN #5 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#01 EX EHLER JOHN #5 (640'FSL & 1830'FWL, SEC.10.PA) Well: EHLER JOHN #5 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	-16.00	38.00	-6688.63	-1177.42	-170.02	6791.51	25.57	276.02	PASS
116.00†	116.00	0.00	0.00	62.00	116.00	-6688.63	-1177.42	-170.02	6791.47	61.56	111.99	PASS
216.00†	216.00	0.00	0.00	162.00	216.00	-6688.63	-1177.42	-170.02	6791.47	63.59	108.35	PASS
316.00†	316.00	0.00	0.00	262.00	316.00	-6688.63	-1177.42	-170.02	6791.47	65.47	104.93	PASS
416.00†	416.00	0.00	0.00	362.00	416.00	-6688.63	-1177.42	-170.02	6791.47	67.51	101.71	PASS
516.00†	516.00	0.00	0.00	462.00	516.00	-6688.63	-1177.42	-170.02	6791.47	69.56	98.68	PASS
616.00†	616.00	0.00	0.00	562.00	616.00	-6688.63	-1177.42	-170.02	6791.47	71.62	95.82	PASS
716.00†	716.00	0.00	0.00	662.00	716.00	-6688.63	-1177.42	-170.02	6791.47	73.68	93.11	PASS
816.00†	816.00	0.00	0.00	762.00	816.00	-6688.63	-1177.42	-170.02	6791.47	75.53	90.56	PASS
916.00†	916.00	0.00	0.00	862.00	916.00	-6688.63	-1177.42	-170.02	6791.47	77.60	88.13	PASS
1016.00†	1016.00	0.00	0.00	962.00	1016.00	-6688.63	-1177.42	-170.02	6791.47	79.67	85.82	PASS
1116.00†	1116.00	0.00	0.00	1062.00	1116.00	-6688.63	-1177.42	-170.02	6791.47	81.75	83.63	PASS
1216.00†	1216.00	0.00	0.00	1162.00	1216.00	-6688.63	-1177.42	-170.02	6791.47	83.83	81.54	PASS
1316.00†	1316.00	0.00	0.00	1262.00	1316.00	-6688.63	-1177.42	-170.02	6791.47	85.91	79.55	PASS
1416.00†	1416.00	0.00	0.00	1362.00	1416.00	-6688.63	-1177.42	-170.02	6791.47	87.99	77.65	PASS
1516.00†	1516.00	0.00	0.00	1462.00	1516.00	-6688.63	-1177.42	-170.02	6791.47	90.08	75.84	PASS
1600.00	1600.00	0.00	0.00	1546.00	1600.00	-6688.63	-1177.42	-170.02	6791.47	91.84	74.38	PASS
1616.00†	1616.00	-0.03	-0.03	1562.00	1616.00	-6688.63	-1177.42	-36.96	6791.43	92.18	74.11	PASS
1716.00†	1715.97	-1.60	-1.72	1661.97	1715.97	-6688.63	-1177.42	-36.99	6789.59	94.29	72.42	PASS
1816.00†	1815.80	-5.56	-5.95	1761.80	1815.80	-6688.63	-1177.42	-37.08	6784.97	96.42	70.76	PASS
1916.00†	1915.36	-11.89	-12.72	1861.36	1915.36	-6688.63	-1177.42	-37.21	6777.56	98.56	69.14	PASS
2016.00†	2014.54	-20.59	-22.03	1960.54	2014.54	-6688.63	-1177.42	-37.40	6767.40	100.70	67.56	PASS
2116.00†	2113.21	-31.64	-33.86	2059.21	2113.21	-6688.63	-1177.42	-37.64	6754.49	102.83	66.03	PASS
2216.00†	2211.26	-45.04	-48.20	2157.26	2211.26	-6688.63	-1177.42	-37.94	6738.87	104.96	64.53	PASS
2316.00†	2308.57	-60.77	-65.03	2254.57	2308.57	-6688.63	-1177.42	-38.29	6720.55	107.09	63.07	PASS
2416.00†	2405.01	-78.81	-84.34	2351.01	2405.01	-6688.63	-1177.42	-38.69	6699.59	109.21	61.64	PASS
2516.00†	2500.47	-99.14	-106.09	2446.47	2500.47	-6688.63	-1177.42	-39.16	6676.01	111.34	60.25	PASS
2616.00†	2594.84	-121.73	-130.26	2540.84	2594.84	-6688.63	-1177.42	-39.68	6649.87	113.47	58.88	PASS
2716.00†	2687.99	-146.55	-156.82	2633.99	2687.99	-6688.63	-1177.42	-40.26	6621.21	115.61	57.54	PASS
2816.00†	2779.81	-173.58	-185.74	2725.81	2779.81	-6688.63	-1177.42	-40.90	6590.09	117.75	56.22	PASS
2916.00†	2870.20	-202.78	-216.99	2816.20	2870.20	-6688.63	-1177.42	-41.60	6556.58	119.91	54.92	PASS
3016.00†	2959.04	-234.11	-250.52	2905.04	2959.04	-6688.63	-1177.42	-42.37	6520.73	122.08	53.65	PASS
3116.00†	3046.23	-267.54	-286.29	2992.23	3046.23	-6688.63	-1177.42	-43.21	6482.62	124.28	52.39	PASS
3117.60	3047.61	-268.10	-286.88	2993.61	3047.61	-6688.63	-1177.42	-43.22	6482.00	124.31	52.37	PASS
3216.00†	3132.52	-302.05	-323.21	3078.52	3132.52	-6688.63	-1177.42	-43.51	6443.45	126.48	51.16	PASS
3316.00†	3218.82	-336.55	-360.13	3164.82	3218.82	-6688.63	-1177.42	-43.80	6404.44	128.72	49.96	PASS



CLEARANCE DATA - Offset Wellbore: EHLER JOHN #5 AWB    Offset Wellpath: EHLER JOHN #5 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#01 EX EHLER JOHN #5 (640'FSL & 1830'FWL, SEC.10,PA)			Well: EHLER JOHN #5		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	3251.11	3305.11	-6688.63	-1177.42	-44.09	6365.59	131.00	48.79	PASS
3516.00†	3391.40	-405.55	-433.97	3337.40	3391.40	-6688.63	-1177.42	-44.39	6326.91	133.33	47.64	PASS
3616.00†	3477.70	-440.05	-470.89	3423.70	3477.70	-6688.63	-1177.42	-44.69	6288.39	135.70	46.52	PASS
3716.00†	3563.99	-474.55	-507.81	3509.99	3563.99	-6688.63	-1177.42	-45.00	6250.05	138.11	45.43	PASS
3816.00†	3650.28	-509.05	-544.73	3596.28	3650.28	-6688.63	-1177.42	-45.30	6211.88	140.56	44.36	PASS
3916.00†	3736.58	-543.56	-581.65	3682.58	3736.58	-6688.63	-1177.42	-45.62	6173.88	143.04	43.32	PASS
4016.00†	3822.87	-578.06	-618.57	3768.87	3822.87	-6688.63	-1177.42	-45.93	6136.07	145.57	42.31	PASS
4116.00†	3909.17	-612.56	-655.49	3855.17	3909.17	-6688.63	-1177.42	-46.25	6098.44	148.13	41.32	PASS
4216.00†	3995.46	-647.06	-692.41	3941.46	3995.46	-6688.63	-1177.42	-46.57	6061.00	150.72	40.36	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #5 AWB Offset Wellpath: EHLER JOHN #5 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#01 EX EHLER JOHN #5 (640'FSL & 1830'FWL, SEC.10.PA) Well: EHLER JOHN #5 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	4027.75	4081.75	-6688.63	-1177.42	-46.89	6023.76	153.35	39.42	PASS
4416.00†	4168.05	-716.06	-766.25	4114.05	4168.05	-6688.63	-1177.42	-47.22	5986.70	156.01	38.50	PASS
4516.00†	4254.34	-750.56	-803.16	4200.34	4254.34	-6688.63	-1177.42	-47.55	5949.85	158.70	37.62	PASS
4616.00†	4340.63	-785.07	-840.08	4286.63	4340.63	-6688.63	-1177.42	-47.89	5913.19	161.43	36.75	PASS
4716.00†	4426.93	-819.57	-877.00	4372.93	4426.93	-6688.63	-1177.42	-48.23	5876.74	164.18	35.91	PASS
4816.00†	4513.22	-854.07	-913.92	4459.22	4513.22	-6688.63	-1177.42	-48.57	5840.51	166.97	35.09	PASS
4916.00†	4599.52	-888.57	-950.84	4545.52	4599.52	-6688.63	-1177.42	-48.91	5804.48	169.78	34.30	PASS
5016.00†	4685.81	-923.07	-987.76	4631.81	4685.81	-6688.63	-1177.42	-49.26	5768.67	172.62	33.52	PASS
5116.00†	4772.10	-957.57	-1024.68	4718.10	4772.10	-6688.63	-1177.42	-49.62	5733.09	175.48	32.77	PASS
5216.00†	4858.40	-992.07	-1061.60	4804.40	4858.40	-6688.63	-1177.42	-49.97	5697.73	178.38	32.04	PASS
5316.00†	4944.69	-1026.58	-1098.52	4890.69	4944.69	-6688.63	-1177.42	-50.33	5662.60	181.30	31.32	PASS
5416.00†	5030.98	-1061.08	-1135.44	4976.98	5030.98	-6688.63	-1177.42	-50.70	5627.71	184.24	30.63	PASS
5516.00†	5117.28	-1095.58	-1172.36	5063.28	5117.28	-6688.63	-1177.42	-51.07	5593.05	187.21	29.96	PASS
5616.00†	5203.57	-1130.08	-1209.28	5149.57	5203.57	-6688.63	-1177.42	-51.44	5558.64	190.20	29.31	PASS
5716.00†	5289.87	-1164.58	-1246.20	5188.00	5242.00	-6688.63	-1177.42	-51.61	5524.68	192.26	28.81	PASS
5816.00†	5376.16	-1199.08	-1283.12	5188.00	5242.00	-6688.63	-1177.42	-51.61	5492.20	193.54	28.45	PASS
5916.00†	5462.45	-1233.59	-1320.04	5188.00	5242.00	-6688.63	-1177.42	-51.61	5461.36	194.79	28.11	PASS
6016.00†	5548.75	-1268.09	-1356.96	5188.00	5242.00	-6688.63	-1177.42	-51.61	5432.18	196.02	27.79	PASS
6116.00†	5635.04	-1302.59	-1393.87	5188.00	5242.00	-6688.63	-1177.42	-51.61	5404.70	197.22	27.48	PASS
6216.00†	5721.33	-1337.09	-1430.79	5188.00	5242.00	-6688.63	-1177.42	-51.61	5378.93	198.39	27.18	PASS
6316.00†	5807.63	-1371.59	-1467.71	5188.00	5242.00	-6688.63	-1177.42	-51.61	5354.91	199.52	26.91	PASS
6416.00†	5893.92	-1406.09	-1504.63	5188.00	5242.00	-6688.63	-1177.42	-51.61	5332.66	200.62	26.65	PASS
6516.00†	5980.22	-1440.59	-1541.55	5188.00	5242.00	-6688.63	-1177.42	-51.61	5312.20	201.68	26.41	PASS
6616.00†	6066.51	-1475.10	-1578.47	5188.00	5242.00	-6688.63	-1177.42	-51.61	5293.54	202.69	26.18	PASS
6716.00†	6152.80	-1509.60	-1615.39	5188.00	5242.00	-6688.63	-1177.42	-51.61	5276.72	203.66	25.98	PASS
6816.00†	6239.10	-1544.10	-1652.31	5188.00	5242.00	-6688.63	-1177.42	-51.61	5261.74	204.58	25.78	PASS
6916.00†	6325.39	-1578.60	-1689.23	5188.00	5242.00	-6688.63	-1177.42	-51.61	5248.63	205.46	25.61	PASS
7016.00†	6411.68	-1613.10	-1726.15	5188.00	5242.00	-6688.63	-1177.42	-51.61	5237.39	206.28	25.45	PASS
7116.00†	6497.98	-1647.60	-1763.07	5188.00	5242.00	-6688.63	-1177.42	-51.61	5228.04	207.04	25.31	PASS
7216.00†	6584.27	-1682.10	-1799.99	5188.00	5242.00	-6688.63	-1177.42	-51.61	5220.59	207.76	25.19	PASS
7316.00†	6670.57	-1716.61	-1836.91	5188.00	5242.00	-6688.63	-1177.42	-51.61	5215.05	208.41	25.09	PASS
7416.00†	6756.86	-1751.11	-1873.83	5188.00	5242.00	-6688.63	-1177.42	-51.61	5211.42	209.01	25.00	PASS
7516.00†	6843.15	-1785.61	-1910.75	5188.00	5242.00	-6688.63	-1177.42	-51.61	5209.71	209.55	24.92	PASS
7616.00†	6929.45	-1820.11	-1947.66	5188.00	5242.00	-6688.63	-1177.42	-51.61	5209.92	210.04	24.87	PASS
7716.00†	7015.74	-1854.61	-1984.58	5188.00	5242.00	-6688.63	-1177.42	-51.61	5212.04	210.46	24.83	PASS
7816.00†	7102.03	-1889.11	-2021.50	5188.00	5242.00	-6688.63	-1177.42	-51.61	5216.09	210.82	24.80	PASS

CLEARANCE DATA - Offset Wellbore: EHLER JOHN #5 AWB    Offset Wellpath: EHLER JOHN #5 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#01 EX EHLER JOHN #5 (640'FSL & 1830'FWL, SEC.10,PA)			Well: EHLER JOHN #5		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7916.00†	7188.33	-1923.61	-2058.42	5188.00	5242.00	-6688.63	-1177.42	-51.61	5222.04	211.12	24.80	PASS
8016.00†	7274.62	-1958.12	-2095.34	5188.00	5242.00	-6688.63	-1177.42	-51.61	5229.90	211.37	24.80	PASS
8085.19	7334.33	-1981.99	-2120.89	5188.00	5242.00	-6688.63	-1177.42	-51.61	5236.45	211.50	24.82	PASS
8116.00†	7360.64	-1993.39	-2132.14	5188.00	5242.00	-6688.63	-1177.42	-47.76	5238.84	211.55	24.82	PASS
8216.00†	7441.54	-2040.68	-2166.69	5188.00	5242.00	-6688.63	-1177.42	-38.38	5236.42	211.83	24.78	PASS
8316.00†	7513.69	-2102.53	-2197.41	5188.00	5242.00	-6688.63	-1177.42	-32.38	5218.55	212.40	24.63	PASS
8416.00†	7574.90	-2177.06	-2223.37	5188.00	5242.00	-6688.63	-1177.42	-28.49	5185.63	212.87	24.42	PASS
8516.00†	7623.30	-2261.99	-2243.79	5188.00	5242.00	-6688.63	-1177.42	-26.00	5138.37	213.24	24.16	PASS
8616.00†	7657.43	-2354.77	-2258.05	5188.00	5242.00	-6688.63	-1177.42	-24.50	5077.84	213.50	23.84	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #5 AWB Offset Wellpath: EHLER JOHN #5 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#01 EX EHLER JOHN #5 (640'FSL & 1830'FWL, SEC.10.PA) Well: EHLER JOHN #5 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8716.00†	7676.26	-2452.55	-2265.70	5188.00	5242.00	-6688.63	-1177.42	-23.80	5005.43	213.67	23.48	PASS
8784.36	7680.00	-2520.76	-2267.01	5188.00	5242.00	-6688.63	-1177.42	-23.72	4949.97	213.70	23.22	PASS
8816.00†	7680.00	-2552.39	-2266.87	5188.00	5242.00	-6688.63	-1177.42	-23.72	4923.33	213.69	23.10	PASS
8916.00†	7680.00	-2652.39	-2266.43	5188.00	5242.00	-6688.63	-1177.42	-23.72	4839.52	213.59	22.71	PASS
9016.00†	7680.00	-2752.39	-2265.99	5188.00	5242.00	-6688.63	-1177.42	-23.72	4756.34	213.46	22.34	PASS
9116.00†	7680.00	-2852.39	-2265.55	5188.00	5242.00	-6688.63	-1177.42	-23.72	4673.82	213.32	21.96	PASS
9216.00†	7680.00	-2952.39	-2265.11	5188.00	5242.00	-6688.63	-1177.42	-23.72	4591.99	213.15	21.60	PASS
9316.00†	7680.00	-3052.39	-2264.67	5188.00	5242.00	-6688.63	-1177.42	-23.72	4510.90	212.95	21.23	PASS
9416.00†	7680.00	-3152.39	-2264.23	5188.00	5242.00	-6688.63	-1177.42	-23.72	4430.57	212.71	20.88	PASS
9516.00†	7680.00	-3252.39	-2263.79	5188.00	5242.00	-6688.63	-1177.42	-23.72	4351.07	212.45	20.53	PASS
9616.00†	7680.00	-3352.39	-2263.34	5188.00	5242.00	-6688.63	-1177.42	-23.72	4272.42	212.15	20.19	PASS
9716.00†	7680.00	-3452.39	-2262.90	5188.00	5242.00	-6688.63	-1177.42	-23.72	4194.69	211.80	19.85	PASS
9816.00†	7680.00	-3552.38	-2262.46	5188.00	5242.00	-6688.63	-1177.42	-23.72	4117.91	211.42	19.53	PASS
9916.00†	7680.00	-3652.38	-2262.02	5188.00	5242.00	-6688.63	-1177.42	-23.72	4042.15	210.98	19.21	PASS
10016.00†	7680.00	-3752.38	-2261.58	5188.00	5242.00	-6688.63	-1177.42	-23.72	3967.47	210.50	18.89	PASS
10116.00†	7680.00	-3852.38	-2261.14	5188.00	5242.00	-6688.63	-1177.42	-23.72	3893.92	209.96	18.59	PASS
10216.00†	7680.00	-3952.38	-2260.70	5188.00	5242.00	-6688.63	-1177.42	-23.72	3821.57	209.36	18.30	PASS
10316.00†	7680.00	-4052.38	-2260.26	5188.00	5242.00	-6688.63	-1177.42	-23.72	3750.49	208.69	18.02	PASS
10416.00†	7680.00	-4152.38	-2259.82	5188.00	5242.00	-6688.63	-1177.42	-23.72	3680.76	207.95	17.74	PASS
10516.00†	7680.00	-4252.38	-2259.38	5188.00	5242.00	-6688.63	-1177.42	-23.72	3612.45	207.14	17.48	PASS
10616.00†	7680.00	-4352.38	-2258.94	5188.00	5242.00	-6688.63	-1177.42	-23.72	3545.65	206.25	17.23	PASS
10716.00†	7680.00	-4452.38	-2258.50	5188.00	5242.00	-6688.63	-1177.42	-23.72	3480.43	205.27	17.00	PASS
10816.00†	7680.00	-4552.37	-2258.06	5188.00	5242.00	-6688.63	-1177.42	-23.72	3416.90	204.20	16.78	PASS
10916.00†	7680.00	-4652.37	-2257.61	5188.00	5242.00	-6688.63	-1177.42	-23.72	3355.15	203.03	16.57	PASS
11016.00†	7680.00	-4752.37	-2257.17	5188.00	5242.00	-6688.63	-1177.42	-23.72	3295.27	201.77	16.37	PASS
11116.00†	7680.00	-4852.37	-2256.73	5188.00	5242.00	-6688.63	-1177.42	-23.72	3237.38	200.41	16.20	PASS
11216.00†	7680.00	-4952.37	-2256.29	5188.00	5242.00	-6688.63	-1177.42	-23.72	3181.57	198.93	16.03	PASS
11316.00†	7680.00	-5052.37	-2255.85	5188.00	5242.00	-6688.63	-1177.42	-23.72	3127.97	197.35	15.89	PASS
11416.00†	7680.00	-5152.37	-2255.41	5188.00	5242.00	-6688.63	-1177.42	-23.72	3076.69	195.66	15.77	PASS
11516.00†	7680.00	-5252.37	-2254.97	5188.00	5242.00	-6688.63	-1177.42	-23.72	3027.84	193.87	15.66	PASS
11616.00†	7680.00	-5352.37	-2254.53	5188.00	5242.00	-6688.63	-1177.42	-23.72	2981.54	191.97	15.57	PASS
11716.00†	7680.00	-5452.37	-2254.09	5188.00	5242.00	-6688.63	-1177.42	-23.72	2937.93	189.98	15.51	PASS
11816.00†	7680.00	-5552.36	-2253.65	5188.00	5242.00	-6688.63	-1177.42	-23.72	2897.10	187.91	15.46	PASS
11916.00†	7680.00	-5652.36	-2253.21	5188.00	5242.00	-6688.63	-1177.42	-23.72	2859.20	185.76	15.43	PASS
11990.51†	7680.00	-5726.87	-2252.88	5188.00	5242.00	-6688.63	-1177.42	-23.72	2832.92	184.13	15.43	PASS
12016.00†	7680.00	-5752.36	-2252.77	5188.00	5242.00	-6688.63	-1177.42	-23.72	2824.32	183.56	15.43	PASS

CLEARANCE DATA - Offset Wellbore: EHLER JOHN #5 AWB    Offset Wellpath: EHLER JOHN #5 AWP												
Facility: SEC.10-T01S-R67W				Slot: SLOT#01 EX EHLER JOHN #5 (640'FSL & 1830'FWL, SEC.10,PA)		Well: EHLER JOHN #5		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12116.00†	7680.00	-5852.36	-2252.32	5188.00	5242.00	-6688.63	-1177.42	-23.72	2792.60	181.34	15.44	PASS
12216.00†	7680.00	-5952.36	-2251.88	5188.00	5242.00	-6688.63	-1177.42	-23.72	2764.13	179.11	15.48	PASS
12316.00†	7680.00	-6052.36	-2251.44	5188.00	5242.00	-6688.63	-1177.42	-23.72	2739.02	176.91	15.53	PASS
12416.00†	7680.00	-6152.36	-2251.00	5188.00	5242.00	-6688.63	-1177.42	-23.72	2717.35	174.78	15.59	PASS
12516.00†	7680.00	-6252.36	-2250.56	5188.00	5242.00	-6688.63	-1177.42	-23.72	2699.22	172.75	15.67	PASS
12616.00†	7680.00	-6352.36	-2250.12	5188.00	5242.00	-6688.63	-1177.42	-23.72	2684.70	170.87	15.76	PASS
12716.00†	7680.00	-6452.36	-2249.68	5188.00	5242.00	-6688.63	-1177.42	-23.72	2673.84	169.17	15.85	PASS
12816.00†	7680.00	-6552.36	-2249.24	5188.00	5242.00	-6688.63	-1177.42	-23.72	2666.69	167.68	15.95	PASS
12916.00†	7680.00	-6652.35	-2248.80	5188.00	5242.00	-6688.63	-1177.42	-23.72	2663.27	166.42	16.05	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #5 AWB Offset Wellpath: EHLER JOHN #5 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#01 EX EHLER JOHN #5 (640'FSL & 1830'FWL, SEC.10,PA) Well: EHLER JOHN #5 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12956.00†	7680.00	-6692.35	-2248.62	5188.00	5242.00	-6688.63	-1177.42	-23.72	2662.96	165.99	16.09	PASS
13016.00†	7680.00	-6752.35	-2248.36	5188.00	5242.00	-6688.63	-1177.42	-23.72	2663.61	165.42	16.15	PASS
13116.00†	7680.00	-6852.35	-2247.92	5188.00	5242.00	-6688.63	-1177.42	-23.72	2667.70	164.67	16.25	PASS
13144.91	7680.00	-6881.26	-2247.79	5188.00	5242.00	-6688.63	-1177.42	-23.72	2669.58	164.50	16.28	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: EHLER JOHN #5 AWB Offset Wellpath: EHLER JOHN #5 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: EHLER JOHN #5 AWB Offset Wellpath: EHLER JOHN #5 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	224.00	224.00	38.00	262.00	-4077.37	-717.85	-4077.37	-717.85
8.625in Casing Surface	0.00	224.00	224.00	38.00	262.00	-4077.37	-717.85	-4077.37	-717.85
7.875in Open Hole	224.00	5188.00	4964.00	262.00	5226.00	-4077.37	-717.85	-4077.37	-717.85
4.5in Casing Production	0.00	5188.00	5188.00	38.00	5226.00	-4077.37	-717.85	-4077.37	-717.85

## WELLPATH COMPOSITION - Offset Wellbore: EHLER JOHN #5 AWB Offset Wellpath: EHLER JOHN #5 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5188.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5188>	EHLER JOHN #5 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: EHLER JOHN #5 AWB Offset Wellpath: EHLER JOHN #5 AWP

MD Reference: Rig on SLOT#01 EX EHLER JOHN #5 (640'FSL & 1830'FWL, SEC.10) (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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #13 AWB Offset Wellpath: EHLER JOHN #13 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#04 EX EHLER JOHN #13 (1980'FNL & 660'FWL, SEC.10, PA) Well: EHLER JOHN #13 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	-13.00	16.00	-4054.76	-2354.59	-149.86	4688.83	25.16	190.57	PASS
116.00†	116.00	0.00	0.00	87.00	116.00	-4054.76	-2354.59	-149.86	4688.83	62.06	76.68	PASS
216.00†	216.00	0.00	0.00	187.00	216.00	-4054.76	-2354.59	-149.86	4688.83	64.09	74.21	PASS
316.00†	316.00	0.00	0.00	287.00	316.00	-4054.76	-2354.59	-149.86	4688.83	65.95	71.90	PASS
416.00†	416.00	0.00	0.00	387.00	416.00	-4054.76	-2354.59	-149.86	4688.83	67.99	69.72	PASS
516.00†	516.00	0.00	0.00	487.00	516.00	-4054.76	-2354.59	-149.86	4688.83	70.04	67.66	PASS
616.00†	616.00	0.00	0.00	587.00	616.00	-4054.76	-2354.59	-149.86	4688.83	72.09	65.72	PASS
716.00†	716.00	0.00	0.00	687.00	716.00	-4054.76	-2354.59	-149.86	4688.83	74.14	63.88	PASS
816.00†	816.00	0.00	0.00	787.00	816.00	-4054.76	-2354.59	-149.86	4688.83	75.99	62.14	PASS
916.00†	916.00	0.00	0.00	887.00	916.00	-4054.76	-2354.59	-149.86	4688.83	78.05	60.49	PASS
1016.00†	1016.00	0.00	0.00	987.00	1016.00	-4054.76	-2354.59	-149.86	4688.83	80.11	58.92	PASS
1116.00†	1116.00	0.00	0.00	1087.00	1116.00	-4054.76	-2354.59	-149.86	4688.83	82.18	57.43	PASS
1216.00†	1216.00	0.00	0.00	1187.00	1216.00	-4054.76	-2354.59	-149.86	4688.83	84.25	56.01	PASS
1316.00†	1316.00	0.00	0.00	1287.00	1316.00	-4054.76	-2354.59	-149.86	4688.83	86.32	54.65	PASS
1416.00†	1416.00	0.00	0.00	1387.00	1416.00	-4054.76	-2354.59	-149.86	4688.83	88.40	53.36	PASS
1516.00†	1516.00	0.00	0.00	1487.00	1516.00	-4054.76	-2354.59	-149.86	4688.83	90.49	52.12	PASS
1600.00	1600.00	0.00	0.00	1571.00	1600.00	-4054.76	-2354.59	-149.86	4688.83	92.24	51.13	PASS
1616.00†	1616.00	-0.03	-0.03	1587.00	1616.00	-4054.76	-2354.59	-16.80	4688.79	92.57	50.94	PASS
1716.00†	1715.97	-1.60	-1.72	1686.97	1715.97	-4054.76	-2354.59	-16.82	4686.58	94.68	49.78	PASS
1816.00†	1815.80	-5.56	-5.95	1786.80	1815.80	-4054.76	-2354.59	-16.87	4681.04	96.83	48.61	PASS
1916.00†	1915.36	-11.89	-12.72	1886.36	1915.36	-4054.76	-2354.59	-16.95	4672.17	98.97	47.46	PASS
2016.00†	2014.54	-20.59	-22.03	1985.54	2014.54	-4054.76	-2354.59	-17.07	4659.97	101.11	46.33	PASS
2116.00†	2113.21	-31.64	-33.86	2084.21	2113.21	-4054.76	-2354.59	-17.22	4644.48	103.25	45.21	PASS
2216.00†	2211.26	-45.04	-48.20	2182.26	2211.26	-4054.76	-2354.59	-17.41	4625.71	105.38	44.12	PASS
2316.00†	2308.57	-60.77	-65.03	2279.57	2308.57	-4054.76	-2354.59	-17.63	4603.69	107.50	43.04	PASS
2416.00†	2405.01	-78.81	-84.34	2376.01	2405.01	-4054.76	-2354.59	-17.89	4578.45	109.61	41.97	PASS
2516.00†	2500.47	-99.14	-106.09	2471.47	2500.47	-4054.76	-2354.59	-18.19	4550.02	111.71	40.92	PASS
2616.00†	2594.84	-121.73	-130.26	2565.84	2594.84	-4054.76	-2354.59	-18.53	4518.45	113.80	39.89	PASS
2716.00†	2687.99	-146.55	-156.82	2658.99	2687.99	-4054.76	-2354.59	-18.92	4483.78	115.87	38.87	PASS
2816.00†	2779.81	-173.58	-185.74	2750.81	2779.81	-4054.76	-2354.59	-19.35	4446.06	117.94	37.87	PASS
2916.00†	2870.20	-202.78	-216.99	2841.20	2870.20	-4054.76	-2354.59	-19.83	4405.35	119.99	36.88	PASS
3016.00†	2959.04	-234.11	-250.52	2930.04	2959.04	-4054.76	-2354.59	-20.37	4361.70	122.02	35.90	PASS
3116.00†	3046.23	-267.54	-286.29	3017.23	3046.23	-4054.76	-2354.59	-20.96	4315.18	124.05	34.93	PASS
3117.60	3047.61	-268.10	-286.88	3018.61	3047.61	-4054.76	-2354.59	-20.97	4314.42	124.08	34.92	PASS
3216.00†	3132.52	-302.05	-323.21	3103.52	3132.52	-4054.76	-2354.59	-21.21	4267.24	126.03	34.00	PASS
3316.00†	3218.82	-336.55	-360.13	3189.82	3218.82	-4054.76	-2354.59	-21.45	4219.35	128.04	33.09	PASS

CLEARANCE DATA - Offset Wellbore: EHLER JOHN #13 AWB    Offset Wellpath: EHLER JOHN #13 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#04 EX EHLER JOHN #13 (1980°FNL & 660°FWL, SEC.10, PA)			Well: EHLER JOHN #13		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	3276.11	3305.11	-4054.76	-2354.59	-21.70	4171.53	130.06	32.20	PASS
3516.00†	3391.40	-405.55	-433.97	3362.40	3391.40	-4054.76	-2354.59	-21.96	4123.77	132.11	31.34	PASS
3616.00†	3477.70	-440.05	-470.89	3448.70	3477.70	-4054.76	-2354.59	-22.22	4076.08	134.18	30.50	PASS
3716.00†	3563.99	-474.55	-507.81	3534.99	3563.99	-4054.76	-2354.59	-22.48	4028.45	136.27	29.68	PASS
3816.00†	3650.28	-509.05	-544.73	3621.28	3650.28	-4054.76	-2354.59	-22.76	3980.90	138.38	28.88	PASS
3916.00†	3736.58	-543.56	-581.65	3707.58	3736.58	-4054.76	-2354.59	-23.03	3933.43	140.52	28.10	PASS
4016.00†	3822.87	-578.06	-618.57	3793.87	3822.87	-4054.76	-2354.59	-23.32	3886.03	142.68	27.34	PASS
4116.00†	3909.17	-612.56	-655.49	3880.17	3909.17	-4054.76	-2354.59	-23.61	3838.71	144.86	26.60	PASS
4216.00†	3995.46	-647.06	-692.41	3966.46	3995.46	-4054.76	-2354.59	-23.91	3791.47	147.06	25.87	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #13 AWB Offset Wellpath: EHLER JOHN #13 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#04 EX EHLER JOHN #13 (1980'FNL & 660'FWL, SEC.10, PA) Well: EHLER JOHN #13 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	4052.75	4081.75	-4054.76	-2354.59	-24.22	3744.32	149.29	25.17	PASS
4416.00†	4168.05	-716.06	-766.25	4139.05	4168.05	-4054.76	-2354.59	-24.53	3697.26	151.53	24.48	PASS
4516.00†	4254.34	-750.56	-803.16	4225.34	4254.34	-4054.76	-2354.59	-24.85	3650.29	153.81	23.81	PASS
4616.00†	4340.63	-785.07	-840.08	4311.63	4340.63	-4054.76	-2354.59	-25.18	3603.41	156.11	23.16	PASS
4716.00†	4426.93	-819.57	-877.00	4397.93	4426.93	-4054.76	-2354.59	-25.52	3556.64	158.43	22.52	PASS
4816.00†	4513.22	-854.07	-913.92	4484.22	4513.22	-4054.76	-2354.59	-25.87	3509.97	160.77	21.90	PASS
4916.00†	4599.52	-888.57	-950.84	4570.52	4599.52	-4054.76	-2354.59	-26.22	3463.41	163.14	21.30	PASS
5016.00†	4685.81	-923.07	-987.76	4656.81	4685.81	-4054.76	-2354.59	-26.59	3416.97	165.54	20.71	PASS
5116.00†	4772.10	-957.57	-1024.68	4743.10	4772.10	-4054.76	-2354.59	-26.96	3370.64	167.96	20.13	PASS
5216.00†	4858.40	-992.07	-1061.60	4829.40	4858.40	-4054.76	-2354.59	-27.35	3324.43	170.41	19.57	PASS
5316.00†	4944.69	-1026.58	-1098.52	4915.69	4944.69	-4054.76	-2354.59	-27.74	3278.35	172.89	19.02	PASS
5416.00†	5030.98	-1061.08	-1135.44	5001.98	5030.98	-4054.76	-2354.59	-28.15	3232.40	175.39	18.48	PASS
5516.00†	5117.28	-1095.58	-1172.36	5088.28	5117.28	-4054.76	-2354.59	-28.56	3186.60	177.92	17.96	PASS
5616.00†	5203.57	-1130.08	-1209.28	5116.00	5145.00	-4054.76	-2354.59	-28.70	3141.48	179.38	17.57	PASS
5716.00†	5289.87	-1164.58	-1246.20	5116.00	5145.00	-4054.76	-2354.59	-28.70	3098.81	180.19	17.25	PASS
5816.00†	5376.16	-1199.08	-1283.12	5116.00	5145.00	-4054.76	-2354.59	-28.70	3058.82	180.89	16.96	PASS
5916.00†	5462.45	-1233.59	-1320.04	5116.00	5145.00	-4054.76	-2354.59	-28.70	3021.60	181.48	16.70	PASS
6016.00†	5548.75	-1268.09	-1356.96	5116.00	5145.00	-4054.76	-2354.59	-28.70	2987.28	181.94	16.47	PASS
6116.00†	5635.04	-1302.59	-1393.87	5116.00	5145.00	-4054.76	-2354.59	-28.70	2955.93	182.26	16.27	PASS
6216.00†	5721.33	-1337.09	-1430.79	5116.00	5145.00	-4054.76	-2354.59	-28.70	2927.67	182.43	16.10	PASS
6316.00†	5807.63	-1371.59	-1467.71	5116.00	5145.00	-4054.76	-2354.59	-28.70	2902.59	182.44	15.96	PASS
6416.00†	5893.92	-1406.09	-1504.63	5116.00	5145.00	-4054.76	-2354.59	-28.70	2880.75	182.28	15.85	PASS
6516.00†	5980.22	-1440.59	-1541.55	5116.00	5145.00	-4054.76	-2354.59	-28.70	2862.25	181.94	15.78	PASS
6616.00†	6066.51	-1475.10	-1578.47	5116.00	5145.00	-4054.76	-2354.59	-28.70	2847.14	181.42	15.74	PASS
6674.39†	6116.89	-1495.24	-1600.03	5116.00	5145.00	-4054.76	-2354.59	-28.70	2839.91	181.03	15.74	PASS
6716.00†	6152.80	-1509.60	-1615.39	5116.00	5145.00	-4054.76	-2354.59	-28.70	2835.48	180.71	15.74	PASS
6816.00†	6239.10	-1544.10	-1652.31	5116.00	5145.00	-4054.76	-2354.59	-28.70	2827.30	179.82	15.77	PASS
6916.00†	6325.39	-1578.60	-1689.23	5116.00	5145.00	-4054.76	-2354.59	-28.70	2822.66	178.73	15.84	PASS
7016.00†	6411.68	-1613.10	-1726.15	5116.00	5145.00	-4054.76	-2354.59	-28.70	2821.54	177.47	15.95	PASS
7116.00†	6497.98	-1647.60	-1763.07	5116.00	5145.00	-4054.76	-2354.59	-28.70	2823.98	176.02	16.09	PASS
7216.00†	6584.27	-1682.10	-1799.99	5116.00	5145.00	-4054.76	-2354.59	-28.70	2829.94	174.40	16.28	PASS
7316.00†	6670.57	-1716.61	-1836.91	5116.00	5145.00	-4054.76	-2354.59	-28.70	2839.42	172.62	16.50	PASS
7416.00†	6756.86	-1751.11	-1873.83	5116.00	5145.00	-4054.76	-2354.59	-28.70	2852.37	170.69	16.76	PASS
7516.00†	6843.15	-1785.61	-1910.75	5116.00	5145.00	-4054.76	-2354.59	-28.70	2868.76	168.63	17.07	PASS
7616.00†	6929.45	-1820.11	-1947.66	5116.00	5145.00	-4054.76	-2354.59	-28.70	2888.51	166.44	17.41	PASS
7716.00†	7015.74	-1854.61	-1984.58	5116.00	5145.00	-4054.76	-2354.59	-28.70	2911.57	164.14	17.80	PASS

CLEARANCE DATA - Offset Wellbore: EHLER JOHN #13 AWB    Offset Wellpath: EHLER JOHN #13 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#04 EX EHLER JOHN #13 (1980°FNL & 660°FWL, SEC.10, PA)			Well: EHLER JOHN #13		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7816.00†	7102.03	-1889.11	-2021.50	5116.00	5145.00	-4054.76	-2354.59	-28.70	2937.85	161.75	18.23	PASS
7916.00†	7188.33	-1923.61	-2058.42	5116.00	5145.00	-4054.76	-2354.59	-28.70	2967.27	159.28	18.69	PASS
8016.00†	7274.62	-1958.12	-2095.34	5116.00	5145.00	-4054.76	-2354.59	-28.70	2999.73	156.76	19.20	PASS
8085.19	7334.33	-1981.99	-2120.89	5116.00	5145.00	-4054.76	-2354.59	-28.70	3023.93	154.99	19.58	PASS
8116.00†	7360.64	-1993.39	-2132.14	5116.00	5145.00	-4054.76	-2354.59	-25.28	3034.43	154.18	19.75	PASS
8216.00†	7441.54	-2040.68	-2166.69	5116.00	5145.00	-4054.76	-2354.59	-16.90	3060.38	151.41	20.29	PASS
8316.00†	7513.69	-2102.53	-2197.41	5116.00	5145.00	-4054.76	-2354.59	-11.36	3073.53	148.65	20.75	PASS
8416.00†	7574.90	-2177.06	-2223.37	5116.00	5145.00	-4054.76	-2354.59	-7.46	3073.66	145.58	21.19	PASS
8516.00†	7623.30	-2261.99	-2243.79	5116.00	5145.00	-4054.76	-2354.59	-4.48	3060.76	142.26	21.60	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #13 AWB Offset Wellpath: EHLER JOHN #13 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#04 EX EHLER JOHN #13 (1980'FNL & 660'FWL, SEC.10, PA) Well: EHLER JOHN #13 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8616.00†	7657.43	-2354.77	-2258.05	5116.00	5145.00	-4054.76	-2354.59	-1.96	3035.07	138.74	21.96	PASS
8716.00†	7676.26	-2452.55	-2265.70	5116.00	5145.00	-4054.76	-2354.59	0.43	2997.04	135.08	22.28	PASS
8784.36	7680.00	-2520.76	-2267.01	5116.00	5145.00	-4054.76	-2354.59	2.13	2964.30	132.48	22.47	PASS
8816.00†	7680.00	-2552.39	-2266.87	5116.00	5145.00	-4054.76	-2354.59	2.13	2948.05	131.20	22.57	PASS
8916.00†	7680.00	-2652.39	-2266.43	5116.00	5145.00	-4054.76	-2354.59	2.13	2898.38	126.94	22.93	PASS
9016.00†	7680.00	-2752.39	-2265.99	5116.00	5145.00	-4054.76	-2354.59	2.13	2851.36	122.55	23.37	PASS
9116.00†	7680.00	-2852.39	-2265.55	5116.00	5145.00	-4054.76	-2354.59	2.13	2807.10	118.05	23.89	PASS
9216.00†	7680.00	-2952.39	-2265.11	5116.00	5145.00	-4054.76	-2354.59	2.13	2765.76	113.46	24.50	PASS
9316.00†	7680.00	-3052.39	-2264.67	5116.00	5145.00	-4054.76	-2354.59	2.13	2727.46	108.81	25.20	PASS
9416.00†	7680.00	-3152.39	-2264.23	5116.00	5145.00	-4054.76	-2354.59	2.13	2692.33	104.15	25.99	PASS
9516.00†	7680.00	-3252.39	-2263.79	5116.00	5145.00	-4054.76	-2354.59	2.13	2660.50	99.52	26.89	PASS
9616.00†	7680.00	-3352.39	-2263.34	5116.00	5145.00	-4054.76	-2354.59	2.13	2632.09	94.99	27.87	PASS
9716.00†	7680.00	-3452.39	-2262.90	5116.00	5145.00	-4054.76	-2354.59	2.13	2607.20	90.65	28.94	PASS
9816.00†	7680.00	-3552.38	-2262.46	5116.00	5145.00	-4054.76	-2354.59	2.13	2585.94	86.60	30.06	PASS
9916.00†	7680.00	-3652.38	-2262.02	5116.00	5145.00	-4054.76	-2354.59	2.13	2568.40	82.96	31.17	PASS
10016.00†	7680.00	-3752.38	-2261.58	5116.00	5145.00	-4054.76	-2354.59	2.13	2554.66	79.91	32.20	PASS
10116.00†	7680.00	-3852.38	-2261.14	5116.00	5145.00	-4054.76	-2354.59	2.13	2544.78	77.63	33.02	PASS
10216.00†	7680.00	-3952.38	-2260.70	5116.00	5145.00	-4054.76	-2354.59	2.13	2538.80	76.32	33.51	PASS
10316.00†	7680.00	-4052.38	-2260.26	5116.00	5145.00	-4054.76	-2354.59	2.13	2536.76	76.13	33.57	PASS
10416.00†	7680.00	-4152.38	-2259.82	5116.00	5145.00	-4054.76	-2354.59	2.13	2538.65	77.13	33.16	PASS
10516.00†	7680.00	-4252.38	-2259.38	5116.00	5145.00	-4054.76	-2354.59	2.13	2544.47	79.25	32.34	PASS
10616.00†	7680.00	-4352.38	-2258.94	5116.00	5145.00	-4054.76	-2354.59	2.13	2554.20	82.31	31.24	PASS
10716.00†	7680.00	-4452.38	-2258.50	5116.00	5145.00	-4054.76	-2354.59	2.13	2567.79	86.11	30.01	PASS
10816.00†	7680.00	-4552.37	-2258.06	5116.00	5145.00	-4054.76	-2354.59	2.13	2585.18	90.45	28.76	PASS
10916.00†	7680.00	-4652.37	-2257.61	5116.00	5145.00	-4054.76	-2354.59	2.13	2606.29	95.15	27.55	PASS
11016.00†	7680.00	-4752.37	-2257.17	5116.00	5145.00	-4054.76	-2354.59	2.13	2631.04	100.09	26.44	PASS
11116.00†	7680.00	-4852.37	-2256.73	5116.00	5145.00	-4054.76	-2354.59	2.13	2659.32	105.14	25.43	PASS
11216.00†	7680.00	-4952.37	-2256.29	5116.00	5145.00	-4054.76	-2354.59	2.13	2691.02	110.24	24.54	PASS
11316.00†	7680.00	-5052.37	-2255.85	5116.00	5145.00	-4054.76	-2354.59	2.13	2726.02	115.31	23.76	PASS
11416.00†	7680.00	-5152.37	-2255.41	5116.00	5145.00	-4054.76	-2354.59	2.13	2764.20	120.32	23.08	PASS
11516.00†	7680.00	-5252.37	-2254.97	5116.00	5145.00	-4054.76	-2354.59	2.13	2805.43	125.21	22.51	PASS
11616.00†	7680.00	-5352.37	-2254.53	5116.00	5145.00	-4054.76	-2354.59	2.13	2849.57	129.97	22.02	PASS
11716.00†	7680.00	-5452.37	-2254.09	5116.00	5145.00	-4054.76	-2354.59	2.13	2896.49	134.58	21.61	PASS
11816.00†	7680.00	-5552.36	-2253.65	5116.00	5145.00	-4054.76	-2354.59	2.13	2946.06	139.01	21.28	PASS
11916.00†	7680.00	-5652.36	-2253.21	5116.00	5145.00	-4054.76	-2354.59	2.13	2998.14	143.27	21.01	PASS
12016.00†	7680.00	-5752.36	-2252.77	5116.00	5145.00	-4054.76	-2354.59	2.13	3052.61	147.34	20.80	PASS

CLEARANCE DATA - Offset Wellbore: EHLER JOHN #13 AWB    Offset Wellpath: EHLER JOHN #13 AWP												
Facility: SEC.10-T01S-R67W    Slot: SLOT#04 EX EHLER JOHN #13 (1980'FNL & 660'FWL, SEC.10, PA)    Well: EHLER JOHN #13    Threshold Value=1.00    † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12116.00†	7680.00	-5852.36	-2252.32	5116.00	5145.00	-4054.76	-2354.59	2.13	3109.35	151.23	20.64	PASS
12216.00†	7680.00	-5952.36	-2251.88	5116.00	5145.00	-4054.76	-2354.59	2.13	3168.23	154.92	20.52	PASS
12316.00†	7680.00	-6052.36	-2251.44	5116.00	5145.00	-4054.76	-2354.59	2.13	3229.13	158.44	20.45	PASS
12416.00†	7680.00	-6152.36	-2251.00	5116.00	5145.00	-4054.76	-2354.59	2.13	3291.94	161.78	20.42	PASS
12516.00†	7680.00	-6252.36	-2250.56	5116.00	5145.00	-4054.76	-2354.59	2.13	3356.56	164.94	20.42	PASS
12616.00†	7680.00	-6352.36	-2250.12	5116.00	5145.00	-4054.76	-2354.59	2.13	3422.88	167.94	20.45	PASS
12716.00†	7680.00	-6452.36	-2249.68	5116.00	5145.00	-4054.76	-2354.59	2.13	3490.80	170.78	20.51	PASS
12816.00†	7680.00	-6552.36	-2249.24	5116.00	5145.00	-4054.76	-2354.59	2.13	3560.24	173.46	20.59	PASS
12916.00†	7680.00	-6652.35	-2248.80	5116.00	5145.00	-4054.76	-2354.59	2.13	3631.10	176.00	20.70	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #13 AWB Offset Wellpath: EHLER JOHN #13 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#04 EX EHLER JOHN #13 (1980'FNL & 660'FWL, SEC.10, PA) Well: EHLER JOHN #13 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
13016.00†	7680.00	-6752.35	-2248.36	5116.00	5145.00	-4054.76	-2354.59	2.13	3703.31	178.40	20.82	PASS
13116.00†	7680.00	-6852.35	-2247.92	5116.00	5145.00	-4054.76	-2354.59	2.13	3776.79	180.67	20.97	PASS
13144.91	7680.00	-6881.26	-2247.79	5116.00	5145.00	-4054.76	-2354.59	2.13	3798.26	181.30	21.01	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: EHLER JOHN #13 AWB Offset Wellpath: EHLER JOHN #13 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: EHLER JOHN #13 AWB Offset Wellpath: EHLER JOHN #13 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	210.00	210.00	13.00	223.00	-2471.71	-1435.47	-2471.71	-1435.47
8.625in Casing Surface	0.00	210.00	210.00	13.00	223.00	-2471.71	-1435.47	-2471.71	-1435.47
7.875in Open Hole	210.00	5115.00	4905.00	223.00	5128.00	-2471.71	-1435.47	-2471.71	-1435.47
4.5in Casing Production	0.00	5115.00	5115.00	13.00	5128.00	-2471.71	-1435.47	-2471.71	-1435.47

## WELLPATH COMPOSITION - Offset Wellbore: EHLER JOHN #13 AWB Offset Wellpath: EHLER JOHN #13 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5116.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5116>	EHLER JOHN #13 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: EHLER JOHN #13 AWB Offset Wellpath: EHLER JOHN #13 AWP

MD Reference: Rig on SLOT304 EX EHLER JOHN #13 (1980'FNL & 660'FWL, SEC.10, 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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER #10-2 AWB Offset Wellpath: EHLER #10-2 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#05 EX EHLER #10-2 (1980'FSL & 1980'FEL, SEC.10, PA) Well: EHLER #10-2 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
16.00	16.00	0.00	0.00	-16.00	51.00	-5344.44	316.41	176.61	5353.91	25.56	217.59	PASS
116.00†	116.00	0.00	0.00	49.00	116.00	-5344.44	316.41	176.61	5353.80	61.29	88.68	PASS
216.00†	216.00	0.00	0.00	149.00	216.00	-5344.44	316.41	176.61	5353.80	63.32	85.79	PASS
316.00†	316.00	0.00	0.00	249.00	316.00	-5344.44	316.41	176.61	5353.80	65.18	83.09	PASS
416.00†	416.00	0.00	0.00	349.00	416.00	-5344.44	316.41	176.61	5353.80	67.21	80.54	PASS
516.00†	516.00	0.00	0.00	449.00	516.00	-5344.44	316.41	176.61	5353.80	69.25	78.14	PASS
616.00†	616.00	0.00	0.00	549.00	616.00	-5344.44	316.41	176.61	5353.80	71.30	75.88	PASS
716.00†	716.00	0.00	0.00	649.00	716.00	-5344.44	316.41	176.61	5353.80	73.35	73.73	PASS
816.00†	816.00	0.00	0.00	749.00	816.00	-5344.44	316.41	176.61	5353.80	75.19	71.71	PASS
916.00†	916.00	0.00	0.00	849.00	916.00	-5344.44	316.41	176.61	5353.80	77.25	69.79	PASS
1016.00†	1016.00	0.00	0.00	949.00	1016.00	-5344.44	316.41	176.61	5353.80	79.31	67.96	PASS
1116.00†	1116.00	0.00	0.00	1049.00	1116.00	-5344.44	316.41	176.61	5353.80	81.38	66.23	PASS
1216.00†	1216.00	0.00	0.00	1149.00	1216.00	-5344.44	316.41	176.61	5353.80	83.44	64.57	PASS
1316.00†	1316.00	0.00	0.00	1249.00	1316.00	-5344.44	316.41	176.61	5353.80	85.52	63.00	PASS
1416.00†	1416.00	0.00	0.00	1349.00	1416.00	-5344.44	316.41	176.61	5353.80	87.59	61.50	PASS
1516.00†	1516.00	0.00	0.00	1449.00	1516.00	-5344.44	316.41	176.61	5353.80	89.67	60.06	PASS
1600.00	1600.00	0.00	0.00	1533.00	1600.00	-5344.44	316.41	176.61	5353.80	91.42	58.90	PASS
1616.00†	1616.00	-0.03	-0.03	1549.00	1616.00	-5344.44	316.41	-50.33	5353.77	91.76	58.69	PASS
1716.00†	1715.97	-1.60	-1.72	1648.97	1715.97	-5344.44	316.41	-50.37	5352.30	93.85	57.36	PASS
1816.00†	1815.80	-5.56	-5.95	1748.80	1815.80	-5344.44	316.41	-50.47	5348.61	95.96	56.05	PASS
1916.00†	1915.36	-11.89	-12.72	1848.36	1915.36	-5344.44	316.41	-50.64	5342.70	98.08	54.77	PASS
2016.00†	2014.54	-20.59	-22.03	1947.54	2014.54	-5344.44	316.41	-50.87	5334.60	100.19	53.53	PASS
2116.00†	2113.21	-31.64	-33.86	2046.21	2113.21	-5344.44	316.41	-51.17	5324.33	102.30	52.32	PASS
2216.00†	2211.26	-45.04	-48.20	2144.26	2211.26	-5344.44	316.41	-51.53	5311.92	104.42	51.13	PASS
2316.00†	2308.57	-60.77	-65.03	2241.57	2308.57	-5344.44	316.41	-51.95	5297.42	106.54	49.97	PASS
2416.00†	2405.01	-78.81	-84.34	2338.01	2405.01	-5344.44	316.41	-52.44	5280.85	108.67	48.84	PASS
2516.00†	2500.47	-99.14	-106.09	2433.47	2500.47	-5344.44	316.41	-52.99	5262.29	110.80	47.72	PASS
2616.00†	2594.84	-121.73	-130.26	2527.84	2594.84	-5344.44	316.41	-53.60	5241.78	112.95	46.62	PASS
2716.00†	2687.99	-146.55	-156.82	2620.99	2687.99	-5344.44	316.41	-54.28	5219.39	115.13	45.55	PASS
2816.00†	2779.81	-173.58	-185.74	2712.81	2779.81	-5344.44	316.41	-55.02	5195.19	117.33	44.48	PASS
2916.00†	2870.20	-202.78	-216.99	2803.20	2870.20	-5344.44	316.41	-55.83	5169.26	119.56	43.43	PASS
3016.00†	2959.04	-234.11	-250.52	2892.04	2959.04	-5344.44	316.41	-56.70	5141.68	121.83	42.39	PASS
3116.00†	3046.23	-267.54	-286.29	2979.23	3046.23	-5344.44	316.41	-57.63	5112.54	124.16	41.35	PASS
3117.60	3047.61	-268.10	-286.88	2980.61	3047.61	-5344.44	316.41	-57.65	5112.07	124.19	41.34	PASS
3216.00†	3132.52	-302.05	-323.21	3065.52	3132.52	-5344.44	316.41	-58.07	5082.80	126.52	40.34	PASS
3316.00†	3218.82	-336.55	-360.13	3151.82	3218.82	-5344.44	316.41	-58.51	5053.38	128.94	39.35	PASS

CLEARANCE DATA - Offset Wellbore: EHLER #10-2 AWB    Offset Wellpath: EHLER #10-2 AWP												
Facility: SEC.10-T01S-R67W				Slot: SLOT#05 EX EHLER #10-2 (1980'FSL & 1980'FEL, SEC.10, PA)		Well: EHLER #10-2		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
3416.00†	3305.11	-371.05	-397.05	3238.11	3305.11	-5344.44	316.41	-58.96	5024.31	131.42	38.38	PASS
3516.00†	3391.40	-405.55	-433.97	3324.40	3391.40	-5344.44	316.41	-59.40	4995.57	133.96	37.44	PASS
3616.00†	3477.70	-440.05	-470.89	3410.70	3477.70	-5344.44	316.41	-59.85	4967.18	136.55	36.52	PASS
3716.00†	3563.99	-474.55	-507.81	3496.99	3563.99	-5344.44	316.41	-60.31	4939.14	139.20	35.62	PASS
3816.00†	3650.28	-509.05	-544.73	3583.28	3650.28	-5344.44	316.41	-60.77	4911.47	141.90	34.74	PASS
3916.00†	3736.58	-543.56	-581.65	3669.58	3736.58	-5344.44	316.41	-61.23	4884.16	144.64	33.89	PASS
4016.00†	3822.87	-578.06	-618.57	3755.87	3822.87	-5344.44	316.41	-61.70	4857.22	147.43	33.06	PASS
4116.00†	3909.17	-612.56	-655.49	3842.17	3909.17	-5344.44	316.41	-62.17	4830.66	150.26	32.26	PASS
4216.00†	3995.46	-647.06	-692.41	3928.46	3995.46	-5344.44	316.41	-62.65	4804.49	153.13	31.48	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER #10-2 AWB Offset Wellpath: EHLER #10-2 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#05 EX EHLER #10-2 (1980'FSL & 1980'FEL, SEC.10, PA) Well: EHLER #10-2 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
4316.00†	4081.75	-681.56	-729.33	4014.75	4081.75	-5344.44	316.41	-63.13	4778.70	156.04	30.73	PASS
4416.00†	4168.05	-716.06	-766.25	4101.05	4168.05	-5344.44	316.41	-63.61	4753.32	158.99	30.00	PASS
4516.00†	4254.34	-750.56	-803.16	4187.34	4254.34	-5344.44	316.41	-64.10	4728.33	161.98	29.29	PASS
4616.00†	4340.63	-785.07	-840.08	4273.63	4340.63	-5344.44	316.41	-64.59	4703.76	164.99	28.60	PASS
4716.00†	4426.93	-819.57	-877.00	4359.93	4426.93	-5344.44	316.41	-65.09	4679.60	168.04	27.93	PASS
4816.00†	4513.22	-854.07	-913.92	4446.22	4513.22	-5344.44	316.41	-65.59	4655.87	171.12	27.29	PASS
4916.00†	4599.52	-888.57	-950.84	4532.52	4599.52	-5344.44	316.41	-66.10	4632.57	174.23	26.67	PASS
5016.00†	4685.81	-923.07	-987.76	4618.81	4685.81	-5344.44	316.41	-66.61	4609.70	177.36	26.07	PASS
5116.00†	4772.10	-957.57	-1024.68	4705.10	4772.10	-5344.44	316.41	-67.12	4587.28	180.52	25.48	PASS
5216.00†	4858.40	-992.07	-1061.60	4791.40	4858.40	-5344.44	316.41	-67.64	4565.30	183.71	24.92	PASS
5316.00†	4944.69	-1026.58	-1098.52	4877.69	4944.69	-5344.44	316.41	-68.16	4543.78	186.92	24.38	PASS
5416.00†	5030.98	-1061.08	-1135.44	4963.98	5030.98	-5344.44	316.41	-68.68	4522.73	190.15	23.85	PASS
5516.00†	5117.28	-1095.58	-1172.36	5050.28	5117.28	-5344.44	316.41	-69.21	4502.14	193.40	23.34	PASS
5616.00†	5203.57	-1130.08	-1209.28	5085.00	5152.00	-5344.44	316.41	-69.42	4482.32	195.67	22.97	PASS
5716.00†	5289.87	-1164.58	-1246.20	5085.00	5152.00	-5344.44	316.41	-69.42	4464.52	197.16	22.71	PASS
5816.00†	5376.16	-1199.08	-1283.12	5085.00	5152.00	-5344.44	316.41	-69.42	4448.90	198.60	22.46	PASS
5916.00†	5462.45	-1233.59	-1320.04	5085.00	5152.00	-5344.44	316.41	-69.42	4435.48	199.97	22.24	PASS
6016.00†	5548.75	-1268.09	-1356.96	5085.00	5152.00	-5344.44	316.41	-69.42	4424.27	201.29	22.04	PASS
6116.00†	5635.04	-1302.59	-1393.87	5085.00	5152.00	-5344.44	316.41	-69.42	4415.31	202.53	21.86	PASS
6216.00†	5721.33	-1337.09	-1430.79	5085.00	5152.00	-5344.44	316.41	-69.42	4408.60	203.71	21.70	PASS
6316.00†	5807.63	-1371.59	-1467.71	5085.00	5152.00	-5344.44	316.41	-69.42	4404.14	204.81	21.56	PASS
6416.00†	5893.92	-1406.09	-1504.63	5085.00	5152.00	-5344.44	316.41	-69.42	4401.96	205.84	21.44	PASS
6516.00†	5980.22	-1440.59	-1541.55	5085.00	5152.00	-5344.44	316.41	-69.42	4402.04	206.79	21.35	PASS
6616.00†	6066.51	-1475.10	-1578.47	5085.00	5152.00	-5344.44	316.41	-69.42	4404.40	207.66	21.27	PASS
6716.00†	6152.80	-1509.60	-1615.39	5085.00	5152.00	-5344.44	316.41	-69.42	4409.02	208.45	21.21	PASS
6816.00†	6239.10	-1544.10	-1652.31	5085.00	5152.00	-5344.44	316.41	-69.42	4415.91	209.16	21.17	PASS
6916.00†	6325.39	-1578.60	-1689.23	5085.00	5152.00	-5344.44	316.41	-69.42	4425.04	209.78	21.15	PASS
7016.00†	6411.68	-1613.10	-1726.15	5085.00	5152.00	-5344.44	316.41	-69.42	4436.41	210.33	21.15	PASS
7116.00†	6497.98	-1647.60	-1763.07	5085.00	5152.00	-5344.44	316.41	-69.42	4450.00	210.80	21.17	PASS
7216.00†	6584.27	-1682.10	-1799.99	5085.00	5152.00	-5344.44	316.41	-69.42	4465.79	211.18	21.20	PASS
7316.00†	6670.57	-1716.61	-1836.91	5085.00	5152.00	-5344.44	316.41	-69.42	4483.75	211.49	21.26	PASS
7416.00†	6756.86	-1751.11	-1873.83	5085.00	5152.00	-5344.44	316.41	-69.42	4503.86	211.72	21.33	PASS
7516.00†	6843.15	-1785.61	-1910.75	5085.00	5152.00	-5344.44	316.41	-69.42	4526.09	211.88	21.42	PASS
7616.00†	6929.45	-1820.11	-1947.66	5085.00	5152.00	-5344.44	316.41	-69.42	4550.41	211.96	21.52	PASS
7716.00†	7015.74	-1854.61	-1984.58	5085.00	5152.00	-5344.44	316.41	-69.42	4576.79	211.97	21.65	PASS
7816.00†	7102.03	-1889.11	-2021.50	5085.00	5152.00	-5344.44	316.41	-69.42	4605.19	211.92	21.79	PASS



CLEARANCE DATA - Offset Wellbore: EHLER #10-2 AWB    Offset Wellpath: EHLER #10-2 AWP												
Facility: SEC.10-T01S-R67W				Slot: SLOT#05 EX EHLER #10-2 (1980'FSL & 1980'FEL, SEC.10, PA)		Well: EHLER #10-2		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
7916.00†	7188.33	-1923.61	-2058.42	5085.00	5152.00	-5344.44	316.41	-69.42	4635.57	211.81	21.94	PASS
8016.00†	7274.62	-1958.12	-2095.34	5085.00	5152.00	-5344.44	316.41	-69.42	4667.90	211.63	22.12	PASS
8085.19	7334.33	-1981.99	-2120.89	5085.00	5152.00	-5344.44	316.41	-69.42	4691.38	211.47	22.24	PASS
8116.00†	7360.64	-1993.39	-2132.14	5085.00	5152.00	-5344.44	316.41	-65.25	4701.39	211.40	22.30	PASS
8216.00†	7441.54	-2040.68	-2166.69	5085.00	5152.00	-5344.44	316.41	-55.16	4724.68	211.36	22.41	PASS
8316.00†	7513.69	-2102.53	-2197.41	5085.00	5152.00	-5344.44	316.41	-48.88	4733.59	211.73	22.42	PASS
8416.00†	7574.90	-2177.06	-2223.37	5085.00	5152.00	-5344.44	316.41	-45.14	4727.92	212.18	22.34	PASS
8516.00†	7623.30	-2261.99	-2243.79	5085.00	5152.00	-5344.44	316.41	-43.24	4707.81	212.71	22.19	PASS
8616.00†	7657.43	-2354.77	-2258.05	5085.00	5152.00	-5344.44	316.41	-42.83	4673.67	213.31	21.97	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER #10-2 AWB Offset Wellpath: EHLER #10-2 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#05 EX EHLER #10-2 (1980'FSL & 1980'FEL, SEC.10, PA) Well: EHLER #10-2 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
8716.00†	7676.26	-2452.55	-2265.70	5085.00	5152.00	-5344.44	316.41	-43.87	4626.25	213.98	21.68	PASS
8784.36	7680.00	-2520.76	-2267.01	5085.00	5152.00	-5344.44	316.41	-45.48	4586.72	214.44	21.44	PASS
8816.00†	7680.00	-2552.39	-2266.87	5085.00	5152.00	-5344.44	316.41	-45.48	4567.24	214.62	21.34	PASS
8916.00†	7680.00	-2652.39	-2266.43	5085.00	5152.00	-5344.44	316.41	-45.48	4506.55	215.15	21.00	PASS
9016.00†	7680.00	-2752.39	-2265.99	5085.00	5152.00	-5344.44	316.41	-45.48	4447.28	215.68	20.67	PASS
9116.00†	7680.00	-2852.39	-2265.55	5085.00	5152.00	-5344.44	316.41	-45.48	4389.49	216.21	20.35	PASS
9216.00†	7680.00	-2952.39	-2265.11	5085.00	5152.00	-5344.44	316.41	-45.48	4333.23	216.73	20.05	PASS
9316.00†	7680.00	-3052.39	-2264.67	5085.00	5152.00	-5344.44	316.41	-45.48	4278.58	217.24	19.75	PASS
9416.00†	7680.00	-3152.39	-2264.23	5085.00	5152.00	-5344.44	316.41	-45.48	4225.58	217.75	19.46	PASS
9516.00†	7680.00	-3252.39	-2263.79	5085.00	5152.00	-5344.44	316.41	-45.48	4174.31	218.25	19.18	PASS
9616.00†	7680.00	-3352.39	-2263.34	5085.00	5152.00	-5344.44	316.41	-45.48	4124.83	218.74	18.91	PASS
9716.00†	7680.00	-3452.39	-2262.90	5085.00	5152.00	-5344.44	316.41	-45.48	4077.19	219.22	18.65	PASS
9816.00†	7680.00	-3552.38	-2262.46	5085.00	5152.00	-5344.44	316.41	-45.48	4031.48	219.68	18.40	PASS
9916.00†	7680.00	-3652.38	-2262.02	5085.00	5152.00	-5344.44	316.41	-45.48	3987.75	220.14	18.16	PASS
10016.00†	7680.00	-3752.38	-2261.58	5085.00	5152.00	-5344.44	316.41	-45.48	3946.07	220.59	17.93	PASS
10116.00†	7680.00	-3852.38	-2261.14	5085.00	5152.00	-5344.44	316.41	-45.48	3906.51	221.02	17.72	PASS
10216.00†	7680.00	-3952.38	-2260.70	5085.00	5152.00	-5344.44	316.41	-45.48	3869.12	221.44	17.52	PASS
10316.00†	7680.00	-4052.38	-2260.26	5085.00	5152.00	-5344.44	316.41	-45.48	3833.98	221.85	17.33	PASS
10416.00†	7680.00	-4152.38	-2259.82	5085.00	5152.00	-5344.44	316.41	-45.48	3801.15	222.24	17.15	PASS
10516.00†	7680.00	-4252.38	-2259.38	5085.00	5152.00	-5344.44	316.41	-45.48	3770.68	222.62	16.98	PASS
10616.00†	7680.00	-4352.38	-2258.94	5085.00	5152.00	-5344.44	316.41	-45.48	3742.64	222.98	16.83	PASS
10716.00†	7680.00	-4452.38	-2258.50	5085.00	5152.00	-5344.44	316.41	-45.48	3717.08	223.34	16.68	PASS
10816.00†	7680.00	-4552.37	-2258.06	5085.00	5152.00	-5344.44	316.41	-45.48	3694.05	223.68	16.56	PASS
10916.00†	7680.00	-4652.37	-2257.61	5085.00	5152.00	-5344.44	316.41	-45.48	3673.60	224.00	16.44	PASS
11016.00†	7680.00	-4752.37	-2257.17	5085.00	5152.00	-5344.44	316.41	-45.48	3655.77	224.32	16.34	PASS
11116.00†	7680.00	-4852.37	-2256.73	5085.00	5152.00	-5344.44	316.41	-45.48	3640.60	224.62	16.25	PASS
11216.00†	7680.00	-4952.37	-2256.29	5085.00	5152.00	-5344.44	316.41	-45.48	3628.12	224.91	16.17	PASS
11316.00†	7680.00	-5052.37	-2255.85	5085.00	5152.00	-5344.44	316.41	-45.48	3618.37	225.20	16.11	PASS
11416.00†	7680.00	-5152.37	-2255.41	5085.00	5152.00	-5344.44	316.41	-45.48	3611.36	225.46	16.06	PASS
11516.00†	7680.00	-5252.37	-2254.97	5085.00	5152.00	-5344.44	316.41	-45.48	3607.11	225.72	16.02	PASS
11616.00†	7680.00	-5352.37	-2254.53	5085.00	5152.00	-5344.44	316.41	-45.48	3605.63	225.97	16.00	PASS
11621.00†	7680.00	-5357.37	-2254.51	5085.00	5152.00	-5344.44	316.41	-45.48	3605.63	225.98	15.99	PASS
11716.00†	7680.00	-5452.37	-2254.09	5085.00	5152.00	-5344.44	316.41	-45.48	3606.92	226.20	15.98	PASS
11748.06†	7680.00	-5484.43	-2253.95	5085.00	5152.00	-5344.44	316.41	-45.48	3607.92	226.27	15.98	PASS
11816.00†	7680.00	-5552.36	-2253.65	5085.00	5152.00	-5344.44	316.41	-45.48	3610.98	226.42	15.99	PASS
11916.00†	7680.00	-5652.36	-2253.21	5085.00	5152.00	-5344.44	316.41	-45.48	3617.81	226.63	16.00	PASS

CLEARANCE DATA - Offset Wellbore: EHLER #10-2 AWB    Offset Wellpath: EHLER #10-2 AWP												
Facility: SEC.10-T01S-R67W    Slot: SLOT#05 EX EHLER #10-2 (1980'FSL & 1980'FEL, SEC.10, PA)    Well: EHLER #10-2    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
12016.00†	7680.00	-5752.36	-2252.77	5085.00	5152.00	-5344.44	316.41	-45.48	3627.37	226.83	16.03	PASS
12116.00†	7680.00	-5852.36	-2252.32	5085.00	5152.00	-5344.44	316.41	-45.48	3639.66	227.01	16.07	PASS
12216.00†	7680.00	-5952.36	-2251.88	5085.00	5152.00	-5344.44	316.41	-45.48	3654.65	227.17	16.13	PASS
12316.00†	7680.00	-6052.36	-2251.44	5085.00	5152.00	-5344.44	316.41	-45.48	3672.30	227.31	16.19	PASS
12416.00†	7680.00	-6152.36	-2251.00	5085.00	5152.00	-5344.44	316.41	-45.48	3692.58	227.44	16.27	PASS
12516.00†	7680.00	-6252.36	-2250.56	5085.00	5152.00	-5344.44	316.41	-45.48	3715.43	227.55	16.37	PASS
12616.00†	7680.00	-6352.36	-2250.12	5085.00	5152.00	-5344.44	316.41	-45.48	3740.82	227.63	16.47	PASS
12716.00†	7680.00	-6452.36	-2249.68	5085.00	5152.00	-5344.44	316.41	-45.48	3768.70	227.69	16.59	PASS
12816.00†	7680.00	-6552.36	-2249.24	5085.00	5152.00	-5344.44	316.41	-45.48	3799.00	227.74	16.72	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER #10-2 AWB Offset Wellpath: EHLER #10-2 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#05 EX EHLER #10-2 (1980'FSL & 1980'FEL, SEC.10, PA) Well: EHLER #10-2 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
12916.00†	7680.00	-6652.35	-2248.80	5085.00	5152.00	-5344.44	316.41	-45.48	3831.67	227.75	16.86	PASS
13016.00†	7680.00	-6752.35	-2248.36	5085.00	5152.00	-5344.44	316.41	-45.48	3866.66	227.75	17.02	PASS
13116.00†	7680.00	-6852.35	-2247.92	5085.00	5152.00	-5344.44	316.41	-45.48	3903.89	227.72	17.18	PASS
13144.91	7680.00	-6881.26	-2247.79	5085.00	5152.00	-5344.44	316.41	-45.48	3915.06	227.71	17.24	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: EHLER #10-2 AWB Offset Wellpath: EHLER #10-2 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: EHLER #10-2 AWB Offset Wellpath: EHLER #10-2 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	221.00	221.00	51.00	272.00	-3257.97	192.90	-3257.97	192.90
8.625in Casing Surface	0.00	221.00	221.00	51.00	272.00	-3257.97	192.90	-3257.97	192.90
7.875in Open Hole	221.00	5081.00	4860.00	272.00	5132.00	-3257.97	192.90	-3257.97	192.90
4.5in Casing Production	0.00	5081.00	5081.00	51.00	5132.00	-3257.97	192.90	-3257.97	192.90

## WELLPATH COMPOSITION - Offset Wellbore: EHLER #10-2 AWB Offset Wellpath: EHLER #10-2 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5085.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5085>	EHLER #10-2 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: EHLER #10-2 AWB Offset Wellpath: EHLER #10-2 AWP

MD Reference: Rig on SLOT#05 EX EHLER #10-2 (1980'FSL & 1980'FEL, SEC.10, 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

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: REED #10-3 AWB Offset Wellpath: REED #10-3 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#09 EX REED #10-3 (660'FNL & 660'FEL, SEC.10, PA) Well: REED #10-3 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
16.00	16.00	0.00	0.00	-16.00	19.00	-2710.60	1625.03	149.06	3160.39	25.57	128.42	PASS
116.00†	116.00	0.00	0.00	81.00	116.00	-2710.60	1625.03	149.06	3160.39	61.93	51.78	PASS
216.00†	216.00	0.00	0.00	181.00	216.00	-2710.60	1625.03	149.06	3160.39	63.97	50.12	PASS
316.00†	316.00	0.00	0.00	281.00	316.00	-2710.60	1625.03	149.06	3160.39	65.83	48.55	PASS
416.00†	416.00	0.00	0.00	381.00	416.00	-2710.60	1625.03	149.06	3160.39	67.87	47.08	PASS
516.00†	516.00	0.00	0.00	481.00	516.00	-2710.60	1625.03	149.06	3160.39	69.91	45.69	PASS
616.00†	616.00	0.00	0.00	581.00	616.00	-2710.60	1625.03	149.06	3160.39	71.96	44.37	PASS
716.00†	716.00	0.00	0.00	681.00	716.00	-2710.60	1625.03	149.06	3160.39	74.01	43.13	PASS
816.00†	816.00	0.00	0.00	781.00	816.00	-2710.60	1625.03	149.06	3160.39	75.85	41.96	PASS
916.00†	916.00	0.00	0.00	881.00	916.00	-2710.60	1625.03	149.06	3160.39	77.91	40.84	PASS
1016.00†	1016.00	0.00	0.00	981.00	1016.00	-2710.60	1625.03	149.06	3160.39	79.97	39.78	PASS
1116.00†	1116.00	0.00	0.00	1081.00	1116.00	-2710.60	1625.03	149.06	3160.39	82.04	38.77	PASS
1216.00†	1216.00	0.00	0.00	1181.00	1216.00	-2710.60	1625.03	149.06	3160.39	84.11	37.81	PASS
1316.00†	1316.00	0.00	0.00	1281.00	1316.00	-2710.60	1625.03	149.06	3160.39	86.18	36.90	PASS
1416.00†	1416.00	0.00	0.00	1381.00	1416.00	-2710.60	1625.03	149.06	3160.39	88.26	36.02	PASS
1516.00†	1516.00	0.00	0.00	1481.00	1516.00	-2710.60	1625.03	149.06	3160.39	90.34	35.19	PASS
1600.00	1600.00	0.00	0.00	1565.00	1600.00	-2710.60	1625.03	149.06	3160.39	92.09	34.51	PASS
1616.00†	1616.00	-0.03	-0.03	1581.00	1616.00	-2710.60	1625.03	-77.88	3160.38	92.43	34.39	PASS
1716.00†	1715.97	-1.60	-1.72	1680.97	1715.97	-2710.60	1625.03	-77.93	3159.90	94.52	33.62	PASS
1816.00†	1815.80	-5.56	-5.95	1780.80	1815.80	-2710.60	1625.03	-78.06	3158.69	96.61	32.87	PASS
1916.00†	1915.36	-11.89	-12.72	1880.36	1915.36	-2710.60	1625.03	-78.26	3156.78	98.70	32.15	PASS
2016.00†	2014.54	-20.59	-22.03	1979.54	2014.54	-2710.60	1625.03	-78.54	3154.20	100.80	31.45	PASS
2116.00†	2113.21	-31.64	-33.86	2078.21	2113.21	-2710.60	1625.03	-78.88	3150.99	102.90	30.78	PASS
2216.00†	2211.26	-45.04	-48.20	2176.26	2211.26	-2710.60	1625.03	-79.30	3147.20	105.01	30.12	PASS
2316.00†	2308.57	-60.77	-65.03	2273.57	2308.57	-2710.60	1625.03	-79.79	3142.91	107.14	29.48	PASS
2416.00†	2405.01	-78.81	-84.34	2370.01	2405.01	-2710.60	1625.03	-80.34	3138.19	109.28	28.86	PASS
2516.00†	2500.47	-99.14	-106.09	2465.47	2500.47	-2710.60	1625.03	-80.95	3133.13	111.45	28.25	PASS
2616.00†	2594.84	-121.73	-130.26	2559.84	2594.84	-2710.60	1625.03	-81.62	3127.83	113.65	27.65	PASS
2716.00†	2687.99	-146.55	-156.82	2652.99	2687.99	-2710.60	1625.03	-82.35	3122.39	115.89	27.06	PASS
2816.00†	2779.81	-173.58	-185.74	2744.81	2779.81	-2710.60	1625.03	-83.12	3116.95	118.18	26.49	PASS
2916.00†	2870.20	-202.78	-216.99	2835.20	2870.20	-2710.60	1625.03	-83.93	3111.63	120.54	25.93	PASS
3016.00†	2959.04	-234.11	-250.52	2924.04	2959.04	-2710.60	1625.03	-84.78	3106.55	122.96	25.37	PASS
3116.00†	3046.23	-267.54	-286.29	3011.23	3046.23	-2710.60	1625.03	-85.66	3101.88	125.45	24.83	PASS
3117.60	3047.61	-268.10	-286.88	3012.61	3047.61	-2710.60	1625.03	-85.68	3101.81	125.49	24.82	PASS
3216.00†	3132.52	-302.05	-323.21	3097.52	3132.52	-2710.60	1625.03	-86.47	3097.87	128.02	24.30	PASS
3316.00†	3218.82	-336.55	-360.13	3183.82	3218.82	-2710.60	1625.03	-87.27	3094.67	130.66	23.78	PASS

CLEARANCE DATA - Offset Wellbore: REED #10-3 AWB    Offset Wellpath: REED #10-3 AWP												
Facility: SEC.10-T01S-R67W				Slot: SLOT#09 EX REED #10-3 (660°FNL & 660°FEL, SEC.10, PA)		Well: REED #10-3		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
3416.00†	3305.11	-371.05	-397.05	3270.11	3305.11	-2710.60	1625.03	-88.08	3092.30	133.36	23.28	PASS
3516.00†	3391.40	-405.55	-433.97	3356.40	3391.40	-2710.60	1625.03	-88.89	3090.75	136.12	22.79	PASS
3616.00†	3477.70	-440.05	-470.89	3442.70	3477.70	-2710.60	1625.03	-89.70	3090.03	138.92	22.33	PASS
3653.50†	3510.06	-452.99	-484.74	3476.69	3511.69	-2710.60	1625.03	-90.02	3089.97	140.02	22.15	PASS
3716.00†	3563.99	-474.55	-507.81	3528.99	3563.99	-2710.60	1625.03	-90.51	3090.13	141.77	21.88	PASS
3816.00†	3650.28	-509.05	-544.73	3615.28	3650.28	-2710.60	1625.03	-91.31	3091.06	144.66	21.44	PASS
3916.00†	3736.58	-543.56	-581.65	3701.58	3736.58	-2710.60	1625.03	-92.12	3092.82	147.58	21.03	PASS
4016.00†	3822.87	-578.06	-618.57	3787.87	3822.87	-2710.60	1625.03	-92.93	3095.40	150.54	20.63	PASS
4116.00†	3909.17	-612.56	-655.49	3874.17	3909.17	-2710.60	1625.03	-93.73	3098.80	153.51	20.25	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: REED #10-3 AWB Offset Wellpath: REED #10-3 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#09 EX REED #10-3 (660'FNL & 660'FEL, SEC.10, PA) Well: REED #10-3 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
4216.00†	3995.46	-647.06	-692.41	3960.46	3995.46	-2710.60	1625.03	-94.54	3103.02	156.51	19.89	PASS
4316.00†	4081.75	-681.56	-729.33	4046.75	4081.75	-2710.60	1625.03	-95.34	3108.05	159.52	19.55	PASS
4416.00†	4168.05	-716.06	-766.25	4133.05	4168.05	-2710.60	1625.03	-96.14	3113.90	162.55	19.22	PASS
4516.00†	4254.34	-750.56	-803.16	4219.34	4254.34	-2710.60	1625.03	-96.94	3120.56	165.58	18.90	PASS
4616.00†	4340.63	-785.07	-840.08	4305.63	4340.63	-2710.60	1625.03	-97.74	3128.01	168.62	18.61	PASS
4716.00†	4426.93	-819.57	-877.00	4391.93	4426.93	-2710.60	1625.03	-98.53	3136.27	171.67	18.32	PASS
4816.00†	4513.22	-854.07	-913.92	4478.22	4513.22	-2710.60	1625.03	-99.32	3145.31	174.72	18.05	PASS
4916.00†	4599.52	-888.57	-950.84	4564.52	4599.52	-2710.60	1625.03	-100.10	3155.14	177.77	17.80	PASS
5016.00†	4685.81	-923.07	-987.76	4650.81	4685.81	-2710.60	1625.03	-100.88	3165.74	180.81	17.56	PASS
5116.00†	4772.10	-957.57	-1024.68	4737.10	4772.10	-2710.60	1625.03	-101.66	3177.12	183.86	17.33	PASS
5216.00†	4858.40	-992.07	-1061.60	4823.40	4858.40	-2710.60	1625.03	-102.44	3189.25	186.89	17.11	PASS
5316.00†	4944.69	-1026.58	-1098.52	4909.69	4944.69	-2710.60	1625.03	-103.20	3202.13	189.92	16.91	PASS
5416.00†	5030.98	-1061.08	-1135.44	4995.98	5030.98	-2710.60	1625.03	-103.97	3215.76	192.94	16.71	PASS
5516.00†	5117.28	-1095.58	-1172.36	5082.28	5117.28	-2710.60	1625.03	-104.73	3230.12	195.95	16.53	PASS
5616.00†	5203.57	-1130.08	-1209.28	5100.00	5135.00	-2710.60	1625.03	-104.88	3245.93	197.54	16.48	PASS
5635.86†	5220.71	-1136.93	-1216.61	5100.00	5135.00	-2710.60	1625.03	-104.88	3249.41	197.76	16.48	PASS
5716.00†	5289.87	-1164.58	-1246.20	5100.00	5135.00	-2710.60	1625.03	-104.88	3264.68	198.57	16.49	PASS
5816.00†	5376.16	-1199.08	-1283.12	5100.00	5135.00	-2710.60	1625.03	-104.88	3286.36	199.47	16.52	PASS
5916.00†	5462.45	-1233.59	-1320.04	5100.00	5135.00	-2710.60	1625.03	-104.88	3310.92	200.22	16.58	PASS
6016.00†	5548.75	-1268.09	-1356.96	5100.00	5135.00	-2710.60	1625.03	-104.88	3338.30	200.83	16.67	PASS
6116.00†	5635.04	-1302.59	-1393.87	5100.00	5135.00	-2710.60	1625.03	-104.88	3368.43	201.31	16.78	PASS
6216.00†	5721.33	-1337.09	-1430.79	5100.00	5135.00	-2710.60	1625.03	-104.88	3401.23	201.66	16.91	PASS
6316.00†	5807.63	-1371.59	-1467.71	5100.00	5135.00	-2710.60	1625.03	-104.88	3436.63	201.89	17.07	PASS
6416.00†	5893.92	-1406.09	-1504.63	5100.00	5135.00	-2710.60	1625.03	-104.88	3474.55	202.00	17.25	PASS
6516.00†	5980.22	-1440.59	-1541.55	5100.00	5135.00	-2710.60	1625.03	-104.88	3514.90	202.01	17.45	PASS
6616.00†	6066.51	-1475.10	-1578.47	5100.00	5135.00	-2710.60	1625.03	-104.88	3557.61	201.93	17.67	PASS
6716.00†	6152.80	-1509.60	-1615.39	5100.00	5135.00	-2710.60	1625.03	-104.88	3602.59	201.75	17.91	PASS
6816.00†	6239.10	-1544.10	-1652.31	5100.00	5135.00	-2710.60	1625.03	-104.88	3649.76	201.49	18.16	PASS
6916.00†	6325.39	-1578.60	-1689.23	5100.00	5135.00	-2710.60	1625.03	-104.88	3699.02	201.15	18.44	PASS
7016.00†	6411.68	-1613.10	-1726.15	5100.00	5135.00	-2710.60	1625.03	-104.88	3750.31	200.74	18.73	PASS
7116.00†	6497.98	-1647.60	-1763.07	5100.00	5135.00	-2710.60	1625.03	-104.88	3803.54	200.28	19.04	PASS
7216.00†	6584.27	-1682.10	-1799.99	5100.00	5135.00	-2710.60	1625.03	-104.88	3858.62	199.76	19.37	PASS
7316.00†	6670.57	-1716.61	-1836.91	5100.00	5135.00	-2710.60	1625.03	-104.88	3915.48	199.19	19.71	PASS
7416.00†	6756.86	-1751.11	-1873.83	5100.00	5135.00	-2710.60	1625.03	-104.88	3974.05	198.58	20.07	PASS
7516.00†	6843.15	-1785.61	-1910.75	5100.00	5135.00	-2710.60	1625.03	-104.88	4034.24	197.94	20.44	PASS
7616.00†	6929.45	-1820.11	-1947.66	5100.00	5135.00	-2710.60	1625.03	-104.88	4095.99	197.27	20.82	PASS

CLEARANCE DATA - Offset Wellbore: REED #10-3 AWB    Offset Wellpath: REED #10-3 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#09 EX REED #10-3 (660°FNL & 660°FEL, SEC.10, PA)			Well: REED #10-3		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
7716.00†	7015.74	-1854.61	-1984.58	5100.00	5135.00	-2710.60	1625.03	-104.88	4159.23	196.57	21.22	PASS
7816.00†	7102.03	-1889.11	-2021.50	5100.00	5135.00	-2710.60	1625.03	-104.88	4223.89	195.85	21.63	PASS
7916.00†	7188.33	-1923.61	-2058.42	5100.00	5135.00	-2710.60	1625.03	-104.88	4289.91	195.12	22.05	PASS
8016.00†	7274.62	-1958.12	-2095.34	5100.00	5135.00	-2710.60	1625.03	-104.88	4357.22	194.37	22.48	PASS
8085.19	7334.33	-1981.99	-2120.89	5100.00	5135.00	-2710.60	1625.03	-104.88	4404.53	193.85	22.79	PASS
8116.00†	7360.64	-1993.39	-2132.14	5100.00	5135.00	-2710.60	1625.03	-98.79	4425.40	193.63	22.92	PASS
8216.00†	7441.54	-2040.68	-2166.69	5100.00	5135.00	-2710.60	1625.03	-83.35	4488.43	193.11	23.31	PASS
8316.00†	7513.69	-2102.53	-2197.41	5100.00	5135.00	-2710.60	1625.03	-72.89	4543.01	193.00	23.61	PASS
8416.00†	7574.90	-2177.06	-2223.37	5100.00	5135.00	-2710.60	1625.03	-65.82	4587.81	193.14	23.82	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: REED #10-3 AWB Offset Wellpath: REED #10-3 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#09 EX REED #10-3 (660'FNL & 660'FEL, SEC.10, PA) Well: REED #10-3 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
8516.00†	7623.30	-2261.99	-2243.79	5100.00	5135.00	-2710.60	1625.03	-61.15	4621.76	193.54	23.95	PASS
8616.00†	7657.43	-2354.77	-2258.05	5100.00	5135.00	-2710.60	1625.03	-58.30	4644.09	194.18	23.99	PASS
8716.00†	7676.26	-2452.55	-2265.70	5100.00	5135.00	-2710.60	1625.03	-56.95	4654.29	195.04	23.93	PASS
8784.36	7680.00	-2520.76	-2267.01	5100.00	5135.00	-2710.60	1625.03	-56.81	4654.14	195.71	23.85	PASS
8816.00†	7680.00	-2552.39	-2266.87	5100.00	5135.00	-2710.60	1625.03	-56.81	4652.84	195.98	23.81	PASS
8916.00†	7680.00	-2652.39	-2266.43	5100.00	5135.00	-2710.60	1625.03	-56.81	4650.15	196.77	23.70	PASS
9016.00†	7680.00	-2752.39	-2265.99	5100.00	5135.00	-2710.60	1625.03	-56.81	4649.60	197.57	23.60	PASS
9116.00†	7680.00	-2852.39	-2265.55	5100.00	5135.00	-2710.60	1625.03	-56.81	4651.21	198.38	23.51	PASS
9216.00†	7680.00	-2952.39	-2265.11	5100.00	5135.00	-2710.60	1625.03	-56.81	4654.96	199.19	23.43	PASS
9316.00†	7680.00	-3052.39	-2264.67	5100.00	5135.00	-2710.60	1625.03	-56.81	4660.86	200.01	23.37	PASS
9416.00†	7680.00	-3152.39	-2264.23	5100.00	5135.00	-2710.60	1625.03	-56.81	4668.89	200.83	23.31	PASS
9516.00†	7680.00	-3252.39	-2263.79	5100.00	5135.00	-2710.60	1625.03	-56.81	4679.04	201.65	23.27	PASS
9616.00†	7680.00	-3352.39	-2263.34	5100.00	5135.00	-2710.60	1625.03	-56.81	4691.31	202.46	23.24	PASS
9716.00†	7680.00	-3452.39	-2262.90	5100.00	5135.00	-2710.60	1625.03	-56.81	4705.67	203.27	23.21	PASS
9816.00†	7680.00	-3552.38	-2262.46	5100.00	5135.00	-2710.60	1625.03	-56.81	4722.10	204.08	23.20	PASS
9916.00†	7680.00	-3652.38	-2262.02	5100.00	5135.00	-2710.60	1625.03	-56.81	4740.59	204.88	23.20	PASS
10016.00†	7680.00	-3752.38	-2261.58	5100.00	5135.00	-2710.60	1625.03	-56.81	4761.10	205.67	23.21	PASS
10116.00†	7680.00	-3852.38	-2261.14	5100.00	5135.00	-2710.60	1625.03	-56.81	4783.62	206.44	23.23	PASS
10216.00†	7680.00	-3952.38	-2260.70	5100.00	5135.00	-2710.60	1625.03	-56.81	4808.11	207.21	23.27	PASS
10316.00†	7680.00	-4052.38	-2260.26	5100.00	5135.00	-2710.60	1625.03	-56.81	4834.55	207.97	23.31	PASS
10416.00†	7680.00	-4152.38	-2259.82	5100.00	5135.00	-2710.60	1625.03	-56.81	4862.90	208.71	23.36	PASS
10516.00†	7680.00	-4252.38	-2259.38	5100.00	5135.00	-2710.60	1625.03	-56.81	4893.13	209.43	23.43	PASS
10616.00†	7680.00	-4352.38	-2258.94	5100.00	5135.00	-2710.60	1625.03	-56.81	4925.21	210.14	23.50	PASS
10716.00†	7680.00	-4452.38	-2258.50	5100.00	5135.00	-2710.60	1625.03	-56.81	4959.09	210.83	23.58	PASS
10816.00†	7680.00	-4552.37	-2258.06	5100.00	5135.00	-2710.60	1625.03	-56.81	4994.75	211.51	23.68	PASS
10916.00†	7680.00	-4652.37	-2257.61	5100.00	5135.00	-2710.60	1625.03	-56.81	5032.14	212.17	23.78	PASS
11016.00†	7680.00	-4752.37	-2257.17	5100.00	5135.00	-2710.60	1625.03	-56.81	5071.23	212.81	23.89	PASS
11116.00†	7680.00	-4852.37	-2256.73	5100.00	5135.00	-2710.60	1625.03	-56.81	5111.98	213.43	24.01	PASS
11216.00†	7680.00	-4952.37	-2256.29	5100.00	5135.00	-2710.60	1625.03	-56.81	5154.34	214.03	24.15	PASS
11316.00†	7680.00	-5052.37	-2255.85	5100.00	5135.00	-2710.60	1625.03	-56.81	5198.28	214.61	24.29	PASS
11416.00†	7680.00	-5152.37	-2255.41	5100.00	5135.00	-2710.60	1625.03	-56.81	5243.77	215.17	24.43	PASS
11516.00†	7680.00	-5252.37	-2254.97	5100.00	5135.00	-2710.60	1625.03	-56.81	5290.75	215.71	24.59	PASS
11616.00†	7680.00	-5352.37	-2254.53	5100.00	5135.00	-2710.60	1625.03	-56.81	5339.19	216.24	24.76	PASS
11716.00†	7680.00	-5452.37	-2254.09	5100.00	5135.00	-2710.60	1625.03	-56.81	5389.05	216.74	24.93	PASS
11816.00†	7680.00	-5552.36	-2253.65	5100.00	5135.00	-2710.60	1625.03	-56.81	5440.29	217.22	25.11	PASS
11916.00†	7680.00	-5652.36	-2253.21	5100.00	5135.00	-2710.60	1625.03	-56.81	5492.88	217.69	25.30	PASS

CLEARANCE DATA - Offset Wellbore: REED #10-3 AWB    Offset Wellpath: REED #10-3 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#09 EX REED #10-3 (660°FNL & 660°FEL, SEC.10, PA)			Well: REED #10-3		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
12016.00†	7680.00	-5752.36	-2252.77	5100.00	5135.00	-2710.60	1625.03	-56.81	5546.77	218.13	25.49	PASS
12116.00†	7680.00	-5852.36	-2252.32	5100.00	5135.00	-2710.60	1625.03	-56.81	5601.93	218.56	25.70	PASS
12216.00†	7680.00	-5952.36	-2251.88	5100.00	5135.00	-2710.60	1625.03	-56.81	5658.31	218.97	25.91	PASS
12316.00†	7680.00	-6052.36	-2251.44	5100.00	5135.00	-2710.60	1625.03	-56.81	5715.89	219.37	26.12	PASS
12416.00†	7680.00	-6152.36	-2251.00	5100.00	5135.00	-2710.60	1625.03	-56.81	5774.63	219.74	26.35	PASS
12516.00†	7680.00	-6252.36	-2250.56	5100.00	5135.00	-2710.60	1625.03	-56.81	5834.49	220.10	26.58	PASS
12616.00†	7680.00	-6352.36	-2250.12	5100.00	5135.00	-2710.60	1625.03	-56.81	5895.44	220.44	26.81	PASS
12716.00†	7680.00	-6452.36	-2249.68	5100.00	5135.00	-2710.60	1625.03	-56.81	5957.44	220.77	27.05	PASS
12816.00†	7680.00	-6552.36	-2249.24	5100.00	5135.00	-2710.60	1625.03	-56.81	6020.47	221.08	27.30	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: REED #10-3 AWB Offset Wellpath: REED #10-3 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#09 EX REED #10-3 (660'FNL & 660'FEL, SEC.10, PA) Well: REED #10-3 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
12916.00†	7680.00	-6652.35	-2248.80	5100.00	5135.00	-2710.60	1625.03	-56.81	6084.49	221.38	27.55	PASS
13016.00†	7680.00	-6752.35	-2248.36	5100.00	5135.00	-2710.60	1625.03	-56.81	6149.47	221.67	27.81	PASS
13116.00†	7680.00	-6852.35	-2247.92	5100.00	5135.00	-2710.60	1625.03	-56.81	6215.37	221.94	28.08	PASS
13144.91	7680.00	-6881.26	-2247.79	5100.00	5135.00	-2710.60	1625.03	-56.81	6234.59	222.01	28.15	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: REED #10-3 AWB Offset Wellpath: REED #10-3 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: REED #10-3 AWB Offset Wellpath: REED #10-3 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	220.00	220.00	19.00	239.00	-1652.35	990.67	-1652.35	990.67
8.625in Casing Surface	0.00	220.00	220.00	19.00	239.00	-1652.35	990.67	-1652.35	990.67
7.875in Open Hole	220.00	5090.00	4870.00	239.00	5109.00	-1652.35	990.67	-1652.35	990.67
4.5in Casing Production	0.00	5090.00	5090.00	19.00	5109.00	-1652.35	990.67	-1652.35	990.67

## WELLPATH COMPOSITION - Offset Wellbore: REED #10-3 AWB Offset Wellpath: REED #10-3 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5100.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5100>	REED #10-3 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: REED #10-3 AWB Offset Wellpath: REED #10-3 AWP

MD Reference: Rig on SLOT#09 EX REED #10-3 (660'FNL & 660'FEL, SEC.10, 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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNEMYER #36N-3HZ AWP Offset Wellpath: GRENNEMYER #36N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#07 GRENNEMYER #36N-3HZ (636'FNL & 2575'FEL, SEC.34) Well: GRENNEMYER #36N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	14917.79	7600.88	-4.52	-594.74	-90.44	7608.17	91.05	84.31	PASS
116.00†	116.00	0.00	0.00	14917.78	7600.88	-4.51	-594.74	-90.43	7508.48	91.65	82.65	PASS
216.00†	216.00	0.00	0.00	14917.77	7600.88	-4.50	-594.74	-90.43	7408.79	91.66	81.54	PASS
316.00†	316.00	0.00	0.00	14917.76	7600.88	-4.49	-594.74	-90.43	7309.12	91.68	80.44	PASS
416.00†	416.00	0.00	0.00	14917.75	7600.88	-4.48	-594.74	-90.43	7209.46	91.69	79.32	PASS
516.00†	516.00	0.00	0.00	14917.74	7600.88	-4.47	-594.74	-90.43	7109.80	91.71	78.21	PASS
616.00†	616.00	0.00	0.00	14917.73	7600.88	-4.46	-594.74	-90.43	7010.16	91.74	77.09	PASS
716.00†	716.00	0.00	0.00	14917.72	7600.88	-4.45	-594.74	-90.43	6910.52	91.76	75.98	PASS
816.00†	816.00	0.00	0.00	14917.71	7600.88	-4.44	-594.74	-90.43	6810.90	91.59	74.86	PASS
916.00†	916.00	0.00	0.00	14917.70	7600.88	-4.43	-594.74	-90.43	6711.29	91.62	73.74	PASS
1016.00†	1016.00	0.00	0.00	14917.69	7600.88	-4.42	-594.74	-90.43	6611.69	91.66	72.61	PASS
1116.00†	1116.00	0.00	0.00	14917.68	7600.88	-4.41	-594.74	-90.43	6512.10	91.70	71.49	PASS
1216.00†	1216.00	0.00	0.00	14917.67	7600.88	-4.40	-594.74	-90.42	6412.52	91.74	70.36	PASS
1316.00†	1316.00	0.00	0.00	14917.66	7600.88	-4.39	-594.74	-90.42	6312.96	91.79	69.23	PASS
1416.00†	1416.00	0.00	0.00	14917.65	7600.88	-4.38	-594.74	-90.42	6213.41	91.84	68.10	PASS
1516.00†	1516.00	0.00	0.00	14917.64	7600.88	-4.37	-594.74	-90.42	6113.88	91.89	66.97	PASS
1600.00	1600.00	0.00	0.00	14917.63	7600.88	-4.36	-594.74	-90.42	6030.29	91.94	66.02	PASS
1616.00†	1616.00	-0.03	-0.03	14917.64	7600.88	-4.37	-594.74	44.92	6014.36	91.95	65.84	PASS
1716.00†	1715.97	-1.60	-1.72	14918.37	7600.88	-5.10	-594.74	63.90	5914.72	92.02	64.70	PASS
1816.00†	1815.80	-5.56	-5.95	14920.25	7600.88	-6.98	-594.73	90.84	5814.97	92.10	63.55	PASS
1916.00†	1915.36	-11.89	-12.72	14923.31	7600.89	-10.04	-594.71	117.15	5715.24	92.19	62.40	PASS
2016.00†	2014.54	-20.59	-22.03	14927.57	7600.89	-14.30	-594.69	135.22	5615.63	92.29	61.24	PASS
2116.00†	2113.21	-31.64	-33.86	14933.06	7600.90	-19.79	-594.66	146.34	5516.28	92.41	60.09	PASS
2216.00†	2211.26	-45.04	-48.20	14939.80	7600.93	-26.53	-594.61	153.41	5417.32	92.53	58.93	PASS
2316.00†	2308.57	-60.77	-65.03	15146.31	7597.87	-232.99	-594.44	163.96	5318.52	94.76	56.48	PASS
2416.00†	2405.01	-78.81	-84.34	15161.26	7597.38	-247.93	-594.53	167.21	5220.11	95.00	55.30	PASS
2516.00†	2500.47	-99.14	-106.09	15163.00	7597.32	-249.67	-594.55	169.15	5122.41	95.07	54.22	PASS
2616.00†	2594.84	-121.73	-130.26	15163.00	7597.32	-249.67	-594.55	170.51	5025.61	95.13	53.16	PASS
2716.00†	2687.99	-146.55	-156.82	15163.00	7597.32	-249.67	-594.55	171.54	4929.89	95.20	52.11	PASS
2816.00†	2779.81	-173.58	-185.74	15163.00	7597.32	-249.67	-594.55	172.35	4835.42	95.27	51.08	PASS
2916.00†	2870.20	-202.78	-216.99	15163.00	7597.32	-249.67	-594.55	173.00	4742.40	95.35	50.05	PASS
3016.00†	2959.04	-234.11	-250.52	15163.00	7597.32	-249.67	-594.55	173.53	4651.04	95.44	49.04	PASS
3116.00†	3046.23	-267.54	-286.29	15163.00	7597.32	-249.67	-594.55	173.96	4561.55	95.56	48.04	PASS
3117.60	3047.61	-268.10	-286.88	15163.00	7597.32	-249.67	-594.55	173.97	4560.14	95.55	48.02	PASS
3216.00†	3132.52	-302.05	-323.21	15163.00	7597.32	-249.67	-594.55	173.97	4473.34	95.67	47.05	PASS
3316.00†	3218.82	-336.55	-360.13	15163.00	7597.32	-249.67	-594.55	173.97	4385.63	95.81	46.06	PASS

CLEARANCE DATA - Offset Wellbore: GRENNYER #36N-3HZ AWB Offset Wellpath: GRENNYER #36N-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#07 GRENNYER #36N-3HZ (636'FNL & 2575'FEL, SEC.34)			Well: GRENNYER #36N-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	15163.00	7597.32	-249.67	-594.55	173.97	4298.46	95.97	45.07	PASS
3516.00†	3391.40	-405.55	-433.97	15163.00	7597.32	-249.67	-594.55	173.97	4211.87	96.16	44.08	PASS
3616.00†	3477.70	-440.05	-470.89	15163.00	7597.32	-249.67	-594.55	173.97	4125.87	96.36	43.08	PASS
3716.00†	3563.99	-474.55	-507.81	15163.00	7597.32	-249.67	-594.55	173.97	4040.52	96.59	42.09	PASS
3816.00†	3650.28	-509.05	-544.73	15163.00	7597.32	-249.67	-594.55	173.97	3955.86	96.85	41.10	PASS
3916.00†	3736.58	-543.56	-581.65	15163.00	7597.32	-249.67	-594.55	173.97	3871.93	97.13	40.11	PASS
4016.00†	3822.87	-578.06	-618.57	15163.00	7597.32	-249.67	-594.55	173.97	3788.78	97.44	39.12	PASS
4116.00†	3909.17	-612.56	-655.49	15163.00	7597.32	-249.67	-594.55	173.97	3706.46	97.77	38.14	PASS
4216.00†	3995.46	-647.06	-692.41	15163.00	7597.32	-249.67	-594.55	173.97	3625.04	98.14	37.16	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNEMYER #36N-3HZ AWP Offset Wellpath: GRENNEMYER #36N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#07 GRENNEMYER #36N-3HZ (636'FNL & 2575'FEL, SEC.34) Well: GRENNEMYER #36N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	15163.00	7597.32	-249.67	-594.55	173.97	3544.56	98.53	36.19	PASS
4416.00†	4168.05	-716.06	-766.25	15163.00	7597.32	-249.67	-594.55	173.97	3465.10	98.96	35.23	PASS
4516.00†	4254.34	-750.56	-803.16	15163.00	7597.32	-249.67	-594.55	173.97	3386.73	99.41	34.27	PASS
4616.00†	4340.63	-785.07	-840.08	15163.00	7597.32	-249.67	-594.55	173.97	3309.52	99.90	33.33	PASS
4716.00†	4426.93	-819.57	-877.00	15163.00	7597.32	-249.67	-594.55	173.97	3233.56	100.42	32.39	PASS
4816.00†	4513.22	-854.07	-913.92	15163.00	7597.32	-249.67	-594.55	173.97	3158.95	100.97	31.47	PASS
4916.00†	4599.52	-888.57	-950.84	15163.00	7597.32	-249.67	-594.55	173.97	3085.77	101.55	30.56	PASS
5016.00†	4685.81	-923.07	-987.76	15163.00	7597.32	-249.67	-594.55	173.97	3014.13	102.17	29.67	PASS
5116.00†	4772.10	-957.57	-1024.68	15163.00	7597.32	-249.67	-594.55	173.97	2944.14	102.82	28.80	PASS
5216.00†	4858.40	-992.07	-1061.60	15163.00	7597.32	-249.67	-594.55	173.97	2875.93	103.49	27.95	PASS
5316.00†	4944.69	-1026.58	-1098.52	15163.00	7597.32	-249.67	-594.55	173.97	2809.63	104.20	27.12	PASS
5416.00†	5030.98	-1061.08	-1135.44	15163.00	7597.32	-249.67	-594.55	173.97	2745.36	104.94	26.31	PASS
5516.00†	5117.28	-1095.58	-1172.36	15163.00	7597.32	-249.67	-594.55	173.97	2683.29	105.70	25.53	PASS
5616.00†	5203.57	-1130.08	-1209.28	15163.00	7597.32	-249.67	-594.55	173.97	2623.55	106.49	24.77	PASS
5716.00†	5289.87	-1164.58	-1246.20	15163.00	7597.32	-249.67	-594.55	173.97	2566.33	107.30	24.05	PASS
5816.00†	5376.16	-1199.08	-1283.12	15163.00	7597.32	-249.67	-594.55	173.97	2511.78	108.13	23.35	PASS
5916.00†	5462.45	-1233.59	-1320.04	15163.00	7597.32	-249.67	-594.55	173.97	2460.10	108.98	22.70	PASS
6016.00†	5548.75	-1268.09	-1356.96	15163.00	7597.32	-249.67	-594.55	173.97	2411.45	109.83	22.07	PASS
6116.00†	5635.04	-1302.59	-1393.87	15163.00	7597.32	-249.67	-594.55	173.97	2366.03	110.70	21.49	PASS
6216.00†	5721.33	-1337.09	-1430.79	15163.00	7597.32	-249.67	-594.55	173.97	2324.03	111.56	20.94	PASS
6316.00†	5807.63	-1371.59	-1467.71	15163.00	7597.32	-249.67	-594.55	173.97	2285.63	112.42	20.44	PASS
6416.00†	5893.92	-1406.09	-1504.63	15163.00	7597.32	-249.67	-594.55	173.97	2251.03	113.27	19.97	PASS
6516.00†	5980.22	-1440.59	-1541.55	15163.00	7597.32	-249.67	-594.55	173.97	2220.39	114.11	19.56	PASS
6616.00†	6066.51	-1475.10	-1578.47	15163.00	7597.32	-249.67	-594.55	173.97	2193.89	114.92	19.19	PASS
6716.00†	6152.80	-1509.60	-1615.39	15163.00	7597.32	-249.67	-594.55	173.97	2171.67	115.70	18.86	PASS
6816.00†	6239.10	-1544.10	-1652.31	15163.00	7597.32	-249.67	-594.55	173.97	2153.87	116.46	18.59	PASS
6916.00†	6325.39	-1578.60	-1689.23	15163.00	7597.32	-249.67	-594.55	173.97	2140.60	117.17	18.36	PASS
7016.00†	6411.68	-1613.10	-1726.15	15163.00	7597.32	-249.67	-594.55	173.97	2131.95	117.84	18.18	PASS
7116.00†	6497.98	-1647.60	-1763.07	15163.00	7597.32	-249.67	-594.55	173.97	2127.96	118.47	18.05	PASS
7151.00†	6528.18	-1659.68	-1775.99	15163.00	7597.32	-249.67	-594.55	173.97	2127.67	118.68	18.02	PASS
7216.00†	6584.27	-1682.10	-1799.99	15163.00	7597.32	-249.67	-594.55	173.97	2128.67	119.05	17.97	PASS
7316.00†	6670.57	-1716.61	-1836.91	15163.00	7597.32	-249.67	-594.55	173.97	2134.06	119.58	17.93	PASS
7416.00†	6756.86	-1751.11	-1873.83	15163.00	7597.32	-249.67	-594.55	173.97	2144.12	120.06	17.94	PASS
7516.00†	6843.15	-1785.61	-1910.75	15163.00	7597.32	-249.67	-594.55	173.97	2158.76	120.50	18.00	PASS
7616.00†	6929.45	-1820.11	-1947.66	15163.00	7597.32	-249.67	-594.55	173.97	2177.90	120.89	18.10	PASS
7716.00†	7015.74	-1854.61	-1984.58	15163.00	7597.32	-249.67	-594.55	173.97	2201.43	121.23	18.25	PASS

CLEARANCE DATA - Offset Wellbore: GRENNYER #36N-3HZ AWB Offset Wellpath: GRENNYER #36N-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#07 GRENNYER #36N-3HZ (636'FNL & 2575'FEL, SEC.34)				Well: GRENNYER #36N-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7816.00†	7102.03	-1889.11	-2021.50	15163.00	7597.32	-249.67	-594.55	173.97	2229.19	121.53	18.43	PASS
7916.00†	7188.33	-1923.61	-2058.42	15163.00	7597.32	-249.67	-594.55	173.97	2261.04	121.79	18.65	PASS
8016.00†	7274.62	-1958.12	-2095.34	15163.00	7597.32	-249.67	-594.55	173.97	2296.80	122.02	18.91	PASS
8085.19	7334.33	-1981.99	-2120.89	15163.00	7597.32	-249.67	-594.55	173.97	2323.75	122.15	19.11	PASS
8116.00†	7360.64	-1993.39	-2132.14	15163.00	7597.32	-249.67	-594.55	178.85	2336.83	122.21	19.21	PASS
8216.00†	7441.54	-2040.68	-2166.69	15163.00	7597.32	-249.67	-594.55	-167.26	2388.22	122.30	19.62	PASS
8316.00†	7513.69	-2102.53	-2197.41	15163.00	7597.32	-249.67	-594.55	-154.62	2451.38	122.31	20.14	PASS
8416.00†	7574.90	-2177.06	-2223.37	15163.00	7597.32	-249.67	-594.55	-141.49	2523.57	122.07	20.77	PASS
8516.00†	7623.30	-2261.99	-2243.79	15163.00	7597.32	-249.67	-594.55	-126.92	2601.95	121.62	21.50	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #36N-3HZ AWP Offset Wellpath: GRENNYER #36N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#07 GRENNYER #36N-3HZ (636'FNL & 2575'FEL, SEC.34) Well: GRENNYER #36N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8616.00†	7657.43	-2354.77	-2258.05	15163.00	7597.32	-249.67	-594.55	-111.25	2683.71	121.01	22.29	PASS
8716.00†	7676.26	-2452.55	-2265.70	15163.00	7597.32	-249.67	-594.55	-96.16	2766.17	120.30	23.11	PASS
8784.36	7680.00	-2520.76	-2267.01	15163.00	7597.32	-249.67	-594.55	-87.19	2821.67	119.78	23.67	PASS
8816.00†	7680.00	-2552.39	-2266.87	15163.00	7597.32	-249.67	-594.55	-87.19	2847.11	119.54	23.93	PASS
8916.00†	7680.00	-2652.39	-2266.43	15163.00	7597.32	-249.67	-594.55	-87.19	2928.33	118.80	24.77	PASS
9016.00†	7680.00	-2752.39	-2265.99	15163.00	7597.32	-249.67	-594.55	-87.19	3010.68	118.11	25.62	PASS
9116.00†	7680.00	-2852.39	-2265.55	15163.00	7597.32	-249.67	-594.55	-87.19	3094.06	117.46	26.47	PASS
9216.00†	7680.00	-2952.39	-2265.11	15163.00	7597.32	-249.67	-594.55	-87.19	3178.41	116.86	27.34	PASS
9265.96†	7680.00	-3002.35	-2264.89	15163.00	7597.32	-249.67	-594.55	-87.19	3220.89	116.62	27.68	PASS
9316.00†	7680.00	-3052.39	-2264.67	15163.00	7597.32	-249.67	-594.55	-87.19	3263.64	116.30	28.21	PASS
9416.00†	7680.00	-3152.39	-2264.23	15163.00	7597.32	-249.67	-594.55	-87.19	3349.69	115.77	29.08	PASS
9516.00†	7680.00	-3252.39	-2263.79	15163.00	7597.32	-249.67	-594.55	-87.19	3436.50	115.29	29.96	PASS
9616.00†	7680.00	-3352.39	-2263.34	15163.00	7597.32	-249.67	-594.55	-87.19	3524.00	114.83	30.85	PASS
9716.00†	7680.00	-3452.39	-2262.90	15163.00	7597.32	-249.67	-594.55	-87.19	3612.15	114.41	31.74	PASS
9816.00†	7680.00	-3552.38	-2262.46	15163.00	7597.32	-249.67	-594.55	-87.19	3700.90	114.01	32.63	PASS
9916.00†	7680.00	-3652.38	-2262.02	15163.00	7597.32	-249.67	-594.55	-87.19	3790.22	113.65	33.52	PASS
10016.00†	7680.00	-3752.38	-2261.58	15163.00	7597.32	-249.67	-594.55	-87.19	3880.06	113.31	34.42	PASS
10116.00†	7680.00	-3852.38	-2261.14	15163.00	7597.32	-249.67	-594.55	-87.19	3970.38	112.99	35.32	PASS
10216.00†	7680.00	-3952.38	-2260.70	15163.00	7597.32	-249.67	-594.55	-87.19	4061.15	112.70	36.23	PASS
10316.00†	7680.00	-4052.38	-2260.26	15163.00	7597.32	-249.67	-594.55	-87.19	4152.35	112.42	37.13	PASS
10416.00†	7680.00	-4152.38	-2259.82	15163.00	7597.32	-249.67	-594.55	-87.19	4243.95	112.17	38.04	PASS
10516.00†	7680.00	-4252.38	-2259.38	15163.00	7597.32	-249.67	-594.55	-87.19	4335.91	111.93	38.94	PASS
10616.00†	7680.00	-4352.38	-2258.94	15163.00	7597.32	-249.67	-594.55	-87.19	4428.23	111.72	39.85	PASS
10716.00†	7680.00	-4452.38	-2258.50	15163.00	7597.32	-249.67	-594.55	-87.19	4520.87	111.51	40.76	PASS
10816.00†	7680.00	-4552.37	-2258.06	15163.00	7597.32	-249.67	-594.55	-87.19	4613.82	111.33	41.67	PASS
10916.00†	7680.00	-4652.37	-2257.61	15163.00	7597.32	-249.67	-594.55	-87.19	4707.06	111.15	42.57	PASS
11016.00†	7680.00	-4752.37	-2257.17	15163.00	7597.32	-249.67	-594.55	-87.19	4800.57	111.00	43.48	PASS
11116.00†	7680.00	-4852.37	-2256.73	15163.00	7597.32	-249.67	-594.55	-87.19	4894.34	110.85	44.39	PASS
11216.00†	7680.00	-4952.37	-2256.29	15163.00	7597.32	-249.67	-594.55	-87.19	4988.35	110.71	45.30	PASS
11316.00†	7680.00	-5052.37	-2255.85	15163.00	7597.32	-249.67	-594.55	-87.19	5082.59	110.59	46.21	PASS
11416.00†	7680.00	-5152.37	-2255.41	15163.00	7597.32	-249.67	-594.55	-87.19	5177.04	110.48	47.12	PASS
11516.00†	7680.00	-5252.37	-2254.97	15163.00	7597.32	-249.67	-594.55	-87.19	5271.70	110.37	48.02	PASS
11616.00†	7680.00	-5352.37	-2254.53	15163.00	7597.32	-249.67	-594.55	-87.19	5366.55	110.28	48.93	PASS
11716.00†	7680.00	-5452.37	-2254.09	15163.00	7597.32	-249.67	-594.55	-87.19	5461.59	110.19	49.83	PASS
11816.00†	7680.00	-5552.36	-2253.65	15163.00	7597.32	-249.67	-594.55	-87.19	5556.80	110.12	50.74	PASS
11916.00†	7680.00	-5652.36	-2253.21	15163.00	7597.32	-249.67	-594.55	-87.19	5652.17	110.05	51.64	PASS



CLEARANCE DATA - Offset Wellbore: GRENNYER #36N-3HZ AWB Offset Wellpath: GRENNYER #36N-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#07 GRENNYER #36N-3HZ (636'FNL & 2575'FEL, SEC.34)				Well: GRENNYER #36N-3HZ		Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12016.00†	7680.00	-5752.36	-2252.77	15163.00	7597.32	-249.67	-594.55	-87.19	5747.71	109.99	52.54	PASS
12116.00†	7680.00	-5852.36	-2252.32	15163.00	7597.32	-249.67	-594.55	-87.19	5843.39	109.93	53.44	PASS
12216.00†	7680.00	-5952.36	-2251.88	15163.00	7597.32	-249.67	-594.55	-87.19	5939.21	109.89	54.34	PASS
12316.00†	7680.00	-6052.36	-2251.44	15163.00	7597.32	-249.67	-594.55	-87.19	6035.18	109.85	55.24	PASS
12416.00†	7680.00	-6152.36	-2251.00	15163.00	7597.32	-249.67	-594.55	-87.19	6131.26	109.81	56.14	PASS
12516.00†	7680.00	-6252.36	-2250.56	15163.00	7597.32	-249.67	-594.55	-87.19	6227.48	109.78	57.04	PASS
12616.00†	7680.00	-6352.36	-2250.12	15163.00	7597.32	-249.67	-594.55	-87.19	6323.81	109.76	57.93	PASS
12716.00†	7680.00	-6452.36	-2249.68	15163.00	7597.32	-249.67	-594.55	-87.19	6420.25	109.74	58.82	PASS
12816.00†	7680.00	-6552.36	-2249.24	15163.00	7597.32	-249.67	-594.55	-87.19	6516.80	109.73	59.72	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNEMYER #36N-3HZ AWP Offset Wellpath: GRENNEMYER #36N-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#07 GRENNEMYER #36N-3HZ (636'FNL & 2575'FEL, SEC.34) Well: GRENNEMYER #36N-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12916.00†	7680.00	-6652.35	-2248.80	15163.00	7597.32	-249.67	-594.55	-87.19	6613.45	109.72	60.61	PASS
13016.00†	7680.00	-6752.35	-2248.36	15163.00	7597.32	-249.67	-594.55	-87.19	6710.20	109.72	61.49	PASS
13116.00†	7680.00	-6852.35	-2247.92	15163.00	7597.32	-249.67	-594.55	-87.19	6807.05	109.72	62.38	PASS
13144.91	7680.00	-6881.26	-2247.79	15163.00	7597.32	-249.67	-594.55	-87.19	6835.06	109.72	62.64	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: GRENNEMYER #36N-3HZ AWP Offset Wellpath: GRENNEMYER #36N-3HZ AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: GRENNEMYER #36N-3HZ AWP Offset Wellpath: GRENNEMYER #36N-3HZ 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	16.00	1094.00	1078.00	65.00	1142.98	4637.25	-470.88	4637.96	-471.19
9.625in Casing Surface	16.00	1094.00	1078.00	65.00	1142.98	4637.25	-470.88	4637.96	-471.19
8.75in Open Hole	1094.00	7985.00	6891.00	1142.98	7608.43	4637.96	-471.19	4429.34	-415.02
7in Casing Intermediate	16.00	7974.00	7958.00	65.00	7607.92	4637.25	-470.88	4432.68	-415.21
6.125in Open Hole	7985.00	15163.00	7178.00	7608.43	7597.32	4429.34	-415.02	2242.53	-416.70

## WELLPATH COMPOSITION - Offset Wellbore: GRENNEMYER #36N-3HZ AWP Offset Wellpath: GRENNEMYER #36N-3HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	1016.00	Generic gyro - continuous (Standard)	MS ENERGY GYRO SURVEYS <116-1016>	GRENNEMYER #36N-3HZ AWP
1016.00	7927.00	NaviTrak (Magcorr,IFR)	BHI MWD+IFR SURVEYS 8.75" HOLE <1183-7927>	GRENNEMYER #36N-3HZ AWP
7927.00	15105.00	NaviTrak (Magcorr,IFR)	BHI MWD+IFR SURVEYS 6.125" HOLE <8041-15105>	GRENNEMYER #36N-3HZ AWP
15105.00	15163.00	Blind Drilling (std)	Projection to bit	GRENNEMYER #36N-3HZ AWP

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: GRENNEMYER #36N-3HZ AWP Offset Wellpath: GRENNEMYER #36N-3HZ AWP

MD Reference: Rig on SLOT#07 GRENNEMYER #36N-3HZ (636'FNL & 2575'FEL, SEC.34) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: HI-LAND #10-G AWB Offset Wellpath: HI-LAND #10-G AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#08 EX HI-LAND #10-G (1195'FNL & 660'FEL, SEC.10, PR) Well: HI-LAND #10-G Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	-16.00	33.00	-3238.45	1622.54	153.39	3622.22	25.57	147.20	PASS
116.00†	116.00	0.00	0.00	67.00	116.00	-3238.45	1622.54	153.39	3622.18	61.67	59.61	PASS
216.00†	216.00	0.00	0.00	167.00	216.00	-3238.45	1622.54	153.39	3622.18	63.74	57.65	PASS
316.00†	316.00	0.00	0.00	267.00	316.00	-3238.45	1622.54	153.39	3622.18	65.63	55.82	PASS
416.00†	416.00	0.00	0.00	367.00	416.00	-3238.45	1622.54	153.39	3622.18	67.70	54.09	PASS
516.00†	516.00	0.00	0.00	467.00	516.00	-3238.45	1622.54	153.39	3622.18	69.78	52.46	PASS
616.00†	616.00	0.00	0.00	567.00	616.00	-3238.45	1622.54	153.39	3622.18	71.86	50.93	PASS
716.00†	716.00	0.00	0.00	667.00	716.00	-3238.45	1622.54	153.39	3622.18	73.94	49.48	PASS
816.00†	816.00	0.00	0.00	767.00	816.00	-3238.45	1622.54	153.39	3622.18	75.82	48.11	PASS
916.00†	916.00	0.00	0.00	867.00	916.00	-3238.45	1622.54	153.39	3622.18	77.91	46.81	PASS
1016.00†	1016.00	0.00	0.00	967.00	1016.00	-3238.45	1622.54	153.39	3622.18	80.01	45.57	PASS
1116.00†	1116.00	0.00	0.00	1067.00	1116.00	-3238.45	1622.54	153.39	3622.18	82.11	44.40	PASS
1216.00†	1216.00	0.00	0.00	1167.00	1216.00	-3238.45	1622.54	153.39	3622.18	84.21	43.28	PASS
1316.00†	1316.00	0.00	0.00	1267.00	1316.00	-3238.45	1622.54	153.39	3622.18	86.32	42.22	PASS
1416.00†	1416.00	0.00	0.00	1367.00	1416.00	-3238.45	1622.54	153.39	3622.18	88.43	41.21	PASS
1516.00†	1516.00	0.00	0.00	1467.00	1516.00	-3238.45	1622.54	153.39	3622.18	90.54	40.24	PASS
1600.00	1600.00	0.00	0.00	1551.00	1600.00	-3238.45	1622.54	153.39	3622.18	92.32	39.46	PASS
1616.00†	1616.00	-0.03	-0.03	1567.00	1616.00	-3238.45	1622.54	-73.55	3622.17	92.66	39.31	PASS
1716.00†	1715.97	-1.60	-1.72	1666.97	1715.97	-3238.45	1622.54	-73.60	3621.52	94.79	38.42	PASS
1816.00†	1815.80	-5.56	-5.95	1766.80	1815.80	-3238.45	1622.54	-73.72	3619.89	96.91	37.56	PASS
1916.00†	1915.36	-11.89	-12.72	1866.36	1915.36	-3238.45	1622.54	-73.91	3617.29	99.04	36.72	PASS
2016.00†	2014.54	-20.59	-22.03	1965.54	2014.54	-3238.45	1622.54	-74.17	3613.76	101.17	35.90	PASS
2116.00†	2113.21	-31.64	-33.86	2064.21	2113.21	-3238.45	1622.54	-74.50	3609.33	103.31	35.12	PASS
2216.00†	2211.26	-45.04	-48.20	2162.26	2211.26	-3238.45	1622.54	-74.90	3604.06	105.45	34.35	PASS
2316.00†	2308.57	-60.77	-65.03	2259.57	2308.57	-3238.45	1622.54	-75.36	3597.99	107.61	33.60	PASS
2416.00†	2405.01	-78.81	-84.34	2356.01	2405.01	-3238.45	1622.54	-75.89	3591.20	109.78	32.87	PASS
2516.00†	2500.47	-99.14	-106.09	2451.47	2500.47	-3238.45	1622.54	-76.47	3583.77	111.98	32.16	PASS
2616.00†	2594.84	-121.73	-130.26	2545.84	2594.84	-3238.45	1622.54	-77.11	3575.79	114.21	31.45	PASS
2716.00†	2687.99	-146.55	-156.82	2638.99	2687.99	-3238.45	1622.54	-77.81	3567.35	116.47	30.77	PASS
2816.00†	2779.81	-173.58	-185.74	2730.81	2779.81	-3238.45	1622.54	-78.56	3558.56	118.79	30.09	PASS
2916.00†	2870.20	-202.78	-216.99	2821.20	2870.20	-3238.45	1622.54	-79.35	3549.53	121.16	29.42	PASS
3016.00†	2959.04	-234.11	-250.52	2910.04	2959.04	-3238.45	1622.54	-80.18	3540.40	123.60	28.77	PASS
3116.00†	3046.23	-267.54	-286.29	2997.23	3046.23	-3238.45	1622.54	-81.05	3531.28	126.12	28.12	PASS
3117.60	3047.61	-268.10	-286.88	2998.61	3047.61	-3238.45	1622.54	-81.06	3531.14	126.16	28.11	PASS
3216.00†	3132.52	-302.05	-323.21	3083.52	3132.52	-3238.45	1622.54	-81.76	3522.56	128.70	27.48	PASS
3316.00†	3218.82	-336.55	-360.13	3169.82	3218.82	-3238.45	1622.54	-82.46	3514.55	131.36	26.86	PASS

CLEARANCE DATA - Offset Wellbore: HI-LAND #10-G AWB    Offset Wellpath: HI-LAND #10-G AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#08 EX HI-LAND #10-G (1195'FNL & 660'FEL, SEC.10, PR)			Well: HI-LAND #10-G		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	3256.11	3305.11	-3238.45	1622.54	-83.17	3507.24	134.08	26.26	PASS
3516.00†	3391.40	-405.55	-433.97	3342.40	3391.40	-3238.45	1622.54	-83.88	3500.65	136.87	25.67	PASS
3616.00†	3477.70	-440.05	-470.89	3428.70	3477.70	-3238.45	1622.54	-84.59	3494.78	139.70	25.11	PASS
3716.00†	3563.99	-474.55	-507.81	3514.99	3563.99	-3238.45	1622.54	-85.31	3489.63	142.59	24.56	PASS
3816.00†	3650.28	-509.05	-544.73	3601.28	3650.28	-3238.45	1622.54	-86.02	3485.21	145.52	24.04	PASS
3916.00†	3736.58	-543.56	-581.65	3687.58	3736.58	-3238.45	1622.54	-86.74	3481.51	148.49	23.53	PASS
4016.00†	3822.87	-578.06	-618.57	3773.87	3822.87	-3238.45	1622.54	-87.45	3478.54	151.49	23.04	PASS
4116.00†	3909.17	-612.56	-655.49	3860.17	3909.17	-3238.45	1622.54	-88.17	3476.31	154.53	22.57	PASS
4216.00†	3995.46	-647.06	-692.41	3946.46	3995.46	-3238.45	1622.54	-88.89	3474.81	157.59	22.12	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: HI-LAND #10-G AWB Offset Wellpath: HI-LAND #10-G AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#08 EX HI-LAND #10-G (1195'FNL & 660'FEL, SEC.10, PR) Well: HI-LAND #10-G Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	4032.75	4081.75	-3238.45	1622.54	-89.61	3474.04	160.67	21.69	PASS
4366.00†	4124.90	-698.81	-747.79	4077.11	4126.11	-3238.45	1622.54	-89.98	3473.94	162.25	21.48	PASS
4416.00†	4168.05	-716.06	-766.25	4119.05	4168.05	-3238.45	1622.54	-90.33	3474.01	163.78	21.28	PASS
4516.00†	4254.34	-750.56	-803.16	4205.34	4254.34	-3238.45	1622.54	-91.05	3474.71	166.90	20.88	PASS
4616.00†	4340.63	-785.07	-840.08	4291.63	4340.63	-3238.45	1622.54	-91.77	3476.15	170.03	20.51	PASS
4716.00†	4426.93	-819.57	-877.00	4377.93	4426.93	-3238.45	1622.54	-92.49	3478.32	173.18	20.14	PASS
4816.00†	4513.22	-854.07	-913.92	4464.22	4513.22	-3238.45	1622.54	-93.20	3481.23	176.33	19.80	PASS
4916.00†	4599.52	-888.57	-950.84	4550.52	4599.52	-3238.45	1622.54	-93.92	3484.86	179.50	19.47	PASS
5016.00†	4685.81	-923.07	-987.76	4636.81	4685.81	-3238.45	1622.54	-94.63	3489.22	182.66	19.16	PASS
5116.00†	4772.10	-957.57	-1024.68	4723.10	4772.10	-3238.45	1622.54	-95.35	3494.31	185.83	18.86	PASS
5216.00†	4858.40	-992.07	-1061.60	4809.40	4858.40	-3238.45	1622.54	-96.06	3500.12	189.00	18.57	PASS
5316.00†	4944.69	-1026.58	-1098.52	4895.69	4944.69	-3238.45	1622.54	-96.77	3506.65	192.17	18.30	PASS
5416.00†	5030.98	-1061.08	-1135.44	4981.98	5030.98	-3238.45	1622.54	-97.48	3513.89	195.33	18.04	PASS
5516.00†	5117.28	-1095.58	-1172.36	5068.28	5117.28	-3238.45	1622.54	-98.18	3521.84	198.49	17.79	PASS
5616.00†	5203.57	-1130.08	-1209.28	5154.57	5203.57	-3238.45	1622.54	-98.89	3530.50	201.64	17.55	PASS
5716.00†	5289.87	-1164.58	-1246.20	5240.87	5289.87	-3238.45	1622.54	-99.59	3539.86	204.79	17.33	PASS
5816.00†	5376.16	-1199.08	-1283.12	5327.16	5376.16	-3238.45	1622.54	-100.29	3549.91	207.93	17.11	PASS
5916.00†	5462.45	-1233.59	-1320.04	5413.45	5462.45	-3238.45	1622.54	-100.98	3560.65	211.06	16.91	PASS
6016.00†	5548.75	-1268.09	-1356.96	5450.00	5499.00	-3238.45	1622.54	-101.27	3572.42	213.16	16.80	PASS
6116.00†	5635.04	-1302.59	-1393.87	5450.00	5499.00	-3238.45	1622.54	-101.27	3586.76	214.34	16.78	PASS
6176.61†	5687.35	-1323.50	-1416.25	5450.00	5499.00	-3238.45	1622.54	-101.27	3596.77	215.00	16.77	PASS
6216.00†	5721.33	-1337.09	-1430.79	5450.00	5499.00	-3238.45	1622.54	-101.27	3603.81	215.39	16.77	PASS
6316.00†	5807.63	-1371.59	-1467.71	5450.00	5499.00	-3238.45	1622.54	-101.27	3623.55	216.31	16.79	PASS
6416.00†	5893.92	-1406.09	-1504.63	5450.00	5499.00	-3238.45	1622.54	-101.27	3645.92	217.10	16.84	PASS
6516.00†	5980.22	-1440.59	-1541.55	5450.00	5499.00	-3238.45	1622.54	-101.27	3670.88	217.76	16.90	PASS
6616.00†	6066.51	-1475.10	-1578.47	5450.00	5499.00	-3238.45	1622.54	-101.27	3698.38	218.30	16.98	PASS
6716.00†	6152.80	-1509.60	-1615.39	5450.00	5499.00	-3238.45	1622.54	-101.27	3728.35	218.73	17.09	PASS
6816.00†	6239.10	-1544.10	-1652.31	5450.00	5499.00	-3238.45	1622.54	-101.27	3760.75	219.04	17.21	PASS
6916.00†	6325.39	-1578.60	-1689.23	5450.00	5499.00	-3238.45	1622.54	-101.27	3795.51	219.24	17.36	PASS
7016.00†	6411.68	-1613.10	-1726.15	5450.00	5499.00	-3238.45	1622.54	-101.27	3832.56	219.34	17.52	PASS
7116.00†	6497.98	-1647.60	-1763.07	5450.00	5499.00	-3238.45	1622.54	-101.27	3871.84	219.35	17.70	PASS
7216.00†	6584.27	-1682.10	-1799.99	5450.00	5499.00	-3238.45	1622.54	-101.27	3913.28	219.27	17.89	PASS
7316.00†	6670.57	-1716.61	-1836.91	5450.00	5499.00	-3238.45	1622.54	-101.27	3956.81	219.10	18.10	PASS
7416.00†	6756.86	-1751.11	-1873.83	5450.00	5499.00	-3238.45	1622.54	-101.27	4002.37	218.86	18.33	PASS
7516.00†	6843.15	-1785.61	-1910.75	5450.00	5499.00	-3238.45	1622.54	-101.27	4049.89	218.54	18.58	PASS
7616.00†	6929.45	-1820.11	-1947.66	5450.00	5499.00	-3238.45	1622.54	-101.27	4099.30	218.17	18.84	PASS

CLEARANCE DATA - Offset Wellbore: HI-LAND #10-G AWB    Offset Wellpath: HI-LAND #10-G AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#08 EX HI-LAND #10-G (1195'FNL & 660'FEL, SEC.10, PR)				Well: HI-LAND #10-G		Threshold Value=1.00    † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7716.00†	7015.74	-1854.61	-1984.58	5450.00	5499.00	-3238.45	1622.54	-101.27	4150.53	217.73	19.11	PASS
7816.00†	7102.03	-1889.11	-2021.50	5450.00	5499.00	-3238.45	1622.54	-101.27	4203.51	217.24	19.40	PASS
7916.00†	7188.33	-1923.61	-2058.42	5450.00	5499.00	-3238.45	1622.54	-101.27	4258.18	216.71	19.70	PASS
8016.00†	7274.62	-1958.12	-2095.34	5450.00	5499.00	-3238.45	1622.54	-101.27	4314.48	216.13	20.01	PASS
8085.19	7334.33	-1981.99	-2120.89	5450.00	5499.00	-3238.45	1622.54	-101.27	4354.36	215.71	20.24	PASS
8116.00†	7360.64	-1993.39	-2132.14	5450.00	5499.00	-3238.45	1622.54	-95.82	4371.90	215.53	20.34	PASS
8216.00†	7441.54	-2040.68	-2166.69	5450.00	5499.00	-3238.45	1622.54	-82.10	4423.39	215.16	20.61	PASS
8316.00†	7513.69	-2102.53	-2197.41	5450.00	5499.00	-3238.45	1622.54	-72.95	4465.57	215.21	20.80	PASS
8416.00†	7574.90	-2177.06	-2223.37	5450.00	5499.00	-3238.45	1622.54	-66.89	4497.44	215.49	20.92	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: HI-LAND #10-G AWB Offset Wellpath: HI-LAND #10-G AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#08 EX HI-LAND #10-G (1195'FNL & 660'FEL, SEC.10, PR) Well: HI-LAND #10-G Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8516.00†	7623.30	-2261.99	-2243.79	5450.00	5499.00	-3238.45	1622.54	-63.06	4518.26	216.02	20.97	PASS
8616.00†	7657.43	-2354.77	-2258.05	5450.00	5499.00	-3238.45	1622.54	-60.96	4527.55	216.77	20.94	PASS
8716.00†	7676.26	-2452.55	-2265.70	5450.00	5499.00	-3238.45	1622.54	-60.34	4525.10	217.75	20.83	PASS
8784.36	7680.00	-2520.76	-2267.01	5450.00	5499.00	-3238.45	1622.54	-60.70	4516.69	218.49	20.73	PASS
8816.00†	7680.00	-2552.39	-2266.87	5450.00	5499.00	-3238.45	1622.54	-60.70	4511.65	218.80	20.67	PASS
8916.00†	7680.00	-2652.39	-2266.43	5450.00	5499.00	-3238.45	1622.54	-60.70	4497.15	219.75	20.52	PASS
9016.00†	7680.00	-2752.39	-2265.99	5450.00	5499.00	-3238.45	1622.54	-60.70	4484.83	220.71	20.37	PASS
9116.00†	7680.00	-2852.39	-2265.55	5450.00	5499.00	-3238.45	1622.54	-60.70	4474.71	221.66	20.24	PASS
9216.00†	7680.00	-2952.39	-2265.11	5450.00	5499.00	-3238.45	1622.54	-60.70	4466.81	222.61	20.12	PASS
9316.00†	7680.00	-3052.39	-2264.67	5450.00	5499.00	-3238.45	1622.54	-60.70	4461.14	223.55	20.01	PASS
9416.00†	7680.00	-3152.39	-2264.23	5450.00	5499.00	-3238.45	1622.54	-60.70	4457.71	224.49	19.91	PASS
9516.00†	7680.00	-3252.39	-2263.79	5450.00	5499.00	-3238.45	1622.54	-60.70	4456.51	225.42	19.82	PASS
9616.00†	7680.00	-3352.39	-2263.34	5450.00	5499.00	-3238.45	1622.54	-60.70	4457.56	226.34	19.74	PASS
9716.00†	7680.00	-3452.39	-2262.90	5450.00	5499.00	-3238.45	1622.54	-60.70	4460.85	227.24	19.68	PASS
9816.00†	7680.00	-3552.38	-2262.46	5450.00	5499.00	-3238.45	1622.54	-60.70	4466.38	228.14	19.63	PASS
9916.00†	7680.00	-3652.38	-2262.02	5450.00	5499.00	-3238.45	1622.54	-60.70	4474.14	229.01	19.58	PASS
10016.00†	7680.00	-3752.38	-2261.58	5450.00	5499.00	-3238.45	1622.54	-60.70	4484.12	229.87	19.55	PASS
10116.00†	7680.00	-3852.38	-2261.14	5450.00	5499.00	-3238.45	1622.54	-60.70	4496.29	230.71	19.54	PASS
10216.00†	7680.00	-3952.38	-2260.70	5450.00	5499.00	-3238.45	1622.54	-60.70	4510.66	231.53	19.53	PASS
10316.00†	7680.00	-4052.38	-2260.26	5450.00	5499.00	-3238.45	1622.54	-60.70	4527.18	232.32	19.53	PASS
10416.00†	7680.00	-4152.38	-2259.82	5450.00	5499.00	-3238.45	1622.54	-60.70	4545.85	233.10	19.55	PASS
10516.00†	7680.00	-4252.38	-2259.38	5450.00	5499.00	-3238.45	1622.54	-60.70	4566.63	233.85	19.57	PASS
10616.00†	7680.00	-4352.38	-2258.94	5450.00	5499.00	-3238.45	1622.54	-60.70	4589.50	234.57	19.61	PASS
10716.00†	7680.00	-4452.38	-2258.50	5450.00	5499.00	-3238.45	1622.54	-60.70	4614.42	235.27	19.66	PASS
10816.00†	7680.00	-4552.37	-2258.06	5450.00	5499.00	-3238.45	1622.54	-60.70	4641.36	235.95	19.72	PASS
10916.00†	7680.00	-4652.37	-2257.61	5450.00	5499.00	-3238.45	1622.54	-60.70	4670.28	236.59	19.79	PASS
11016.00†	7680.00	-4752.37	-2257.17	5450.00	5499.00	-3238.45	1622.54	-60.70	4701.16	237.21	19.86	PASS
11116.00†	7680.00	-4852.37	-2256.73	5450.00	5499.00	-3238.45	1622.54	-60.70	4733.95	237.81	19.95	PASS
11216.00†	7680.00	-4952.37	-2256.29	5450.00	5499.00	-3238.45	1622.54	-60.70	4768.61	238.37	20.05	PASS
11316.00†	7680.00	-5052.37	-2255.85	5450.00	5499.00	-3238.45	1622.54	-60.70	4805.10	238.91	20.16	PASS
11416.00†	7680.00	-5152.37	-2255.41	5450.00	5499.00	-3238.45	1622.54	-60.70	4843.38	239.42	20.28	PASS
11516.00†	7680.00	-5252.37	-2254.97	5450.00	5499.00	-3238.45	1622.54	-60.70	4883.41	239.90	20.40	PASS
11616.00†	7680.00	-5352.37	-2254.53	5450.00	5499.00	-3238.45	1622.54	-60.70	4925.15	240.36	20.54	PASS
11716.00†	7680.00	-5452.37	-2254.09	5450.00	5499.00	-3238.45	1622.54	-60.70	4968.55	240.79	20.68	PASS
11816.00†	7680.00	-5552.36	-2253.65	5450.00	5499.00	-3238.45	1622.54	-60.70	5013.56	241.19	20.83	PASS
11916.00†	7680.00	-5652.36	-2253.21	5450.00	5499.00	-3238.45	1622.54	-60.70	5060.15	241.57	21.00	PASS

CLEARANCE DATA - Offset Wellbore: HI-LAND #10-G AWB    Offset Wellpath: HI-LAND #10-G AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#08 EX HI-LAND #10-G (1195'FNL & 660'FEL, SEC.10, PR)			Well: HI-LAND #10-G		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12016.00†	7680.00	-5752.36	-2252.77	5450.00	5499.00	-3238.45	1622.54	-60.70	5108.28	241.93	21.16	PASS
12116.00†	7680.00	-5852.36	-2252.32	5450.00	5499.00	-3238.45	1622.54	-60.70	5157.90	242.26	21.34	PASS
12216.00†	7680.00	-5952.36	-2251.88	5450.00	5499.00	-3238.45	1622.54	-60.70	5208.96	242.56	21.52	PASS
12316.00†	7680.00	-6052.36	-2251.44	5450.00	5499.00	-3238.45	1622.54	-60.70	5261.43	242.85	21.72	PASS
12416.00†	7680.00	-6152.36	-2251.00	5450.00	5499.00	-3238.45	1622.54	-60.70	5315.26	243.11	21.91	PASS
12516.00†	7680.00	-6252.36	-2250.56	5450.00	5499.00	-3238.45	1622.54	-60.70	5370.41	243.35	22.12	PASS
12616.00†	7680.00	-6352.36	-2250.12	5450.00	5499.00	-3238.45	1622.54	-60.70	5426.85	243.58	22.33	PASS
12716.00†	7680.00	-6452.36	-2249.68	5450.00	5499.00	-3238.45	1622.54	-60.70	5484.53	243.78	22.55	PASS
12816.00†	7680.00	-6552.36	-2249.24	5450.00	5499.00	-3238.45	1622.54	-60.70	5543.41	243.97	22.77	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: HI-LAND #10-G AWB Offset Wellpath: HI-LAND #10-G AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#08 EX HI-LAND #10-G (1195'FNL & 660'FEL, SEC.10, PR) Well: HI-LAND #10-G Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12916.00†	7680.00	-6652.35	-2248.80	5450.00	5499.00	-3238.45	1622.54	-60.70	5603.46	244.13	23.01	PASS
13016.00†	7680.00	-6752.35	-2248.36	5450.00	5499.00	-3238.45	1622.54	-60.70	5664.64	244.28	23.24	PASS
13116.00†	7680.00	-6852.35	-2247.92	5450.00	5499.00	-3238.45	1622.54	-60.70	5726.91	244.42	23.48	PASS
13144.91	7680.00	-6881.26	-2247.79	5450.00	5499.00	-3238.45	1622.54	-60.70	5745.11	244.45	23.56	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: HI-LAND #10-G AWB Offset Wellpath: HI-LAND #10-G AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: HI-LAND #10-G AWB Offset Wellpath: HI-LAND #10-G 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	229.00	229.00	33.00	262.00	-1974.13	989.17	-1974.13	989.17
8.625in Casing Surface	0.00	229.00	229.00	33.00	262.00	-1974.13	989.17	-1974.13	989.17
7.875in Open Hole	229.00	5448.00	5219.00	262.00	5481.00	-1974.13	989.17	-1974.13	989.17
4.5in Casing Production	0.00	5448.00	5448.00	33.00	5481.00	-1974.13	989.17	-1974.13	989.17

## WELLPATH COMPOSITION - Offset Wellbore: HI-LAND #10-G AWB Offset Wellpath: HI-LAND #10-G AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5450.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5450>	HI-LAND #10-G AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: HI-LAND #10-G AWB Offset Wellpath: HI-LAND #10-G AWP

MD Reference: Rig on SLOT#08 EX HI-LAND #10-G (1195'FNL & 660'FEL, SEC.10, 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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #4 AWB Offset Wellpath: RIVERDALE FARMS #4 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#02 EX RIVERDALE FARMS #4 (1680'FSL & 1980'FWL, SEC.10, PA) Well: RIVERDALE FARMS #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
16.00	16.00	0.00	0.00	-16.00	57.00	-5651.51	-1017.90	-169.79	5742.60	25.56	233.39	PASS
116.00†	116.00	0.00	0.00	43.00	116.00	-5651.51	-1017.90	-169.79	5742.45	61.17	95.30	PASS
216.00†	216.00	0.00	0.00	143.00	216.00	-5651.51	-1017.90	-169.79	5742.45	63.20	92.19	PASS
316.00†	316.00	0.00	0.00	243.00	316.00	-5651.51	-1017.90	-169.79	5742.45	65.06	89.28	PASS
416.00†	416.00	0.00	0.00	343.00	416.00	-5651.51	-1017.90	-169.79	5742.45	67.10	86.53	PASS
516.00†	516.00	0.00	0.00	443.00	516.00	-5651.51	-1017.90	-169.79	5742.45	69.15	83.95	PASS
616.00†	616.00	0.00	0.00	543.00	616.00	-5651.51	-1017.90	-169.79	5742.45	71.19	81.51	PASS
716.00†	716.00	0.00	0.00	643.00	716.00	-5651.51	-1017.90	-169.79	5742.45	73.25	79.20	PASS
816.00†	816.00	0.00	0.00	743.00	816.00	-5651.51	-1017.90	-169.79	5742.45	75.09	77.02	PASS
916.00†	916.00	0.00	0.00	843.00	916.00	-5651.51	-1017.90	-169.79	5742.45	77.15	74.95	PASS
1016.00†	1016.00	0.00	0.00	943.00	1016.00	-5651.51	-1017.90	-169.79	5742.45	79.22	72.98	PASS
1116.00†	1116.00	0.00	0.00	1043.00	1116.00	-5651.51	-1017.90	-169.79	5742.45	81.29	71.11	PASS
1216.00†	1216.00	0.00	0.00	1143.00	1216.00	-5651.51	-1017.90	-169.79	5742.45	83.36	69.33	PASS
1316.00†	1316.00	0.00	0.00	1243.00	1316.00	-5651.51	-1017.90	-169.79	5742.45	85.43	67.64	PASS
1416.00†	1416.00	0.00	0.00	1343.00	1416.00	-5651.51	-1017.90	-169.79	5742.45	87.51	66.02	PASS
1516.00†	1516.00	0.00	0.00	1443.00	1516.00	-5651.51	-1017.90	-169.79	5742.45	89.60	64.48	PASS
1600.00	1600.00	0.00	0.00	1527.00	1600.00	-5651.51	-1017.90	-169.79	5742.45	91.35	63.23	PASS
1616.00†	1616.00	-0.03	-0.03	1543.00	1616.00	-5651.51	-1017.90	-36.73	5742.41	91.68	63.00	PASS
1716.00†	1715.97	-1.60	-1.72	1642.97	1715.97	-5651.51	-1017.90	-36.77	5740.57	93.78	61.56	PASS
1816.00†	1815.80	-5.56	-5.95	1742.80	1815.80	-5651.51	-1017.90	-36.86	5735.93	95.91	60.14	PASS
1916.00†	1915.36	-11.89	-12.72	1842.36	1915.36	-5651.51	-1017.90	-37.00	5728.51	98.04	58.75	PASS
2016.00†	2014.54	-20.59	-22.03	1941.54	2014.54	-5651.51	-1017.90	-37.20	5718.31	100.17	57.39	PASS
2116.00†	2113.21	-31.64	-33.86	2040.21	2113.21	-5651.51	-1017.90	-37.46	5705.37	102.30	56.06	PASS
2216.00†	2211.26	-45.04	-48.20	2138.26	2211.26	-5651.51	-1017.90	-37.77	5689.71	104.42	54.77	PASS
2316.00†	2308.57	-60.77	-65.03	2235.57	2308.57	-5651.51	-1017.90	-38.14	5671.36	106.54	53.50	PASS
2416.00†	2405.01	-78.81	-84.34	2332.01	2405.01	-5651.51	-1017.90	-38.57	5650.36	108.66	52.26	PASS
2516.00†	2500.47	-99.14	-106.09	2427.47	2500.47	-5651.51	-1017.90	-39.06	5626.75	110.78	51.04	PASS
2616.00†	2594.84	-121.73	-130.26	2521.84	2594.84	-5651.51	-1017.90	-39.62	5600.58	112.91	49.84	PASS
2716.00†	2687.99	-146.55	-156.82	2614.99	2687.99	-5651.51	-1017.90	-40.23	5571.90	115.04	48.66	PASS
2816.00†	2779.81	-173.58	-185.74	2706.81	2779.81	-5651.51	-1017.90	-40.92	5540.78	117.17	47.50	PASS
2916.00†	2870.20	-202.78	-216.99	2797.20	2870.20	-5651.51	-1017.90	-41.67	5507.29	119.33	46.36	PASS
3016.00†	2959.04	-234.11	-250.52	2886.04	2959.04	-5651.51	-1017.90	-42.49	5471.48	121.49	45.23	PASS
3116.00†	3046.23	-267.54	-286.29	2973.23	3046.23	-5651.51	-1017.90	-43.38	5433.45	123.68	44.12	PASS
3117.60	3047.61	-268.10	-286.88	2974.61	3047.61	-5651.51	-1017.90	-43.39	5432.82	123.72	44.10	PASS
3216.00†	3132.52	-302.05	-323.21	3059.52	3132.52	-5651.51	-1017.90	-43.73	5394.39	125.88	43.03	PASS
3316.00†	3218.82	-336.55	-360.13	3145.82	3218.82	-5651.51	-1017.90	-44.08	5355.51	128.12	41.97	PASS

CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #4 AWB    Offset Wellpath: RIVERDALE FARMS #4 AWP												
Facility: SEC.10-T01S-R67W		Slot: SLOT#02 EX RIVERDALE FARMS #4 (1680'FSL & 1980'FWL, SEC.10, PA)					Well: RIVERDALE FARMS #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
3416.00†	3305.11	-371.05	-397.05	3232.11	3305.11	-5651.51	-1017.90	-44.43	5316.84	130.41	40.94	PASS
3516.00†	3391.40	-405.55	-433.97	3318.40	3391.40	-5651.51	-1017.90	-44.79	5278.36	132.74	39.92	PASS
3616.00†	3477.70	-440.05	-470.89	3404.70	3477.70	-5651.51	-1017.90	-45.16	5240.09	135.11	38.94	PASS
3716.00†	3563.99	-474.55	-507.81	3490.99	3563.99	-5651.51	-1017.90	-45.53	5202.03	137.53	37.97	PASS
3816.00†	3650.28	-509.05	-544.73	3577.28	3650.28	-5651.51	-1017.90	-45.90	5164.18	139.99	37.03	PASS
3916.00†	3736.58	-543.56	-581.65	3663.58	3736.58	-5651.51	-1017.90	-46.28	5126.55	142.49	36.11	PASS
4016.00†	3822.87	-578.06	-618.57	3749.87	3822.87	-5651.51	-1017.90	-46.66	5089.15	145.03	35.22	PASS
4116.00†	3909.17	-612.56	-655.49	3836.17	3909.17	-5651.51	-1017.90	-47.04	5051.97	147.61	34.35	PASS
4216.00†	3995.46	-647.06	-692.41	3922.46	3995.46	-5651.51	-1017.90	-47.44	5015.03	150.22	33.50	PASS



# Clearance Report

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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #4 AWB Offset Wellpath: RIVERDALE FARMS #4 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#02 EX RIVERDALE FARMS #4 (1680'FSL & 1980'FWL, SEC.10, PA) Well: RIVERDALE FARMS #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
4316.00†	4081.75	-681.56	-729.33	4008.75	4081.75	-5651.51	-1017.90	-47.83	4978.32	152.88	32.68	PASS
4416.00†	4168.05	-716.06	-766.25	4095.05	4168.05	-5651.51	-1017.90	-48.24	4941.86	155.57	31.87	PASS
4516.00†	4254.34	-750.56	-803.16	4181.34	4254.34	-5651.51	-1017.90	-48.64	4905.65	158.29	31.09	PASS
4616.00†	4340.63	-785.07	-840.08	4267.63	4340.63	-5651.51	-1017.90	-49.06	4869.70	161.05	30.34	PASS
4716.00†	4426.93	-819.57	-877.00	4353.93	4426.93	-5651.51	-1017.90	-49.47	4834.00	163.84	29.60	PASS
4816.00†	4513.22	-854.07	-913.92	4440.22	4513.22	-5651.51	-1017.90	-49.90	4798.57	166.67	28.88	PASS
4916.00†	4599.52	-888.57	-950.84	4526.52	4599.52	-5651.51	-1017.90	-50.33	4763.42	169.52	28.19	PASS
5016.00†	4685.81	-923.07	-987.76	4612.81	4685.81	-5651.51	-1017.90	-50.76	4728.54	172.41	27.51	PASS
5116.00†	4772.10	-957.57	-1024.68	4699.10	4772.10	-5651.51	-1017.90	-51.20	4693.95	175.33	26.85	PASS
5216.00†	4858.40	-992.07	-1061.60	4785.40	4858.40	-5651.51	-1017.90	-51.64	4659.64	178.28	26.21	PASS
5316.00†	4944.69	-1026.58	-1098.52	4871.69	4944.69	-5651.51	-1017.90	-52.09	4625.64	181.26	25.59	PASS
5416.00†	5030.98	-1061.08	-1135.44	4957.98	5030.98	-5651.51	-1017.90	-52.55	4591.94	184.26	24.99	PASS
5516.00†	5117.28	-1095.58	-1172.36	5044.28	5117.28	-5651.51	-1017.90	-53.01	4558.55	187.30	24.41	PASS
5616.00†	5203.57	-1130.08	-1209.28	5115.00	5188.00	-5651.51	-1017.90	-53.39	4525.51	190.05	23.88	PASS
5716.00†	5289.87	-1164.58	-1246.20	5115.00	5188.00	-5651.51	-1017.90	-53.39	4493.89	191.39	23.54	PASS
5816.00†	5376.16	-1199.08	-1283.12	5115.00	5188.00	-5651.51	-1017.90	-53.39	4464.29	192.69	23.23	PASS
5916.00†	5462.45	-1233.59	-1320.04	5115.00	5188.00	-5651.51	-1017.90	-53.39	4436.74	193.94	22.94	PASS
6016.00†	5548.75	-1268.09	-1356.96	5115.00	5188.00	-5651.51	-1017.90	-53.39	4411.30	195.14	22.67	PASS
6116.00†	5635.04	-1302.59	-1393.87	5115.00	5188.00	-5651.51	-1017.90	-53.39	4387.98	196.29	22.41	PASS
6216.00†	5721.33	-1337.09	-1430.79	5115.00	5188.00	-5651.51	-1017.90	-53.39	4366.83	197.38	22.18	PASS
6316.00†	5807.63	-1371.59	-1467.71	5115.00	5188.00	-5651.51	-1017.90	-53.39	4347.87	198.40	21.97	PASS
6416.00†	5893.92	-1406.09	-1504.63	5115.00	5188.00	-5651.51	-1017.90	-53.39	4331.15	199.36	21.78	PASS
6516.00†	5980.22	-1440.59	-1541.55	5115.00	5188.00	-5651.51	-1017.90	-53.39	4316.67	200.24	21.61	PASS
6616.00†	6066.51	-1475.10	-1578.47	5115.00	5188.00	-5651.51	-1017.90	-53.39	4304.47	201.05	21.46	PASS
6716.00†	6152.80	-1509.60	-1615.39	5115.00	5188.00	-5651.51	-1017.90	-53.39	4294.57	201.78	21.34	PASS
6816.00†	6239.10	-1544.10	-1652.31	5115.00	5188.00	-5651.51	-1017.90	-53.39	4286.97	202.44	21.23	PASS
6916.00†	6325.39	-1578.60	-1689.23	5115.00	5188.00	-5651.51	-1017.90	-53.39	4281.70	203.01	21.14	PASS
7016.00†	6411.68	-1613.10	-1726.15	5115.00	5188.00	-5651.51	-1017.90	-53.39	4278.76	203.50	21.08	PASS
7116.00†	6497.98	-1647.60	-1763.07	5115.00	5188.00	-5651.51	-1017.90	-53.39	4278.16	203.90	21.03	PASS
7216.00†	6584.27	-1682.10	-1799.99	5115.00	5188.00	-5651.51	-1017.90	-53.39	4279.89	204.22	21.01	PASS
7316.00†	6670.57	-1716.61	-1836.91	5115.00	5188.00	-5651.51	-1017.90	-53.39	4283.96	204.45	21.01	PASS
7416.00†	6756.86	-1751.11	-1873.83	5115.00	5188.00	-5651.51	-1017.90	-53.39	4290.35	204.60	21.02	PASS
7516.00†	6843.15	-1785.61	-1910.75	5115.00	5188.00	-5651.51	-1017.90	-53.39	4299.06	204.66	21.06	PASS
7616.00†	6929.45	-1820.11	-1947.66	5115.00	5188.00	-5651.51	-1017.90	-53.39	4310.08	204.64	21.12	PASS
7716.00†	7015.74	-1854.61	-1984.58	5115.00	5188.00	-5651.51	-1017.90	-53.39	4323.38	204.54	21.19	PASS
7816.00†	7102.03	-1889.11	-2021.50	5115.00	5188.00	-5651.51	-1017.90	-53.39	4338.94	204.36	21.29	PASS

CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #4 AWB Offset Wellpath: RIVERDALE FARMS #4 AWP												
Facility: SEC.10-T01S-R67W		Slot: SLOT#02 EX RIVERDALE FARMS #4 (1680'FSL & 1980'FWL, SEC.10, PA)					Well: RIVERDALE FARMS #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
7916.00†	7188.33	-1923.61	-2058.42	5115.00	5188.00	-5651.51	-1017.90	-53.39	4356.75	204.10	21.40	PASS
8016.00†	7274.62	-1958.12	-2095.34	5115.00	5188.00	-5651.51	-1017.90	-53.39	4376.76	203.77	21.53	PASS
8085.19	7334.33	-1981.99	-2120.89	5115.00	5188.00	-5651.51	-1017.90	-53.39	4391.89	203.50	21.64	PASS
8116.00†	7360.64	-1993.39	-2132.14	5115.00	5188.00	-5651.51	-1017.90	-49.53	4398.16	203.36	21.68	PASS
8216.00†	7441.54	-2040.68	-2166.69	5115.00	5188.00	-5651.51	-1017.90	-40.11	4408.66	203.05	21.77	PASS
8316.00†	7513.69	-2102.53	-2197.41	5115.00	5188.00	-5651.51	-1017.90	-34.11	4404.02	203.03	21.75	PASS
8416.00†	7574.90	-2177.06	-2223.37	5115.00	5188.00	-5651.51	-1017.90	-30.28	4384.32	202.95	21.66	PASS
8516.00†	7623.30	-2261.99	-2243.79	5115.00	5188.00	-5651.51	-1017.90	-27.90	4349.98	202.79	21.51	PASS
8616.00†	7657.43	-2354.77	-2258.05	5115.00	5188.00	-5651.51	-1017.90	-26.59	4301.70	202.58	21.29	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #4 AWB Offset Wellpath: RIVERDALE FARMS #4 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#02 EX RIVERDALE FARMS #4 (1680'FSL & 1980'FWL, SEC.10, PA) Well: RIVERDALE FARMS #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
8716.00†	7676.26	-2452.55	-2265.70	5115.00	5188.00	-5651.51	-1017.90	-26.16	4240.50	202.33	21.01	PASS
8784.36	7680.00	-2520.76	-2267.01	5115.00	5188.00	-5651.51	-1017.90	-26.37	4191.89	202.11	20.79	PASS
8816.00†	7680.00	-2552.39	-2266.87	5115.00	5188.00	-5651.51	-1017.90	-26.37	4168.28	201.97	20.69	PASS
8916.00†	7680.00	-2652.39	-2266.43	5115.00	5188.00	-5651.51	-1017.90	-26.37	4094.34	201.45	20.38	PASS
9016.00†	7680.00	-2752.39	-2265.99	5115.00	5188.00	-5651.51	-1017.90	-26.37	4021.53	200.87	20.07	PASS
9116.00†	7680.00	-2852.39	-2265.55	5115.00	5188.00	-5651.51	-1017.90	-26.37	3949.91	200.24	19.78	PASS
9216.00†	7680.00	-2952.39	-2265.11	5115.00	5188.00	-5651.51	-1017.90	-26.37	3879.54	199.55	19.49	PASS
9316.00†	7680.00	-3052.39	-2264.67	5115.00	5188.00	-5651.51	-1017.90	-26.37	3810.50	198.80	19.22	PASS
9416.00†	7680.00	-3152.39	-2264.23	5115.00	5188.00	-5651.51	-1017.90	-26.37	3742.86	197.98	18.95	PASS
9516.00†	7680.00	-3252.39	-2263.79	5115.00	5188.00	-5651.51	-1017.90	-26.37	3676.70	197.09	18.70	PASS
9616.00†	7680.00	-3352.39	-2263.34	5115.00	5188.00	-5651.51	-1017.90	-26.37	3612.09	196.13	18.46	PASS
9716.00†	7680.00	-3452.39	-2262.90	5115.00	5188.00	-5651.51	-1017.90	-26.37	3549.12	195.10	18.24	PASS
9816.00†	7680.00	-3552.38	-2262.46	5115.00	5188.00	-5651.51	-1017.90	-26.37	3487.89	193.98	18.03	PASS
9916.00†	7680.00	-3652.38	-2262.02	5115.00	5188.00	-5651.51	-1017.90	-26.37	3428.47	192.78	17.83	PASS
10016.00†	7680.00	-3752.38	-2261.58	5115.00	5188.00	-5651.51	-1017.90	-26.37	3370.98	191.49	17.65	PASS
10116.00†	7680.00	-3852.38	-2261.14	5115.00	5188.00	-5651.51	-1017.90	-26.37	3315.51	190.12	17.49	PASS
10216.00†	7680.00	-3952.38	-2260.70	5115.00	5188.00	-5651.51	-1017.90	-26.37	3262.16	188.66	17.34	PASS
10316.00†	7680.00	-4052.38	-2260.26	5115.00	5188.00	-5651.51	-1017.90	-26.37	3211.04	187.11	17.21	PASS
10416.00†	7680.00	-4152.38	-2259.82	5115.00	5188.00	-5651.51	-1017.90	-26.37	3162.25	185.48	17.10	PASS
10516.00†	7680.00	-4252.38	-2259.38	5115.00	5188.00	-5651.51	-1017.90	-26.37	3115.91	183.77	17.00	PASS
10616.00†	7680.00	-4352.38	-2258.94	5115.00	5188.00	-5651.51	-1017.90	-26.37	3072.13	181.99	16.93	PASS
10716.00†	7680.00	-4452.38	-2258.50	5115.00	5188.00	-5651.51	-1017.90	-26.37	3031.02	180.14	16.87	PASS
10816.00†	7680.00	-4552.37	-2258.06	5115.00	5188.00	-5651.51	-1017.90	-26.37	2992.68	178.24	16.84	PASS
10916.00†	7680.00	-4652.37	-2257.61	5115.00	5188.00	-5651.51	-1017.90	-26.37	2957.23	176.31	16.82	PASS
10951.83†	7680.00	-4688.21	-2257.46	5115.00	5188.00	-5651.51	-1017.90	-26.37	2945.25	175.61	16.82	PASS
11016.00†	7680.00	-4752.37	-2257.17	5115.00	5188.00	-5651.51	-1017.90	-26.37	2924.78	174.35	16.82	PASS
11116.00†	7680.00	-4852.37	-2256.73	5115.00	5188.00	-5651.51	-1017.90	-26.37	2895.41	172.39	16.85	PASS
11216.00†	7680.00	-4952.37	-2256.29	5115.00	5188.00	-5651.51	-1017.90	-26.37	2869.23	170.46	16.88	PASS
11316.00†	7680.00	-5052.37	-2255.85	5115.00	5188.00	-5651.51	-1017.90	-26.37	2846.32	168.58	16.94	PASS
11416.00†	7680.00	-5152.37	-2255.41	5115.00	5188.00	-5651.51	-1017.90	-26.37	2826.77	166.78	17.00	PASS
11516.00†	7680.00	-5252.37	-2254.97	5115.00	5188.00	-5651.51	-1017.90	-26.37	2810.64	165.08	17.08	PASS
11616.00†	7680.00	-5352.37	-2254.53	5115.00	5188.00	-5651.51	-1017.90	-26.37	2798.00	163.52	17.16	PASS
11716.00†	7680.00	-5452.37	-2254.09	5115.00	5188.00	-5651.51	-1017.90	-26.37	2788.89	162.13	17.26	PASS
11816.00†	7680.00	-5552.36	-2253.65	5115.00	5188.00	-5651.51	-1017.90	-26.37	2783.34	160.91	17.35	PASS
11916.00†	7680.00	-5652.36	-2253.21	5115.00	5188.00	-5651.51	-1017.90	-26.37	2781.37	159.89	17.45	PASS
11921.00†	7680.00	-5657.36	-2253.18	5115.00	5188.00	-5651.51	-1017.90	-26.37	2781.37	159.84	17.46	PASS

CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #4 AWB    Offset Wellpath: RIVERDALE FARMS #4 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#02 EX RIVERDALE FARMS #4 (1680'FSL & 1980'FWL, SEC.10, PA)				Well: RIVERDALE FARMS #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
12016.00†	7680.00	-5752.36	-2252.77	5115.00	5188.00	-5651.51	-1017.90	-26.37	2783.01	159.07	17.55	PASS
12116.00†	7680.00	-5852.36	-2252.32	5115.00	5188.00	-5651.51	-1017.90	-26.37	2788.23	158.47	17.65	PASS
12216.00†	7680.00	-5952.36	-2251.88	5115.00	5188.00	-5651.51	-1017.90	-26.37	2797.01	158.06	17.75	PASS
12316.00†	7680.00	-6052.36	-2251.44	5115.00	5188.00	-5651.51	-1017.90	-26.37	2809.34	157.84	17.86	PASS
12416.00†	7680.00	-6152.36	-2251.00	5115.00	5188.00	-5651.51	-1017.90	-26.37	2825.15	157.80	17.96	PASS
12516.00†	7680.00	-6252.36	-2250.56	5115.00	5188.00	-5651.51	-1017.90	-26.37	2844.39	157.92	18.07	PASS
12616.00†	7680.00	-6352.36	-2250.12	5115.00	5188.00	-5651.51	-1017.90	-26.37	2866.99	158.17	18.19	PASS
12716.00†	7680.00	-6452.36	-2249.68	5115.00	5188.00	-5651.51	-1017.90	-26.37	2892.87	158.53	18.31	PASS
12816.00†	7680.00	-6552.36	-2249.24	5115.00	5188.00	-5651.51	-1017.90	-26.37	2921.95	158.98	18.44	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: RIVERDALE FARMS #4 AWB Offset Wellpath: RIVERDALE FARMS #4 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#02 EX RIVERDALE FARMS #4 (1680'FSL & 1980'FWL, SEC.10, PA) Well: RIVERDALE FARMS #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
12916.00†	7680.00	-6652.35	-2248.80	5115.00	5188.00	-5651.51	-1017.90	-26.37	2954.12	159.51	18.58	PASS
13016.00†	7680.00	-6752.35	-2248.36	5115.00	5188.00	-5651.51	-1017.90	-26.37	2989.30	160.09	18.73	PASS
13116.00†	7680.00	-6852.35	-2247.92	5115.00	5188.00	-5651.51	-1017.90	-26.37	3027.38	160.71	18.90	PASS
13144.91	7680.00	-6881.26	-2247.79	5115.00	5188.00	-5651.51	-1017.90	-26.37	3038.91	160.90	18.95	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: RIVERDALE FARMS #4 AWB Offset Wellpath: RIVERDALE FARMS #4 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: RIVERDALE FARMS #4 AWB Offset Wellpath: RIVERDALE FARMS #4 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]
13.25in Open Hole	0.00	209.00	209.00	57.00	266.00	-3445.15	-620.58	-3445.15	-620.58
8.625in Casing Surface	0.00	209.00	209.00	57.00	266.00	-3445.15	-620.58	-3445.15	-620.58
7.875in Open Hole	209.00	5130.00	4921.00	266.00	N/A	-3445.15	-620.58	N/A	N/A
4.5in Casing Production	0.00	5130.00	5130.00	57.00	N/A	-3445.15	-620.58	N/A	N/A

## WELLPATH COMPOSITION - Offset Wellbore: RIVERDALE FARMS #4 AWB Offset Wellpath: RIVERDALE FARMS #4 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5115.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5115>	RIVERDALE FARMS #4 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: RIVERDALE FARMS #4 AWB Offset Wellpath: RIVERDALE FARMS #4 AWP

MD Reference: Rig on SLOT#02 EX RIVERDALE FARMS #4 (1680'FSL & 1980'FWL, SEC.10, 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

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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: HI-LAND #10-B AWB Offset Wellpath: HI-LAND #10-B AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#07 EX HI-LAND #10-B (1165'FNL & 660'FEL, SEC.10, PR) Well: HI-LAND #10-B Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	-16.00	32.00	-3209.31	1622.54	153.18	3596.19	25.57	146.14	PASS
116.00†	116.00	0.00	0.00	68.00	116.00	-3209.31	1622.54	153.18	3596.15	61.69	59.17	PASS
216.00†	216.00	0.00	0.00	168.00	216.00	-3209.31	1622.54	153.18	3596.15	63.74	57.23	PASS
316.00†	316.00	0.00	0.00	268.00	316.00	-3209.31	1622.54	153.18	3596.15	65.62	55.42	PASS
416.00†	416.00	0.00	0.00	368.00	416.00	-3209.31	1622.54	153.18	3596.15	67.69	53.71	PASS
516.00†	516.00	0.00	0.00	468.00	516.00	-3209.31	1622.54	153.18	3596.15	69.75	52.11	PASS
616.00†	616.00	0.00	0.00	568.00	616.00	-3209.31	1622.54	153.18	3596.15	71.82	50.59	PASS
716.00†	716.00	0.00	0.00	668.00	716.00	-3209.31	1622.54	153.18	3596.15	73.89	49.16	PASS
816.00†	816.00	0.00	0.00	768.00	816.00	-3209.31	1622.54	153.18	3596.15	75.76	47.80	PASS
916.00†	916.00	0.00	0.00	868.00	916.00	-3209.31	1622.54	153.18	3596.15	77.84	46.52	PASS
1016.00†	1016.00	0.00	0.00	968.00	1016.00	-3209.31	1622.54	153.18	3596.15	79.93	45.29	PASS
1116.00†	1116.00	0.00	0.00	1068.00	1116.00	-3209.31	1622.54	153.18	3596.15	82.01	44.13	PASS
1216.00†	1216.00	0.00	0.00	1168.00	1216.00	-3209.31	1622.54	153.18	3596.15	84.11	43.03	PASS
1316.00†	1316.00	0.00	0.00	1268.00	1316.00	-3209.31	1622.54	153.18	3596.15	86.20	41.97	PASS
1416.00†	1416.00	0.00	0.00	1368.00	1416.00	-3209.31	1622.54	153.18	3596.15	88.30	40.97	PASS
1516.00†	1516.00	0.00	0.00	1468.00	1516.00	-3209.31	1622.54	153.18	3596.15	90.41	40.01	PASS
1600.00	1600.00	0.00	0.00	1552.00	1600.00	-3209.31	1622.54	153.18	3596.15	92.18	39.24	PASS
1616.00†	1616.00	-0.03	-0.03	1568.00	1616.00	-3209.31	1622.54	-73.76	3596.14	92.51	39.09	PASS
1716.00†	1715.97	-1.60	-1.72	1667.97	1715.97	-3209.31	1622.54	-73.81	3595.49	94.63	38.21	PASS
1816.00†	1815.80	-5.56	-5.95	1767.80	1815.80	-3209.31	1622.54	-73.93	3593.88	96.74	37.35	PASS
1916.00†	1915.36	-11.89	-12.72	1867.36	1915.36	-3209.31	1622.54	-74.12	3591.32	98.86	36.52	PASS
2016.00†	2014.54	-20.59	-22.03	1966.54	2014.54	-3209.31	1622.54	-74.38	3587.83	100.98	35.71	PASS
2116.00†	2113.21	-31.64	-33.86	2065.21	2113.21	-3209.31	1622.54	-74.71	3583.47	103.11	34.93	PASS
2216.00†	2211.26	-45.04	-48.20	2163.26	2211.26	-3209.31	1622.54	-75.11	3578.26	105.24	34.17	PASS
2316.00†	2308.57	-60.77	-65.03	2260.57	2308.57	-3209.31	1622.54	-75.57	3572.28	107.39	33.43	PASS
2416.00†	2405.01	-78.81	-84.34	2357.01	2405.01	-3209.31	1622.54	-76.10	3565.59	109.55	32.70	PASS
2516.00†	2500.47	-99.14	-106.09	2452.47	2500.47	-3209.31	1622.54	-76.69	3558.27	111.73	32.00	PASS
2616.00†	2594.84	-121.73	-130.26	2546.84	2594.84	-3209.31	1622.54	-77.33	3550.42	113.95	31.30	PASS
2716.00†	2687.99	-146.55	-156.82	2639.99	2687.99	-3209.31	1622.54	-78.03	3542.12	116.21	30.62	PASS
2816.00†	2779.81	-173.58	-185.74	2731.81	2779.81	-3209.31	1622.54	-78.78	3533.49	118.52	29.95	PASS
2916.00†	2870.20	-202.78	-216.99	2822.20	2870.20	-3209.31	1622.54	-79.57	3524.64	120.88	29.28	PASS
3016.00†	2959.04	-234.11	-250.52	2911.04	2959.04	-3209.31	1622.54	-80.41	3515.70	123.31	28.63	PASS
3116.00†	3046.23	-267.54	-286.29	2998.23	3046.23	-3209.31	1622.54	-81.27	3506.80	125.82	27.99	PASS
3117.60	3047.61	-268.10	-286.88	2999.61	3047.61	-3209.31	1622.54	-81.29	3506.66	125.86	27.98	PASS
3216.00†	3132.52	-302.05	-323.21	3084.52	3132.52	-3209.31	1622.54	-81.99	3498.30	128.39	27.36	PASS
3316.00†	3218.82	-336.55	-360.13	3170.82	3218.82	-3209.31	1622.54	-82.70	3490.52	131.04	26.74	PASS

CLEARANCE DATA - Offset Wellbore: HI-LAND #10-B AWB    Offset Wellpath: HI-LAND #10-B AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#07 EX HI-LAND #10-B (1165'FNL & 660'FEL, SEC.10, PR)			Well: HI-LAND #10-B		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	3257.11	3305.11	-3209.31	1622.54	-83.41	3483.46	133.76	26.14	PASS
3516.00†	3391.40	-405.55	-433.97	3343.40	3391.40	-3209.31	1622.54	-84.12	3477.11	136.53	25.56	PASS
3616.00†	3477.70	-440.05	-470.89	3429.70	3477.70	-3209.31	1622.54	-84.84	3471.49	139.36	25.00	PASS
3716.00†	3563.99	-474.55	-507.81	3515.99	3563.99	-3209.31	1622.54	-85.56	3466.60	142.24	24.46	PASS
3816.00†	3650.28	-509.05	-544.73	3602.28	3650.28	-3209.31	1622.54	-86.28	3462.43	145.16	23.94	PASS
3916.00†	3736.58	-543.56	-581.65	3688.58	3736.58	-3209.31	1622.54	-87.00	3459.00	148.12	23.43	PASS
4016.00†	3822.87	-578.06	-618.57	3774.87	3822.87	-3209.31	1622.54	-87.72	3456.31	151.11	22.95	PASS
4116.00†	3909.17	-612.56	-655.49	3861.17	3909.17	-3209.31	1622.54	-88.45	3454.35	154.14	22.49	PASS
4216.00†	3995.46	-647.06	-692.41	3947.46	3995.46	-3209.31	1622.54	-89.17	3453.13	157.19	22.04	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: HI-LAND #10-B AWB Offset Wellpath: HI-LAND #10-B AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#07 EX HI-LAND #10-B (1165'FNL & 660'FEL, SEC.10, PR) Well: HI-LAND #10-B Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	4033.75	4081.75	-3209.31	1622.54	-89.89	3452.65	160.26	21.61	PASS
4328.50†	4092.54	-685.87	-733.94	4040.90	4088.90	-3209.31	1622.54	-89.95	3452.64	160.57	21.57	PASS
4416.00†	4168.05	-716.06	-766.25	4120.05	4168.05	-3209.31	1622.54	-90.62	3452.91	163.36	21.20	PASS
4516.00†	4254.34	-750.56	-803.16	4206.34	4254.34	-3209.31	1622.54	-91.34	3453.91	166.47	20.81	PASS
4616.00†	4340.63	-785.07	-840.08	4292.63	4340.63	-3209.31	1622.54	-92.06	3455.64	169.59	20.44	PASS
4716.00†	4426.93	-819.57	-877.00	4378.93	4426.93	-3209.31	1622.54	-92.78	3458.12	172.72	20.08	PASS
4816.00†	4513.22	-854.07	-913.92	4465.22	4513.22	-3209.31	1622.54	-93.51	3461.33	175.87	19.74	PASS
4916.00†	4599.52	-888.57	-950.84	4551.52	4599.52	-3209.31	1622.54	-94.23	3465.27	179.01	19.41	PASS
5016.00†	4685.81	-923.07	-987.76	4637.81	4685.81	-3209.31	1622.54	-94.95	3469.95	182.17	19.10	PASS
5116.00†	4772.10	-957.57	-1024.68	4724.10	4772.10	-3209.31	1622.54	-95.66	3475.36	185.32	18.81	PASS
5216.00†	4858.40	-992.07	-1061.60	4810.40	4858.40	-3209.31	1622.54	-96.38	3481.49	188.48	18.52	PASS
5316.00†	4944.69	-1026.58	-1098.52	4896.69	4944.69	-3209.31	1622.54	-97.09	3488.34	191.63	18.25	PASS
5416.00†	5030.98	-1061.08	-1135.44	4982.98	5030.98	-3209.31	1622.54	-97.80	3495.90	194.78	18.00	PASS
5516.00†	5117.28	-1095.58	-1172.36	5069.28	5117.28	-3209.31	1622.54	-98.51	3504.19	197.92	17.75	PASS
5616.00†	5203.57	-1130.08	-1209.28	5155.57	5203.57	-3209.31	1622.54	-99.22	3513.17	201.06	17.52	PASS
5716.00†	5289.87	-1164.58	-1246.20	5241.87	5289.87	-3209.31	1622.54	-99.92	3522.86	204.19	17.30	PASS
5816.00†	5376.16	-1199.08	-1283.12	5328.16	5376.16	-3209.31	1622.54	-100.62	3533.25	207.36	17.08	PASS
5916.00†	5462.45	-1233.59	-1320.04	5332.00	5380.00	-3209.31	1622.54	-100.65	3545.28	208.71	17.03	PASS
6016.00†	5548.75	-1268.09	-1356.96	5332.00	5380.00	-3209.31	1622.54	-100.65	3560.09	209.85	17.01	PASS
6059.24†	5586.06	-1283.00	-1372.92	5332.00	5380.00	-3209.31	1622.54	-100.65	3567.34	210.31	17.01	PASS
6116.00†	5635.04	-1302.59	-1393.87	5332.00	5380.00	-3209.31	1622.54	-100.65	3577.62	210.86	17.01	PASS
6216.00†	5721.33	-1337.09	-1430.79	5332.00	5380.00	-3209.31	1622.54	-100.65	3597.86	211.75	17.04	PASS
6316.00†	5807.63	-1371.59	-1467.71	5332.00	5380.00	-3209.31	1622.54	-100.65	3620.74	212.50	17.08	PASS
6416.00†	5893.92	-1406.09	-1504.63	5332.00	5380.00	-3209.31	1622.54	-100.65	3646.22	213.13	17.15	PASS
6516.00†	5980.22	-1440.59	-1541.55	5332.00	5380.00	-3209.31	1622.54	-100.65	3674.25	213.64	17.24	PASS
6616.00†	6066.51	-1475.10	-1578.47	5332.00	5380.00	-3209.31	1622.54	-100.65	3704.76	214.04	17.35	PASS
6716.00†	6152.80	-1509.60	-1615.39	5332.00	5380.00	-3209.31	1622.54	-100.65	3737.71	214.33	17.48	PASS
6816.00†	6239.10	-1544.10	-1652.31	5332.00	5380.00	-3209.31	1622.54	-100.65	3773.01	214.51	17.63	PASS
6916.00†	6325.39	-1578.60	-1689.23	5332.00	5380.00	-3209.31	1622.54	-100.65	3810.62	214.59	17.80	PASS
7016.00†	6411.68	-1613.10	-1726.15	5332.00	5380.00	-3209.31	1622.54	-100.65	3850.45	214.58	17.99	PASS
7116.00†	6497.98	-1647.60	-1763.07	5332.00	5380.00	-3209.31	1622.54	-100.65	3892.45	214.48	18.20	PASS
7216.00†	6584.27	-1682.10	-1799.99	5332.00	5380.00	-3209.31	1622.54	-100.65	3936.54	214.30	18.42	PASS
7316.00†	6670.57	-1716.61	-1836.91	5332.00	5380.00	-3209.31	1622.54	-100.65	3982.65	214.05	18.65	PASS
7416.00†	6756.86	-1751.11	-1873.83	5332.00	5380.00	-3209.31	1622.54	-100.65	4030.72	213.73	18.91	PASS
7516.00†	6843.15	-1785.61	-1910.75	5332.00	5380.00	-3209.31	1622.54	-100.65	4080.67	213.34	19.18	PASS
7616.00†	6929.45	-1820.11	-1947.66	5332.00	5380.00	-3209.31	1622.54	-100.65	4132.44	212.90	19.46	PASS

CLEARANCE DATA - Offset Wellbore: HI-LAND #10-B AWB    Offset Wellpath: HI-LAND #10-B AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#07 EX HI-LAND #10-B (1165'FNL & 660'FEL, SEC.10, PR)				Well: HI-LAND #10-B		Threshold Value=1.00    † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7716.00†	7015.74	-1854.61	-1984.58	5332.00	5380.00	-3209.31	1622.54	-100.65	4185.95	212.41	19.76	PASS
7816.00†	7102.03	-1889.11	-2021.50	5332.00	5380.00	-3209.31	1622.54	-100.65	4241.15	211.88	20.07	PASS
7916.00†	7188.33	-1923.61	-2058.42	5332.00	5380.00	-3209.31	1622.54	-100.65	4297.97	211.30	20.39	PASS
8016.00†	7274.62	-1958.12	-2095.34	5332.00	5380.00	-3209.31	1622.54	-100.65	4356.34	210.69	20.73	PASS
8085.19	7334.33	-1981.99	-2120.89	5332.00	5380.00	-3209.31	1622.54	-100.65	4397.61	210.25	20.97	PASS
8116.00†	7360.64	-1993.39	-2132.14	5332.00	5380.00	-3209.31	1622.54	-95.13	4415.77	210.07	21.08	PASS
8216.00†	7441.54	-2040.68	-2166.69	5332.00	5380.00	-3209.31	1622.54	-81.25	4469.21	209.67	21.37	PASS
8316.00†	7513.69	-2102.53	-2197.41	5332.00	5380.00	-3209.31	1622.54	-71.98	4513.27	209.70	21.58	PASS
8416.00†	7574.90	-2177.06	-2223.37	5332.00	5380.00	-3209.31	1622.54	-65.84	4546.89	209.96	21.71	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: HI-LAND #10-B AWB Offset Wellpath: HI-LAND #10-B AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#07 EX HI-LAND #10-B (1165'FNL & 660'FEL, SEC.10, PR) Well: HI-LAND #10-B Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8516.00†	7623.30	-2261.99	-2243.79	5332.00	5380.00	-3209.31	1622.54	-61.94	4569.28	210.47	21.77	PASS
8616.00†	7657.43	-2354.77	-2258.05	5332.00	5380.00	-3209.31	1622.54	-59.77	4579.95	211.20	21.74	PASS
8716.00†	7676.26	-2452.55	-2265.70	5332.00	5380.00	-3209.31	1622.54	-59.07	4578.64	212.15	21.64	PASS
8784.36	7680.00	-2520.76	-2267.01	5332.00	5380.00	-3209.31	1622.54	-59.38	4570.85	212.88	21.53	PASS
8816.00†	7680.00	-2552.39	-2266.87	5332.00	5380.00	-3209.31	1622.54	-59.38	4566.08	213.18	21.47	PASS
8916.00†	7680.00	-2652.39	-2266.43	5332.00	5380.00	-3209.31	1622.54	-59.38	4552.39	214.10	21.32	PASS
9016.00†	7680.00	-2752.39	-2265.99	5332.00	5380.00	-3209.31	1622.54	-59.38	4540.86	215.02	21.17	PASS
9116.00†	7680.00	-2852.39	-2265.55	5332.00	5380.00	-3209.31	1622.54	-59.38	4531.52	215.94	21.04	PASS
9216.00†	7680.00	-2952.39	-2265.11	5332.00	5380.00	-3209.31	1622.54	-59.38	4524.36	216.86	20.92	PASS
9316.00†	7680.00	-3052.39	-2264.67	5332.00	5380.00	-3209.31	1622.54	-59.38	4519.40	217.78	20.81	PASS
9416.00†	7680.00	-3152.39	-2264.23	5332.00	5380.00	-3209.31	1622.54	-59.38	4516.66	218.69	20.71	PASS
9516.00†	7680.00	-3252.39	-2263.79	5332.00	5380.00	-3209.31	1622.54	-59.38	4516.13	219.60	20.62	PASS
9616.00†	7680.00	-3352.39	-2263.34	5332.00	5380.00	-3209.31	1622.54	-59.38	4517.81	220.50	20.54	PASS
9716.00†	7680.00	-3452.39	-2262.90	5332.00	5380.00	-3209.31	1622.54	-59.38	4521.70	221.39	20.48	PASS
9816.00†	7680.00	-3552.38	-2262.46	5332.00	5380.00	-3209.31	1622.54	-59.38	4527.80	222.26	20.42	PASS
9916.00†	7680.00	-3652.38	-2262.02	5332.00	5380.00	-3209.31	1622.54	-59.38	4536.09	223.13	20.38	PASS
10016.00†	7680.00	-3752.38	-2261.58	5332.00	5380.00	-3209.31	1622.54	-59.38	4546.57	223.98	20.35	PASS
10116.00†	7680.00	-3852.38	-2261.14	5332.00	5380.00	-3209.31	1622.54	-59.38	4559.22	224.81	20.33	PASS
10216.00†	7680.00	-3952.38	-2260.70	5332.00	5380.00	-3209.31	1622.54	-59.38	4574.03	225.63	20.32	PASS
10316.00†	7680.00	-4052.38	-2260.26	5332.00	5380.00	-3209.31	1622.54	-59.38	4590.96	226.43	20.33	PASS
10416.00†	7680.00	-4152.38	-2259.82	5332.00	5380.00	-3209.31	1622.54	-59.38	4610.00	227.21	20.34	PASS
10516.00†	7680.00	-4252.38	-2259.38	5332.00	5380.00	-3209.31	1622.54	-59.38	4631.12	227.96	20.36	PASS
10616.00†	7680.00	-4352.38	-2258.94	5332.00	5380.00	-3209.31	1622.54	-59.38	4654.30	228.70	20.40	PASS
10716.00†	7680.00	-4452.38	-2258.50	5332.00	5380.00	-3209.31	1622.54	-59.38	4679.49	229.41	20.45	PASS
10816.00†	7680.00	-4552.37	-2258.06	5332.00	5380.00	-3209.31	1622.54	-59.38	4706.68	230.09	20.50	PASS
10916.00†	7680.00	-4652.37	-2257.61	5332.00	5380.00	-3209.31	1622.54	-59.38	4735.83	230.76	20.57	PASS
11016.00†	7680.00	-4752.37	-2257.17	5332.00	5380.00	-3209.31	1622.54	-59.38	4766.89	231.39	20.65	PASS
11116.00†	7680.00	-4852.37	-2256.73	5332.00	5380.00	-3209.31	1622.54	-59.38	4799.84	232.01	20.74	PASS
11216.00†	7680.00	-4952.37	-2256.29	5332.00	5380.00	-3209.31	1622.54	-59.38	4834.63	232.59	20.84	PASS
11316.00†	7680.00	-5052.37	-2255.85	5332.00	5380.00	-3209.31	1622.54	-59.38	4871.22	233.15	20.94	PASS
11416.00†	7680.00	-5152.37	-2255.41	5332.00	5380.00	-3209.31	1622.54	-59.38	4909.58	233.69	21.06	PASS
11516.00†	7680.00	-5252.37	-2254.97	5332.00	5380.00	-3209.31	1622.54	-59.38	4949.66	234.20	21.18	PASS
11616.00†	7680.00	-5352.37	-2254.53	5332.00	5380.00	-3209.31	1622.54	-59.38	4991.43	234.69	21.32	PASS
11716.00†	7680.00	-5452.37	-2254.09	5332.00	5380.00	-3209.31	1622.54	-59.38	5034.83	235.15	21.46	PASS
11816.00†	7680.00	-5552.36	-2253.65	5332.00	5380.00	-3209.31	1622.54	-59.38	5079.84	235.58	21.61	PASS
11916.00†	7680.00	-5652.36	-2253.21	5332.00	5380.00	-3209.31	1622.54	-59.38	5126.40	235.99	21.77	PASS

CLEARANCE DATA - Offset Wellbore: HI-LAND #10-B AWB    Offset Wellpath: HI-LAND #10-B AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#07 EX HI-LAND #10-B (1165'FNL & 660'FEL, SEC.10, PR)			Well: HI-LAND #10-B		Threshold Value=1.00    † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12016.00†	7680.00	-5752.36	-2252.77	5332.00	5380.00	-3209.31	1622.54	-59.38	5174.47	236.38	21.94	PASS
12116.00†	7680.00	-5852.36	-2252.32	5332.00	5380.00	-3209.31	1622.54	-59.38	5224.01	236.75	22.12	PASS
12216.00†	7680.00	-5952.36	-2251.88	5332.00	5380.00	-3209.31	1622.54	-59.38	5274.99	237.09	22.30	PASS
12316.00†	7680.00	-6052.36	-2251.44	5332.00	5380.00	-3209.31	1622.54	-59.38	5327.35	237.41	22.49	PASS
12416.00†	7680.00	-6152.36	-2251.00	5332.00	5380.00	-3209.31	1622.54	-59.38	5381.07	237.71	22.69	PASS
12516.00†	7680.00	-6252.36	-2250.56	5332.00	5380.00	-3209.31	1622.54	-59.38	5436.09	237.99	22.90	PASS
12616.00†	7680.00	-6352.36	-2250.12	5332.00	5380.00	-3209.31	1622.54	-59.38	5492.38	238.25	23.11	PASS
12716.00†	7680.00	-6452.36	-2249.68	5332.00	5380.00	-3209.31	1622.54	-59.38	5549.91	238.49	23.33	PASS
12816.00†	7680.00	-6552.36	-2249.24	5332.00	5380.00	-3209.31	1622.54	-59.38	5608.62	238.71	23.55	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: HI-LAND #10-B AWB Offset Wellpath: HI-LAND #10-B AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#07 EX HI-LAND #10-B (1165'FNL & 660'FEL, SEC.10, PR) Well: HI-LAND #10-B Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12916.00†	7680.00	-6652.35	-2248.80	5332.00	5380.00	-3209.31	1622.54	-59.38	5668.49	238.91	23.78	PASS
13016.00†	7680.00	-6752.35	-2248.36	5332.00	5380.00	-3209.31	1622.54	-59.38	5729.49	239.10	24.02	PASS
13116.00†	7680.00	-6852.35	-2247.92	5332.00	5380.00	-3209.31	1622.54	-59.38	5791.56	239.27	24.26	PASS
13144.91	7680.00	-6881.26	-2247.79	5332.00	5380.00	-3209.31	1622.54	-59.38	5809.71	239.32	24.33	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: HI-LAND #10-B AWB Offset Wellpath: HI-LAND #10-B AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: HI-LAND #10-B AWB Offset Wellpath: HI-LAND #10-B 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	229.00	229.00	32.00	261.00	-1956.36	989.17	-1956.36	989.17
8.625in Casing Surface	0.00	229.00	229.00	32.00	261.00	-1956.36	989.17	-1956.36	989.17
7.875in Open Hole	229.00	5312.00	5083.00	261.00	5344.00	-1956.36	989.17	-1956.36	989.17
4.5in Casing Production	0.00	5312.00	5312.00	32.00	5344.00	-1956.36	989.17	-1956.36	989.17

## WELLPATH COMPOSITION - Offset Wellbore: HI-LAND #10-B AWB Offset Wellpath: HI-LAND #10-B AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5332.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5332>	HI-LAND #10-B AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: HI-LAND #10-B AWB Offset Wellpath: HI-LAND #10-B AWP

MD Reference: Rig on SLOT#07 EX HI-LAND #10-B (1165'FNL & 660'FEL, SEC.10, 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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: JOHN WEIGANDT GAS UNIT #1 AWB Offset Wellpath: JOHN WEIGANDT GAS UNIT #1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX JOHN WEIGANDT GAS UNIT #1 (1150'FNL & 990'FEL, SEC.03,PR) Well: JOHN WEIGANDT GAS UNIT #1 Threshold Value=1.00 † = interpolated/extrapolated st.

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	AC Stat
16.00	16.00	0.00	0.00	-16.00	41.00	1853.16	1273.39	34.49	2248.63	25.56	91.37	PA:
116.00†	116.00	0.00	0.00	59.00	116.00	1853.16	1273.39	34.49	2248.49	61.61	37.03	PA:
216.00†	216.00	0.00	0.00	159.00	216.00	1853.16	1273.39	34.49	2248.49	63.86	35.71	PA:
316.00†	316.00	0.00	0.00	259.00	316.00	1853.16	1273.39	34.49	2248.49	65.93	34.48	PA:
416.00†	416.00	0.00	0.00	359.00	416.00	1853.16	1273.39	34.49	2248.49	68.18	33.33	PA:
516.00†	516.00	0.00	0.00	459.00	516.00	1853.16	1273.39	34.49	2248.49	70.44	32.25	PA:
616.00†	616.00	0.00	0.00	559.00	616.00	1853.16	1273.39	34.49	2248.49	72.70	31.24	PA:
716.00†	716.00	0.00	0.00	659.00	716.00	1853.16	1273.39	34.49	2248.49	74.96	30.29	PA:
816.00†	816.00	0.00	0.00	759.00	816.00	1853.16	1273.39	34.49	2248.49	77.02	29.39	PA:
916.00†	916.00	0.00	0.00	859.00	916.00	1853.16	1273.39	34.49	2248.49	79.29	28.55	PA:
1016.00†	1016.00	0.00	0.00	959.00	1016.00	1853.16	1273.39	34.49	2248.49	81.56	27.74	PA:
1116.00†	1116.00	0.00	0.00	1059.00	1116.00	1853.16	1273.39	34.49	2248.49	83.84	26.99	PA:
1216.00†	1216.00	0.00	0.00	1159.00	1216.00	1853.16	1273.39	34.49	2248.49	86.13	26.27	PA:
1316.00†	1316.00	0.00	0.00	1259.00	1316.00	1853.16	1273.39	34.49	2248.49	88.41	25.58	PA:
1416.00†	1416.00	0.00	0.00	1359.00	1416.00	1853.16	1273.39	34.49	2248.49	90.70	24.93	PA:
1516.00†	1516.00	0.00	0.00	1459.00	1516.00	1853.16	1273.39	34.49	2248.49	93.00	24.31	PA:
1600.00	1600.00	0.00	0.00	1543.00	1600.00	1853.16	1273.39	34.49	2248.49	94.93	23.82	PA:
1616.00†	1616.00	-0.03	-0.03	1559.00	1616.00	1853.16	1273.39	167.56	2248.54	95.30	23.72	PA:
1716.00†	1715.97	-1.60	-1.72	1658.97	1715.97	1853.16	1273.39	167.56	2250.79	97.61	23.18	PA:
1816.00†	1815.80	-5.56	-5.95	1758.80	1815.80	1853.16	1273.39	167.57	2256.44	99.97	22.69	PA:
1916.00†	1915.36	-11.89	-12.72	1858.36	1915.36	1853.16	1273.39	167.58	2265.50	102.33	22.25	PA:
2016.00†	2014.54	-20.59	-22.03	1957.54	2014.54	1853.16	1273.39	167.59	2277.95	104.68	21.87	PA:
2116.00†	2113.21	-31.64	-33.86	2056.21	2113.21	1853.16	1273.39	167.61	2293.77	107.03	21.54	PA:
2216.00†	2211.26	-45.04	-48.20	2154.26	2211.26	1853.16	1273.39	167.63	2312.96	109.37	21.25	PA:
2316.00†	2308.57	-60.77	-65.03	2251.57	2308.57	1853.16	1273.39	167.65	2335.49	111.69	21.01	PA:
2416.00†	2405.01	-78.81	-84.34	2348.01	2405.01	1853.16	1273.39	167.68	2361.34	114.01	20.81	PA:
2516.00†	2500.47	-99.14	-106.09	2443.47	2500.47	1853.16	1273.39	167.70	2390.49	116.30	20.65	PA:
2616.00†	2594.84	-121.73	-130.26	2537.84	2594.84	1853.16	1273.39	167.72	2422.89	118.59	20.52	PA:
2716.00†	2687.99	-146.55	-156.82	2630.99	2687.99	1853.16	1273.39	167.74	2458.52	120.85	20.43	PA:
2816.00†	2779.81	-173.58	-185.74	2722.81	2779.81	1853.16	1273.39	167.76	2497.34	123.09	20.37	PA:
2916.00†	2870.20	-202.78	-216.99	2813.20	2870.20	1853.16	1273.39	167.76	2539.31	125.31	20.35	PA:
3016.00†	2959.04	-234.11	-250.52	2902.04	2959.04	1853.16	1273.39	167.77	2584.38	127.51	20.35	PA:
3116.00†	3046.23	-267.54	-286.29	2989.23	3046.23	1853.16	1273.39	167.76	2632.49	129.67	20.38	PA:
3117.60	3047.61	-268.10	-286.88	2990.61	3047.61	1853.16	1273.39	167.76	2633.28	129.71	20.38	PA:
3216.00†	3132.52	-302.05	-323.21	3075.52	3132.52	1853.16	1273.39	167.98	2682.17	131.79	20.43	PA:
3316.00†	3218.82	-336.55	-360.13	3161.82	3218.82	1853.16	1273.39	168.20	2731.89	133.92	20.48	PA:



CLEARANCE DATA - Offset Wellbore: JOHN WEIGANDT GAS UNIT #1 AWB    Offset Wellpath: JOHN WEIGANDT GAS UNIT #1 AWP												
Facility: SEC.03-T01S-R67W    Slot: SLOT#01 EX JOHN WEIGANDT GAS UNIT #1 (1150'FNL & 990'FEL, SEC.03,PR)    Well: JOHN WEIGANDT GAS UNIT #1    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	AC Sta
3416.00†	3305.11	-371.05	-397.05	3248.11	3305.11	1853.16	1273.39	168.42	2781.63	136.05	20.52	PA:
3516.00†	3391.40	-405.55	-433.97	3334.40	3391.40	1853.16	1273.39	168.62	2831.41	138.20	20.57	PA:
3616.00†	3477.70	-440.05	-470.89	3420.70	3477.70	1853.16	1273.39	168.82	2881.20	140.35	20.60	PA:
3716.00†	3563.99	-474.55	-507.81	3506.99	3563.99	1853.16	1273.39	169.01	2931.03	142.52	20.64	PA:
3816.00†	3650.28	-509.05	-544.73	3593.28	3650.28	1853.16	1273.39	169.19	2980.88	144.69	20.68	PA:
3916.00†	3736.58	-543.56	-581.65	3679.58	3736.58	1853.16	1273.39	169.37	3030.75	146.87	20.71	PA:
4016.00†	3822.87	-578.06	-618.57	3765.87	3822.87	1853.16	1273.39	169.54	3080.64	149.07	20.74	PA:
4116.00†	3909.17	-612.56	-655.49	3852.17	3909.17	1853.16	1273.39	169.71	3130.55	151.27	20.77	PA:
4216.00†	3995.46	-647.06	-692.41	3938.46	3995.46	1853.16	1273.39	169.87	3180.48	153.48	20.79	PA:



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: JOHN WEIGANDT GAS UNIT #1 AWB Offset Wellpath: JOHN WEIGANDT GAS UNIT #1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX JOHN WEIGANDT GAS UNIT #1 (1150'FNL & 990'FEL, SEC.03,PR) Well: JOHN WEIGANDT GAS UNIT #1 Threshold Value=1.00 † = interpolated/extrapolated st

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	AC Sta
4316.00†	4081.75	-681.56	-729.33	4024.75	4081.75	1853.16	1273.39	170.03	3230.43	155.70	20.82	PA
4416.00†	4168.05	-716.06	-766.25	4111.05	4168.05	1853.16	1273.39	170.18	3280.40	157.92	20.84	PA
4516.00†	4254.34	-750.56	-803.16	4197.34	4254.34	1853.16	1273.39	170.33	3330.38	160.15	20.86	PA
4616.00†	4340.63	-785.07	-840.08	4283.63	4340.63	1853.16	1273.39	170.47	3380.39	162.39	20.88	PA
4716.00†	4426.93	-819.57	-877.00	4369.93	4426.93	1853.16	1273.39	170.61	3430.40	164.64	20.90	PA
4816.00†	4513.22	-854.07	-913.92	4456.22	4513.22	1853.16	1273.39	170.75	3480.44	166.89	20.92	PA
4916.00†	4599.52	-888.57	-950.84	4542.52	4599.52	1853.16	1273.39	170.88	3530.48	169.16	20.94	PA
5016.00†	4685.81	-923.07	-987.76	4628.81	4685.81	1853.16	1273.39	171.01	3580.54	171.42	20.95	PA
5116.00†	4772.10	-957.57	-1024.68	4715.10	4772.10	1853.16	1273.39	171.13	3630.61	173.70	20.96	PA
5216.00†	4858.40	-992.07	-1061.60	4801.40	4858.40	1853.16	1273.39	171.25	3680.70	175.97	20.98	PA
5316.00†	4944.69	-1026.58	-1098.52	4887.69	4944.69	1853.16	1273.39	171.37	3730.80	178.26	20.99	PA
5416.00†	5030.98	-1061.08	-1135.44	4973.98	5030.98	1853.16	1273.39	171.48	3780.90	180.55	21.00	PA
5516.00†	5117.28	-1095.58	-1172.36	5060.28	5117.28	1853.16	1273.39	171.60	3831.02	182.85	21.01	PA
5616.00†	5203.57	-1130.08	-1209.28	5146.57	5203.57	1853.16	1273.39	171.70	3881.16	185.15	21.02	PA
5716.00†	5289.87	-1164.58	-1246.20	5232.87	5289.87	1853.16	1273.39	171.81	3931.30	187.46	21.03	PA
5816.00†	5376.16	-1199.08	-1283.12	5319.16	5376.16	1853.16	1273.39	171.91	3981.45	189.77	21.04	PA
5916.00†	5462.45	-1233.59	-1320.04	5405.45	5462.45	1853.16	1273.39	172.01	4031.61	192.09	21.05	PA
6016.00†	5548.75	-1268.09	-1356.96	5491.75	5548.75	1853.16	1273.39	172.11	4081.78	194.41	21.05	PA
6116.00†	5635.04	-1302.59	-1393.87	5578.04	5635.04	1853.16	1273.39	172.21	4131.95	196.73	21.06	PA
6216.00†	5721.33	-1337.09	-1430.79	5664.33	5721.33	1853.16	1273.39	172.30	4182.14	199.06	21.06	PA
6316.00†	5807.63	-1371.59	-1467.71	5750.63	5807.63	1853.16	1273.39	172.39	4232.34	201.40	21.07	PA
6416.00†	5893.92	-1406.09	-1504.63	5836.92	5893.92	1853.16	1273.39	172.48	4282.54	203.74	21.07	PA
6516.00†	5980.22	-1440.59	-1541.55	5923.22	5980.22	1853.16	1273.39	172.57	4332.75	206.08	21.08	PA
6616.00†	6066.51	-1475.10	-1578.47	6009.51	6066.51	1853.16	1273.39	172.66	4382.97	208.43	21.08	PA
6716.00†	6152.80	-1509.60	-1615.39	6095.80	6152.80	1853.16	1273.39	172.74	4433.19	210.78	21.08	PA
6816.00†	6239.10	-1544.10	-1652.31	6182.10	6239.10	1853.16	1273.39	172.82	4483.42	213.14	21.09	PA
6916.00†	6325.39	-1578.60	-1689.23	6268.39	6325.39	1853.16	1273.39	172.90	4533.66	215.50	21.09	PA
7016.00†	6411.68	-1613.10	-1726.15	6354.68	6411.68	1853.16	1273.39	172.98	4583.91	217.86	21.09	PA
7116.00†	6497.98	-1647.60	-1763.07	6440.98	6497.98	1853.16	1273.39	173.05	4634.16	220.23	21.09	PA
7216.00†	6584.27	-1682.10	-1799.99	6527.27	6584.27	1853.16	1273.39	173.13	4684.41	222.60	21.09	PA
7316.00†	6670.57	-1716.61	-1836.91	6613.57	6670.57	1853.16	1273.39	173.20	4734.68	224.97	21.09	PA
7416.00†	6756.86	-1751.11	-1873.83	6699.86	6756.86	1853.16	1273.39	173.27	4784.95	227.35	21.09	PA
7516.00†	6843.15	-1785.61	-1910.75	6786.15	6843.15	1853.16	1273.39	173.34	4835.22	229.73	21.10	PA
7616.00†	6929.45	-1820.11	-1947.66	6872.45	6929.45	1853.16	1273.39	173.41	4885.50	232.11	21.10	PA
7716.00†	7015.74	-1854.61	-1984.58	6958.74	7015.74	1853.16	1273.39	173.48	4935.78	234.49	21.10	PA
7816.00†	7102.03	-1889.11	-2021.50	7045.03	7102.03	1853.16	1273.39	173.55	4986.07	236.88	21.09	PA

**CLEARANCE DATA - Offset Wellbore: JOHN WEIGANDT GAS UNIT #1 AWB    Offset Wellpath: JOHN WEIGANDT GAS UNIT #1 AWP****Facility: SEC.03-T01S-R67W    Slot: SLOT#01 EX JOHN WEIGANDT GAS UNIT #1 (1150'FNL & 990'FEL, SEC.03,PR)    Well: JOHN WEIGANDT GAS UNIT #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	AC Sta
7916.00†	7188.33	-1923.61	-2058.42	7131.33	7188.33	1853.16	1273.39	173.61	5036.37	239.27	21.09	PA
8016.00†	7274.62	-1958.12	-2095.34	7217.62	7274.62	1853.16	1273.39	173.67	5086.67	241.67	21.09	PA
8085.19	7334.33	-1981.99	-2120.89	7277.33	7334.33	1853.16	1273.39	173.72	5121.47	243.33	21.09	PA
8116.00†	7360.64	-1993.39	-2132.14	7303.64	7360.64	1853.16	1273.39	178.91	5137.47	244.06	21.09	PA
8216.00†	7441.54	-2040.68	-2166.69	7384.54	7441.54	1853.16	1273.39	-166.35	5195.78	246.38	21.13	PA
8316.00†	7513.69	-2102.53	-2197.41	7456.69	7513.69	1853.16	1273.39	-153.21	5262.50	248.56	21.22	PA
8365.98†	7545.77	-2138.32	-2211.03	7488.77	7545.77	1853.16	1273.39	-146.73	5298.41	303.20	17.50	PA
8416.00†	7574.90	-2177.06	-2223.37	7517.90	7574.90	1853.16	1273.39	-140.10	5335.73	250.37	21.36	PA
8516.00†	7623.30	-2261.99	-2243.79	7566.30	7623.30	1853.16	1273.39	-126.27	5413.42	251.77	21.55	PA



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: JOHN WEIGANDT GAS UNIT #1 AWB Offset Wellpath: JOHN WEIGANDT GAS UNIT #1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX JOHN WEIGANDT GAS UNIT #1 (1150'FNL & 990'FEL, SEC.03,PR) Well: JOHN WEIGANDT GAS UNIT #1 Threshold Value=1.00 † = interpolated/extrapolated st.

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	AC Sta
8616.00†	7657.43	-2354.77	-2258.05	7600.43	7657.43	1853.16	1273.39	-111.94	5493.42	252.71	21.78	PA
8716.00†	7676.26	-2452.55	-2265.70	7619.26	7676.26	1853.16	1273.39	-98.27	5573.54	253.21	22.06	PA
8784.36	7680.00	-2520.76	-2267.01	7623.00	7680.00	1853.16	1273.39	-90.00	5627.22	253.29	22.26	PA
8816.00†	7680.00	-2552.39	-2266.87	7623.00	7680.00	1853.16	1273.39	-90.00	5651.76	253.28	22.36	PA
8916.00†	7680.00	-2652.39	-2266.43	7623.00	7680.00	1853.16	1273.39	-90.00	5729.78	253.25	22.67	PA
9016.00†	7680.00	-2752.39	-2265.99	7623.00	7680.00	1853.16	1273.39	-90.00	5808.47	253.24	22.98	PA
9116.00†	7680.00	-2852.39	-2265.55	7623.00	7680.00	1853.16	1273.39	-90.00	5887.81	253.25	23.30	PA
9216.00†	7680.00	-2952.39	-2265.11	7623.00	7680.00	1853.16	1273.39	-90.00	5967.77	253.27	23.61	PA
9316.00†	7680.00	-3052.39	-2264.67	7623.00	7680.00	1853.16	1273.39	-90.00	6048.33	253.30	23.93	PA
9416.00†	7680.00	-3152.39	-2264.23	7623.00	7680.00	1853.16	1273.39	-90.00	6129.46	253.35	24.24	PA
9516.00†	7680.00	-3252.39	-2263.79	7623.00	7680.00	1853.16	1273.39	-90.00	6211.14	253.41	24.56	PA
9616.00†	7680.00	-3352.39	-2263.34	7623.00	7680.00	1853.16	1273.39	-90.00	6293.35	253.48	24.88	PA
9716.00†	7680.00	-3452.39	-2262.90	7623.00	7680.00	1853.16	1273.39	-90.00	6376.06	253.56	25.20	PA
9816.00†	7680.00	-3552.38	-2262.46	7623.00	7680.00	1853.16	1273.39	-90.00	6459.27	253.66	25.52	PA
9916.00†	7680.00	-3652.38	-2262.02	7623.00	7680.00	1853.16	1273.39	-90.00	6542.95	253.76	25.84	PA
10016.00†	7680.00	-3752.38	-2261.58	7623.00	7680.00	1853.16	1273.39	-90.00	6627.08	253.86	26.16	PA
10116.00†	7680.00	-3852.38	-2261.14	7623.00	7680.00	1853.16	1273.39	-90.00	6711.64	253.98	26.48	PA
10216.00†	7680.00	-3952.38	-2260.70	7623.00	7680.00	1853.16	1273.39	-90.00	6796.62	254.10	26.80	PA
10316.00†	7680.00	-4052.38	-2260.26	7623.00	7680.00	1853.16	1273.39	-90.00	6882.01	254.23	27.13	PA
10416.00†	7680.00	-4152.38	-2259.82	7623.00	7680.00	1853.16	1273.39	-90.00	6967.79	254.37	27.45	PA
10516.00†	7680.00	-4252.38	-2259.38	7623.00	7680.00	1853.16	1273.39	-90.00	7053.94	254.51	27.77	PA
10616.00†	7680.00	-4352.38	-2258.94	7623.00	7680.00	1853.16	1273.39	-90.00	7140.45	254.65	28.10	PA
10716.00†	7680.00	-4452.38	-2258.50	7623.00	7680.00	1853.16	1273.39	-90.00	7227.31	254.80	28.42	PA
10816.00†	7680.00	-4552.37	-2258.06	7623.00	7680.00	1853.16	1273.39	-90.00	7314.50	254.95	28.75	PA
10916.00†	7680.00	-4652.37	-2257.61	7623.00	7680.00	1853.16	1273.39	-90.00	7402.02	255.11	29.07	PA
11016.00†	7680.00	-4752.37	-2257.17	7623.00	7680.00	1853.16	1273.39	-90.00	7489.86	255.27	29.40	PA
11116.00†	7680.00	-4852.37	-2256.73	7623.00	7680.00	1853.16	1273.39	-90.00	7577.99	255.43	29.73	PA
11216.00†	7680.00	-4952.37	-2256.29	7623.00	7680.00	1853.16	1273.39	-90.00	7666.41	255.60	30.06	PA
11316.00†	7680.00	-5052.37	-2255.85	7623.00	7680.00	1853.16	1273.39	-90.00	7755.12	255.77	30.38	PA
11416.00†	7680.00	-5152.37	-2255.41	7623.00	7680.00	1853.16	1273.39	-90.00	7844.10	255.94	30.71	PA
11516.00†	7680.00	-5252.37	-2254.97	7623.00	7680.00	1853.16	1273.39	-90.00	7933.34	256.11	31.04	PA
11616.00†	7680.00	-5352.37	-2254.53	7623.00	7680.00	1853.16	1273.39	-90.00	8022.83	256.28	31.37	PA
11716.00†	7680.00	-5452.37	-2254.09	7623.00	7680.00	1853.16	1273.39	-90.00	8112.57	256.46	31.70	PA
11816.00†	7680.00	-5552.36	-2253.65	7623.00	7680.00	1853.16	1273.39	-90.00	8202.55	256.63	32.03	PA
11916.00†	7680.00	-5652.36	-2253.21	7623.00	7680.00	1853.16	1273.39	-90.00	8292.75	256.81	32.36	PA
12016.00†	7680.00	-5752.36	-2252.77	7623.00	7680.00	1853.16	1273.39	-90.00	8383.18	256.99	32.69	PA

**CLEARANCE DATA - Offset Wellbore: JOHN WEIGANDT GAS UNIT #1 AWB    Offset Wellpath: JOHN WEIGANDT GAS UNIT #1 AWP**

Facility: SEC.03-T01S-R67W    Slot: SLOT#01 EX JOHN WEIGANDT GAS UNIT #1 (1150°FNL &amp; 990°FEL, SEC.03,PR)    Well: JOHN WEIGANDT GAS UNIT #1    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	AC Sta
12116.00†	7680.00	-5852.36	-2252.32	7623.00	7680.00	1853.16	1273.39	-90.00	8473.83	257.17	33.02	PA
12216.00†	7680.00	-5952.36	-2251.88	7623.00	7680.00	1853.16	1273.39	-90.00	8564.68	257.35	33.35	PA
12316.00†	7680.00	-6052.36	-2251.44	7623.00	7680.00	1853.16	1273.39	-90.00	8655.73	257.53	33.68	PA
12416.00†	7680.00	-6152.36	-2251.00	7623.00	7680.00	1853.16	1273.39	-90.00	8746.98	257.71	34.01	PA
12516.00†	7680.00	-6252.36	-2250.56	7623.00	7680.00	1853.16	1273.39	-90.00	8838.42	257.90	34.34	PA
12616.00†	7680.00	-6352.36	-2250.12	7623.00	7680.00	1853.16	1273.39	-90.00	8930.04	258.08	34.67	PA
12716.00†	7680.00	-6452.36	-2249.68	7623.00	7680.00	1853.16	1273.39	-90.00	9021.84	258.26	35.00	PA
12816.00†	7680.00	-6552.36	-2249.24	7623.00	7680.00	1853.16	1273.39	-90.00	9113.81	258.45	35.34	PA
12916.00†	7680.00	-6652.35	-2248.80	7623.00	7680.00	1853.16	1273.39	-90.00	9205.95	258.63	35.67	PA



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: JOHN WEIGANDT GAS UNIT #1 AWB Offset Wellpath: JOHN WEIGANDT GAS UNIT #1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX JOHN WEIGANDT GAS UNIT #1 (1150'FNL & 990'FEL, SEC.03,PR) Well: JOHN WEIGANDT GAS UNIT #1 Threshold Value=1.00 † = interpolated/extrapolated st.

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	AC Sta
13016.00†	7680.00	-6752.35	-2248.36	7623.00	7680.00	1853.16	1273.39	-90.00	9298.25	258.81	36.00	PA
13116.00†	7680.00	-6852.35	-2247.92	7623.00	7680.00	1853.16	1273.39	-90.00	9390.71	259.00	36.33	PA
13144.91	7680.00	-6881.26	-2247.79	7623.00	7680.00	1853.16	1273.39	-90.00	9417.47	259.05	36.43	PA

## POSITIONAL UNCERTAINTY - Offset Wellbore: JOHN WEIGANDT GAS UNIT #1 AWB Offset Wellpath: JOHN WEIGANDT GAS UNIT #1 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: JOHN WEIGANDT GAS UNIT #1 AWB Offset Wellpath: JOHN WEIGANDT GAS UNIT #1 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	196.00	196.00	41.00	237.00	1129.70	776.23	1129.70	776.23
8.625in Casing Surface	0.00	196.00	196.00	41.00	237.00	1129.70	776.23	1129.70	776.23
7.875in Open Hole	196.00	8382.00	8186.00	237.00	8423.00	1129.70	776.23	1129.70	776.23
4.5in Casing Production	0.00	8382.00	8382.00	41.00	8423.00	1129.70	776.23	1129.70	776.23

## WELLPATH COMPOSITION - Offset Wellbore: JOHN WEIGANDT GAS UNIT #1 AWB Offset Wellpath: JOHN WEIGANDT GAS UNIT #1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8392.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <8392>	JOHN WEIGANDT GAS UNIT #1 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: JOHN WEIGANDT GAS UNIT #1 AWB Offset Wellpath: JOHN WEIGANDT GAS UNIT #1 AWP

MD Reference: Rig on SLOT#01 EX JOHN WEIGANDT GAS UNIT #1 (1150'FNL & 990'FEL, SEC.03) (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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #12 AWB Offset Wellpath: EHLER JOHN #12 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#03 EX EHLER JOHN #12 (2060'FSL & 660'FWL, SEC.10,PA) Well: EHLER JOHN #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
16.00	16.00	0.00	0.00	-16.00	34.00	-5275.12	-2351.90	-155.97	5775.69	25.57	234.73	PASS
116.00†	116.00	0.00	0.00	66.00	116.00	-5275.12	-2351.90	-155.97	5775.66	61.63	95.12	PASS
216.00†	216.00	0.00	0.00	166.00	216.00	-5275.12	-2351.90	-155.97	5775.66	63.67	92.03	PASS
316.00†	316.00	0.00	0.00	266.00	316.00	-5275.12	-2351.90	-155.97	5775.66	65.54	89.14	PASS
416.00†	416.00	0.00	0.00	366.00	416.00	-5275.12	-2351.90	-155.97	5775.66	67.58	86.41	PASS
516.00†	516.00	0.00	0.00	466.00	516.00	-5275.12	-2351.90	-155.97	5775.66	69.63	83.84	PASS
616.00†	616.00	0.00	0.00	566.00	616.00	-5275.12	-2351.90	-155.97	5775.66	71.68	81.42	PASS
716.00†	716.00	0.00	0.00	666.00	716.00	-5275.12	-2351.90	-155.97	5775.66	73.73	79.13	PASS
816.00†	816.00	0.00	0.00	766.00	816.00	-5275.12	-2351.90	-155.97	5775.66	75.58	76.96	PASS
916.00†	916.00	0.00	0.00	866.00	916.00	-5275.12	-2351.90	-155.97	5775.66	77.65	74.90	PASS
1016.00†	1016.00	0.00	0.00	966.00	1016.00	-5275.12	-2351.90	-155.97	5775.66	79.71	72.94	PASS
1116.00†	1116.00	0.00	0.00	1066.00	1116.00	-5275.12	-2351.90	-155.97	5775.66	81.78	71.09	PASS
1216.00†	1216.00	0.00	0.00	1166.00	1216.00	-5275.12	-2351.90	-155.97	5775.66	83.86	69.32	PASS
1316.00†	1316.00	0.00	0.00	1266.00	1316.00	-5275.12	-2351.90	-155.97	5775.66	85.94	67.63	PASS
1416.00†	1416.00	0.00	0.00	1366.00	1416.00	-5275.12	-2351.90	-155.97	5775.66	88.02	66.02	PASS
1516.00†	1516.00	0.00	0.00	1466.00	1516.00	-5275.12	-2351.90	-155.97	5775.66	90.11	64.48	PASS
1600.00	1600.00	0.00	0.00	1550.00	1600.00	-5275.12	-2351.90	-155.97	5775.66	91.86	63.24	PASS
1616.00†	1616.00	-0.03	-0.03	1566.00	1616.00	-5275.12	-2351.90	-22.91	5775.62	92.20	63.01	PASS
1716.00†	1715.97	-1.60	-1.72	1665.97	1715.97	-5275.12	-2351.90	-22.94	5773.50	94.30	61.57	PASS
1816.00†	1815.80	-5.56	-5.95	1765.80	1815.80	-5275.12	-2351.90	-23.00	5768.17	96.45	60.14	PASS
1916.00†	1915.36	-11.89	-12.72	1865.36	1915.36	-5275.12	-2351.90	-23.10	5759.63	98.59	58.74	PASS
2016.00†	2014.54	-20.59	-22.03	1964.54	2014.54	-5275.12	-2351.90	-23.25	5747.90	100.73	57.36	PASS
2116.00†	2113.21	-31.64	-33.86	2063.21	2113.21	-5275.12	-2351.90	-23.43	5733.00	102.87	56.02	PASS
2216.00†	2211.26	-45.04	-48.20	2161.26	2211.26	-5275.12	-2351.90	-23.65	5714.95	105.00	54.70	PASS
2316.00†	2308.57	-60.77	-65.03	2258.57	2308.57	-5275.12	-2351.90	-23.92	5693.78	107.12	53.42	PASS
2416.00†	2405.01	-78.81	-84.34	2355.01	2405.01	-5275.12	-2351.90	-24.23	5669.52	109.24	52.15	PASS
2516.00†	2500.47	-99.14	-106.09	2450.47	2500.47	-5275.12	-2351.90	-24.59	5642.20	111.35	50.91	PASS
2616.00†	2594.84	-121.73	-130.26	2544.84	2594.84	-5275.12	-2351.90	-25.00	5611.87	113.45	49.70	PASS
2716.00†	2687.99	-146.55	-156.82	2637.99	2687.99	-5275.12	-2351.90	-25.46	5578.58	115.54	48.51	PASS
2816.00†	2779.81	-173.58	-185.74	2729.81	2779.81	-5275.12	-2351.90	-25.97	5542.38	117.62	47.33	PASS
2916.00†	2870.20	-202.78	-216.99	2820.20	2870.20	-5275.12	-2351.90	-26.54	5503.31	119.70	46.18	PASS
3016.00†	2959.04	-234.11	-250.52	2909.04	2959.04	-5275.12	-2351.90	-27.16	5461.46	121.77	45.05	PASS
3116.00†	3046.23	-267.54	-286.29	2996.23	3046.23	-5275.12	-2351.90	-27.86	5416.87	123.84	43.93	PASS
3117.60	3047.61	-268.10	-286.88	2997.61	3047.61	-5275.12	-2351.90	-27.87	5416.14	123.88	43.91	PASS
3216.00†	3132.52	-302.05	-323.21	3082.52	3132.52	-5275.12	-2351.90	-28.11	5370.94	125.88	42.85	PASS
3316.00†	3218.82	-336.55	-360.13	3168.82	3218.82	-5275.12	-2351.90	-28.36	5325.09	127.95	41.79	PASS

CLEARANCE DATA - Offset Wellbore: EHLER JOHN #12 AWB    Offset Wellpath: EHLER JOHN #12 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#03 EX EHLER JOHN #12 (2060'FSL & 660'FWL, SEC.10,PA)				Well: EHLER JOHN #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
3416.00†	3305.11	-371.05	-397.05	3255.11	3305.11	-5275.12	-2351.90	-28.61	5279.33	130.04	40.76	PASS
3516.00†	3391.40	-405.55	-433.97	3341.40	3391.40	-5275.12	-2351.90	-28.87	5233.65	132.16	39.76	PASS
3616.00†	3477.70	-440.05	-470.89	3427.70	3477.70	-5275.12	-2351.90	-29.13	5188.07	134.31	38.78	PASS
3716.00†	3563.99	-474.55	-507.81	3513.99	3563.99	-5275.12	-2351.90	-29.39	5142.57	136.48	37.83	PASS
3816.00†	3650.28	-509.05	-544.73	3600.28	3650.28	-5275.12	-2351.90	-29.66	5097.18	138.68	36.89	PASS
3916.00†	3736.58	-543.56	-581.65	3686.58	3736.58	-5275.12	-2351.90	-29.94	5051.88	140.91	35.99	PASS
4016.00†	3822.87	-578.06	-618.57	3772.87	3822.87	-5275.12	-2351.90	-30.22	5006.67	143.17	35.10	PASS
4116.00†	3909.17	-612.56	-655.49	3859.17	3909.17	-5275.12	-2351.90	-30.50	4961.58	145.45	34.24	PASS
4216.00†	3995.46	-647.06	-692.41	3945.46	3995.46	-5275.12	-2351.90	-30.79	4916.59	147.76	33.39	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #12 AWB Offset Wellpath: EHLER JOHN #12 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#03 EX EHLER JOHN #12 (2060'FSL & 660'FWL, SEC.10,PA) Well: EHLER JOHN #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
4316.00†	4081.75	-681.56	-729.33	4031.75	4081.75	-5275.12	-2351.90	-31.08	4871.70	150.10	32.57	PASS
4416.00†	4168.05	-716.06	-766.25	4118.05	4168.05	-5275.12	-2351.90	-31.38	4826.93	152.46	31.77	PASS
4516.00†	4254.34	-750.56	-803.16	4204.34	4254.34	-5275.12	-2351.90	-31.69	4782.27	154.85	30.99	PASS
4616.00†	4340.63	-785.07	-840.08	4290.63	4340.63	-5275.12	-2351.90	-32.00	4737.73	157.26	30.23	PASS
4716.00†	4426.93	-819.57	-877.00	4376.93	4426.93	-5275.12	-2351.90	-32.31	4693.32	159.70	29.48	PASS
4816.00†	4513.22	-854.07	-913.92	4463.22	4513.22	-5275.12	-2351.90	-32.63	4649.02	162.17	28.76	PASS
4916.00†	4599.52	-888.57	-950.84	4549.52	4599.52	-5275.12	-2351.90	-32.96	4604.86	164.66	28.05	PASS
5016.00†	4685.81	-923.07	-987.76	4635.81	4685.81	-5275.12	-2351.90	-33.29	4560.83	167.18	27.37	PASS
5116.00†	4772.10	-957.57	-1024.68	4722.10	4772.10	-5275.12	-2351.90	-33.63	4516.93	169.73	26.69	PASS
5216.00†	4858.40	-992.07	-1061.60	4808.40	4858.40	-5275.12	-2351.90	-33.97	4473.18	172.30	26.04	PASS
5316.00†	4944.69	-1026.58	-1098.52	4894.69	4944.69	-5275.12	-2351.90	-34.32	4429.57	174.90	25.40	PASS
5416.00†	5030.98	-1061.08	-1135.44	4980.98	5030.98	-5275.12	-2351.90	-34.68	4386.10	177.52	24.78	PASS
5516.00†	5117.28	-1095.58	-1172.36	5067.28	5117.28	-5275.12	-2351.90	-35.04	4342.79	180.17	24.17	PASS
5616.00†	5203.57	-1130.08	-1209.28	5146.00	5196.00	-5275.12	-2351.90	-35.38	4299.65	182.70	23.60	PASS
5716.00†	5289.87	-1164.58	-1246.20	5146.00	5196.00	-5275.12	-2351.90	-35.38	4257.68	183.68	23.25	PASS
5816.00†	5376.16	-1199.08	-1283.12	5146.00	5196.00	-5275.12	-2351.90	-35.38	4217.68	184.62	22.91	PASS
5916.00†	5462.45	-1233.59	-1320.04	5146.00	5196.00	-5275.12	-2351.90	-35.38	4179.68	185.52	22.59	PASS
6016.00†	5548.75	-1268.09	-1356.96	5146.00	5196.00	-5275.12	-2351.90	-35.38	4143.75	186.36	22.30	PASS
6116.00†	5635.04	-1302.59	-1393.87	5146.00	5196.00	-5275.12	-2351.90	-35.38	4109.93	187.14	22.02	PASS
6216.00†	5721.33	-1337.09	-1430.79	5146.00	5196.00	-5275.12	-2351.90	-35.38	4078.29	187.86	21.77	PASS
6316.00†	5807.63	-1371.59	-1467.71	5146.00	5196.00	-5275.12	-2351.90	-35.38	4048.87	188.51	21.54	PASS
6416.00†	5893.92	-1406.09	-1504.63	5146.00	5196.00	-5275.12	-2351.90	-35.38	4021.73	189.09	21.33	PASS
6516.00†	5980.22	-1440.59	-1541.55	5146.00	5196.00	-5275.12	-2351.90	-35.38	3996.90	189.59	21.14	PASS
6616.00†	6066.51	-1475.10	-1578.47	5146.00	5196.00	-5275.12	-2351.90	-35.38	3974.44	190.00	20.97	PASS
6716.00†	6152.80	-1509.60	-1615.39	5146.00	5196.00	-5275.12	-2351.90	-35.38	3954.37	190.33	20.83	PASS
6816.00†	6239.10	-1544.10	-1652.31	5146.00	5196.00	-5275.12	-2351.90	-35.38	3936.75	190.57	20.71	PASS
6916.00†	6325.39	-1578.60	-1689.23	5146.00	5196.00	-5275.12	-2351.90	-35.38	3921.59	190.71	20.62	PASS
7016.00†	6411.68	-1613.10	-1726.15	5146.00	5196.00	-5275.12	-2351.90	-35.38	3908.94	190.76	20.55	PASS
7116.00†	6497.98	-1647.60	-1763.07	5146.00	5196.00	-5275.12	-2351.90	-35.38	3898.81	190.71	20.50	PASS
7216.00†	6584.27	-1682.10	-1799.99	5146.00	5196.00	-5275.12	-2351.90	-35.38	3891.23	190.56	20.48	PASS
7316.00†	6670.57	-1716.61	-1836.91	5146.00	5196.00	-5275.12	-2351.90	-35.38	3886.20	190.31	20.48	PASS
7416.00†	6756.86	-1751.11	-1873.83	5146.00	5196.00	-5275.12	-2351.90	-35.38	3883.75	189.96	20.50	PASS
7516.00†	6843.15	-1785.61	-1910.75	5146.00	5196.00	-5275.12	-2351.90	-35.38	3883.86	189.51	20.55	PASS
7616.00†	6929.45	-1820.11	-1947.66	5146.00	5196.00	-5275.12	-2351.90	-35.38	3886.56	188.95	20.62	PASS
7716.00†	7015.74	-1854.61	-1984.58	5146.00	5196.00	-5275.12	-2351.90	-35.38	3891.82	188.31	20.72	PASS
7816.00†	7102.03	-1889.11	-2021.50	5146.00	5196.00	-5275.12	-2351.90	-35.38	3899.63	187.56	20.85	PASS

CLEARANCE DATA - Offset Wellbore: EHLER JOHN #12 AWB    Offset Wellpath: EHLER JOHN #12 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#03 EX EHLER JOHN #12 (2060'FSL & 660'FWL, SEC.10,PA)			Well: EHLER JOHN #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
7916.00†	7188.33	-1923.61	-2058.42	5146.00	5196.00	-5275.12	-2351.90	-35.38	3910.00	186.73	21.00	PASS
8016.00†	7274.62	-1958.12	-2095.34	5146.00	5196.00	-5275.12	-2351.90	-35.38	3922.88	185.81	21.17	PASS
8085.19	7334.33	-1981.99	-2120.89	5146.00	5196.00	-5275.12	-2351.90	-35.38	3933.26	185.12	21.31	PASS
8116.00†	7360.64	-1993.39	-2132.14	5146.00	5196.00	-5275.12	-2351.90	-31.65	3937.47	184.79	21.37	PASS
8216.00†	7441.54	-2040.68	-2166.69	5146.00	5196.00	-5275.12	-2351.90	-22.39	3941.87	183.72	21.52	PASS
8316.00†	7513.69	-2102.53	-2197.41	5146.00	5196.00	-5275.12	-2351.90	-16.11	3932.03	182.77	21.58	PASS
8416.00†	7574.90	-2177.06	-2223.37	5146.00	5196.00	-5275.12	-2351.90	-11.51	3908.15	181.57	21.59	PASS
8516.00†	7623.30	-2261.99	-2243.79	5146.00	5196.00	-5275.12	-2351.90	-7.79	3870.71	180.16	21.55	PASS
8616.00†	7657.43	-2354.77	-2258.05	5146.00	5196.00	-5275.12	-2351.90	-4.37	3820.46	178.56	21.46	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #12 AWB Offset Wellpath: EHLER JOHN #12 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#03 EX EHLER JOHN #12 (2060'FSL & 660'FWL, SEC.10,PA) Well: EHLER JOHN #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
8716.00†	7676.26	-2452.55	-2265.70	5146.00	5196.00	-5275.12	-2351.90	-0.72	3758.45	176.82	21.32	PASS
8784.36	7680.00	-2520.76	-2267.01	5146.00	5196.00	-5275.12	-2351.90	2.24	3709.98	175.52	21.20	PASS
8816.00†	7680.00	-2552.39	-2266.87	5146.00	5196.00	-5275.12	-2351.90	2.24	3686.56	174.87	21.14	PASS
8916.00†	7680.00	-2652.39	-2266.43	5146.00	5196.00	-5275.12	-2351.90	2.24	3613.34	172.69	20.99	PASS
9016.00†	7680.00	-2752.39	-2265.99	5146.00	5196.00	-5275.12	-2351.90	2.24	3541.44	170.38	20.85	PASS
9116.00†	7680.00	-2852.39	-2265.55	5146.00	5196.00	-5275.12	-2351.90	2.24	3470.92	167.95	20.73	PASS
9216.00†	7680.00	-2952.39	-2265.11	5146.00	5196.00	-5275.12	-2351.90	2.24	3401.89	165.39	20.63	PASS
9265.71†	7680.00	-3002.10	-2264.89	5146.00	5196.00	-5275.12	-2351.90	2.24	3368.15	165.39	20.63	PASS
9316.00†	7680.00	-3052.39	-2264.67	5146.00	5196.00	-5275.12	-2351.90	2.24	3334.42	162.69	20.56	PASS
9416.00†	7680.00	-3152.39	-2264.23	5146.00	5196.00	-5275.12	-2351.90	2.24	3268.63	159.84	20.52	PASS
9516.00†	7680.00	-3252.39	-2263.79	5146.00	5196.00	-5275.12	-2351.90	2.24	3204.60	156.86	20.50	PASS
9616.00†	7680.00	-3352.39	-2263.34	5146.00	5196.00	-5275.12	-2351.90	2.24	3142.45	153.72	20.51	PASS
9716.00†	7680.00	-3452.39	-2262.90	5146.00	5196.00	-5275.12	-2351.90	2.24	3082.29	150.43	20.56	PASS
9816.00†	7680.00	-3552.38	-2262.46	5146.00	5196.00	-5275.12	-2351.90	2.24	3024.25	146.99	20.65	PASS
9916.00†	7680.00	-3652.38	-2262.02	5146.00	5196.00	-5275.12	-2351.90	2.24	2968.43	143.41	20.77	PASS
10016.00†	7680.00	-3752.38	-2261.58	5146.00	5196.00	-5275.12	-2351.90	2.24	2914.98	139.67	20.95	PASS
10116.00†	7680.00	-3852.38	-2261.14	5146.00	5196.00	-5275.12	-2351.90	2.24	2864.03	135.80	21.17	PASS
10216.00†	7680.00	-3952.38	-2260.70	5146.00	5196.00	-5275.12	-2351.90	2.24	2815.71	131.80	21.45	PASS
10316.00†	7680.00	-4052.38	-2260.26	5146.00	5196.00	-5275.12	-2351.90	2.24	2770.15	127.69	21.78	PASS
10416.00†	7680.00	-4152.38	-2259.82	5146.00	5196.00	-5275.12	-2351.90	2.24	2727.50	123.49	22.18	PASS
10516.00†	7680.00	-4252.38	-2259.38	5146.00	5196.00	-5275.12	-2351.90	2.24	2687.90	119.21	22.65	PASS
10616.00†	7680.00	-4352.38	-2258.94	5146.00	5196.00	-5275.12	-2351.90	2.24	2651.48	114.91	23.18	PASS
10716.00†	7680.00	-4452.38	-2258.50	5146.00	5196.00	-5275.12	-2351.90	2.24	2618.37	110.62	23.78	PASS
10816.00†	7680.00	-4552.37	-2258.06	5146.00	5196.00	-5275.12	-2351.90	2.24	2588.71	106.39	24.45	PASS
10916.00†	7680.00	-4652.37	-2257.61	5146.00	5196.00	-5275.12	-2351.90	2.24	2562.61	102.30	25.18	PASS
11016.00†	7680.00	-4752.37	-2257.17	5146.00	5196.00	-5275.12	-2351.90	2.24	2540.18	98.44	25.94	PASS
11116.00†	7680.00	-4852.37	-2256.73	5146.00	5196.00	-5275.12	-2351.90	2.24	2521.51	94.94	26.71	PASS
11216.00†	7680.00	-4952.37	-2256.29	5146.00	5196.00	-5275.12	-2351.90	2.24	2506.70	91.94	27.42	PASS
11316.00†	7680.00	-5052.37	-2255.85	5146.00	5196.00	-5275.12	-2351.90	2.24	2495.82	89.63	28.01	PASS
11416.00†	7680.00	-5152.37	-2255.41	5146.00	5196.00	-5275.12	-2351.90	2.24	2488.90	88.23	28.38	PASS
11516.00†	7680.00	-5252.37	-2254.97	5146.00	5196.00	-5275.12	-2351.90	2.24	2485.99	87.90	28.45	PASS
11541.00†	7680.00	-5277.37	-2254.86	5146.00	5196.00	-5275.12	-2351.90	2.24	2485.90	88.00	28.42	PASS
11616.00†	7680.00	-5352.37	-2254.53	5146.00	5196.00	-5275.12	-2351.90	2.24	2487.11	88.75	28.19	PASS
11716.00†	7680.00	-5452.37	-2254.09	5146.00	5196.00	-5275.12	-2351.90	2.24	2492.24	90.72	27.63	PASS
11816.00†	7680.00	-5552.36	-2253.65	5146.00	5196.00	-5275.12	-2351.90	2.24	2501.35	93.65	26.86	PASS
11916.00†	7680.00	-5652.36	-2253.21	5146.00	5196.00	-5275.12	-2351.90	2.24	2514.42	97.33	25.97	PASS

CLEARANCE DATA - Offset Wellbore: EHLER JOHN #12 AWB    Offset Wellpath: EHLER JOHN #12 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#03 EX EHLER JOHN #12 (2060'FSL & 660'FWL, SEC.10,PA)			Well: EHLER JOHN #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
12016.00†	7680.00	-5752.36	-2252.77	5146.00	5196.00	-5275.12	-2351.90	2.24	2531.37	101.55	25.06	PASS
12116.00†	7680.00	-5852.36	-2252.32	5146.00	5196.00	-5275.12	-2351.90	2.24	2552.13	106.12	24.17	PASS
12216.00†	7680.00	-5952.36	-2251.88	5146.00	5196.00	-5275.12	-2351.90	2.24	2576.61	110.92	23.34	PASS
12316.00†	7680.00	-6052.36	-2251.44	5146.00	5196.00	-5275.12	-2351.90	2.24	2604.70	115.82	22.59	PASS
12416.00†	7680.00	-6152.36	-2251.00	5146.00	5196.00	-5275.12	-2351.90	2.24	2636.28	120.76	21.93	PASS
12516.00†	7680.00	-6252.36	-2250.56	5146.00	5196.00	-5275.12	-2351.90	2.24	2671.24	125.65	21.35	PASS
12616.00†	7680.00	-6352.36	-2250.12	5146.00	5196.00	-5275.12	-2351.90	2.24	2709.44	130.47	20.85	PASS
12716.00†	7680.00	-6452.36	-2249.68	5146.00	5196.00	-5275.12	-2351.90	2.24	2750.75	135.17	20.43	PASS
12816.00†	7680.00	-6552.36	-2249.24	5146.00	5196.00	-5275.12	-2351.90	2.24	2795.02	139.73	20.08	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #12 AWB Offset Wellpath: EHLER JOHN #12 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#03 EX EHLER JOHN #12 (2060'FSL & 660'FWL, SEC.10,PA) Well: EHLER JOHN #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
12916.00†	7680.00	-6652.35	-2248.80	5146.00	5196.00	-5275.12	-2351.90	2.24	2842.12	144.12	19.79	PASS
13016.00†	7680.00	-6752.35	-2248.36	5146.00	5196.00	-5275.12	-2351.90	2.24	2891.92	148.35	19.56	PASS
13116.00†	7680.00	-6852.35	-2247.92	5146.00	5196.00	-5275.12	-2351.90	2.24	2944.27	152.39	19.39	PASS
13144.91	7680.00	-6881.26	-2247.79	5146.00	5196.00	-5275.12	-2351.90	2.24	2959.86	153.53	19.34	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: EHLER JOHN #12 AWB Offset Wellpath: EHLER JOHN #12 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: EHLER JOHN #12 AWB Offset Wellpath: EHLER JOHN #12 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	226.00	226.00	34.00	260.00	-3215.64	-1433.87	-3215.64	-1433.87
8.625in Casing Surface	0.00	226.00	226.00	34.00	260.00	-3215.64	-1433.87	-3215.64	-1433.87
7.875in Open Hole	226.00	5146.00	4920.00	260.00	5180.00	-3215.64	-1433.87	-3215.64	-1433.87
4.5in Casing Production	0.00	5146.00	5146.00	34.00	5180.00	-3215.64	-1433.87	-3215.64	-1433.87

## WELLPATH COMPOSITION - Offset Wellbore: EHLER JOHN #12 AWB Offset Wellpath: EHLER JOHN #12 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5146.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5146>	EHLER JOHN #12 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: EHLER JOHN #12 AWB Offset Wellpath: EHLER JOHN #12 AWP

MD Reference: Rig on SLOT#03 EX EHLER JOHN #12 (2060'FSL & 660'FWL, SEC.10,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

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER FARMS A #1 AWB Offset Wellpath: SELTZER FARMS A #1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#03 EX SELTZER FARMS A #1 (660'FNL & 1960'FWL, SEC.03, PA) Well: SELTZER FARMS A #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
16.00	16.00	0.00	0.00	-16.00	20.00	2320.16	-1056.80	-24.49	2549.51	25.57	103.59	PASS
116.00†	116.00	0.00	0.00	80.00	116.00	2320.16	-1056.80	-24.49	2549.51	61.91	41.78	PASS
216.00†	216.00	0.00	0.00	180.00	216.00	2320.16	-1056.80	-24.49	2549.51	63.95	40.44	PASS
316.00†	316.00	0.00	0.00	280.00	316.00	2320.16	-1056.80	-24.49	2549.51	65.81	39.18	PASS
416.00†	416.00	0.00	0.00	380.00	416.00	2320.16	-1056.80	-24.49	2549.51	67.85	37.99	PASS
516.00†	516.00	0.00	0.00	480.00	516.00	2320.16	-1056.80	-24.49	2549.51	69.89	36.86	PASS
616.00†	616.00	0.00	0.00	580.00	616.00	2320.16	-1056.80	-24.49	2549.51	71.94	35.80	PASS
716.00†	716.00	0.00	0.00	680.00	716.00	2320.16	-1056.80	-24.49	2549.51	73.99	34.80	PASS
816.00†	816.00	0.00	0.00	780.00	816.00	2320.16	-1056.80	-24.49	2549.51	75.83	33.85	PASS
916.00†	916.00	0.00	0.00	880.00	916.00	2320.16	-1056.80	-24.49	2549.51	77.89	32.95	PASS
1016.00†	1016.00	0.00	0.00	980.00	1016.00	2320.16	-1056.80	-24.49	2549.51	79.96	32.10	PASS
1116.00†	1116.00	0.00	0.00	1080.00	1116.00	2320.16	-1056.80	-24.49	2549.51	82.02	31.28	PASS
1216.00†	1216.00	0.00	0.00	1180.00	1216.00	2320.16	-1056.80	-24.49	2549.51	84.09	30.51	PASS
1316.00†	1316.00	0.00	0.00	1280.00	1316.00	2320.16	-1056.80	-24.49	2549.51	86.17	29.77	PASS
1416.00†	1416.00	0.00	0.00	1380.00	1416.00	2320.16	-1056.80	-24.49	2549.51	88.25	29.06	PASS
1516.00†	1516.00	0.00	0.00	1480.00	1516.00	2320.16	-1056.80	-24.49	2549.51	90.33	28.39	PASS
1600.00	1600.00	0.00	0.00	1564.00	1600.00	2320.16	-1056.80	-24.49	2549.51	92.08	27.85	PASS
1616.00†	1616.00	-0.03	-0.03	1580.00	1616.00	2320.16	-1056.80	108.57	2549.52	92.41	27.74	PASS
1716.00†	1715.97	-1.60	-1.72	1679.97	1715.97	2320.16	-1056.80	108.61	2550.25	94.50	27.14	PASS
1816.00†	1815.80	-5.56	-5.95	1779.80	1815.80	2320.16	-1056.80	108.70	2552.11	96.60	26.56	PASS
1916.00†	1915.36	-11.89	-12.72	1879.36	1915.36	2320.16	-1056.80	108.84	2555.10	98.70	26.02	PASS
2016.00†	2014.54	-20.59	-22.03	1978.54	2014.54	2320.16	-1056.80	109.03	2559.27	100.80	25.52	PASS
2116.00†	2113.21	-31.64	-33.86	2077.21	2113.21	2320.16	-1056.80	109.26	2564.64	102.91	25.05	PASS
2216.00†	2211.26	-45.04	-48.20	2175.26	2211.26	2320.16	-1056.80	109.54	2571.28	105.02	24.61	PASS
2316.00†	2308.57	-60.77	-65.03	2272.57	2308.57	2320.16	-1056.80	109.86	2579.24	107.15	24.19	PASS
2416.00†	2405.01	-78.81	-84.34	2369.01	2405.01	2320.16	-1056.80	110.22	2588.58	109.29	23.80	PASS
2516.00†	2500.47	-99.14	-106.09	2464.47	2500.47	2320.16	-1056.80	110.61	2599.40	111.45	23.43	PASS
2616.00†	2594.84	-121.73	-130.26	2558.84	2594.84	2320.16	-1056.80	111.02	2611.76	113.63	23.09	PASS
2716.00†	2687.99	-146.55	-156.82	2651.99	2687.99	2320.16	-1056.80	111.45	2625.76	115.85	22.77	PASS
2816.00†	2779.81	-173.58	-185.74	2743.81	2779.81	2320.16	-1056.80	111.90	2641.49	118.10	22.46	PASS
2916.00†	2870.20	-202.78	-216.99	2834.20	2870.20	2320.16	-1056.80	112.36	2659.04	120.40	22.18	PASS
3016.00†	2959.04	-234.11	-250.52	2923.04	2959.04	2320.16	-1056.80	112.82	2678.51	122.73	21.92	PASS
3116.00†	3046.23	-267.54	-286.29	3010.23	3046.23	2320.16	-1056.80	113.27	2699.98	125.11	21.67	PASS
3117.60	3047.61	-268.10	-286.88	3011.61	3047.61	2320.16	-1056.80	113.28	2700.34	125.14	21.67	PASS
3216.00†	3132.52	-302.05	-323.21	3096.52	3132.52	2320.16	-1056.80	114.13	2722.89	127.51	21.44	PASS
3316.00†	3218.82	-336.55	-360.13	3182.82	3218.82	2320.16	-1056.80	114.98	2746.53	129.96	21.22	PASS

CLEARANCE DATA - Offset Wellbore: SELTZER FARMS A #1 AWB Offset Wellpath: SELTZER FARMS A #1 AWP												
Facility: SEC.03-T01S-R67W		Slot: SLOT#03 EX SELTZER FARMS A #1 (660'FNL & 1960'FWL, SEC.03, PA)				Well: SELTZER FARMS A #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
3416.00†	3305.11	-371.05	-397.05	3269.11	3305.11	2320.16	-1056.80	115.83	2770.90	132.45	21.00	PASS
3516.00†	3391.40	-405.55	-433.97	3355.40	3391.40	2320.16	-1056.80	116.66	2795.97	134.96	20.80	PASS
3616.00†	3477.70	-440.05	-470.89	3441.70	3477.70	2320.16	-1056.80	117.48	2821.71	137.49	20.60	PASS
3716.00†	3563.99	-474.55	-507.81	3527.99	3563.99	2320.16	-1056.80	118.29	2848.13	140.04	20.41	PASS
3816.00†	3650.28	-509.05	-544.73	3614.28	3650.28	2320.16	-1056.80	119.08	2875.18	142.61	20.23	PASS
3916.00†	3736.58	-543.56	-581.65	3700.58	3736.58	2320.16	-1056.80	119.87	2902.87	145.19	20.06	PASS
4016.00†	3822.87	-578.06	-618.57	3786.87	3822.87	2320.16	-1056.80	120.64	2931.16	147.77	19.90	PASS
4116.00†	3909.17	-612.56	-655.49	3873.17	3909.17	2320.16	-1056.80	121.40	2960.05	150.37	19.75	PASS
4216.00†	3995.46	-647.06	-692.41	3959.46	3995.46	2320.16	-1056.80	122.14	2989.51	152.96	19.61	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER FARMS A #1 AWB Offset Wellpath: SELTZER FARMS A #1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#03 EX SELTZER FARMS A #1 (660'FNL & 1960'FWL, SEC.03, PA) Well: SELTZER FARMS A #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
4316.00†	4081.75	-681.56	-729.33	4045.75	4081.75	2320.16	-1056.80	122.88	3019.53	155.56	19.48	PASS
4416.00†	4168.05	-716.06	-766.25	4132.05	4168.05	2320.16	-1056.80	123.60	3050.10	158.15	19.35	PASS
4516.00†	4254.34	-750.56	-803.16	4218.34	4254.34	2320.16	-1056.80	124.31	3081.18	160.75	19.23	PASS
4616.00†	4340.63	-785.07	-840.08	4304.63	4340.63	2320.16	-1056.80	125.01	3112.78	163.34	19.12	PASS
4716.00†	4426.93	-819.57	-877.00	4390.93	4426.93	2320.16	-1056.80	125.70	3144.87	165.92	19.01	PASS
4816.00†	4513.22	-854.07	-913.92	4477.22	4513.22	2320.16	-1056.80	126.38	3177.45	168.50	18.91	PASS
4916.00†	4599.52	-888.57	-950.84	4563.52	4599.52	2320.16	-1056.80	127.04	3210.48	171.07	18.82	PASS
5016.00†	4685.81	-923.07	-987.76	4649.81	4685.81	2320.16	-1056.80	127.69	3243.97	173.64	18.74	PASS
5116.00†	4772.10	-957.57	-1024.68	4736.10	4772.10	2320.16	-1056.80	128.33	3277.89	176.20	18.66	PASS
5216.00†	4858.40	-992.07	-1061.60	4822.40	4858.40	2320.16	-1056.80	128.97	3312.24	178.75	18.58	PASS
5316.00†	4944.69	-1026.58	-1098.52	4908.69	4944.69	2320.16	-1056.80	129.58	3347.00	181.29	18.51	PASS
5416.00†	5030.98	-1061.08	-1135.44	4994.98	5030.98	2320.16	-1056.80	130.19	3382.16	183.82	18.45	PASS
5516.00†	5117.28	-1095.58	-1172.36	5081.28	5117.28	2320.16	-1056.80	130.79	3417.70	186.35	18.39	PASS
5542.33†	5140.00	-1104.66	-1182.08	5104.00	5140.00	2320.16	-1056.80	130.95	3427.12	187.05	18.38	PASS
5616.00†	5203.57	-1130.08	-1209.28	5104.00	5140.00	2320.16	-1056.80	130.95	3454.20	187.54	18.47	PASS
5716.00†	5289.87	-1164.58	-1246.20	5104.00	5140.00	2320.16	-1056.80	130.95	3493.10	188.11	18.62	PASS
5816.00†	5376.16	-1199.08	-1283.12	5104.00	5140.00	2320.16	-1056.80	130.95	3534.41	188.55	18.80	PASS
5916.00†	5462.45	-1233.59	-1320.04	5104.00	5140.00	2320.16	-1056.80	130.95	3578.04	188.89	19.00	PASS
6016.00†	5548.75	-1268.09	-1356.96	5104.00	5140.00	2320.16	-1056.80	130.95	3623.91	189.13	19.22	PASS
6116.00†	5635.04	-1302.59	-1393.87	5104.00	5140.00	2320.16	-1056.80	130.95	3671.92	189.28	19.46	PASS
6216.00†	5721.33	-1337.09	-1430.79	5104.00	5140.00	2320.16	-1056.80	130.95	3722.00	189.34	19.72	PASS
6316.00†	5807.63	-1371.59	-1467.71	5104.00	5140.00	2320.16	-1056.80	130.95	3774.07	189.32	19.99	PASS
6416.00†	5893.92	-1406.09	-1504.63	5104.00	5140.00	2320.16	-1056.80	130.95	3828.05	189.23	20.29	PASS
6516.00†	5980.22	-1440.59	-1541.55	5104.00	5140.00	2320.16	-1056.80	130.95	3883.84	189.08	20.60	PASS
6616.00†	6066.51	-1475.10	-1578.47	5104.00	5140.00	2320.16	-1056.80	130.95	3941.39	188.86	20.93	PASS
6716.00†	6152.80	-1509.60	-1615.39	5104.00	5140.00	2320.16	-1056.80	130.95	4000.61	188.59	21.28	PASS
6816.00†	6239.10	-1544.10	-1652.31	5104.00	5140.00	2320.16	-1056.80	130.95	4061.42	188.27	21.64	PASS
6916.00†	6325.39	-1578.60	-1689.23	5104.00	5140.00	2320.16	-1056.80	130.95	4123.77	187.91	22.01	PASS
7016.00†	6411.68	-1613.10	-1726.15	5104.00	5140.00	2320.16	-1056.80	130.95	4187.57	187.52	22.40	PASS
7116.00†	6497.98	-1647.60	-1763.07	5104.00	5140.00	2320.16	-1056.80	130.95	4252.77	187.09	22.80	PASS
7216.00†	6584.27	-1682.10	-1799.99	5104.00	5140.00	2320.16	-1056.80	130.95	4319.30	186.63	23.21	PASS
7316.00†	6670.57	-1716.61	-1836.91	5104.00	5140.00	2320.16	-1056.80	130.95	4387.11	186.15	23.64	PASS
7416.00†	6756.86	-1751.11	-1873.83	5104.00	5140.00	2320.16	-1056.80	130.95	4456.12	185.65	24.08	PASS
7516.00†	6843.15	-1785.61	-1910.75	5104.00	5140.00	2320.16	-1056.80	130.95	4526.29	185.13	24.52	PASS
7616.00†	6929.45	-1820.11	-1947.66	5104.00	5140.00	2320.16	-1056.80	130.95	4597.57	184.60	24.98	PASS
7716.00†	7015.74	-1854.61	-1984.58	5104.00	5140.00	2320.16	-1056.80	130.95	4669.90	184.06	25.45	PASS



CLEARANCE DATA - Offset Wellbore: SELTZER FARMS A #1 AWB Offset Wellpath: SELTZER FARMS A #1 AWP												
Facility: SEC.03-T01S-R67W		Slot: SLOT#03 EX SELTZER FARMS A #1 (660'FNL & 1960'FWL, SEC.03, PA)				Well: SELTZER FARMS A #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
7816.00†	7102.03	-1889.11	-2021.50	5104.00	5140.00	2320.16	-1056.80	130.95	4743.23	183.51	25.93	PASS
7916.00†	7188.33	-1923.61	-2058.42	5104.00	5140.00	2320.16	-1056.80	130.95	4817.53	182.95	26.41	PASS
8016.00†	7274.62	-1958.12	-2095.34	5104.00	5140.00	2320.16	-1056.80	130.95	4892.73	182.40	26.91	PASS
8085.19	7334.33	-1981.99	-2120.89	5104.00	5140.00	2320.16	-1056.80	130.95	4945.29	182.01	27.25	PASS
8116.00†	7360.64	-1993.39	-2132.14	5104.00	5140.00	2320.16	-1056.80	134.95	4969.34	181.85	27.41	PASS
8216.00†	7441.54	-2040.68	-2166.69	5104.00	5140.00	2320.16	-1056.80	145.14	5054.30	181.46	27.94	PASS
8316.00†	7513.69	-2102.53	-2197.41	5104.00	5140.00	2320.16	-1056.80	153.07	5147.39	181.30	28.48	PASS
8416.00†	7574.90	-2177.06	-2223.37	5104.00	5140.00	2320.16	-1056.80	165.51	5245.44	181.23	29.03	PASS
8516.00†	7623.30	-2261.99	-2243.79	5104.00	5140.00	2320.16	-1056.80	-43.80	5345.27	181.27	29.58	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER FARMS A #1 AWB Offset Wellpath: SELTZER FARMS A #1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#03 EX SELTZER FARMS A #1 (660'FNL & 1960'FWL, SEC.03, PA) Well: SELTZER FARMS A #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
8616.00†	7657.43	-2354.77	-2258.05	5104.00	5140.00	2320.16	-1056.80	-29.74	5443.84	181.46	30.09	PASS
8716.00†	7676.26	-2452.55	-2265.70	5104.00	5140.00	2320.16	-1056.80	-26.71	5538.31	181.83	30.55	PASS
8784.36	7680.00	-2520.76	-2267.01	5104.00	5140.00	2320.16	-1056.80	-25.87	5599.17	182.16	30.83	PASS
8816.00†	7680.00	-2552.39	-2266.87	5104.00	5140.00	2320.16	-1056.80	-25.87	5626.52	182.31	30.96	PASS
8916.00†	7680.00	-2652.39	-2266.43	5104.00	5140.00	2320.16	-1056.80	-25.87	5713.24	182.76	31.36	PASS
9016.00†	7680.00	-2752.39	-2265.99	5104.00	5140.00	2320.16	-1056.80	-25.87	5800.39	183.18	31.76	PASS
9116.00†	7680.00	-2852.39	-2265.55	5104.00	5140.00	2320.16	-1056.80	-25.87	5887.95	183.59	32.17	PASS
9216.00†	7680.00	-2952.39	-2265.11	5104.00	5140.00	2320.16	-1056.80	-25.87	5975.90	183.99	32.58	PASS
9316.00†	7680.00	-3052.39	-2264.67	5104.00	5140.00	2320.16	-1056.80	-25.87	6064.23	184.37	32.99	PASS
9416.00†	7680.00	-3152.39	-2264.23	5104.00	5140.00	2320.16	-1056.80	-25.87	6152.91	184.74	33.41	PASS
9516.00†	7680.00	-3252.39	-2263.79	5104.00	5140.00	2320.16	-1056.80	-25.87	6241.93	185.09	33.83	PASS
9616.00†	7680.00	-3352.39	-2263.34	5104.00	5140.00	2320.16	-1056.80	-25.87	6331.28	185.43	34.25	PASS
9716.00†	7680.00	-3452.39	-2262.90	5104.00	5140.00	2320.16	-1056.80	-25.87	6420.95	185.76	34.67	PASS
9816.00†	7680.00	-3552.38	-2262.46	5104.00	5140.00	2320.16	-1056.80	-25.87	6510.92	186.08	35.10	PASS
9916.00†	7680.00	-3652.38	-2262.02	5104.00	5140.00	2320.16	-1056.80	-25.87	6601.17	186.39	35.52	PASS
10016.00†	7680.00	-3752.38	-2261.58	5104.00	5140.00	2320.16	-1056.80	-25.87	6691.70	186.69	35.95	PASS
10116.00†	7680.00	-3852.38	-2261.14	5104.00	5140.00	2320.16	-1056.80	-25.87	6782.50	186.98	36.39	PASS
10216.00†	7680.00	-3952.38	-2260.70	5104.00	5140.00	2320.16	-1056.80	-25.87	6873.56	187.26	36.82	PASS
10316.00†	7680.00	-4052.38	-2260.26	5104.00	5140.00	2320.16	-1056.80	-25.87	6964.86	187.53	37.25	PASS
10416.00†	7680.00	-4152.38	-2259.82	5104.00	5140.00	2320.16	-1056.80	-25.87	7056.39	187.79	37.69	PASS
10516.00†	7680.00	-4252.38	-2259.38	5104.00	5140.00	2320.16	-1056.80	-25.87	7148.15	188.05	38.13	PASS
10616.00†	7680.00	-4352.38	-2258.94	5104.00	5140.00	2320.16	-1056.80	-25.87	7240.13	188.30	38.57	PASS
10716.00†	7680.00	-4452.38	-2258.50	5104.00	5140.00	2320.16	-1056.80	-25.87	7332.32	188.55	39.01	PASS
10816.00†	7680.00	-4552.37	-2258.06	5104.00	5140.00	2320.16	-1056.80	-25.87	7424.71	188.78	39.45	PASS
10916.00†	7680.00	-4652.37	-2257.61	5104.00	5140.00	2320.16	-1056.80	-25.87	7517.30	189.01	39.89	PASS
11016.00†	7680.00	-4752.37	-2257.17	5104.00	5140.00	2320.16	-1056.80	-25.87	7610.08	189.24	40.34	PASS
11116.00†	7680.00	-4852.37	-2256.73	5104.00	5140.00	2320.16	-1056.80	-25.87	7703.03	189.46	40.78	PASS
11216.00†	7680.00	-4952.37	-2256.29	5104.00	5140.00	2320.16	-1056.80	-25.87	7796.16	189.68	41.23	PASS
11316.00†	7680.00	-5052.37	-2255.85	5104.00	5140.00	2320.16	-1056.80	-25.87	7889.46	189.89	41.67	PASS
11416.00†	7680.00	-5152.37	-2255.41	5104.00	5140.00	2320.16	-1056.80	-25.87	7982.92	190.09	42.12	PASS
11516.00†	7680.00	-5252.37	-2254.97	5104.00	5140.00	2320.16	-1056.80	-25.87	8076.54	190.30	42.57	PASS
11616.00†	7680.00	-5352.37	-2254.53	5104.00	5140.00	2320.16	-1056.80	-25.87	8170.30	190.49	43.02	PASS
11716.00†	7680.00	-5452.37	-2254.09	5104.00	5140.00	2320.16	-1056.80	-25.87	8264.22	190.69	43.47	PASS
11816.00†	7680.00	-5552.36	-2253.65	5104.00	5140.00	2320.16	-1056.80	-25.87	8358.27	190.88	43.92	PASS
11916.00†	7680.00	-5652.36	-2253.21	5104.00	5140.00	2320.16	-1056.80	-25.87	8452.47	191.07	44.37	PASS
12016.00†	7680.00	-5752.36	-2252.77	5104.00	5140.00	2320.16	-1056.80	-25.87	8546.79	191.25	44.82	PASS

CLEARANCE DATA - Offset Wellbore: SELTZER FARMS A #1 AWB Offset Wellpath: SELTZER FARMS A #1 AWP												
Facility: SEC.03-T01S-R67W			Slot: SLOT#03 EX SELTZER FARMS A #1 (660'FNL & 1960'FWL, SEC.03, PA)				Well: SELTZER FARMS A #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
12116.00†	7680.00	-5852.36	-2252.32	5104.00	5140.00	2320.16	-1056.80	-25.87	8641.24	191.43	45.28	PASS
12216.00†	7680.00	-5952.36	-2251.88	5104.00	5140.00	2320.16	-1056.80	-25.87	8735.82	191.61	45.73	PASS
12316.00†	7680.00	-6052.36	-2251.44	5104.00	5140.00	2320.16	-1056.80	-25.87	8830.51	191.78	46.18	PASS
12416.00†	7680.00	-6152.36	-2251.00	5104.00	5140.00	2320.16	-1056.80	-25.87	8925.32	191.96	46.64	PASS
12516.00†	7680.00	-6252.36	-2250.56	5104.00	5140.00	2320.16	-1056.80	-25.87	9020.24	192.13	47.09	PASS
12616.00†	7680.00	-6352.36	-2250.12	5104.00	5140.00	2320.16	-1056.80	-25.87	9115.27	192.30	47.54	PASS
12716.00†	7680.00	-6452.36	-2249.68	5104.00	5140.00	2320.16	-1056.80	-25.87	9210.41	192.46	48.00	PASS
12816.00†	7680.00	-6552.36	-2249.24	5104.00	5140.00	2320.16	-1056.80	-25.87	9305.65	192.62	48.45	PASS
12916.00†	7680.00	-6652.35	-2248.80	5104.00	5140.00	2320.16	-1056.80	-25.87	9400.99	192.79	48.91	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER FARMS A #1 AWB Offset Wellpath: SELTZER FARMS A #1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#03 EX SELTZER FARMS A #1 (660'FNL & 1960'FWL, SEC.03, PA) Well: SELTZER FARMS A #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
13016.00†	7680.00	-6752.35	-2248.36	5104.00	5140.00	2320.16	-1056.80	-25.87	9496.42	192.95	49.36	PASS
13116.00†	7680.00	-6852.35	-2247.92	5104.00	5140.00	2320.16	-1056.80	-25.87	9591.94	193.10	49.82	PASS
13144.91	7680.00	-6881.26	-2247.79	5104.00	5140.00	2320.16	-1056.80	-25.87	9619.58	193.15	49.95	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: SELTZER FARMS A #1 AWB Offset Wellpath: SELTZER FARMS A #1 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: SELTZER FARMS A #1 AWB Offset Wellpath: SELTZER FARMS A #1 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	232.00	232.00	20.00	252.00	1414.38	-644.19	1414.38	-644.19
8.625in Casing Surface	0.00	232.00	232.00	20.00	252.00	1414.38	-644.19	1414.38	-644.19
7.875in Open Hole	232.00	5100.00	4868.00	252.00	5120.00	1414.38	-644.19	1414.38	-644.19
4.5in Casing Production	0.00	5100.00	5100.00	20.00	5120.00	1414.38	-644.19	1414.38	-644.19

## WELLPATH COMPOSITION - Offset Wellbore: SELTZER FARMS A #1 AWB Offset Wellpath: SELTZER FARMS A #1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5104.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5104>	SELTZER FARMS A #1 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: SELTZER FARMS A #1 AWB Offset Wellpath: SELTZER FARMS A #1 AWP

MD Reference: Rig on SLOT#03 EX SELTZER FARMS A #1 (660'FNL & 1960'FWL, SEC.03, 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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: BUSCHMAN HAROLD #S-5 Offset Wellpath: BUSCHMAN HAROLD #S-5 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#04 EX BUSCHMAN HAROLD #S-5 (1422'FNL & 540'FEL, SEC.10, PA) Well: BUSCHMAN HAROLD #S-5 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	-16.00	42.00	-3471.95	1748.38	153.27	3887.41	25.56	157.98	PASS
116.00†	116.00	0.00	0.00	58.00	116.00	-3471.95	1748.38	153.27	3887.32	61.47	64.18	PASS
216.00†	216.00	0.00	0.00	158.00	216.00	-3471.95	1748.38	153.27	3887.32	63.51	62.09	PASS
316.00†	316.00	0.00	0.00	258.00	316.00	-3471.95	1748.38	153.27	3887.32	65.55	60.13	PASS
416.00†	416.00	0.00	0.00	358.00	416.00	-3471.95	1748.38	153.27	3887.32	67.60	58.29	PASS
516.00†	516.00	0.00	0.00	458.00	516.00	-3471.95	1748.38	153.27	3887.32	69.65	56.55	PASS
616.00†	616.00	0.00	0.00	558.00	616.00	-3471.95	1748.38	153.27	3887.32	71.70	54.91	PASS
716.00†	716.00	0.00	0.00	658.00	716.00	-3471.95	1748.38	153.27	3887.32	73.76	53.36	PASS
816.00†	816.00	0.00	0.00	758.00	816.00	-3471.95	1748.38	153.27	3887.32	75.61	51.89	PASS
916.00†	916.00	0.00	0.00	858.00	916.00	-3471.95	1748.38	153.27	3887.32	77.67	50.50	PASS
1016.00†	1016.00	0.00	0.00	958.00	1016.00	-3471.95	1748.38	153.27	3887.32	79.74	49.18	PASS
1116.00†	1116.00	0.00	0.00	1058.00	1116.00	-3471.95	1748.38	153.27	3887.32	81.81	47.92	PASS
1216.00†	1216.00	0.00	0.00	1158.00	1216.00	-3471.95	1748.38	153.27	3887.32	83.89	46.73	PASS
1316.00†	1316.00	0.00	0.00	1258.00	1316.00	-3471.95	1748.38	153.27	3887.32	85.80	45.59	PASS
1416.00†	1416.00	0.00	0.00	1358.00	1416.00	-3471.95	1748.38	153.27	3887.32	87.88	44.50	PASS
1516.00†	1516.00	0.00	0.00	1458.00	1516.00	-3471.95	1748.38	153.27	3887.32	89.97	43.46	PASS
1600.00	1600.00	0.00	0.00	1542.00	1600.00	-3471.95	1748.38	153.27	3887.32	91.73	42.62	PASS
1616.00†	1616.00	-0.03	-0.03	1558.00	1616.00	-3471.95	1748.38	-73.67	3887.31	92.06	42.47	PASS
1716.00†	1715.97	-1.60	-1.72	1657.97	1715.97	-3471.95	1748.38	-73.71	3886.66	94.16	41.51	PASS
1816.00†	1815.80	-5.56	-5.95	1757.80	1815.80	-3471.95	1748.38	-73.83	3885.04	96.26	40.58	PASS
1916.00†	1915.36	-11.89	-12.72	1857.36	1915.36	-3471.95	1748.38	-74.01	3882.46	98.37	39.68	PASS
2016.00†	2014.54	-20.59	-22.03	1956.54	2014.54	-3471.95	1748.38	-74.25	3878.95	100.47	38.81	PASS
2116.00†	2113.21	-31.64	-33.86	2055.21	2113.21	-3471.95	1748.38	-74.57	3874.55	102.58	37.97	PASS
2216.00†	2211.26	-45.04	-48.20	2153.26	2211.26	-3471.95	1748.38	-74.94	3869.29	104.70	37.14	PASS
2316.00†	2308.57	-60.77	-65.03	2250.57	2308.57	-3471.95	1748.38	-75.38	3863.24	106.83	36.34	PASS
2416.00†	2405.01	-78.81	-84.34	2347.01	2405.01	-3471.95	1748.38	-75.88	3856.45	108.97	35.56	PASS
2516.00†	2500.47	-99.14	-106.09	2442.47	2500.47	-3471.95	1748.38	-76.44	3849.01	111.14	34.80	PASS
2616.00†	2594.84	-121.73	-130.26	2536.84	2594.84	-3471.95	1748.38	-77.05	3841.00	113.35	34.05	PASS
2716.00†	2687.99	-146.55	-156.82	2629.99	2687.99	-3471.95	1748.38	-77.71	3832.50	115.59	33.31	PASS
2816.00†	2779.81	-173.58	-185.74	2721.81	2779.81	-3471.95	1748.38	-78.42	3823.62	117.88	32.58	PASS
2916.00†	2870.20	-202.78	-216.99	2812.20	2870.20	-3471.95	1748.38	-79.17	3814.47	120.23	31.87	PASS
3016.00†	2959.04	-234.11	-250.52	2901.04	2959.04	-3471.95	1748.38	-79.96	3805.16	122.65	31.16	PASS
3116.00†	3046.23	-267.54	-286.29	2988.23	3046.23	-3471.95	1748.38	-80.78	3795.80	125.13	30.46	PASS
3117.60	3047.61	-268.10	-286.88	2989.61	3047.61	-3471.95	1748.38	-80.80	3795.65	125.17	30.45	PASS
3216.00†	3132.52	-302.05	-323.21	3074.52	3132.52	-3471.95	1748.38	-81.44	3786.79	127.69	29.78	PASS
3316.00†	3218.82	-336.55	-360.13	3160.82	3218.82	-3471.95	1748.38	-82.10	3778.44	130.33	29.11	PASS

CLEARANCE DATA - Offset Wellbore: BUSCHMAN HAROLD #S-5    Offset Wellpath: BUSCHMAN HAROLD #S-5 AWP												
Facility: SEC.10-T01S-R67W		Slot: SLOT#04 EX BUSCHMAN HAROLD #S-5 (1422'FNL & 540'FEL, SEC.10, PA)					Well: BUSCHMAN HAROLD #S-5		Threshold Value=1.00    † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	3247.11	3305.11	-3471.95	1748.38	-82.75	3770.74	133.03	28.46	PASS
3516.00†	3391.40	-405.55	-433.97	3333.40	3391.40	-3471.95	1748.38	-83.41	3763.71	135.79	27.83	PASS
3616.00†	3477.70	-440.05	-470.89	3419.70	3477.70	-3471.95	1748.38	-84.08	3757.34	138.60	27.21	PASS
3716.00†	3563.99	-474.55	-507.81	3505.99	3563.99	-3471.95	1748.38	-84.74	3751.64	141.46	26.62	PASS
3816.00†	3650.28	-509.05	-544.73	3592.28	3650.28	-3471.95	1748.38	-85.40	3746.61	144.37	26.05	PASS
3916.00†	3736.58	-543.56	-581.65	3678.58	3736.58	-3471.95	1748.38	-86.07	3742.26	147.31	25.49	PASS
4016.00†	3822.87	-578.06	-618.57	3764.87	3822.87	-3471.95	1748.38	-86.74	3738.59	150.29	24.96	PASS
4116.00†	3909.17	-612.56	-655.49	3851.17	3909.17	-3471.95	1748.38	-87.40	3735.60	153.31	24.45	PASS
4216.00†	3995.46	-647.06	-692.41	3937.46	3995.46	-3471.95	1748.38	-88.07	3733.29	156.35	23.96	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: BUSCHMAN HAROLD #S-5 Offset Wellpath: BUSCHMAN HAROLD #S-5 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#04 EX BUSCHMAN HAROLD #S-5 (1422'FNL & 540'FEL, SEC.10, PA) Well: BUSCHMAN HAROLD #S-5 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	4023.75	4081.75	-3471.95	1748.38	-88.74	3731.66	159.41	23.49	PASS
4416.00†	4168.05	-716.06	-766.25	4110.05	4168.05	-3471.95	1748.38	-89.41	3730.72	162.50	23.03	PASS
4503.50†	4243.55	-746.25	-798.55	4187.47	4245.47	-3471.95	1748.38	-90.01	3730.46	165.25	22.65	PASS
4516.00†	4254.34	-750.56	-803.16	4196.34	4254.34	-3471.95	1748.38	-90.08	3730.46	165.60	22.60	PASS
4616.00†	4340.63	-785.07	-840.08	4282.63	4340.63	-3471.95	1748.38	-90.75	3730.89	168.72	22.18	PASS
4716.00†	4426.93	-819.57	-877.00	4368.93	4426.93	-3471.95	1748.38	-91.42	3732.00	171.85	21.78	PASS
4816.00†	4513.22	-854.07	-913.92	4455.22	4513.22	-3471.95	1748.38	-92.09	3733.79	175.00	21.40	PASS
4916.00†	4599.52	-888.57	-950.84	4541.52	4599.52	-3471.95	1748.38	-92.76	3736.26	178.15	21.03	PASS
5016.00†	4685.81	-923.07	-987.76	4627.81	4685.81	-3471.95	1748.38	-93.43	3739.42	181.31	20.68	PASS
5116.00†	4772.10	-957.57	-1024.68	4714.10	4772.10	-3471.95	1748.38	-94.09	3743.26	184.47	20.35	PASS
5216.00†	4858.40	-992.07	-1061.60	4800.40	4858.40	-3471.95	1748.38	-94.76	3747.77	187.63	20.03	PASS
5316.00†	4944.69	-1026.58	-1098.52	4886.69	4944.69	-3471.95	1748.38	-95.42	3752.96	190.80	19.72	PASS
5416.00†	5030.98	-1061.08	-1135.44	4972.98	5030.98	-3471.95	1748.38	-96.09	3758.82	193.96	19.43	PASS
5516.00†	5117.28	-1095.58	-1172.36	5059.28	5117.28	-3471.95	1748.38	-96.75	3765.35	197.13	19.15	PASS
5616.00†	5203.57	-1130.08	-1209.28	5145.57	5203.57	-3471.95	1748.38	-97.41	3772.55	200.28	18.88	PASS
5716.00†	5289.87	-1164.58	-1246.20	5166.00	5224.00	-3471.95	1748.38	-97.56	3780.98	202.06	18.76	PASS
5816.00†	5376.16	-1199.08	-1283.12	5166.00	5224.00	-3471.95	1748.38	-97.56	3791.97	203.31	18.70	PASS
5916.00†	5462.45	-1233.59	-1320.04	5166.00	5224.00	-3471.95	1748.38	-97.56	3805.57	204.46	18.66	PASS
6016.00†	5548.75	-1268.09	-1356.96	5166.00	5224.00	-3471.95	1748.38	-97.56	3821.73	205.49	18.64	PASS
6034.54†	5564.75	-1274.48	-1363.80	5166.00	5224.00	-3471.95	1748.38	-97.56	3825.00	205.67	18.64	PASS
6116.00†	5635.04	-1302.59	-1393.87	5166.00	5224.00	-3471.95	1748.38	-97.56	3840.43	206.42	18.65	PASS
6216.00†	5721.33	-1337.09	-1430.79	5166.00	5224.00	-3471.95	1748.38	-97.56	3861.62	207.23	18.68	PASS
6316.00†	5807.63	-1371.59	-1467.71	5166.00	5224.00	-3471.95	1748.38	-97.56	3885.28	207.94	18.73	PASS
6416.00†	5893.92	-1406.09	-1504.63	5166.00	5224.00	-3471.95	1748.38	-97.56	3911.35	208.55	18.80	PASS
6516.00†	5980.22	-1440.59	-1541.55	5166.00	5224.00	-3471.95	1748.38	-97.56	3939.79	209.05	18.89	PASS
6616.00†	6066.51	-1475.10	-1578.47	5166.00	5224.00	-3471.95	1748.38	-97.56	3970.54	209.46	19.00	PASS
6716.00†	6152.80	-1509.60	-1615.39	5166.00	5224.00	-3471.95	1748.38	-97.56	4003.56	209.77	19.13	PASS
6816.00†	6239.10	-1544.10	-1652.31	5166.00	5224.00	-3471.95	1748.38	-97.56	4038.78	210.00	19.28	PASS
6916.00†	6325.39	-1578.60	-1689.23	5166.00	5224.00	-3471.95	1748.38	-97.56	4076.15	210.14	19.45	PASS
7016.00†	6411.68	-1613.10	-1726.15	5166.00	5224.00	-3471.95	1748.38	-97.56	4115.62	210.20	19.63	PASS
7116.00†	6497.98	-1647.60	-1763.07	5166.00	5224.00	-3471.95	1748.38	-97.56	4157.11	210.18	19.83	PASS
7216.00†	6584.27	-1682.10	-1799.99	5166.00	5224.00	-3471.95	1748.38	-97.56	4200.57	210.10	20.04	PASS
7316.00†	6670.57	-1716.61	-1836.91	5166.00	5224.00	-3471.95	1748.38	-97.56	4245.95	209.94	20.27	PASS
7416.00†	6756.86	-1751.11	-1873.83	5166.00	5224.00	-3471.95	1748.38	-97.56	4293.18	209.73	20.52	PASS
7516.00†	6843.15	-1785.61	-1910.75	5166.00	5224.00	-3471.95	1748.38	-97.56	4342.19	209.46	20.78	PASS
7616.00†	6929.45	-1820.11	-1947.66	5166.00	5224.00	-3471.95	1748.38	-97.56	4392.94	209.15	21.06	PASS

CLEARANCE DATA - Offset Wellbore: BUSCHMAN HAROLD #S-5    Offset Wellpath: BUSCHMAN HAROLD #S-5 AWP												
Facility: SEC.10-T01S-R67W		Slot: SLOT#04 EX BUSCHMAN HAROLD #S-5 (1422'FNL & 540'FEL, SEC.10, PA)					Well: BUSCHMAN HAROLD #S-5		Threshold Value=1.00    † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7716.00†	7015.74	-1854.61	-1984.58	5166.00	5224.00	-3471.95	1748.38	-97.56	4445.35	208.78	21.34	PASS
7816.00†	7102.03	-1889.11	-2021.50	5166.00	5224.00	-3471.95	1748.38	-97.56	4499.38	208.38	21.65	PASS
7916.00†	7188.33	-1923.61	-2058.42	5166.00	5224.00	-3471.95	1748.38	-97.56	4554.96	207.93	21.96	PASS
8016.00†	7274.62	-1958.12	-2095.34	5166.00	5224.00	-3471.95	1748.38	-97.56	4612.05	207.46	22.29	PASS
8085.19	7334.33	-1981.99	-2120.89	5166.00	5224.00	-3471.95	1748.38	-97.56	4652.39	207.11	22.52	PASS
8116.00†	7360.64	-1993.39	-2132.14	5166.00	5224.00	-3471.95	1748.38	-92.18	4670.10	206.96	22.62	PASS
8216.00†	7441.54	-2040.68	-2166.69	5166.00	5224.00	-3471.95	1748.38	-78.72	4721.63	206.71	22.90	PASS
8316.00†	7513.69	-2102.53	-2197.41	5166.00	5224.00	-3471.95	1748.38	-69.83	4763.12	206.88	23.08	PASS
8416.00†	7574.90	-2177.06	-2223.37	5166.00	5224.00	-3471.95	1748.38	-64.01	4793.57	207.28	23.18	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: BUSCHMAN HAROLD #S-5 Offset Wellpath: BUSCHMAN HAROLD #S-5 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#04 EX BUSCHMAN HAROLD #S-5 (1422'FNL & 540'FEL, SEC.10, PA) Well: BUSCHMAN HAROLD #S-5 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8516.00†	7623.30	-2261.99	-2243.79	5166.00	5224.00	-3471.95	1748.38	-60.39	4812.29	207.91	23.20	PASS
8616.00†	7657.43	-2354.77	-2258.05	5166.00	5224.00	-3471.95	1748.38	-58.48	4818.84	208.75	23.14	PASS
8716.00†	7676.26	-2452.55	-2265.70	5166.00	5224.00	-3471.95	1748.38	-58.03	4813.07	209.80	23.00	PASS
8784.36	7680.00	-2520.76	-2267.01	5166.00	5224.00	-3471.95	1748.38	-58.52	4802.09	210.57	22.86	PASS
8816.00†	7680.00	-2552.39	-2266.87	5166.00	5224.00	-3471.95	1748.38	-58.52	4795.81	210.90	22.80	PASS
8916.00†	7680.00	-2652.39	-2266.43	5166.00	5224.00	-3471.95	1748.38	-58.52	4777.27	211.88	22.60	PASS
9016.00†	7680.00	-2752.39	-2265.99	5166.00	5224.00	-3471.95	1748.38	-58.52	4760.77	212.88	22.42	PASS
9116.00†	7680.00	-2852.39	-2265.55	5166.00	5224.00	-3471.95	1748.38	-58.52	4746.31	213.87	22.25	PASS
9216.00†	7680.00	-2952.39	-2265.11	5166.00	5224.00	-3471.95	1748.38	-58.52	4733.92	214.87	22.08	PASS
9316.00†	7680.00	-3052.39	-2264.67	5166.00	5224.00	-3471.95	1748.38	-58.52	4723.62	215.87	21.93	PASS
9416.00†	7680.00	-3152.39	-2264.23	5166.00	5224.00	-3471.95	1748.38	-58.52	4715.41	216.86	21.80	PASS
9516.00†	7680.00	-3252.39	-2263.79	5166.00	5224.00	-3471.95	1748.38	-58.52	4709.31	217.86	21.67	PASS
9616.00†	7680.00	-3352.39	-2263.34	5166.00	5224.00	-3471.95	1748.38	-58.52	4705.34	218.84	21.55	PASS
9716.00†	7680.00	-3452.39	-2262.90	5166.00	5224.00	-3471.95	1748.38	-58.52	4703.48	219.82	21.45	PASS
9816.00†	7680.00	-3552.38	-2262.46	5166.00	5224.00	-3471.95	1748.38	-58.52	4703.75	220.80	21.35	PASS
9916.00†	7680.00	-3652.38	-2262.02	5166.00	5224.00	-3471.95	1748.38	-58.52	4706.15	221.76	21.27	PASS
10016.00†	7680.00	-3752.38	-2261.58	5166.00	5224.00	-3471.95	1748.38	-58.52	4710.67	222.70	21.20	PASS
10116.00†	7680.00	-3852.38	-2261.14	5166.00	5224.00	-3471.95	1748.38	-58.52	4717.30	223.64	21.14	PASS
10216.00†	7680.00	-3952.38	-2260.70	5166.00	5224.00	-3471.95	1748.38	-58.52	4726.04	224.56	21.09	PASS
10316.00†	7680.00	-4052.38	-2260.26	5166.00	5224.00	-3471.95	1748.38	-58.52	4736.88	225.46	21.06	PASS
10416.00†	7680.00	-4152.38	-2259.82	5166.00	5224.00	-3471.95	1748.38	-58.52	4749.80	226.34	21.03	PASS
10516.00†	7680.00	-4252.38	-2259.38	5166.00	5224.00	-3471.95	1748.38	-58.52	4764.78	227.21	21.02	PASS
10616.00†	7680.00	-4352.38	-2258.94	5166.00	5224.00	-3471.95	1748.38	-58.52	4781.81	228.05	21.02	PASS
10716.00†	7680.00	-4452.38	-2258.50	5166.00	5224.00	-3471.95	1748.38	-58.52	4800.86	228.87	21.02	PASS
10816.00†	7680.00	-4552.37	-2258.06	5166.00	5224.00	-3471.95	1748.38	-58.52	4821.91	229.67	21.04	PASS
10916.00†	7680.00	-4652.37	-2257.61	5166.00	5224.00	-3471.95	1748.38	-58.52	4844.93	230.44	21.07	PASS
11016.00†	7680.00	-4752.37	-2257.17	5166.00	5224.00	-3471.95	1748.38	-58.52	4869.90	231.19	21.11	PASS
11116.00†	7680.00	-4852.37	-2256.73	5166.00	5224.00	-3471.95	1748.38	-58.52	4896.78	231.91	21.16	PASS
11216.00†	7680.00	-4952.37	-2256.29	5166.00	5224.00	-3471.95	1748.38	-58.52	4925.55	232.61	21.22	PASS
11316.00†	7680.00	-5052.37	-2255.85	5166.00	5224.00	-3471.95	1748.38	-58.52	4956.16	233.28	21.29	PASS
11416.00†	7680.00	-5152.37	-2255.41	5166.00	5224.00	-3471.95	1748.38	-58.52	4988.60	233.93	21.37	PASS
11516.00†	7680.00	-5252.37	-2254.97	5166.00	5224.00	-3471.95	1748.38	-58.52	5022.81	234.55	21.46	PASS
11616.00†	7680.00	-5352.37	-2254.53	5166.00	5224.00	-3471.95	1748.38	-58.52	5058.78	235.14	21.56	PASS
11716.00†	7680.00	-5452.37	-2254.09	5166.00	5224.00	-3471.95	1748.38	-58.52	5096.45	235.71	21.67	PASS
11816.00†	7680.00	-5552.36	-2253.65	5166.00	5224.00	-3471.95	1748.38	-58.52	5135.79	236.24	21.79	PASS
11916.00†	7680.00	-5652.36	-2253.21	5166.00	5224.00	-3471.95	1748.38	-58.52	5176.76	236.76	21.91	PASS

CLEARANCE DATA - Offset Wellbore: BUSCHMAN HAROLD #S-5    Offset Wellpath: BUSCHMAN HAROLD #S-5 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#04 EX BUSCHMAN HAROLD #S-5 (1422'FNL & 540'FEL, SEC.10, PA)				Well: BUSCHMAN HAROLD #S-5		Threshold Value=1.00    † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12016.00†	7680.00	-5752.36	-2252.77	5166.00	5224.00	-3471.95	1748.38	-58.52	5219.33	237.24	22.05	PASS
12116.00†	7680.00	-5852.36	-2252.32	5166.00	5224.00	-3471.95	1748.38	-58.52	5263.46	237.70	22.19	PASS
12216.00†	7680.00	-5952.36	-2251.88	5166.00	5224.00	-3471.95	1748.38	-58.52	5309.10	238.14	22.34	PASS
12316.00†	7680.00	-6052.36	-2251.44	5166.00	5224.00	-3471.95	1748.38	-58.52	5356.22	238.55	22.50	PASS
12416.00†	7680.00	-6152.36	-2251.00	5166.00	5224.00	-3471.95	1748.38	-58.52	5404.78	238.93	22.67	PASS
12516.00†	7680.00	-6252.36	-2250.56	5166.00	5224.00	-3471.95	1748.38	-58.52	5454.74	239.30	22.84	PASS
12616.00†	7680.00	-6352.36	-2250.12	5166.00	5224.00	-3471.95	1748.38	-58.52	5506.06	239.63	23.03	PASS
12716.00†	7680.00	-6452.36	-2249.68	5166.00	5224.00	-3471.95	1748.38	-58.52	5558.71	239.95	23.22	PASS
12816.00†	7680.00	-6552.36	-2249.24	5166.00	5224.00	-3471.95	1748.38	-58.52	5612.65	240.25	23.41	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: BUSCHMAN HAROLD #S-5 Offset Wellpath: BUSCHMAN HAROLD #S-5 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#04 EX BUSCHMAN HAROLD #S-5 (1422'FNL & 540'FEL, SEC.10, PA) Well: BUSCHMAN HAROLD #S-5 Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12916.00†	7680.00	-6652.35	-2248.80	5166.00	5224.00	-3471.95	1748.38	-58.52	5667.84	240.52	23.62	PASS
13016.00†	7680.00	-6752.35	-2248.36	5166.00	5224.00	-3471.95	1748.38	-58.52	5724.24	240.78	23.83	PASS
13116.00†	7680.00	-6852.35	-2247.92	5166.00	5224.00	-3471.95	1748.38	-58.52	5781.82	241.01	24.04	PASS
13144.91	7680.00	-6881.26	-2247.79	5166.00	5224.00	-3471.95	1748.38	-58.52	5798.68	241.08	24.11	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: BUSCHMAN HAROLD #S-5 Offset Wellpath: BUSCHMAN HAROLD #S-5 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: BUSCHMAN HAROLD #S-5 Offset Wellpath: BUSCHMAN HAROLD #S-5 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	1161.00	1161.00	42.00	1203.00	-2116.46	1065.89	-2116.46	1065.89
8.625in Casing Surface	0.00	1161.00	1161.00	42.00	1203.00	-2116.46	1065.89	-2116.46	1065.89
7.875in Open Hole	1161.00	5166.00	4005.00	1203.00	5208.00	-2116.46	1065.89	-2116.46	1065.89
4.5in Casing Production	0.00	5166.00	5166.00	42.00	5208.00	-2116.46	1065.89	-2116.46	1065.89

## WELLPATH COMPOSITION - Offset Wellbore: BUSCHMAN HAROLD #S-5 Offset Wellpath: BUSCHMAN HAROLD #S-5 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5166.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5166>	BUSCHMAN HAROLD #S-5

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: BUSCHMAN HAROLD #S-5 Offset Wellpath: BUSCHMAN HAROLD #S-5 AWP

MD Reference: Rig on SLOT#04 EX BUSCHMAN HAROLD #S-5 (1422'FNL & 540'FEL, SEC.10, 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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER FARMS A #2 AWB Offset Wellpath: SELTZER FARMS A #2 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#04 EX SELTZER FARMS A #2 (635'FNL & 610'FWL, SEC.03, PR) Well: SELTZER FARMS A #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
16.00	16.00	0.00	0.00	2.00	16.00	2346.49	-2413.37	-45.81	3366.06	60.33	56.64	PASS
116.00†	116.00	0.00	0.00	102.00	116.00	2346.49	-2413.37	-45.81	3366.06	62.36	54.77	PASS
216.00†	216.00	0.00	0.00	202.00	216.00	2346.49	-2413.37	-45.81	3366.06	64.39	53.02	PASS
316.00†	316.00	0.00	0.00	302.00	316.00	2346.49	-2413.37	-45.81	3366.06	66.42	51.37	PASS
416.00†	416.00	0.00	0.00	402.00	416.00	2346.49	-2413.37	-45.81	3366.06	68.46	49.82	PASS
516.00†	516.00	0.00	0.00	502.00	516.00	2346.49	-2413.37	-45.81	3366.06	70.51	48.36	PASS
616.00†	616.00	0.00	0.00	602.00	616.00	2346.49	-2413.37	-45.81	3366.06	72.55	46.98	PASS
716.00†	716.00	0.00	0.00	702.00	716.00	2346.49	-2413.37	-45.81	3366.06	74.60	45.67	PASS
816.00†	816.00	0.00	0.00	802.00	816.00	2346.49	-2413.37	-45.81	3366.06	76.45	44.44	PASS
916.00†	916.00	0.00	0.00	902.00	916.00	2346.49	-2413.37	-45.81	3366.06	78.51	43.26	PASS
1016.00†	1016.00	0.00	0.00	1002.00	1016.00	2346.49	-2413.37	-45.81	3366.06	80.57	42.14	PASS
1116.00†	1116.00	0.00	0.00	1102.00	1116.00	2346.49	-2413.37	-45.81	3366.06	82.64	41.08	PASS
1216.00†	1216.00	0.00	0.00	1202.00	1216.00	2346.49	-2413.37	-45.81	3366.06	84.58	40.07	PASS
1316.00†	1316.00	0.00	0.00	1302.00	1316.00	2346.49	-2413.37	-45.81	3366.06	86.65	39.10	PASS
1416.00†	1416.00	0.00	0.00	1402.00	1416.00	2346.49	-2413.37	-45.81	3366.06	88.73	38.18	PASS
1516.00†	1516.00	0.00	0.00	1502.00	1516.00	2346.49	-2413.37	-45.81	3366.06	90.81	37.30	PASS
1600.00	1600.00	0.00	0.00	1586.00	1600.00	2346.49	-2413.37	-45.81	3366.06	92.56	36.59	PASS
1616.00†	1616.00	-0.03	-0.03	1602.00	1616.00	2346.49	-2413.37	87.26	3366.06	92.89	36.46	PASS
1716.00†	1715.97	-1.60	-1.72	1701.97	1715.97	2346.49	-2413.37	87.30	3365.95	94.98	35.65	PASS
1816.00†	1815.80	-5.56	-5.95	1801.80	1815.80	2346.49	-2413.37	87.40	3365.68	97.07	34.87	PASS
1916.00†	1915.36	-11.89	-12.72	1901.36	1915.36	2346.49	-2413.37	87.57	3365.27	99.17	34.13	PASS
2016.00†	2014.54	-20.59	-22.03	2000.54	2014.54	2346.49	-2413.37	87.79	3364.75	101.26	33.41	PASS
2116.00†	2113.21	-31.64	-33.86	2099.21	2113.21	2346.49	-2413.37	88.08	3364.16	103.36	32.73	PASS
2216.00†	2211.26	-45.04	-48.20	2197.26	2211.26	2346.49	-2413.37	88.42	3363.55	105.47	32.06	PASS
2316.00†	2308.57	-60.77	-65.03	2294.57	2308.57	2346.49	-2413.37	88.81	3362.98	107.60	31.42	PASS
2416.00†	2405.01	-78.81	-84.34	2391.01	2405.01	2346.49	-2413.37	89.25	3362.51	109.74	30.80	PASS
2516.00†	2500.47	-99.14	-106.09	2486.47	2500.47	2346.49	-2413.37	89.74	3362.24	111.91	30.20	PASS
2566.00†	2547.80	-110.15	-117.87	2530.58	2544.58	2346.49	-2413.37	89.99	3362.20	112.97	29.91	PASS
2616.00†	2594.84	-121.73	-130.26	2580.84	2594.84	2346.49	-2413.37	90.27	3362.25	114.12	29.61	PASS
2716.00†	2687.99	-146.55	-156.82	2673.99	2687.99	2346.49	-2413.37	90.84	3362.63	116.36	29.04	PASS
2816.00†	2779.81	-173.58	-185.74	2765.81	2779.81	2346.49	-2413.37	91.45	3363.49	118.66	28.48	PASS
2916.00†	2870.20	-202.78	-216.99	2856.20	2870.20	2346.49	-2413.37	92.07	3364.95	121.02	27.94	PASS
3016.00†	2959.04	-234.11	-250.52	2945.04	2959.04	2346.49	-2413.37	92.72	3367.11	123.44	27.40	PASS
3116.00†	3046.23	-267.54	-286.29	3032.23	3046.23	2346.49	-2413.37	93.39	3370.11	125.93	26.88	PASS
3117.60	3047.61	-268.10	-286.88	3033.61	3047.61	2346.49	-2413.37	93.40	3370.16	125.97	26.87	PASS
3216.00†	3132.52	-302.05	-323.21	3118.52	3132.52	2346.49	-2413.37	94.13	3373.94	128.48	26.38	PASS

CLEARANCE DATA - Offset Wellbore: SELTZER FARMS A #2 AWB Offset Wellpath: SELTZER FARMS A #2 AWP												
Facility: SEC.03-T01S-R67W		Slot: SLOT#04 EX SELTZER FARMS A #2 (635'FNL & 610'FWL, SEC.03, PR)				Well: SELTZER FARMS A #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
3316.00†	3218.82	-336.55	-360.13	3204.82	3218.82	2346.49	-2413.37	94.87	3378.53	131.10	25.88	PASS
3416.00†	3305.11	-371.05	-397.05	3291.11	3305.11	2346.49	-2413.37	95.60	3383.87	133.78	25.40	PASS
3516.00†	3391.40	-405.55	-433.97	3377.40	3391.40	2346.49	-2413.37	96.34	3389.95	136.51	24.94	PASS
3616.00†	3477.70	-440.05	-470.89	3463.70	3477.70	2346.49	-2413.37	97.07	3396.77	139.27	24.49	PASS
3716.00†	3563.99	-474.55	-507.81	3549.99	3563.99	2346.49	-2413.37	97.80	3404.33	142.08	24.06	PASS
3816.00†	3650.28	-509.05	-544.73	3636.28	3650.28	2346.49	-2413.37	98.53	3412.62	144.92	23.64	PASS
3916.00†	3736.58	-543.56	-581.65	3722.58	3736.58	2346.49	-2413.37	99.26	3421.63	147.78	23.24	PASS
4016.00†	3822.87	-578.06	-618.57	3808.87	3822.87	2346.49	-2413.37	99.98	3431.37	150.67	22.86	PASS
4116.00†	3909.17	-612.56	-655.49	3895.17	3909.17	2346.49	-2413.37	100.70	3441.82	153.58	22.49	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER FARMS A #2 AWB Offset Wellpath: SELTZER FARMS A #2 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#04 EX SELTZER FARMS A #2 (635'FNL & 610'FWL, SEC.03, PR) Well: SELTZER FARMS A #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
4216.00†	3995.46	-647.06	-692.41	3981.46	3995.46	2346.49	-2413.37	101.41	3452.98	156.50	22.14	PASS
4316.00†	4081.75	-681.56	-729.33	4067.75	4081.75	2346.49	-2413.37	102.13	3464.84	159.43	21.81	PASS
4416.00†	4168.05	-716.06	-766.25	4154.05	4168.05	2346.49	-2413.37	102.83	3477.39	162.38	21.49	PASS
4516.00†	4254.34	-750.56	-803.16	4240.34	4254.34	2346.49	-2413.37	103.54	3490.63	165.32	21.19	PASS
4616.00†	4340.63	-785.07	-840.08	4326.63	4340.63	2346.49	-2413.37	104.24	3504.55	168.28	20.89	PASS
4716.00†	4426.93	-819.57	-877.00	4412.93	4426.93	2346.49	-2413.37	104.93	3519.14	171.23	20.62	PASS
4816.00†	4513.22	-854.07	-913.92	4499.22	4513.22	2346.49	-2413.37	105.63	3534.39	174.19	20.36	PASS
4916.00†	4599.52	-888.57	-950.84	4585.52	4599.52	2346.49	-2413.37	106.31	3550.30	177.14	20.11	PASS
5016.00†	4685.81	-923.07	-987.76	4671.81	4685.81	2346.49	-2413.37	107.00	3566.85	180.09	19.87	PASS
5116.00†	4772.10	-957.57	-1024.68	4758.10	4772.10	2346.49	-2413.37	107.67	3584.03	183.03	19.64	PASS
5216.00†	4858.40	-992.07	-1061.60	4844.40	4858.40	2346.49	-2413.37	108.34	3601.84	185.97	19.43	PASS
5316.00†	4944.69	-1026.58	-1098.52	4930.69	4944.69	2346.49	-2413.37	109.01	3620.28	188.90	19.22	PASS
5416.00†	5030.98	-1061.08	-1135.44	5016.98	5030.98	2346.49	-2413.37	109.67	3639.32	191.82	19.03	PASS
5516.00†	5117.28	-1095.58	-1172.36	5100.00	5114.00	2346.49	-2413.37	110.30	3658.95	194.67	18.85	PASS
5544.43†	5141.81	-1105.39	-1182.86	5100.00	5114.00	2346.49	-2413.37	110.30	3664.75	194.98	18.85	PASS
5616.00†	5203.57	-1130.08	-1209.28	5100.00	5114.00	2346.49	-2413.37	110.30	3680.27	195.74	18.85	PASS
5716.00†	5289.87	-1164.58	-1246.20	5100.00	5114.00	2346.49	-2413.37	110.30	3704.16	196.70	18.88	PASS
5816.00†	5376.16	-1199.08	-1283.12	5100.00	5114.00	2346.49	-2413.37	110.30	3730.59	197.55	18.94	PASS
5916.00†	5462.45	-1233.59	-1320.04	5100.00	5114.00	2346.49	-2413.37	110.30	3759.48	198.29	19.01	PASS
6016.00†	5548.75	-1268.09	-1356.96	5100.00	5114.00	2346.49	-2413.37	110.30	3790.80	198.92	19.11	PASS
6116.00†	5635.04	-1302.59	-1393.87	5100.00	5114.00	2346.49	-2413.37	110.30	3824.47	199.45	19.23	PASS
6216.00†	5721.33	-1337.09	-1430.79	5100.00	5114.00	2346.49	-2413.37	110.30	3860.45	199.89	19.37	PASS
6316.00†	5807.63	-1371.59	-1467.71	5100.00	5114.00	2346.49	-2413.37	110.30	3898.65	200.22	19.53	PASS
6416.00†	5893.92	-1406.09	-1504.63	5100.00	5114.00	2346.49	-2413.37	110.30	3939.03	200.47	19.70	PASS
6516.00†	5980.22	-1440.59	-1541.55	5100.00	5114.00	2346.49	-2413.37	110.30	3981.51	200.64	19.90	PASS
6616.00†	6066.51	-1475.10	-1578.47	5100.00	5114.00	2346.49	-2413.37	110.30	4026.02	200.73	20.11	PASS
6716.00†	6152.80	-1509.60	-1615.39	5100.00	5114.00	2346.49	-2413.37	110.30	4072.50	200.74	20.34	PASS
6816.00†	6239.10	-1544.10	-1652.31	5100.00	5114.00	2346.49	-2413.37	110.30	4120.89	200.69	20.59	PASS
6916.00†	6325.39	-1578.60	-1689.23	5100.00	5114.00	2346.49	-2413.37	110.30	4171.11	200.58	20.85	PASS
7016.00†	6411.68	-1613.10	-1726.15	5100.00	5114.00	2346.49	-2413.37	110.30	4223.10	200.40	21.13	PASS
7116.00†	6497.98	-1647.60	-1763.07	5100.00	5114.00	2346.49	-2413.37	110.30	4276.80	200.18	21.42	PASS
7216.00†	6584.27	-1682.10	-1799.99	5100.00	5114.00	2346.49	-2413.37	110.30	4332.15	199.90	21.73	PASS
7316.00†	6670.57	-1716.61	-1836.91	5100.00	5114.00	2346.49	-2413.37	110.30	4389.07	199.59	22.05	PASS
7416.00†	6756.86	-1751.11	-1873.83	5100.00	5114.00	2346.49	-2413.37	110.30	4447.51	199.23	22.39	PASS
7516.00†	6843.15	-1785.61	-1910.75	5100.00	5114.00	2346.49	-2413.37	110.30	4507.42	198.84	22.73	PASS
7616.00†	6929.45	-1820.11	-1947.66	5100.00	5114.00	2346.49	-2413.37	110.30	4568.73	198.42	23.09	PASS

CLEARANCE DATA - Offset Wellbore: SELTZER FARMS A #2 AWB Offset Wellpath: SELTZER FARMS A #2 AWP												
Facility: SEC.03-T01S-R67W		Slot: SLOT#04 EX SELTZER FARMS A #2 (635'FNL & 610'FWL, SEC.03, PR)				Well: SELTZER FARMS A #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
7716.00†	7015.74	-1854.61	-1984.58	5100.00	5114.00	2346.49	-2413.37	110.30	4631.38	197.97	23.46	PASS
7816.00†	7102.03	-1889.11	-2021.50	5100.00	5114.00	2346.49	-2413.37	110.30	4695.33	197.50	23.84	PASS
7916.00†	7188.33	-1923.61	-2058.42	5100.00	5114.00	2346.49	-2413.37	110.30	4760.52	197.01	24.23	PASS
8016.00†	7274.62	-1958.12	-2095.34	5100.00	5114.00	2346.49	-2413.37	110.30	4826.91	196.51	24.63	PASS
8085.19	7334.33	-1981.99	-2120.89	5100.00	5114.00	2346.49	-2413.37	110.30	4873.51	196.15	24.92	PASS
8116.00†	7360.64	-1993.39	-2132.14	5100.00	5114.00	2346.49	-2413.37	113.18	4895.00	196.00	25.05	PASS
8216.00†	7441.54	-2040.68	-2166.69	5100.00	5114.00	2346.49	-2413.37	118.02	4972.48	195.70	25.48	PASS
8316.00†	7513.69	-2102.53	-2197.41	5100.00	5114.00	2346.49	-2413.37	115.67	5059.54	195.72	25.92	PASS
8416.00†	7574.90	-2177.06	-2223.37	5100.00	5114.00	2346.49	-2413.37	102.08	5153.11	195.89	26.38	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER FARMS A #2 AWB Offset Wellpath: SELTZER FARMS A #2 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#04 EX SELTZER FARMS A #2 (635'FNL & 610'FWL, SEC.03, PR) Well: SELTZER FARMS A #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
8516.00†	7623.30	-2261.99	-2243.79	5100.00	5114.00	2346.49	-2413.37	68.15	5250.09	196.22	26.83	PASS
8616.00†	7657.43	-2354.77	-2258.05	5100.00	5114.00	2346.49	-2413.37	29.67	5347.43	196.74	27.26	PASS
8716.00†	7676.26	-2452.55	-2265.70	5100.00	5114.00	2346.49	-2413.37	9.90	5442.22	197.45	27.64	PASS
8784.36	7680.00	-2520.76	-2267.01	5100.00	5114.00	2346.49	-2413.37	2.79	5504.17	198.03	27.87	PASS
8816.00†	7680.00	-2552.39	-2266.87	5100.00	5114.00	2346.49	-2413.37	2.79	5532.16	198.30	27.98	PASS
8916.00†	7680.00	-2652.39	-2266.43	5100.00	5114.00	2346.49	-2413.37	2.79	5620.92	199.14	28.31	PASS
9016.00†	7680.00	-2752.39	-2265.99	5100.00	5114.00	2346.49	-2413.37	2.79	5710.05	199.93	28.64	PASS
9116.00†	7680.00	-2852.39	-2265.55	5100.00	5114.00	2346.49	-2413.37	2.79	5799.53	200.70	28.98	PASS
9216.00†	7680.00	-2952.39	-2265.11	5100.00	5114.00	2346.49	-2413.37	2.79	5889.35	201.43	29.32	PASS
9316.00†	7680.00	-3052.39	-2264.67	5100.00	5114.00	2346.49	-2413.37	2.79	5979.49	202.13	29.66	PASS
9416.00†	7680.00	-3152.39	-2264.23	5100.00	5114.00	2346.49	-2413.37	2.79	6069.94	202.81	30.01	PASS
9516.00†	7680.00	-3252.39	-2263.79	5100.00	5114.00	2346.49	-2413.37	2.79	6160.69	203.46	30.36	PASS
9616.00†	7680.00	-3352.39	-2263.34	5100.00	5114.00	2346.49	-2413.37	2.79	6251.72	204.08	30.72	PASS
9716.00†	7680.00	-3452.39	-2262.90	5100.00	5114.00	2346.49	-2413.37	2.79	6343.02	204.68	31.08	PASS
9816.00†	7680.00	-3552.38	-2262.46	5100.00	5114.00	2346.49	-2413.37	2.79	6434.58	205.26	31.43	PASS
9916.00†	7680.00	-3652.38	-2262.02	5100.00	5114.00	2346.49	-2413.37	2.79	6526.39	205.82	31.80	PASS
10016.00†	7680.00	-3752.38	-2261.58	5100.00	5114.00	2346.49	-2413.37	2.79	6618.43	206.35	32.16	PASS
10116.00†	7680.00	-3852.38	-2261.14	5100.00	5114.00	2346.49	-2413.37	2.79	6710.70	206.87	32.53	PASS
10216.00†	7680.00	-3952.38	-2260.70	5100.00	5114.00	2346.49	-2413.37	2.79	6803.19	207.37	32.90	PASS
10316.00†	7680.00	-4052.38	-2260.26	5100.00	5114.00	2346.49	-2413.37	2.79	6895.89	207.85	33.27	PASS
10416.00†	7680.00	-4152.38	-2259.82	5100.00	5114.00	2346.49	-2413.37	2.79	6988.79	208.32	33.64	PASS
10516.00†	7680.00	-4252.38	-2259.38	5100.00	5114.00	2346.49	-2413.37	2.79	7081.88	208.77	34.01	PASS
10616.00†	7680.00	-4352.38	-2258.94	5100.00	5114.00	2346.49	-2413.37	2.79	7175.16	209.20	34.39	PASS
10716.00†	7680.00	-4452.38	-2258.50	5100.00	5114.00	2346.49	-2413.37	2.79	7268.62	209.63	34.77	PASS
10816.00†	7680.00	-4552.37	-2258.06	5100.00	5114.00	2346.49	-2413.37	2.79	7362.25	210.03	35.15	PASS
10916.00†	7680.00	-4652.37	-2257.61	5100.00	5114.00	2346.49	-2413.37	2.79	7456.05	210.43	35.53	PASS
11016.00†	7680.00	-4752.37	-2257.17	5100.00	5114.00	2346.49	-2413.37	2.79	7550.00	210.81	35.91	PASS
11116.00†	7680.00	-4852.37	-2256.73	5100.00	5114.00	2346.49	-2413.37	2.79	7644.11	211.19	36.29	PASS
11216.00†	7680.00	-4952.37	-2256.29	5100.00	5114.00	2346.49	-2413.37	2.79	7738.37	211.55	36.68	PASS
11316.00†	7680.00	-5052.37	-2255.85	5100.00	5114.00	2346.49	-2413.37	2.79	7832.77	211.90	37.06	PASS
11416.00†	7680.00	-5152.37	-2255.41	5100.00	5114.00	2346.49	-2413.37	2.79	7927.30	212.24	37.45	PASS
11516.00†	7680.00	-5252.37	-2254.97	5100.00	5114.00	2346.49	-2413.37	2.79	8021.97	212.57	37.84	PASS
11616.00†	7680.00	-5352.37	-2254.53	5100.00	5114.00	2346.49	-2413.37	2.79	8116.77	212.89	38.23	PASS
11716.00†	7680.00	-5452.37	-2254.09	5100.00	5114.00	2346.49	-2413.37	2.79	8211.69	213.21	38.62	PASS
11816.00†	7680.00	-5552.36	-2253.65	5100.00	5114.00	2346.49	-2413.37	2.79	8306.73	213.51	39.01	PASS
11916.00†	7680.00	-5652.36	-2253.21	5100.00	5114.00	2346.49	-2413.37	2.79	8401.88	213.81	39.40	PASS



CLEARANCE DATA - Offset Wellbore: SELTZER FARMS A #2 AWB Offset Wellpath: SELTZER FARMS A #2 AWP												
Facility: SEC.03-T01S-R67W			Slot: SLOT#04 EX SELTZER FARMS A #2 (635'FNL & 610'FWL, SEC.03, PR)				Well: SELTZER FARMS A #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
12016.00†	7680.00	-5752.36	-2252.77	5100.00	5114.00	2346.49	-2413.37	2.79	8497.15	214.10	39.79	PASS
12116.00†	7680.00	-5852.36	-2252.32	5100.00	5114.00	2346.49	-2413.37	2.79	8592.52	214.38	40.19	PASS
12216.00†	7680.00	-5952.36	-2251.88	5100.00	5114.00	2346.49	-2413.37	2.79	8688.00	214.66	40.58	PASS
12316.00†	7680.00	-6052.36	-2251.44	5100.00	5114.00	2346.49	-2413.37	2.79	8783.58	214.93	40.98	PASS
12416.00†	7680.00	-6152.36	-2251.00	5100.00	5114.00	2346.49	-2413.37	2.79	8879.25	215.19	41.37	PASS
12516.00†	7680.00	-6252.36	-2250.56	5100.00	5114.00	2346.49	-2413.37	2.79	8975.02	215.45	41.77	PASS
12616.00†	7680.00	-6352.36	-2250.12	5100.00	5114.00	2346.49	-2413.37	2.79	9070.88	215.70	42.16	PASS
12716.00†	7680.00	-6452.36	-2249.68	5100.00	5114.00	2346.49	-2413.37	2.79	9166.83	215.95	42.56	PASS
12816.00†	7680.00	-6552.36	-2249.24	5100.00	5114.00	2346.49	-2413.37	2.79	9262.87	216.19	42.96	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: SELTZER FARMS A #2 AWB Offset Wellpath: SELTZER FARMS A #2 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#04 EX SELTZER FARMS A #2 (635'FNL & 610'FWL, SEC.03, PR) Well: SELTZER FARMS A #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
12916.00†	7680.00	-6652.35	-2248.80	5100.00	5114.00	2346.49	-2413.37	2.79	9358.98	216.43	43.36	PASS
13016.00†	7680.00	-6752.35	-2248.36	5100.00	5114.00	2346.49	-2413.37	2.79	9455.18	216.66	43.76	PASS
13116.00†	7680.00	-6852.35	-2247.92	5100.00	5114.00	2346.49	-2413.37	2.79	9551.46	216.89	44.16	PASS
13144.91	7680.00	-6881.26	-2247.79	5100.00	5114.00	2346.49	-2413.37	2.79	9579.31	216.95	44.27	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: SELTZER FARMS A #2 AWB Offset Wellpath: SELTZER FARMS A #2 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: SELTZER FARMS A #2 AWB Offset Wellpath: SELTZER FARMS A #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	1133.00	1133.00	-2.00	1131.00	1430.49	-1471.12	1430.49	-1471.12
8.625in Casing Surface	0.00	1133.00	1133.00	-2.00	1131.00	1430.49	-1471.12	1430.49	-1471.12
7.875in Open Hole	1133.00	5100.00	3967.00	1131.00	5098.00	1430.49	-1471.12	1430.49	-1471.12
5.5in Casing Production	0.00	5100.00	5100.00	-2.00	5098.00	1430.49	-1471.12	1430.49	-1471.12

## WELLPATH COMPOSITION - Offset Wellbore: SELTZER FARMS A #2 AWB Offset Wellpath: SELTZER FARMS A #2 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5100.00	Drift Indicator - Inclination Only (Actual Survey)	ASUMED VERTICAL TO SURFACE COGCC <5100>	SELTZER FARMS A #2 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: SELTZER FARMS A #2 AWB Offset Wellpath: SELTZER FARMS A #2 AWP

MD Reference: Rig on SLOT#04 EX SELTZER FARMS A #2 (635'FNL & 610'FWL, SEC.03, 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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #1 AWB Offset Wellpath: EHLER JOHN #1 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#02 EX EHLER JOHN #1 (660'FSL & 660'FWL, SEC.10, PA) Well: EHLER JOHN #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 MASH [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	-4.00	16.00	-6673.97	-2346.43	-160.63	7074.44	25.16	287.53	PASS
116.00†	116.00	0.00	0.00	96.00	116.00	-6673.97	-2346.43	-160.63	7074.44	62.24	115.35	PASS
216.00†	216.00	0.00	0.00	196.00	216.00	-6673.97	-2346.43	-160.63	7074.44	64.28	111.64	PASS
316.00†	316.00	0.00	0.00	296.00	316.00	-6673.97	-2346.43	-160.63	7074.44	66.15	108.16	PASS
416.00†	416.00	0.00	0.00	396.00	416.00	-6673.97	-2346.43	-160.63	7074.44	68.19	104.89	PASS
516.00†	516.00	0.00	0.00	496.00	516.00	-6673.97	-2346.43	-160.63	7074.44	70.24	101.80	PASS
616.00†	616.00	0.00	0.00	596.00	616.00	-6673.97	-2346.43	-160.63	7074.44	72.29	98.88	PASS
716.00†	716.00	0.00	0.00	696.00	716.00	-6673.97	-2346.43	-160.63	7074.44	74.35	96.11	PASS
816.00†	816.00	0.00	0.00	796.00	816.00	-6673.97	-2346.43	-160.63	7074.44	76.20	93.50	PASS
916.00†	916.00	0.00	0.00	896.00	916.00	-6673.97	-2346.43	-160.63	7074.44	78.26	91.02	PASS
1016.00†	1016.00	0.00	0.00	996.00	1016.00	-6673.97	-2346.43	-160.63	7074.44	80.33	88.66	PASS
1116.00†	1116.00	0.00	0.00	1096.00	1116.00	-6673.97	-2346.43	-160.63	7074.44	82.40	86.41	PASS
1216.00†	1216.00	0.00	0.00	1196.00	1216.00	-6673.97	-2346.43	-160.63	7074.44	84.48	84.28	PASS
1316.00†	1316.00	0.00	0.00	1296.00	1316.00	-6673.97	-2346.43	-160.63	7074.44	86.56	82.24	PASS
1416.00†	1416.00	0.00	0.00	1396.00	1416.00	-6673.97	-2346.43	-160.63	7074.44	88.64	80.30	PASS
1516.00†	1516.00	0.00	0.00	1496.00	1516.00	-6673.97	-2346.43	-160.63	7074.44	90.73	78.44	PASS
1600.00	1600.00	0.00	0.00	1580.00	1600.00	-6673.97	-2346.43	-160.63	7074.44	92.48	76.94	PASS
1616.00†	1616.00	-0.03	-0.03	1596.00	1616.00	-6673.97	-2346.43	-27.57	7074.40	92.82	76.66	PASS
1716.00†	1715.97	-1.60	-1.72	1695.97	1715.97	-6673.97	-2346.43	-27.60	7072.35	94.92	74.93	PASS
1816.00†	1815.80	-5.56	-5.95	1795.80	1815.80	-6673.97	-2346.43	-27.67	7067.22	97.07	73.21	PASS
1916.00†	1915.36	-11.89	-12.72	1895.36	1915.36	-6673.97	-2346.43	-27.78	7059.01	99.21	71.54	PASS
2016.00†	2014.54	-20.59	-22.03	1994.54	2014.54	-6673.97	-2346.43	-27.93	7047.72	101.35	69.91	PASS
2116.00†	2113.21	-31.64	-33.86	2093.21	2113.21	-6673.97	-2346.43	-28.13	7033.39	103.48	68.32	PASS
2216.00†	2211.26	-45.04	-48.20	2191.26	2211.26	-6673.97	-2346.43	-28.37	7016.02	105.61	66.77	PASS
2316.00†	2308.57	-60.77	-65.03	2288.57	2308.57	-6673.97	-2346.43	-28.66	6995.65	107.74	65.25	PASS
2416.00†	2405.01	-78.81	-84.34	2385.01	2405.01	-6673.97	-2346.43	-29.00	6972.32	109.86	63.78	PASS
2516.00†	2500.47	-99.14	-106.09	2480.47	2500.47	-6673.97	-2346.43	-29.38	6946.05	111.97	62.33	PASS
2616.00†	2594.84	-121.73	-130.26	2574.84	2594.84	-6673.97	-2346.43	-29.81	6916.89	114.08	60.92	PASS
2716.00†	2687.99	-146.55	-156.82	2667.99	2687.99	-6673.97	-2346.43	-30.30	6884.88	116.18	59.53	PASS
2816.00†	2779.81	-173.58	-185.74	2759.81	2779.81	-6673.97	-2346.43	-30.84	6850.09	118.29	58.17	PASS
2916.00†	2870.20	-202.78	-216.99	2850.20	2870.20	-6673.97	-2346.43	-31.44	6812.56	120.39	56.84	PASS
3016.00†	2959.04	-234.11	-250.52	2939.04	2959.04	-6673.97	-2346.43	-32.10	6772.34	122.49	55.53	PASS
3116.00†	3046.23	-267.54	-286.29	3026.23	3046.23	-6673.97	-2346.43	-32.83	6729.52	124.59	54.25	PASS
3117.60	3047.61	-268.10	-286.88	3027.61	3047.61	-6673.97	-2346.43	-32.84	6728.82	124.62	54.22	PASS
3216.00†	3132.52	-302.05	-323.21	3112.52	3132.52	-6673.97	-2346.43	-33.06	6685.42	126.67	53.00	PASS
3316.00†	3218.82	-336.55	-360.13	3198.82	3218.82	-6673.97	-2346.43	-33.29	6641.41	128.79	51.78	PASS

CLEARANCE DATA - Offset Wellbore: EHLER JOHN #1 AWB    Offset Wellpath: EHLER JOHN #1 AWP												
Facility: SEC.10-T01S-R67W			Slot: SLOT#02 EX EHLER JOHN #1 (660'FSL & 660'FWL, SEC.10, PA)			Well: EHLER JOHN #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
3416.00†	3305.11	-371.05	-397.05	3285.11	3305.11	-6673.97	-2346.43	-33.52	6597.49	130.94	50.59	PASS
3516.00†	3391.40	-405.55	-433.97	3371.40	3391.40	-6673.97	-2346.43	-33.76	6553.67	133.11	49.43	PASS
3616.00†	3477.70	-440.05	-470.89	3457.70	3477.70	-6673.97	-2346.43	-33.99	6509.95	135.32	48.30	PASS
3716.00†	3563.99	-474.55	-507.81	3543.99	3563.99	-6673.97	-2346.43	-34.23	6466.32	137.56	47.19	PASS
3816.00†	3650.28	-509.05	-544.73	3630.28	3650.28	-6673.97	-2346.43	-34.48	6422.80	139.83	46.11	PASS
3916.00†	3736.58	-543.56	-581.65	3716.58	3736.58	-6673.97	-2346.43	-34.72	6379.38	142.13	45.05	PASS
4016.00†	3822.87	-578.06	-618.57	3802.87	3822.87	-6673.97	-2346.43	-34.97	6336.06	144.45	44.02	PASS
4116.00†	3909.17	-612.56	-655.49	3889.17	3909.17	-6673.97	-2346.43	-35.22	6292.86	146.81	43.02	PASS
4216.00†	3995.46	-647.06	-692.41	3975.46	3995.46	-6673.97	-2346.43	-35.48	6249.76	149.19	42.04	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #1 AWB Offset Wellpath: EHLER JOHN #1 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#02 EX EHLER JOHN #1 (660'FSL & 660'FWL, SEC.10, PA) Well: EHLER JOHN #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
4316.00†	4081.75	-681.56	-729.33	4061.75	4081.75	-6673.97	-2346.43	-35.74	6206.77	151.60	41.08	PASS
4416.00†	4168.05	-716.06	-766.25	4148.05	4168.05	-6673.97	-2346.43	-36.00	6163.90	154.04	40.15	PASS
4516.00†	4254.34	-750.56	-803.16	4234.34	4254.34	-6673.97	-2346.43	-36.26	6121.15	156.51	39.24	PASS
4616.00†	4340.63	-785.07	-840.08	4320.63	4340.63	-6673.97	-2346.43	-36.53	6078.51	159.00	38.36	PASS
4716.00†	4426.93	-819.57	-877.00	4406.93	4426.93	-6673.97	-2346.43	-36.81	6036.00	161.52	37.49	PASS
4816.00†	4513.22	-854.07	-913.92	4493.22	4513.22	-6673.97	-2346.43	-37.08	5993.61	164.06	36.65	PASS
4916.00†	4599.52	-888.57	-950.84	4579.52	4599.52	-6673.97	-2346.43	-37.36	5951.35	166.63	35.83	PASS
5016.00†	4685.81	-923.07	-987.76	4665.81	4685.81	-6673.97	-2346.43	-37.64	5909.22	169.22	35.03	PASS
5116.00†	4772.10	-957.57	-1024.68	4752.10	4772.10	-6673.97	-2346.43	-37.93	5867.22	171.83	34.25	PASS
5216.00†	4858.40	-992.07	-1061.60	4838.40	4858.40	-6673.97	-2346.43	-38.22	5825.35	174.47	33.49	PASS
5316.00†	4944.69	-1026.58	-1098.52	4924.69	4944.69	-6673.97	-2346.43	-38.51	5783.63	177.13	32.75	PASS
5416.00†	5030.98	-1061.08	-1135.44	5010.98	5030.98	-6673.97	-2346.43	-38.81	5742.05	179.82	32.03	PASS
5516.00†	5117.28	-1095.58	-1172.36	5097.28	5117.28	-6673.97	-2346.43	-39.11	5700.61	182.53	31.32	PASS
5616.00†	5203.57	-1130.08	-1209.28	5155.00	5175.00	-6673.97	-2346.43	-39.32	5659.39	184.74	30.73	PASS
5716.00†	5289.87	-1164.58	-1246.20	5155.00	5175.00	-6673.97	-2346.43	-39.32	5619.35	185.76	30.34	PASS
5816.00†	5376.16	-1199.08	-1283.12	5155.00	5175.00	-6673.97	-2346.43	-39.32	5580.82	186.76	29.97	PASS
5916.00†	5462.45	-1233.59	-1320.04	5155.00	5175.00	-6673.97	-2346.43	-39.32	5543.82	187.75	29.62	PASS
6016.00†	5548.75	-1268.09	-1356.96	5155.00	5175.00	-6673.97	-2346.43	-39.32	5508.39	188.71	29.28	PASS
6116.00†	5635.04	-1302.59	-1393.87	5155.00	5175.00	-6673.97	-2346.43	-39.32	5474.56	189.64	28.95	PASS
6216.00†	5721.33	-1337.09	-1430.79	5155.00	5175.00	-6673.97	-2346.43	-39.32	5442.35	190.55	28.65	PASS
6316.00†	5807.63	-1371.59	-1467.71	5155.00	5175.00	-6673.97	-2346.43	-39.32	5411.80	191.43	28.35	PASS
6416.00†	5893.92	-1406.09	-1504.63	5155.00	5175.00	-6673.97	-2346.43	-39.32	5382.94	192.27	28.08	PASS
6516.00†	5980.22	-1440.59	-1541.55	5155.00	5175.00	-6673.97	-2346.43	-39.32	5355.79	193.08	27.82	PASS
6616.00†	6066.51	-1475.10	-1578.47	5155.00	5175.00	-6673.97	-2346.43	-39.32	5330.37	193.85	27.58	PASS
6716.00†	6152.80	-1509.60	-1615.39	5155.00	5175.00	-6673.97	-2346.43	-39.32	5306.72	194.58	27.35	PASS
6816.00†	6239.10	-1544.10	-1652.31	5155.00	5175.00	-6673.97	-2346.43	-39.32	5284.86	195.26	27.14	PASS
6916.00†	6325.39	-1578.60	-1689.23	5155.00	5175.00	-6673.97	-2346.43	-39.32	5264.80	195.90	26.95	PASS
7016.00†	6411.68	-1613.10	-1726.15	5155.00	5175.00	-6673.97	-2346.43	-39.32	5246.58	196.49	26.78	PASS
7116.00†	6497.98	-1647.60	-1763.07	5155.00	5175.00	-6673.97	-2346.43	-39.32	5230.20	197.04	26.62	PASS
7216.00†	6584.27	-1682.10	-1799.99	5155.00	5175.00	-6673.97	-2346.43	-39.32	5215.69	197.53	26.48	PASS
7316.00†	6670.57	-1716.61	-1836.91	5155.00	5175.00	-6673.97	-2346.43	-39.32	5203.06	197.96	26.36	PASS
7416.00†	6756.86	-1751.11	-1873.83	5155.00	5175.00	-6673.97	-2346.43	-39.32	5192.33	198.35	26.25	PASS
7516.00†	6843.15	-1785.61	-1910.75	5155.00	5175.00	-6673.97	-2346.43	-39.32	5183.50	198.68	26.16	PASS
7616.00†	6929.45	-1820.11	-1947.66	5155.00	5175.00	-6673.97	-2346.43	-39.32	5176.59	198.95	26.09	PASS
7716.00†	7015.74	-1854.61	-1984.58	5155.00	5175.00	-6673.97	-2346.43	-39.32	5171.61	199.16	26.04	PASS
7816.00†	7102.03	-1889.11	-2021.50	5155.00	5175.00	-6673.97	-2346.43	-39.32	5168.55	199.32	26.00	PASS

CLEARANCE DATA - Offset Wellbore: EHLER JOHN #1 AWB    Offset Wellpath: EHLER JOHN #1 AWP												
Facility: SEC.10-T01S-R67W				Slot: SLOT#02 EX EHLER JOHN #1 (660'FSL & 660'FWL, SEC.10, PA)				Well: EHLER JOHN #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
7916.00†	7188.33	-1923.61	-2058.42	5155.00	5175.00	-6673.97	-2346.43	-39.32	5167.43	199.42	25.99	PASS
8016.00†	7274.62	-1958.12	-2095.34	5155.00	5175.00	-6673.97	-2346.43	-39.32	5168.25	199.46	25.98	PASS
8085.19	7334.33	-1981.99	-2120.89	5155.00	5175.00	-6673.97	-2346.43	-39.32	5169.94	199.45	25.99	PASS
8116.00†	7360.64	-1993.39	-2132.14	5155.00	5175.00	-6673.97	-2346.43	-35.48	5170.19	199.43	26.00	PASS
8216.00†	7441.54	-2040.68	-2166.69	5155.00	5175.00	-6673.97	-2346.43	-25.91	5161.10	199.42	25.95	PASS
8316.00†	7513.69	-2102.53	-2197.41	5155.00	5175.00	-6673.97	-2346.43	-19.36	5137.10	199.60	25.81	PASS
8416.00†	7574.90	-2177.06	-2223.37	5155.00	5175.00	-6673.97	-2346.43	-14.50	5098.72	199.57	25.62	PASS
8516.00†	7623.30	-2261.99	-2243.79	5155.00	5175.00	-6673.97	-2346.43	-10.46	5046.81	199.34	25.39	PASS
8616.00†	7657.43	-2354.77	-2258.05	5155.00	5175.00	-6673.97	-2346.43	-6.54	4982.55	198.91	25.12	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #1 AWB Offset Wellpath: EHLER JOHN #1 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#02 EX EHLER JOHN #1 (660'FSL & 660'FWL, SEC.10, PA) Well: EHLER JOHN #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
8716.00†	7676.26	-2452.55	-2265.70	5155.00	5175.00	-6673.97	-2346.43	-1.95	4907.47	198.32	24.82	PASS
8784.36	7680.00	-2520.76	-2267.01	5155.00	5175.00	-6673.97	-2346.43	2.23	4850.83	197.80	24.59	PASS
8816.00†	7680.00	-2552.39	-2266.87	5155.00	5175.00	-6673.97	-2346.43	2.23	4823.77	197.52	24.49	PASS
8916.00†	7680.00	-2652.39	-2266.43	5155.00	5175.00	-6673.97	-2346.43	2.23	4738.62	196.58	24.17	PASS
9016.00†	7680.00	-2752.39	-2265.99	5155.00	5175.00	-6673.97	-2346.43	2.23	4654.06	195.59	23.86	PASS
9116.00†	7680.00	-2852.39	-2265.55	5155.00	5175.00	-6673.97	-2346.43	2.23	4570.13	194.55	23.56	PASS
9216.00†	7680.00	-2952.39	-2265.11	5155.00	5175.00	-6673.97	-2346.43	2.23	4486.85	193.46	23.26	PASS
9265.70†	7680.00	-3002.09	-2264.89	5155.00	5175.00	-6673.97	-2346.43	2.23	4445.71	225.83	19.73	PASS
9316.00†	7680.00	-3052.39	-2264.67	5155.00	5175.00	-6673.97	-2346.43	2.23	4404.27	192.31	22.97	PASS
9416.00†	7680.00	-3152.39	-2264.23	5155.00	5175.00	-6673.97	-2346.43	2.23	4322.42	191.10	22.68	PASS
9516.00†	7680.00	-3252.39	-2263.79	5155.00	5175.00	-6673.97	-2346.43	2.23	4241.36	189.83	22.41	PASS
9616.00†	7680.00	-3352.39	-2263.34	5155.00	5175.00	-6673.97	-2346.43	2.23	4161.11	188.49	22.14	PASS
9716.00†	7680.00	-3452.39	-2262.90	5155.00	5175.00	-6673.97	-2346.43	2.23	4081.74	187.08	21.88	PASS
9816.00†	7680.00	-3552.38	-2262.46	5155.00	5175.00	-6673.97	-2346.43	2.23	4003.30	185.59	21.64	PASS
9916.00†	7680.00	-3652.38	-2262.02	5155.00	5175.00	-6673.97	-2346.43	2.23	3925.83	184.02	21.40	PASS
10016.00†	7680.00	-3752.38	-2261.58	5155.00	5175.00	-6673.97	-2346.43	2.23	3849.41	182.37	21.17	PASS
10116.00†	7680.00	-3852.38	-2261.14	5155.00	5175.00	-6673.97	-2346.43	2.23	3774.08	180.63	20.96	PASS
10216.00†	7680.00	-3952.38	-2260.70	5155.00	5175.00	-6673.97	-2346.43	2.23	3699.93	178.79	20.76	PASS
10316.00†	7680.00	-4052.38	-2260.26	5155.00	5175.00	-6673.97	-2346.43	2.23	3627.01	176.86	20.57	PASS
10416.00†	7680.00	-4152.38	-2259.82	5155.00	5175.00	-6673.97	-2346.43	2.23	3555.41	174.82	20.40	PASS
10516.00†	7680.00	-4252.38	-2259.38	5155.00	5175.00	-6673.97	-2346.43	2.23	3485.22	172.67	20.25	PASS
10616.00†	7680.00	-4352.38	-2258.94	5155.00	5175.00	-6673.97	-2346.43	2.23	3416.50	170.41	20.11	PASS
10716.00†	7680.00	-4452.38	-2258.50	5155.00	5175.00	-6673.97	-2346.43	2.23	3349.37	168.03	20.00	PASS
10816.00†	7680.00	-4552.37	-2258.06	5155.00	5175.00	-6673.97	-2346.43	2.23	3283.90	165.53	19.91	PASS
10916.00†	7680.00	-4652.37	-2257.61	5155.00	5175.00	-6673.97	-2346.43	2.23	3220.21	162.91	19.83	PASS
11016.00†	7680.00	-4752.37	-2257.17	5155.00	5175.00	-6673.97	-2346.43	2.23	3158.41	160.15	19.79	PASS
11116.00†	7680.00	-4852.37	-2256.73	5155.00	5175.00	-6673.97	-2346.43	2.23	3098.60	157.27	19.77	PASS
11216.00†	7680.00	-4952.37	-2256.29	5155.00	5175.00	-6673.97	-2346.43	2.23	3040.90	154.26	19.78	PASS
11316.00†	7680.00	-5052.37	-2255.85	5155.00	5175.00	-6673.97	-2346.43	2.23	2985.44	151.11	19.83	PASS
11416.00†	7680.00	-5152.37	-2255.41	5155.00	5175.00	-6673.97	-2346.43	2.23	2932.34	147.84	19.91	PASS
11516.00†	7680.00	-5252.37	-2254.97	5155.00	5175.00	-6673.97	-2346.43	2.23	2881.73	144.45	20.03	PASS
11616.00†	7680.00	-5352.37	-2254.53	5155.00	5175.00	-6673.97	-2346.43	2.23	2833.75	140.95	20.18	PASS
11716.00†	7680.00	-5452.37	-2254.09	5155.00	5175.00	-6673.97	-2346.43	2.23	2788.53	137.34	20.39	PASS
11816.00†	7680.00	-5552.36	-2253.65	5155.00	5175.00	-6673.97	-2346.43	2.23	2746.20	133.64	20.63	PASS
11916.00†	7680.00	-5652.36	-2253.21	5155.00	5175.00	-6673.97	-2346.43	2.23	2706.92	129.88	20.93	PASS
12016.00†	7680.00	-5752.36	-2252.77	5155.00	5175.00	-6673.97	-2346.43	2.23	2670.80	126.08	21.28	PASS

CLEARANCE DATA - Offset Wellbore: EHLER JOHN #1 AWB    Offset Wellpath: EHLER JOHN #1 AWP												
Facility: SEC.10-T01S-R67W				Slot: SLOT#02 EX EHLER JOHN #1 (660'FSL & 660'FWL, SEC.10, PA)				Well: EHLER JOHN #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
12116.00†	7680.00	-5852.36	-2252.32	5155.00	5175.00	-6673.97	-2346.43	2.23	2637.98	122.28	21.67	PASS
12216.00†	7680.00	-5952.36	-2251.88	5155.00	5175.00	-6673.97	-2346.43	2.23	2608.58	118.52	22.11	PASS
12316.00†	7680.00	-6052.36	-2251.44	5155.00	5175.00	-6673.97	-2346.43	2.23	2582.72	114.88	22.59	PASS
12416.00†	7680.00	-6152.36	-2251.00	5155.00	5175.00	-6673.97	-2346.43	2.23	2560.51	111.44	23.09	PASS
12516.00†	7680.00	-6252.36	-2250.56	5155.00	5175.00	-6673.97	-2346.43	2.23	2542.04	108.30	23.59	PASS
12616.00†	7680.00	-6352.36	-2250.12	5155.00	5175.00	-6673.97	-2346.43	2.23	2527.40	105.62	24.06	PASS
12716.00†	7680.00	-6452.36	-2249.68	5155.00	5175.00	-6673.97	-2346.43	2.23	2516.64	103.58	24.43	PASS
12816.00†	7680.00	-6552.36	-2249.24	5155.00	5175.00	-6673.97	-2346.43	2.23	2509.83	102.37	24.65	PASS
12916.00†	7680.00	-6652.35	-2248.80	5155.00	5175.00	-6673.97	-2346.43	2.23	2506.99	102.17	24.67	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: EHLER JOHN #1 AWB Offset Wellpath: EHLER JOHN #1 AWP

Facility: SEC.10-T01S-R67W Slot: SLOT#02 EX EHLER JOHN #1 (660'FSL & 660'FWL, SEC.10, PA) Well: EHLER JOHN #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
12941.00†	7680.00	-6677.35	-2248.69	5155.00	5175.00	-6673.97	-2346.43	2.23	2506.91	102.29	24.64	PASS
13016.00†	7680.00	-6752.35	-2248.36	5155.00	5175.00	-6673.97	-2346.43	2.23	2508.14	103.06	24.47	PASS
13116.00†	7680.00	-6852.35	-2247.92	5155.00	5175.00	-6673.97	-2346.43	2.23	2513.27	105.01	24.06	PASS
13144.91	7680.00	-6881.26	-2247.79	5155.00	5175.00	-6673.97	-2346.43	2.23	2515.50	105.75	23.91	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: EHLER JOHN #1 AWB Offset Wellpath: EHLER JOHN #1 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: EHLER JOHN #1 AWB Offset Wellpath: EHLER JOHN #1 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	196.00	196.00	4.00	200.00	-4068.39	-1430.57	-4068.39	-1430.57
8.625in Casing Surface	0.00	196.00	196.00	4.00	200.00	-4068.39	-1430.57	-4068.39	-1430.57
7.875in Open Hole	196.00	5153.00	4957.00	200.00	5157.00	-4068.39	-1430.57	-4068.39	-1430.57
4.5in Casing Production	0.00	5153.00	5153.00	4.00	5157.00	-4068.39	-1430.57	-4068.39	-1430.57

## WELLPATH COMPOSITION - Offset Wellbore: EHLER JOHN #1 AWB Offset Wellpath: EHLER JOHN #1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5155.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE COGCC <5155>	EHLER JOHN #1 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: EHLER JOHN #1 AWB Offset Wellpath: EHLER JOHN #1 AWP

MD Reference: Rig on SLOT#02 EX EHLER JOHN #1 (660'FSL & 660'FWL, SEC.10, 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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #37C-3HZ AWP Offset Wellpath: GRENNYER #37C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#08 GRENNYER #37C-3HZ (522'FNL & 676'FEL, SEC.34) Well: GRENNYER #37C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	0.00	43.00	7726.55	1127.12	8.30	7808.37	25.57	317.35	PASS
116.00†	116.00	0.00	0.00	15438.03	7835.79	-209.88	875.28	103.48	7772.09	96.01	81.63	PASS
216.00†	216.00	0.00	0.00	15435.18	7835.87	-207.03	875.25	103.31	7672.77	95.99	80.61	PASS
316.00†	316.00	0.00	0.00	15432.34	7835.95	-204.19	875.21	103.13	7573.46	95.98	79.58	PASS
416.00†	416.00	0.00	0.00	15429.49	7836.03	-201.35	875.18	102.96	7474.18	95.96	78.55	PASS
516.00†	516.00	0.00	0.00	15426.65	7836.11	-198.50	875.15	102.78	7374.91	95.95	77.51	PASS
616.00†	616.00	0.00	0.00	15423.80	7836.19	-195.66	875.12	102.60	7275.67	95.95	76.47	PASS
716.00†	716.00	0.00	0.00	15420.96	7836.28	-192.82	875.09	102.43	7176.44	95.94	75.43	PASS
816.00†	816.00	0.00	0.00	15418.11	7836.36	-189.97	875.05	102.25	7077.23	95.74	74.39	PASS
916.00†	916.00	0.00	0.00	15415.27	7836.44	-187.13	875.02	102.07	6978.05	95.74	73.35	PASS
1016.00†	1016.00	0.00	0.00	15412.42	7836.52	-184.29	874.99	101.89	6878.88	95.75	72.30	PASS
1116.00†	1116.00	0.00	0.00	15409.58	7836.60	-181.44	874.96	101.72	6779.74	95.76	71.25	PASS
1216.00†	1216.00	0.00	0.00	15406.74	7836.68	-178.60	874.93	101.54	6680.63	95.77	70.20	PASS
1316.00†	1316.00	0.00	0.00	15403.89	7836.76	-175.76	874.89	101.36	6581.54	95.79	69.14	PASS
1416.00†	1416.00	0.00	0.00	15401.05	7836.84	-172.91	874.86	101.18	6482.48	95.81	68.08	PASS
1516.00†	1516.00	0.00	0.00	15398.20	7836.92	-170.07	874.83	101.00	6383.44	95.84	67.02	PASS
1600.00	1600.00	0.00	0.00	15395.81	7836.99	-167.68	874.80	100.85	6300.27	95.87	66.13	PASS
1616.00†	1616.00	-0.03	-0.03	15395.39	7837.00	-167.26	874.80	-127.88	6284.44	95.87	65.96	PASS
1716.00†	1715.97	-1.60	-1.72	15394.10	7837.04	-165.97	874.78	-137.18	6185.69	95.93	64.89	PASS
1816.00†	1815.80	-5.56	-5.95	15395.16	7837.01	-167.03	874.80	-143.87	6087.43	96.02	63.79	PASS
1916.00†	1915.36	-11.89	-12.72	15398.58	7836.91	-170.45	874.84	-148.73	5989.80	96.16	62.68	PASS
2016.00†	2014.54	-20.59	-22.03	15404.35	7836.75	-176.22	874.90	-152.35	5892.95	96.34	61.55	PASS
2116.00†	2113.21	-31.64	-33.86	15412.46	7836.52	-184.33	874.99	-155.08	5797.03	96.56	60.41	PASS
2216.00†	2211.26	-45.04	-48.20	15422.91	7836.22	-194.77	875.11	-157.19	5702.20	96.83	59.25	PASS
2316.00†	2308.57	-60.77	-65.03	15435.67	7835.86	-207.53	875.25	-158.84	5608.62	97.15	58.09	PASS
2416.00†	2405.01	-78.81	-84.34	15450.74	7835.43	-222.59	875.42	-160.14	5516.45	97.51	56.92	PASS
2516.00†	2500.47	-99.14	-106.09	15468.10	7834.93	-239.94	875.61	-161.16	5425.87	97.93	55.75	PASS
2616.00†	2594.84	-121.73	-130.26	15478.00	7834.65	-249.83	875.73	-162.17	5337.05	98.25	54.64	PASS
2716.00†	2687.99	-146.55	-156.82	15478.00	7834.65	-249.83	875.73	-163.21	5250.24	98.50	53.61	PASS
2816.00†	2779.81	-173.58	-185.74	15478.00	7834.65	-249.83	875.73	-164.11	5165.65	98.78	52.60	PASS
2916.00†	2870.20	-202.78	-216.99	15478.00	7834.65	-249.83	875.73	-164.88	5083.50	99.10	51.59	PASS
3016.00†	2959.04	-234.11	-250.52	15478.00	7834.65	-249.83	875.73	-165.55	5004.02	99.47	50.60	PASS
3116.00†	3046.23	-267.54	-286.29	15478.00	7834.65	-249.83	875.73	-166.13	4927.43	99.88	49.62	PASS
3117.60	3047.61	-268.10	-286.88	15478.00	7834.65	-249.83	875.73	-166.14	4926.24	99.88	49.61	PASS
3216.00†	3132.52	-302.05	-323.21	15478.00	7834.65	-249.83	875.73	-166.14	4852.86	100.30	48.66	PASS
3316.00†	3218.82	-336.55	-360.13	15478.00	7834.65	-249.83	875.73	-166.14	4779.21	100.76	47.70	PASS

CLEARANCE DATA - Offset Wellbore: GRENNYER #37C-3HZ AWB Offset Wellpath: GRENNYER #37C-3HZ AWP												
Facility: SEC.34-T01N-R67W				Slot: SLOT#08 GRENNYER #37C-3HZ (522'FNL & 676'FEL, SEC.34)				Well: GRENNYER #37C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	15478.00	7834.65	-249.83	875.73	-166.14	4706.53	101.25	46.75	PASS
3516.00†	3391.40	-405.55	-433.97	15478.00	7834.65	-249.83	875.73	-166.14	4634.87	101.78	45.80	PASS
3616.00†	3477.70	-440.05	-470.89	15478.00	7834.65	-249.83	875.73	-166.14	4564.28	102.34	44.85	PASS
3716.00†	3563.99	-474.55	-507.81	15478.00	7834.65	-249.83	875.73	-166.14	4494.80	102.94	43.91	PASS
3816.00†	3650.28	-509.05	-544.73	15478.00	7834.65	-249.83	875.73	-166.14	4426.49	103.57	42.98	PASS
3916.00†	3736.58	-543.56	-581.65	15478.00	7834.65	-249.83	875.73	-166.14	4359.41	104.23	42.05	PASS
4016.00†	3822.87	-578.06	-618.57	15478.00	7834.65	-249.83	875.73	-166.14	4293.60	104.93	41.14	PASS
4116.00†	3909.17	-612.56	-655.49	15478.00	7834.65	-249.83	875.73	-166.14	4229.14	105.66	40.24	PASS
4216.00†	3995.46	-647.06	-692.41	15478.00	7834.65	-249.83	875.73	-166.14	4166.08	106.43	39.36	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #37C-3HZ AWP Offset Wellpath: GRENNYER #37C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#08 GRENNYER #37C-3HZ (522'FNL & 676'FEL, SEC.34) Well: GRENNYER #37C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	15478.00	7834.65	-249.83	875.73	-166.14	4104.49	107.22	38.48	PASS
4416.00†	4168.05	-716.06	-766.25	15478.00	7834.65	-249.83	875.73	-166.14	4044.43	108.04	37.63	PASS
4516.00†	4254.34	-750.56	-803.16	15478.00	7834.65	-249.83	875.73	-166.14	3985.98	108.90	36.79	PASS
4616.00†	4340.63	-785.07	-840.08	15478.00	7834.65	-249.83	875.73	-166.14	3929.20	109.78	35.98	PASS
4716.00†	4426.93	-819.57	-877.00	15478.00	7834.65	-249.83	875.73	-166.14	3874.18	110.68	35.18	PASS
4816.00†	4513.22	-854.07	-913.92	15478.00	7834.65	-249.83	875.73	-166.14	3820.97	111.62	34.41	PASS
4916.00†	4599.52	-888.57	-950.84	15478.00	7834.65	-249.83	875.73	-166.14	3769.67	112.57	33.66	PASS
5016.00†	4685.81	-923.07	-987.76	15478.00	7834.65	-249.83	875.73	-166.14	3720.36	113.55	32.93	PASS
5116.00†	4772.10	-957.57	-1024.68	15478.00	7834.65	-249.83	875.73	-166.14	3673.10	114.54	32.23	PASS
5216.00†	4858.40	-992.07	-1061.60	15478.00	7834.65	-249.83	875.73	-166.14	3627.98	115.55	31.55	PASS
5316.00†	4944.69	-1026.58	-1098.52	15478.00	7834.65	-249.83	875.73	-166.14	3585.09	116.57	30.90	PASS
5416.00†	5030.98	-1061.08	-1135.44	15478.00	7834.65	-249.83	875.73	-166.14	3544.50	117.61	30.28	PASS
5516.00†	5117.28	-1095.58	-1172.36	15478.00	7834.65	-249.83	875.73	-166.14	3506.29	118.65	29.69	PASS
5616.00†	5203.57	-1130.08	-1209.28	15478.00	7834.65	-249.83	875.73	-166.14	3470.54	119.70	29.13	PASS
5716.00†	5289.87	-1164.58	-1246.20	15478.00	7834.65	-249.83	875.73	-166.14	3437.33	120.75	28.60	PASS
5816.00†	5376.16	-1199.08	-1283.12	15478.00	7834.65	-249.83	875.73	-166.14	3406.74	121.79	28.10	PASS
5916.00†	5462.45	-1233.59	-1320.04	15478.00	7834.65	-249.83	875.73	-166.14	3378.83	122.83	27.63	PASS
6016.00†	5548.75	-1268.09	-1356.96	15478.00	7834.65	-249.83	875.73	-166.14	3353.67	123.86	27.20	PASS
6116.00†	5635.04	-1302.59	-1393.87	15478.00	7834.65	-249.83	875.73	-166.14	3331.32	124.87	26.80	PASS
6216.00†	5721.33	-1337.09	-1430.79	15478.00	7834.65	-249.83	875.73	-166.14	3311.84	125.87	26.43	PASS
6316.00†	5807.63	-1371.59	-1467.71	15478.00	7834.65	-249.83	875.73	-166.14	3295.28	126.84	26.10	PASS
6416.00†	5893.92	-1406.09	-1504.63	15478.00	7834.65	-249.83	875.73	-166.14	3281.69	127.79	25.79	PASS
6516.00†	5980.22	-1440.59	-1541.55	15478.00	7834.65	-249.83	875.73	-166.14	3271.10	128.71	25.53	PASS
6616.00†	6066.51	-1475.10	-1578.47	15478.00	7834.65	-249.83	875.73	-166.14	3263.54	129.59	25.29	PASS
6716.00†	6152.80	-1509.60	-1615.39	15478.00	7834.65	-249.83	875.73	-166.14	3259.03	130.44	25.09	PASS
6812.80†	6236.33	-1542.99	-1651.13	15478.00	7834.65	-249.83	875.73	-166.14	3257.59	131.23	24.93	PASS
6816.00†	6239.10	-1544.10	-1652.31	15478.00	7834.65	-249.83	875.73	-166.14	3257.59	131.26	24.92	PASS
6916.00†	6325.39	-1578.60	-1689.23	15478.00	7834.65	-249.83	875.73	-166.14	3259.22	132.03	24.79	PASS
7016.00†	6411.68	-1613.10	-1726.15	15478.00	7834.65	-249.83	875.73	-166.14	3263.91	132.76	24.69	PASS
7116.00†	6497.98	-1647.60	-1763.07	15478.00	7834.65	-249.83	875.73	-166.14	3271.65	133.45	24.62	PASS
7216.00†	6584.27	-1682.10	-1799.99	15478.00	7834.65	-249.83	875.73	-166.14	3282.42	134.09	24.58	PASS
7316.00†	6670.57	-1716.61	-1836.91	15478.00	7834.65	-249.83	875.73	-166.14	3296.19	134.69	24.57	PASS
7416.00†	6756.86	-1751.11	-1873.83	15478.00	7834.65	-249.83	875.73	-166.14	3312.93	135.24	24.60	PASS
7516.00†	6843.15	-1785.61	-1910.75	15478.00	7834.65	-249.83	875.73	-166.14	3332.58	135.75	24.65	PASS
7616.00†	6929.45	-1820.11	-1947.66	15478.00	7834.65	-249.83	875.73	-166.14	3355.10	136.21	24.73	PASS
7716.00†	7015.74	-1854.61	-1984.58	15478.00	7834.65	-249.83	875.73	-166.14	3380.43	136.63	24.84	PASS

CLEARANCE DATA - Offset Wellbore: GRENNYER #37C-3HZ AWB Offset Wellpath: GRENNYER #37C-3HZ AWP												
Facility: SEC.34-T01N-R67W				Slot: SLOT#08 GRENNYER #37C-3HZ (522'FNL & 676'FEL, SEC.34)				Well: GRENNYER #37C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7816.00†	7102.03	-1889.11	-2021.50	15478.00	7834.65	-249.83	875.73	-166.14	3408.51	137.01	24.98	PASS
7916.00†	7188.33	-1923.61	-2058.42	15478.00	7834.65	-249.83	875.73	-166.14	3439.26	137.35	25.14	PASS
8016.00†	7274.62	-1958.12	-2095.34	15478.00	7834.65	-249.83	875.73	-166.14	3472.62	137.65	25.33	PASS
8085.19	7334.33	-1981.99	-2120.89	15478.00	7834.65	-249.83	875.73	-166.14	3497.20	137.84	25.48	PASS
8116.00†	7360.64	-1993.39	-2132.14	15478.00	7834.65	-249.83	875.73	-161.15	3508.84	137.91	25.55	PASS
8216.00†	7441.54	-2040.68	-2166.69	15478.00	7834.65	-249.83	875.73	-147.29	3552.17	138.09	25.83	PASS
8316.00†	7513.69	-2102.53	-2197.41	15478.00	7834.65	-249.83	875.73	-135.65	3602.73	138.15	26.18	PASS
8366.07†	7545.83	-2138.39	-2211.06	15478.00	7834.65	-249.83	875.73	-130.27	3630.19	184.43	19.74	PASS
8416.00†	7574.90	-2177.06	-2223.37	15478.00	7834.65	-249.83	875.73	-125.10	3658.70	138.06	26.61	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNYER #37C-3HZ AWP Offset Wellpath: GRENNYER #37C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#08 GRENNYER #37C-3HZ (522'FNL & 676'FEL, SEC.34) Well: GRENNYER #37C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8516.00†	7623.30	-2261.99	-2243.79	15478.00	7834.65	-249.83	875.73	-115.20	3718.18	137.81	27.09	PASS
8616.00†	7657.43	-2354.77	-2258.05	15478.00	7834.65	-249.83	875.73	-105.98	3779.24	137.42	27.61	PASS
8716.00†	7676.26	-2452.55	-2265.70	15478.00	7834.65	-249.83	875.73	-97.72	3840.00	136.93	28.16	PASS
8784.36	7680.00	-2520.76	-2267.01	15478.00	7834.65	-249.83	875.73	-92.81	3880.44	136.55	28.54	PASS
8816.00†	7680.00	-2552.39	-2266.87	15478.00	7834.65	-249.83	875.73	-92.81	3898.93	136.36	28.71	PASS
8916.00†	7680.00	-2652.39	-2266.43	15478.00	7834.65	-249.83	875.73	-92.81	3958.45	135.76	29.28	PASS
9016.00†	7680.00	-2752.39	-2265.99	15478.00	7834.65	-249.83	875.73	-92.81	4019.59	135.16	29.86	PASS
9116.00†	7680.00	-2852.39	-2265.55	15478.00	7834.65	-249.83	875.73	-92.81	4082.26	134.58	30.46	PASS
9216.00†	7680.00	-2952.39	-2265.11	15478.00	7834.65	-249.83	875.73	-92.81	4146.39	134.01	31.07	PASS
9316.00†	7680.00	-3052.39	-2264.67	15478.00	7834.65	-249.83	875.73	-92.81	4211.92	133.45	31.70	PASS
9416.00†	7680.00	-3152.39	-2264.23	15478.00	7834.65	-249.83	875.73	-92.81	4278.79	132.90	32.33	PASS
9516.00†	7680.00	-3252.39	-2263.79	15478.00	7834.65	-249.83	875.73	-92.81	4346.93	132.36	32.98	PASS
9616.00†	7680.00	-3352.39	-2263.34	15478.00	7834.65	-249.83	875.73	-92.81	4416.28	131.84	33.64	PASS
9716.00†	7680.00	-3452.39	-2262.90	15478.00	7834.65	-249.83	875.73	-92.81	4486.79	131.33	34.31	PASS
9816.00†	7680.00	-3552.38	-2262.46	15478.00	7834.65	-249.83	875.73	-92.81	4558.40	130.83	34.99	PASS
9916.00†	7680.00	-3652.38	-2262.02	15478.00	7834.65	-249.83	875.73	-92.81	4631.06	130.35	35.68	PASS
10016.00†	7680.00	-3752.38	-2261.58	15478.00	7834.65	-249.83	875.73	-92.81	4704.73	129.88	36.38	PASS
10116.00†	7680.00	-3852.38	-2261.14	15478.00	7834.65	-249.83	875.73	-92.81	4779.35	129.43	37.09	PASS
10216.00†	7680.00	-3952.38	-2260.70	15478.00	7834.65	-249.83	875.73	-92.81	4854.89	128.98	37.81	PASS
10316.00†	7680.00	-4052.38	-2260.26	15478.00	7834.65	-249.83	875.73	-92.81	4931.30	128.56	38.53	PASS
10416.00†	7680.00	-4152.38	-2259.82	15478.00	7834.65	-249.83	875.73	-92.81	5008.54	128.15	39.26	PASS
10516.00†	7680.00	-4252.38	-2259.38	15478.00	7834.65	-249.83	875.73	-92.81	5086.57	127.75	40.00	PASS
10616.00†	7680.00	-4352.38	-2258.94	15478.00	7834.65	-249.83	875.73	-92.81	5165.36	127.36	40.74	PASS
10716.00†	7680.00	-4452.38	-2258.50	15478.00	7834.65	-249.83	875.73	-92.81	5244.87	126.99	41.49	PASS
10816.00†	7680.00	-4552.37	-2258.06	15478.00	7834.65	-249.83	875.73	-92.81	5325.07	126.64	42.24	PASS
10916.00†	7680.00	-4652.37	-2257.61	15478.00	7834.65	-249.83	875.73	-92.81	5405.93	126.29	43.00	PASS
11016.00†	7680.00	-4752.37	-2257.17	15478.00	7834.65	-249.83	875.73	-92.81	5487.43	125.96	43.76	PASS
11116.00†	7680.00	-4852.37	-2256.73	15478.00	7834.65	-249.83	875.73	-92.81	5569.52	125.64	44.53	PASS
11216.00†	7680.00	-4952.37	-2256.29	15478.00	7834.65	-249.83	875.73	-92.81	5652.20	125.34	45.30	PASS
11316.00†	7680.00	-5052.37	-2255.85	15478.00	7834.65	-249.83	875.73	-92.81	5735.42	125.04	46.08	PASS
11416.00†	7680.00	-5152.37	-2255.41	15478.00	7834.65	-249.83	875.73	-92.81	5819.18	124.76	46.86	PASS
11516.00†	7680.00	-5252.37	-2254.97	15478.00	7834.65	-249.83	875.73	-92.81	5903.43	124.49	47.64	PASS
11616.00†	7680.00	-5352.37	-2254.53	15478.00	7834.65	-249.83	875.73	-92.81	5988.18	124.23	48.42	PASS
11716.00†	7680.00	-5452.37	-2254.09	15478.00	7834.65	-249.83	875.73	-92.81	6073.39	123.98	49.21	PASS
11816.00†	7680.00	-5552.36	-2253.65	15478.00	7834.65	-249.83	875.73	-92.81	6159.04	123.75	50.00	PASS
11916.00†	7680.00	-5652.36	-2253.21	15478.00	7834.65	-249.83	875.73	-92.81	6245.12	123.52	50.80	PASS

CLEARANCE DATA - Offset Wellbore: GRENNYER #37C-3HZ AWB Offset Wellpath: GRENNYER #37C-3HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#08 GRENNYER #37C-3HZ (522'FNL & 676'FEL, SEC.34)			Well: GRENNYER #37C-3HZ			Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12016.00†	7680.00	-5752.36	-2252.77	15478.00	7834.65	-249.83	875.73	-92.81	6331.61	123.30	51.59	PASS
12116.00†	7680.00	-5852.36	-2252.32	15478.00	7834.65	-249.83	875.73	-92.81	6418.49	123.09	52.39	PASS
12216.00†	7680.00	-5952.36	-2251.88	15478.00	7834.65	-249.83	875.73	-92.81	6505.74	122.89	53.19	PASS
12316.00†	7680.00	-6052.36	-2251.44	15478.00	7834.65	-249.83	875.73	-92.81	6593.36	122.71	53.99	PASS
12416.00†	7680.00	-6152.36	-2251.00	15478.00	7834.65	-249.83	875.73	-92.81	6681.33	122.53	54.79	PASS
12516.00†	7680.00	-6252.36	-2250.56	15478.00	7834.65	-249.83	875.73	-92.81	6769.63	122.35	55.59	PASS
12616.00†	7680.00	-6352.36	-2250.12	15478.00	7834.65	-249.83	875.73	-92.81	6858.25	122.19	56.39	PASS
12716.00†	7680.00	-6452.36	-2249.68	15478.00	7834.65	-249.83	875.73	-92.81	6947.19	122.04	57.20	PASS
12816.00†	7680.00	-6552.36	-2249.24	15478.00	7834.65	-249.83	875.73	-92.81	7036.41	121.89	58.00	PASS





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: GRENNEMYER #37C-3HZ AWB Offset Wellpath: GRENNEMYER #37C-3HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#08 GRENNEMYER #37C-3HZ (522'FNL & 676'FEL, SEC.34) Well: GRENNEMYER #37C-3HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12916.00†	7680.00	-6652.35	-2248.80	15478.00	7834.65	-249.83	875.73	-92.81	7125.93	121.75	58.81	PASS
13016.00†	7680.00	-6752.35	-2248.36	15478.00	7834.65	-249.83	875.73	-92.81	7215.72	121.62	59.61	PASS
13116.00†	7680.00	-6852.35	-2247.92	15478.00	7834.65	-249.83	875.73	-92.81	7305.77	121.49	60.42	PASS
13144.91	7680.00	-6881.26	-2247.79	15478.00	7834.65	-249.83	875.73	-92.81	7331.86	121.46	60.65	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: GRENNEMYER #37C-3HZ AWB Offset Wellpath: GRENNEMYER #37C-3HZ AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: GRENNEMYER #37C-3HZ AWB Offset Wellpath: GRENNEMYER #37C-3HZ 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	16.00	1094.00	1078.00	59.00	1136.99	4710.12	686.99	4709.56	687.01
9.625in Casing Surface	16.00	1094.00	1078.00	59.00	1136.99	4710.12	686.99	4709.56	687.01
8.75in Open Hole	1094.00	8184.00	7090.00	1136.99	7832.04	4709.56	687.01	4501.45	610.11
7in Casing Intermediate	16.00	8174.00	8158.00	59.00	7831.58	4710.12	686.99	4504.49	610.08
6.125in Open Hole	8184.00	15478.00	7294.00	7832.04	7834.65	4501.45	610.11	2278.92	610.47

## WELLPATH COMPOSITION - Offset Wellbore: GRENNEMYER #37C-3HZ AWB Offset Wellpath: GRENNEMYER #37C-3HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	1016.00	Generic gyro - continuous (Standard)	MS ENERGY GYRO SURVEYS <116-1016>	GRENNEMYER #37C-3HZ AWB
1016.00	8125.00	NaviTrak (Magcorr,IFR)	BHI MWD+ IFR SURVEYS 8.75" HOLE <1115-8125>	GRENNEMYER #37C-3HZ AWB
8125.00	15220.00	NaviTrak (Magcorr,IFR)	BHI MWD+ IFR SURVEYS 6.125" HOLE <8187-15220>	GRENNEMYER #37C-3HZ AWB
15220.00	15478.00	Blind Drilling (std)	Projection to bit	GRENNEMYER #37C-3HZ AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: GRENNEMYER #37C-3HZ AWB Offset Wellpath: GRENNEMYER #37C-3HZ AWP

MD Reference: Rig on SLOT#08 GRENNEMYER #37C-3HZ (522'FNL & 676'FEL, SEC.34) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft





# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: JOHN WEIGANDT B#1 AWB Offset Wellpath: JOHN WEIGANDT B#1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX JOHN WEIGANDT B#1 (531'FNL & 2101'FEL, SEC.03, PR) Well: JOHN WEIGANDT B#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
16.00	16.00	0.00	0.00	-16.00	36.00	2440.72	170.90	4.01	2446.78	25.56	99.42	PASS
116.00†	116.00	0.00	0.00	64.00	116.00	2440.72	170.90	4.01	2446.70	61.61	40.30	PASS
216.00†	216.00	0.00	0.00	164.00	216.00	2440.72	170.90	4.01	2446.70	63.64	39.00	PASS
316.00†	316.00	0.00	0.00	264.00	316.00	2440.72	170.90	4.01	2446.70	65.67	37.77	PASS
416.00†	416.00	0.00	0.00	364.00	416.00	2440.72	170.90	4.01	2446.70	67.54	36.62	PASS
516.00†	516.00	0.00	0.00	464.00	516.00	2440.72	170.90	4.01	2446.70	69.58	35.53	PASS
616.00†	616.00	0.00	0.00	564.00	616.00	2440.72	170.90	4.01	2446.70	71.63	34.51	PASS
716.00†	716.00	0.00	0.00	664.00	716.00	2440.72	170.90	4.01	2446.70	73.68	33.54	PASS
816.00†	816.00	0.00	0.00	764.00	816.00	2440.72	170.90	4.01	2446.70	75.53	32.62	PASS
916.00†	916.00	0.00	0.00	864.00	916.00	2440.72	170.90	4.01	2446.70	77.58	31.75	PASS
1016.00†	1016.00	0.00	0.00	964.00	1016.00	2440.72	170.90	4.01	2446.70	79.65	30.92	PASS
1116.00†	1116.00	0.00	0.00	1064.00	1116.00	2440.72	170.90	4.01	2446.70	81.71	30.14	PASS
1216.00†	1216.00	0.00	0.00	1164.00	1216.00	2440.72	170.90	4.01	2446.70	83.78	29.39	PASS
1316.00†	1316.00	0.00	0.00	1264.00	1316.00	2440.72	170.90	4.01	2446.70	85.85	28.67	PASS
1416.00†	1416.00	0.00	0.00	1364.00	1416.00	2440.72	170.90	4.01	2446.70	87.93	27.99	PASS
1516.00†	1516.00	0.00	0.00	1464.00	1516.00	2440.72	170.90	4.01	2446.70	90.01	27.34	PASS
1600.00	1600.00	0.00	0.00	1548.00	1600.00	2440.72	170.90	4.01	2446.70	91.76	26.82	PASS
1616.00†	1616.00	-0.03	-0.03	1564.00	1616.00	2440.72	170.90	137.07	2446.73	92.10	26.72	PASS
1716.00†	1715.97	-1.60	-1.72	1663.97	1715.97	2440.72	170.90	137.08	2448.42	94.19	26.14	PASS
1816.00†	1815.80	-5.56	-5.95	1763.80	1815.80	2440.72	170.90	137.12	2452.66	96.32	25.60	PASS
1916.00†	1915.36	-11.89	-12.72	1863.36	1915.36	2440.72	170.90	137.17	2459.47	98.44	25.12	PASS
2016.00†	2014.54	-20.59	-22.03	1962.54	2014.54	2440.72	170.90	137.24	2468.86	100.56	24.68	PASS
2116.00†	2113.21	-31.64	-33.86	2061.21	2113.21	2440.72	170.90	137.33	2480.83	102.68	24.28	PASS
2216.00†	2211.26	-45.04	-48.20	2159.26	2211.26	2440.72	170.90	137.43	2495.40	104.80	23.93	PASS
2316.00†	2308.57	-60.77	-65.03	2256.57	2308.57	2440.72	170.90	137.55	2512.60	106.93	23.61	PASS
2416.00†	2405.01	-78.81	-84.34	2353.01	2405.01	2440.72	170.90	137.68	2532.43	109.05	23.33	PASS
2516.00†	2500.47	-99.14	-106.09	2448.47	2500.47	2440.72	170.90	137.81	2554.92	111.17	23.09	PASS
2616.00†	2594.84	-121.73	-130.26	2542.84	2594.84	2440.72	170.90	137.94	2580.08	113.30	22.88	PASS
2716.00†	2687.99	-146.55	-156.82	2635.99	2687.99	2440.72	170.90	138.07	2607.94	115.44	22.69	PASS
2816.00†	2779.81	-173.58	-185.74	2727.81	2779.81	2440.72	170.90	138.20	2638.51	117.58	22.54	PASS
2916.00†	2870.20	-202.78	-216.99	2818.20	2870.20	2440.72	170.90	138.32	2671.80	119.72	22.41	PASS
3016.00†	2959.04	-234.11	-250.52	2907.04	2959.04	2440.72	170.90	138.43	2707.83	121.87	22.31	PASS
3116.00†	3046.23	-267.54	-286.29	2994.23	3046.23	2440.72	170.90	138.51	2746.58	124.02	22.24	PASS
3117.60	3047.61	-268.10	-286.88	2995.61	3047.61	2440.72	170.90	138.51	2747.23	124.05	22.24	PASS
3216.00†	3132.52	-302.05	-323.21	3080.52	3132.52	2440.72	170.90	139.15	2786.92	126.15	22.18	PASS
3316.00†	3218.82	-336.55	-360.13	3166.82	3218.82	2440.72	170.90	139.79	2827.58	128.31	22.13	PASS

CLEARANCE DATA - Offset Wellbore: JOHN WEIGANDT B#1 AWB    Offset Wellpath: JOHN WEIGANDT B#1 AWP												
Facility: SEC.03-T01S-R67W			Slot: SLOT#01 EX JOHN WEIGANDT B#1 (531'FNL & 2101'FEL, SEC.03, PR)				Well: JOHN WEIGANDT B#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
3416.00†	3305.11	-371.05	-397.05	3253.11	3305.11	2440.72	170.90	140.40	2868.56	130.48	22.07	PASS
3516.00†	3391.40	-405.55	-433.97	3339.40	3391.40	2440.72	170.90	141.00	2909.83	132.67	22.02	PASS
3616.00†	3477.70	-440.05	-470.89	3425.70	3477.70	2440.72	170.90	141.59	2951.40	134.87	21.97	PASS
3716.00†	3563.99	-474.55	-507.81	3511.99	3563.99	2440.72	170.90	142.16	2993.24	137.08	21.92	PASS
3816.00†	3650.28	-509.05	-544.73	3598.28	3650.28	2440.72	170.90	142.72	3035.34	139.31	21.87	PASS
3916.00†	3736.58	-543.56	-581.65	3684.58	3736.58	2440.72	170.90	143.26	3077.70	141.54	21.82	PASS
4016.00†	3822.87	-578.06	-618.57	3770.87	3822.87	2440.72	170.90	143.79	3120.30	143.78	21.78	PASS
4116.00†	3909.17	-612.56	-655.49	3857.17	3909.17	2440.72	170.90	144.31	3163.14	146.03	21.74	PASS
4216.00†	3995.46	-647.06	-692.41	3943.46	3995.46	2440.72	170.90	144.81	3206.20	148.28	21.70	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: JOHN WEIGANDT B#1 AWB Offset Wellpath: JOHN WEIGANDT B#1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX JOHN WEIGANDT B#1 (531'FNL & 2101'FEL, SEC.03, PR) Well: JOHN WEIGANDT B#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
4316.00†	4081.75	-681.56	-729.33	4029.75	4081.75	2440.72	170.90	145.30	3249.47	150.54	21.66	PASS
4416.00†	4168.05	-716.06	-766.25	4116.05	4168.05	2440.72	170.90	145.78	3292.95	152.80	21.62	PASS
4516.00†	4254.34	-750.56	-803.16	4202.34	4254.34	2440.72	170.90	146.25	3336.63	155.07	21.59	PASS
4616.00†	4340.63	-785.07	-840.08	4288.63	4340.63	2440.72	170.90	146.71	3380.50	157.33	21.56	PASS
4716.00†	4426.93	-819.57	-877.00	4374.93	4426.93	2440.72	170.90	147.16	3424.56	159.60	21.53	PASS
4816.00†	4513.22	-854.07	-913.92	4461.22	4513.22	2440.72	170.90	147.59	3468.79	161.87	21.50	PASS
4916.00†	4599.52	-888.57	-950.84	4547.52	4599.52	2440.72	170.90	148.02	3513.19	164.14	21.47	PASS
5016.00†	4685.81	-923.07	-987.76	4633.81	4685.81	2440.72	170.90	148.43	3557.75	166.41	21.45	PASS
5116.00†	4772.10	-957.57	-1024.68	4720.10	4772.10	2440.72	170.90	148.84	3602.47	168.68	21.42	PASS
5216.00†	4858.40	-992.07	-1061.60	4806.40	4858.40	2440.72	170.90	149.24	3647.35	170.96	21.40	PASS
5316.00†	4944.69	-1026.58	-1098.52	4892.69	4944.69	2440.72	170.90	149.62	3692.37	173.23	21.38	PASS
5416.00†	5030.98	-1061.08	-1135.44	4978.98	5030.98	2440.72	170.90	150.00	3737.53	175.50	21.36	PASS
5516.00†	5117.28	-1095.58	-1172.36	5065.28	5117.28	2440.72	170.90	150.37	3782.82	177.77	21.34	PASS
5556.23†	5152.00	-1109.46	-1187.21	5100.00	5152.00	2440.72	170.90	150.52	3801.09	178.73	21.33	PASS
5616.00†	5203.57	-1130.08	-1209.28	5100.00	5152.00	2440.72	170.90	150.52	3828.60	178.97	21.46	PASS
5716.00†	5289.87	-1164.58	-1246.20	5100.00	5152.00	2440.72	170.90	150.52	3876.26	179.31	21.68	PASS
5816.00†	5376.16	-1199.08	-1283.12	5100.00	5152.00	2440.72	170.90	150.52	3925.89	179.57	21.93	PASS
5916.00†	5462.45	-1233.59	-1320.04	5100.00	5152.00	2440.72	170.90	150.52	3977.41	179.76	22.20	PASS
6016.00†	5548.75	-1268.09	-1356.96	5100.00	5152.00	2440.72	170.90	150.52	4030.76	179.87	22.48	PASS
6116.00†	5635.04	-1302.59	-1393.87	5100.00	5152.00	2440.72	170.90	150.52	4085.85	179.91	22.78	PASS
6216.00†	5721.33	-1337.09	-1430.79	5100.00	5152.00	2440.72	170.90	150.52	4142.63	179.90	23.10	PASS
6316.00†	5807.63	-1371.59	-1467.71	5100.00	5152.00	2440.72	170.90	150.52	4201.03	179.83	23.43	PASS
6416.00†	5893.92	-1406.09	-1504.63	5100.00	5152.00	2440.72	170.90	150.52	4260.97	179.71	23.78	PASS
6516.00†	5980.22	-1440.59	-1541.55	5100.00	5152.00	2440.72	170.90	150.52	4322.39	179.54	24.15	PASS
6616.00†	6066.51	-1475.10	-1578.47	5100.00	5152.00	2440.72	170.90	150.52	4385.23	179.34	24.53	PASS
6716.00†	6152.80	-1509.60	-1615.39	5100.00	5152.00	2440.72	170.90	150.52	4449.43	179.09	24.92	PASS
6816.00†	6239.10	-1544.10	-1652.31	5100.00	5152.00	2440.72	170.90	150.52	4514.94	178.82	25.33	PASS
6916.00†	6325.39	-1578.60	-1689.23	5100.00	5152.00	2440.72	170.90	150.52	4581.69	178.52	25.75	PASS
7016.00†	6411.68	-1613.10	-1726.15	5100.00	5152.00	2440.72	170.90	150.52	4649.63	178.19	26.18	PASS
7116.00†	6497.98	-1647.60	-1763.07	5100.00	5152.00	2440.72	170.90	150.52	4718.72	177.84	26.62	PASS
7216.00†	6584.27	-1682.10	-1799.99	5100.00	5152.00	2440.72	170.90	150.52	4788.89	177.47	27.07	PASS
7316.00†	6670.57	-1716.61	-1836.91	5100.00	5152.00	2440.72	170.90	150.52	4860.11	177.09	27.53	PASS
7416.00†	6756.86	-1751.11	-1873.83	5100.00	5152.00	2440.72	170.90	150.52	4932.33	176.69	28.00	PASS
7516.00†	6843.15	-1785.61	-1910.75	5100.00	5152.00	2440.72	170.90	150.52	5005.51	176.28	28.49	PASS
7616.00†	6929.45	-1820.11	-1947.66	5100.00	5152.00	2440.72	170.90	150.52	5079.60	175.86	28.98	PASS
7716.00†	7015.74	-1854.61	-1984.58	5100.00	5152.00	2440.72	170.90	150.52	5154.56	175.44	29.48	PASS

CLEARANCE DATA - Offset Wellbore: JOHN WEIGANDT B#1 AWB    Offset Wellpath: JOHN WEIGANDT B#1 AWP												
Facility: SEC.03-T01S-R67W			Slot: SLOT#01 EX JOHN WEIGANDT B#1 (531'FNL & 2101'FEL, SEC.03, PR)				Well: JOHN WEIGANDT B#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
7816.00†	7102.03	-1889.11	-2021.50	5100.00	5152.00	2440.72	170.90	150.52	5230.37	175.01	29.98	PASS
7916.00†	7188.33	-1923.61	-2058.42	5100.00	5152.00	2440.72	170.90	150.52	5306.97	174.58	30.50	PASS
8016.00†	7274.62	-1958.12	-2095.34	5100.00	5152.00	2440.72	170.90	150.52	5384.34	174.15	31.02	PASS
8085.19	7334.33	-1981.99	-2120.89	5100.00	5152.00	2440.72	170.90	150.52	5438.31	173.85	31.38	PASS
8116.00†	7360.64	-1993.39	-2132.14	5100.00	5152.00	2440.72	170.90	155.94	5462.91	173.72	31.55	PASS
8216.00†	7441.54	-2040.68	-2166.69	5100.00	5152.00	2440.72	170.90	173.07	5548.81	173.40	32.11	PASS
8316.00†	7513.69	-2102.53	-2197.41	5100.00	5152.00	2440.72	170.90	-165.13	5641.60	173.20	32.68	PASS
8416.00†	7574.90	-2177.06	-2223.37	5100.00	5152.00	2440.72	170.90	-128.01	5738.19	173.01	33.28	PASS
8516.00†	7623.30	-2261.99	-2243.79	5100.00	5152.00	2440.72	170.90	-84.47	5835.55	172.88	33.87	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: JOHN WEIGANDT B#1 AWB Offset Wellpath: JOHN WEIGANDT B#1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX JOHN WEIGANDT B#1 (531'FNL & 2101'FEL, SEC.03, PR) Well: JOHN WEIGANDT B#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
8616.00†	7657.43	-2354.77	-2258.05	5100.00	5152.00	2440.72	170.90	-60.08	5930.74	172.84	34.43	PASS
8716.00†	7676.26	-2452.55	-2265.70	5100.00	5152.00	2440.72	170.90	-48.58	6021.05	172.95	34.93	PASS
8784.36	7680.00	-2520.76	-2267.01	5100.00	5152.00	2440.72	170.90	-44.22	6078.69	173.08	35.24	PASS
8816.00†	7680.00	-2552.39	-2266.87	5100.00	5152.00	2440.72	170.90	-44.22	6104.48	173.13	35.38	PASS
8916.00†	7680.00	-2652.39	-2266.43	5100.00	5152.00	2440.72	170.90	-44.22	6186.37	173.24	35.83	PASS
9016.00†	7680.00	-2752.39	-2265.99	5100.00	5152.00	2440.72	170.90	-44.22	6268.78	173.36	36.28	PASS
9116.00†	7680.00	-2852.39	-2265.55	5100.00	5152.00	2440.72	170.90	-44.22	6351.70	173.48	36.73	PASS
9216.00†	7680.00	-2952.39	-2265.11	5100.00	5152.00	2440.72	170.90	-44.22	6435.10	173.60	37.19	PASS
9316.00†	7680.00	-3052.39	-2264.67	5100.00	5152.00	2440.72	170.90	-44.22	6518.97	173.73	37.65	PASS
9416.00†	7680.00	-3152.39	-2264.23	5100.00	5152.00	2440.72	170.90	-44.22	6603.29	173.85	38.11	PASS
9516.00†	7680.00	-3252.39	-2263.79	5100.00	5152.00	2440.72	170.90	-44.22	6688.05	173.98	38.57	PASS
9616.00†	7680.00	-3352.39	-2263.34	5100.00	5152.00	2440.72	170.90	-44.22	6773.21	174.12	39.03	PASS
9716.00†	7680.00	-3452.39	-2262.90	5100.00	5152.00	2440.72	170.90	-44.22	6858.78	174.25	39.49	PASS
9816.00†	7680.00	-3552.38	-2262.46	5100.00	5152.00	2440.72	170.90	-44.22	6944.74	174.39	39.95	PASS
9916.00†	7680.00	-3652.38	-2262.02	5100.00	5152.00	2440.72	170.90	-44.22	7031.06	174.53	40.42	PASS
10016.00†	7680.00	-3752.38	-2261.58	5100.00	5152.00	2440.72	170.90	-44.22	7117.74	174.67	40.88	PASS
10116.00†	7680.00	-3852.38	-2261.14	5100.00	5152.00	2440.72	170.90	-44.22	7204.77	174.81	41.35	PASS
10216.00†	7680.00	-3952.38	-2260.70	5100.00	5152.00	2440.72	170.90	-44.22	7292.13	174.96	41.82	PASS
10316.00†	7680.00	-4052.38	-2260.26	5100.00	5152.00	2440.72	170.90	-44.22	7379.82	175.10	42.28	PASS
10416.00†	7680.00	-4152.38	-2259.82	5100.00	5152.00	2440.72	170.90	-44.22	7467.81	175.25	42.75	PASS
10516.00†	7680.00	-4252.38	-2259.38	5100.00	5152.00	2440.72	170.90	-44.22	7556.10	175.40	43.22	PASS
10616.00†	7680.00	-4352.38	-2258.94	5100.00	5152.00	2440.72	170.90	-44.22	7644.68	175.55	43.69	PASS
10716.00†	7680.00	-4452.38	-2258.50	5100.00	5152.00	2440.72	170.90	-44.22	7733.53	175.70	44.16	PASS
10816.00†	7680.00	-4552.37	-2258.06	5100.00	5152.00	2440.72	170.90	-44.22	7822.66	175.85	44.63	PASS
10916.00†	7680.00	-4652.37	-2257.61	5100.00	5152.00	2440.72	170.90	-44.22	7912.04	176.01	45.10	PASS
11016.00†	7680.00	-4752.37	-2257.17	5100.00	5152.00	2440.72	170.90	-44.22	8001.68	176.16	45.57	PASS
11116.00†	7680.00	-4852.37	-2256.73	5100.00	5152.00	2440.72	170.90	-44.22	8091.56	176.32	46.04	PASS
11216.00†	7680.00	-4952.37	-2256.29	5100.00	5152.00	2440.72	170.90	-44.22	8181.68	176.47	46.51	PASS
11316.00†	7680.00	-5052.37	-2255.85	5100.00	5152.00	2440.72	170.90	-44.22	8272.02	176.63	46.98	PASS
11416.00†	7680.00	-5152.37	-2255.41	5100.00	5152.00	2440.72	170.90	-44.22	8362.58	176.79	47.46	PASS
11516.00†	7680.00	-5252.37	-2254.97	5100.00	5152.00	2440.72	170.90	-44.22	8453.36	176.95	47.93	PASS
11616.00†	7680.00	-5352.37	-2254.53	5100.00	5152.00	2440.72	170.90	-44.22	8544.34	177.11	48.40	PASS
11716.00†	7680.00	-5452.37	-2254.09	5100.00	5152.00	2440.72	170.90	-44.22	8635.52	177.27	48.87	PASS
11816.00†	7680.00	-5552.36	-2253.65	5100.00	5152.00	2440.72	170.90	-44.22	8726.89	177.43	49.34	PASS
11916.00†	7680.00	-5652.36	-2253.21	5100.00	5152.00	2440.72	170.90	-44.22	8818.45	177.60	49.81	PASS
12016.00†	7680.00	-5752.36	-2252.77	5100.00	5152.00	2440.72	170.90	-44.22	8910.19	177.76	50.29	PASS

CLEARANCE DATA - Offset Wellbore: JOHN WEIGANDT B#1 AWB    Offset Wellpath: JOHN WEIGANDT B#1 AWP												
Facility: SEC.03-T01S-R67W			Slot: SLOT#01 EX JOHN WEIGANDT B#1 (531'FNL & 2101'FEL, SEC.03, PR)				Well: JOHN WEIGANDT B#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
12116.00†	7680.00	-5852.36	-2252.32	5100.00	5152.00	2440.72	170.90	-44.22	9002.11	177.92	50.76	PASS
12216.00†	7680.00	-5952.36	-2251.88	5100.00	5152.00	2440.72	170.90	-44.22	9094.20	178.09	51.23	PASS
12316.00†	7680.00	-6052.36	-2251.44	5100.00	5152.00	2440.72	170.90	-44.22	9186.45	178.25	51.70	PASS
12416.00†	7680.00	-6152.36	-2251.00	5100.00	5152.00	2440.72	170.90	-44.22	9278.87	178.42	52.17	PASS
12516.00†	7680.00	-6252.36	-2250.56	5100.00	5152.00	2440.72	170.90	-44.22	9371.44	178.59	52.64	PASS
12616.00†	7680.00	-6352.36	-2250.12	5100.00	5152.00	2440.72	170.90	-44.22	9464.16	178.75	53.12	PASS
12716.00†	7680.00	-6452.36	-2249.68	5100.00	5152.00	2440.72	170.90	-44.22	9557.03	178.92	53.59	PASS
12816.00†	7680.00	-6552.36	-2249.24	5100.00	5152.00	2440.72	170.90	-44.22	9650.04	179.09	54.06	PASS
12916.00†	7680.00	-6652.35	-2248.80	5100.00	5152.00	2440.72	170.90	-44.22	9743.19	179.25	54.53	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: JOHN WEIGANDT B#1 AWB Offset Wellpath: JOHN WEIGANDT B#1 AWP

Facility: SEC.03-T01S-R67W Slot: SLOT#01 EX JOHN WEIGANDT B#1 (531'FNL & 2101'FEL, SEC.03, PR) Well: JOHN WEIGANDT B#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
13016.00†	7680.00	-6752.35	-2248.36	5100.00	5152.00	2440.72	170.90	-44.22	9836.47	179.42	55.00	PASS
13116.00†	7680.00	-6852.35	-2247.92	5100.00	5152.00	2440.72	170.90	-44.22	9929.89	179.59	55.47	PASS
13144.91	7680.00	-6881.26	-2247.79	5100.00	5152.00	2440.72	170.90	-44.22	9956.92	179.64	55.60	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: JOHN WEIGANDT B#1 AWB Offset Wellpath: JOHN WEIGANDT B#1 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: JOHN WEIGANDT B#1 AWB Offset Wellpath: JOHN WEIGANDT B#1 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	276.00	276.00	36.00	312.00	1487.86	104.18	1487.86	104.18
8.625in Casing Surface	0.00	276.00	276.00	36.00	312.00	1487.86	104.18	1487.86	104.18
7.875in Open Hole	276.00	5077.00	4801.00	312.00	5113.00	1487.86	104.18	1487.86	104.18
4.5in Casing Production	0.00	5077.00	5077.00	36.00	5113.00	1487.86	104.18	1487.86	104.18

## WELLPATH COMPOSITION - Offset Wellbore: JOHN WEIGANDT B#1 AWB Offset Wellpath: JOHN WEIGANDT B#1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5100.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO SURFACE-COGCC <5100>	JOHN WEIGANDT B#1 AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: JOHN WEIGANDT B#1 AWB Offset Wellpath: JOHN WEIGANDT B#1 AWP

MD Reference: Rig on SLOT#01 JOHN WEIGANDY B#1 (531'FNL & 2101'FEL, SEC.03) (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

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WAGNER #34N-34HZ AWB Offset Wellpath: WAGNER #34N-34HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#10 WAGNER #34N-34HZ (850'FNL & 526'FWL, SEC.34) Well: WAGNER #34N-34HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	0.00	38.00	7385.68	-2941.72	-21.72	7950.00	25.57	323.11	PASS
116.00†	116.00	0.00	0.00	99.28	137.28	7385.64	-2941.52	-21.72	7949.89	60.36	133.83	PASS
216.00†	216.00	0.00	0.00	167.91	205.91	7385.66	-2941.20	-21.71	7949.77	60.37	133.81	PASS
316.00†	316.00	0.00	0.00	237.58	275.57	7385.99	-2941.13	-21.71	7950.14	60.38	133.79	PASS
416.00†	416.00	0.00	0.00	376.99	414.98	7386.37	-2941.43	-21.71	7950.51	60.40	133.74	PASS
516.00†	516.00	0.00	0.00	475.61	513.61	7386.31	-2941.31	-21.71	7950.41	60.43	133.67	PASS
616.00†	616.00	0.00	0.00	583.99	621.98	7386.55	-2940.96	-21.71	7950.50	60.47	133.59	PASS
716.00†	716.00	0.00	0.00	671.81	709.81	7386.52	-2940.83	-21.71	7950.42	60.51	133.50	PASS
816.00†	816.00	0.00	0.00	745.25	783.25	7386.77	-2940.71	-21.71	7950.67	60.34	133.42	PASS
916.00†	916.00	0.00	0.00	837.61	875.60	7387.17	-2941.09	-21.71	7951.22	60.39	133.32	PASS
1016.00†	1016.00	0.00	0.00	967.93	1005.92	7387.25	-2941.34	-21.71	7951.29	60.45	133.18	PASS
1116.00†	1116.00	0.00	0.00	1043.64	1081.63	7387.47	-2941.37	-21.71	7951.57	60.51	133.06	PASS
1216.00†	1216.00	0.00	0.00	12098.00	7638.03	3453.82	-3153.59	-42.40	7944.59	81.82	97.82	PASS
1316.00†	1316.00	0.00	0.00	12098.00	7638.03	3453.82	-3153.59	-42.40	7863.97	82.13	96.46	PASS
1416.00†	1416.00	0.00	0.00	12098.00	7638.03	3453.82	-3153.59	-42.40	7783.81	82.45	95.10	PASS
1516.00†	1516.00	0.00	0.00	12098.00	7638.03	3453.82	-3153.59	-42.40	7704.11	82.79	93.74	PASS
1600.00	1600.00	0.00	0.00	12098.00	7638.03	3453.82	-3153.59	-42.40	7637.53	83.07	92.61	PASS
1616.00†	1616.00	-0.03	-0.03	12098.00	7638.03	3453.82	-3153.59	91.08	7624.88	83.13	92.39	PASS
1716.00†	1715.97	-1.60	-1.72	12098.00	7638.03	3453.82	-3153.59	93.62	7546.20	83.47	91.06	PASS
1816.00†	1815.80	-5.56	-5.95	12098.00	7638.03	3453.82	-3153.59	96.11	7468.16	83.80	89.76	PASS
1916.00†	1915.36	-11.89	-12.72	12098.00	7638.03	3453.82	-3153.59	98.53	7390.88	84.13	88.48	PASS
2016.00†	2014.54	-20.59	-22.03	12098.00	7638.03	3453.82	-3153.59	100.86	7314.49	84.45	87.24	PASS
2116.00†	2113.21	-31.64	-33.86	12098.00	7638.03	3453.82	-3153.59	103.10	7239.11	84.76	86.02	PASS
2216.00†	2211.26	-45.04	-48.20	12098.00	7638.03	3453.82	-3153.59	105.25	7164.86	85.07	84.82	PASS
2316.00†	2308.57	-60.77	-65.03	12098.00	7638.03	3453.82	-3153.59	107.30	7091.88	85.39	83.64	PASS
2416.00†	2405.01	-78.81	-84.34	12098.00	7638.03	3453.82	-3153.59	109.25	7020.28	85.71	82.49	PASS
2516.00†	2500.47	-99.14	-106.09	12098.00	7638.03	3453.82	-3153.59	111.09	6950.20	86.04	81.35	PASS
2616.00†	2594.84	-121.73	-130.26	12098.00	7638.03	3453.82	-3153.59	112.84	6881.78	86.39	80.22	PASS
2716.00†	2687.99	-146.55	-156.82	12098.00	7638.03	3453.82	-3153.59	114.47	6815.15	86.77	79.09	PASS
2816.00†	2779.81	-173.58	-185.74	12098.00	7638.03	3453.82	-3153.59	116.01	6750.44	87.18	77.97	PASS
2916.00†	2870.20	-202.78	-216.99	12098.00	7638.03	3453.82	-3153.59	117.44	6687.79	87.63	76.85	PASS
3016.00†	2959.04	-234.11	-250.52	12098.00	7638.03	3453.82	-3153.59	118.78	6627.34	88.12	75.72	PASS
3116.00†	3046.23	-267.54	-286.29	12098.00	7638.03	3453.82	-3153.59	120.03	6569.21	88.68	74.59	PASS
3117.60	3047.61	-268.10	-286.88	12098.00	7638.03	3453.82	-3153.59	120.05	6568.31	88.68	74.57	PASS
3216.00†	3132.52	-302.05	-323.21	12098.00	7638.03	3453.82	-3153.59	120.05	6512.85	89.27	73.45	PASS
3316.00†	3218.82	-336.55	-360.13	12098.00	7638.03	3453.82	-3153.59	120.05	6457.53	89.93	72.29	PASS



CLEARANCE DATA - Offset Wellbore: WAGNER #34N-34HZ AWB Offset Wellpath: WAGNER #34N-34HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#10 WAGNER #34N-34HZ (850'FNL & 526'FWL, SEC.34)			Well: WAGNER #34N-34HZ		Threshold Value=1.00 † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
3416.00†	3305.11	-371.05	-397.05	12098.00	7638.03	3453.82	-3153.59	120.05	6403.31	90.64	71.12	PASS
3516.00†	3391.40	-405.55	-433.97	12098.00	7638.03	3453.82	-3153.59	120.05	6350.19	91.40	69.94	PASS
3616.00†	3477.70	-440.05	-470.89	12098.00	7638.03	3453.82	-3153.59	120.05	6298.21	92.20	68.76	PASS
3716.00†	3563.99	-474.55	-507.81	12098.00	7638.03	3453.82	-3153.59	120.05	6247.40	93.04	67.58	PASS
3816.00†	3650.28	-509.05	-544.73	12098.00	7638.03	3453.82	-3153.59	120.05	6197.79	93.93	66.41	PASS
3916.00†	3736.58	-543.56	-581.65	12098.00	7638.03	3453.82	-3153.59	120.05	6149.41	94.85	65.25	PASS
4016.00†	3822.87	-578.06	-618.57	12098.00	7638.03	3453.82	-3153.59	120.05	6102.28	95.80	64.10	PASS
4116.00†	3909.17	-612.56	-655.49	12098.00	7638.03	3453.82	-3153.59	120.05	6056.43	96.79	62.96	PASS
4216.00†	3995.46	-647.06	-692.41	12098.00	7638.03	3453.82	-3153.59	120.05	6011.90	97.80	61.85	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WAGNER #34N-34HZ AWB Offset Wellpath: WAGNER #34N-34HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#10 WAGNER #34N-34HZ (850'FNL & 526'FWL, SEC.34) Well: WAGNER #34N-34HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4081.75	-681.56	-729.33	12098.00	7638.03	3453.82	-3153.59	120.05	5968.71	98.84	60.75	PASS
4416.00†	4168.05	-716.06	-766.25	12098.00	7638.03	3453.82	-3153.59	120.05	5926.90	99.91	59.68	PASS
4516.00†	4254.34	-750.56	-803.16	12098.00	7638.03	3453.82	-3153.59	120.05	5886.49	101.00	58.63	PASS
4616.00†	4340.63	-785.07	-840.08	12098.00	7638.03	3453.82	-3153.59	120.05	5847.50	102.11	57.61	PASS
4716.00†	4426.93	-819.57	-877.00	12098.00	7638.03	3453.82	-3153.59	120.05	5809.98	103.23	56.61	PASS
4816.00†	4513.22	-854.07	-913.92	12098.00	7638.03	3453.82	-3153.59	120.05	5773.95	104.37	55.64	PASS
4916.00†	4599.52	-888.57	-950.84	12098.00	7638.03	3453.82	-3153.59	120.05	5739.43	105.53	54.70	PASS
5016.00†	4685.81	-923.07	-987.76	12098.00	7638.03	3453.82	-3153.59	120.05	5706.45	106.69	53.79	PASS
5116.00†	4772.10	-957.57	-1024.68	12098.00	7638.03	3453.82	-3153.59	120.05	5675.05	107.87	52.90	PASS
5216.00†	4858.40	-992.07	-1061.60	12098.00	7638.03	3453.82	-3153.59	120.05	5645.24	109.06	52.05	PASS
5316.00†	4944.69	-1026.58	-1098.52	12098.00	7638.03	3453.82	-3153.59	120.05	5617.06	110.25	51.23	PASS
5416.00†	5030.98	-1061.08	-1135.44	12098.00	7638.03	3453.82	-3153.59	120.05	5590.52	111.44	50.44	PASS
5516.00†	5117.28	-1095.58	-1172.36	12098.00	7638.03	3453.82	-3153.59	120.05	5565.66	112.64	49.67	PASS
5616.00†	5203.57	-1130.08	-1209.28	12098.00	7638.03	3453.82	-3153.59	120.05	5542.48	113.84	48.94	PASS
5716.00†	5289.87	-1164.58	-1246.20	12098.00	7638.03	3453.82	-3153.59	120.05	5521.02	115.04	48.24	PASS
5816.00†	5376.16	-1199.08	-1283.12	12098.00	7638.03	3453.82	-3153.59	120.05	5501.30	116.24	47.57	PASS
5916.00†	5462.45	-1233.59	-1320.04	12098.00	7638.03	3453.82	-3153.59	120.05	5483.32	117.43	46.93	PASS
6016.00†	5548.75	-1268.09	-1356.96	12098.00	7638.03	3453.82	-3153.59	120.05	5467.12	118.62	46.32	PASS
6116.00†	5635.04	-1302.59	-1393.87	12098.00	7638.03	3453.82	-3153.59	120.05	5452.71	119.81	45.74	PASS
6216.00†	5721.33	-1337.09	-1430.79	12098.00	7638.03	3453.82	-3153.59	120.05	5440.09	120.98	45.19	PASS
6316.00†	5807.63	-1371.59	-1467.71	12098.00	7638.03	3453.82	-3153.59	120.05	5429.29	122.15	44.67	PASS
6416.00†	5893.92	-1406.09	-1504.63	12098.00	7638.03	3453.82	-3153.59	120.05	5420.31	123.30	44.17	PASS
6516.00†	5980.22	-1440.59	-1541.55	12098.00	7638.03	3453.82	-3153.59	120.05	5413.16	124.45	43.71	PASS
6616.00†	6066.51	-1475.10	-1578.47	12098.00	7638.03	3453.82	-3153.59	120.05	5407.86	125.58	43.27	PASS
6716.00†	6152.80	-1509.60	-1615.39	12098.00	7638.03	3453.82	-3153.59	120.05	5404.40	126.69	42.86	PASS
6816.00†	6239.10	-1544.10	-1652.31	12098.00	7638.03	3453.82	-3153.59	120.05	5402.78	127.79	42.48	PASS
6853.50†	6271.46	-1557.04	-1666.15	12098.00	7638.03	3453.82	-3153.59	120.05	5402.66	128.20	42.34	PASS
6916.00†	6325.39	-1578.60	-1689.23	12098.00	7638.03	3453.82	-3153.59	120.05	5403.02	128.88	42.12	PASS
7016.00†	6411.68	-1613.10	-1726.15	12098.00	7638.03	3453.82	-3153.59	120.05	5405.11	129.95	41.79	PASS
7116.00†	6497.98	-1647.60	-1763.07	12098.00	7638.03	3453.82	-3153.59	120.05	5409.05	131.00	41.48	PASS
7216.00†	6584.27	-1682.10	-1799.99	12098.00	7638.03	3453.82	-3153.59	120.05	5414.83	132.03	41.20	PASS
7316.00†	6670.57	-1716.61	-1836.91	12098.00	7638.03	3453.82	-3153.59	120.05	5422.45	133.04	40.94	PASS
7416.00†	6756.86	-1751.11	-1873.83	12098.00	7638.03	3453.82	-3153.59	120.05	5431.90	134.04	40.71	PASS
7516.00†	6843.15	-1785.61	-1910.75	12098.00	7638.03	3453.82	-3153.59	120.05	5443.17	135.01	40.50	PASS
7616.00†	6929.45	-1820.11	-1947.66	12098.00	7638.03	3453.82	-3153.59	120.05	5456.25	135.96	40.31	PASS
7716.00†	7015.74	-1854.61	-1984.58	12098.00	7638.03	3453.82	-3153.59	120.05	5471.13	136.90	40.14	PASS

CLEARANCE DATA - Offset Wellbore: WAGNER #34N-34HZ AWB Offset Wellpath: WAGNER #34N-34HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#10 WAGNER #34N-34HZ (850'FNL & 526'FWL, SEC.34)			Well: WAGNER #34N-34HZ		Threshold Value=1.00 † = interpolated/extrapolated station				
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
7816.00†	7102.03	-1889.11	-2021.50	12098.00	7638.03	3453.82	-3153.59	120.05	5487.79	137.81	39.99	PASS
7916.00†	7188.33	-1923.61	-2058.42	12098.00	7638.03	3453.82	-3153.59	120.05	5506.22	138.70	39.87	PASS
8016.00†	7274.62	-1958.12	-2095.34	12098.00	7638.03	3453.82	-3153.59	120.05	5526.40	139.57	39.77	PASS
8085.19	7334.33	-1981.99	-2120.89	12098.00	7638.03	3453.82	-3153.59	120.05	5541.37	140.15	39.71	PASS
8116.00†	7360.64	-1993.39	-2132.14	12098.00	7638.03	3453.82	-3153.59	123.77	5549.09	140.42	39.69	PASS
8216.00†	7441.54	-2040.68	-2166.69	12098.00	7638.03	3453.82	-3153.59	132.52	5585.89	141.35	39.69	PASS
8316.00†	7513.69	-2102.53	-2197.41	12098.00	7638.03	3453.82	-3153.59	137.45	5639.40	142.46	39.75	PASS
8365.59†	7545.54	-2138.04	-2210.93	12098.00	7638.03	3453.82	-3153.59	138.80	5671.52	155.97	36.50	PASS
8416.00†	7574.90	-2177.06	-2223.37	12098.00	7638.03	3453.82	-3153.59	139.51	5707.55	143.40	39.97	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WAGNER #34N-34HZ AWB Offset Wellpath: WAGNER #34N-34HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#10 WAGNER #34N-34HZ (850'FNL & 526'FWL, SEC.34) Well: WAGNER #34N-34HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
8516.00†	7623.30	-2261.99	-2243.79	12098.00	7638.03	3453.82	-3153.59	138.77	5787.79	144.14	40.32	PASS
8616.00†	7657.43	-2354.77	-2258.05	12098.00	7638.03	3453.82	-3153.59	133.81	5877.25	144.69	40.79	PASS
8716.00†	7676.26	-2452.55	-2265.70	12098.00	7638.03	3453.82	-3153.59	117.88	5972.86	145.06	41.35	PASS
8784.36	7680.00	-2520.76	-2267.01	12098.00	7638.03	3453.82	-3153.59	87.21	6040.15	145.22	41.76	PASS
8816.00†	7680.00	-2552.39	-2266.87	12098.00	7638.03	3453.82	-3153.59	87.21	6071.46	145.28	41.96	PASS
8916.00†	7680.00	-2652.39	-2266.43	12098.00	7638.03	3453.82	-3153.59	87.21	6170.47	145.46	42.59	PASS
9016.00†	7680.00	-2752.39	-2265.99	12098.00	7638.03	3453.82	-3153.59	87.21	6269.51	145.64	43.23	PASS
9116.00†	7680.00	-2852.39	-2265.55	12098.00	7638.03	3453.82	-3153.59	87.21	6368.57	145.81	43.86	PASS
9216.00†	7680.00	-2952.39	-2265.11	12098.00	7638.03	3453.82	-3153.59	87.21	6467.67	145.98	44.49	PASS
9316.00†	7680.00	-3052.39	-2264.67	12098.00	7638.03	3453.82	-3153.59	87.21	6566.79	146.14	45.12	PASS
9416.00†	7680.00	-3152.39	-2264.23	12098.00	7638.03	3453.82	-3153.59	87.21	6665.94	146.30	45.75	PASS
9516.00†	7680.00	-3252.39	-2263.79	12098.00	7638.03	3453.82	-3153.59	87.21	6765.12	146.46	46.38	PASS
9616.00†	7680.00	-3352.39	-2263.34	12098.00	7638.03	3453.82	-3153.59	87.21	6864.31	146.62	47.01	PASS
9716.00†	7680.00	-3452.39	-2262.90	12098.00	7638.03	3453.82	-3153.59	87.21	6963.53	146.77	47.64	PASS
9816.00†	7680.00	-3552.38	-2262.46	12098.00	7638.03	3453.82	-3153.59	87.21	7062.78	146.92	48.27	PASS
9916.00†	7680.00	-3652.38	-2262.02	12098.00	7638.03	3453.82	-3153.59	87.21	7162.04	147.07	48.90	PASS
10016.00†	7680.00	-3752.38	-2261.58	12098.00	7638.03	3453.82	-3153.59	87.21	7261.33	147.21	49.53	PASS
10116.00†	7680.00	-3852.38	-2261.14	12098.00	7638.03	3453.82	-3153.59	87.21	7360.63	147.36	50.15	PASS
10216.00†	7680.00	-3952.38	-2260.70	12098.00	7638.03	3453.82	-3153.59	87.21	7459.95	147.50	50.78	PASS
10316.00†	7680.00	-4052.38	-2260.26	12098.00	7638.03	3453.82	-3153.59	87.21	7559.29	147.63	51.41	PASS
10416.00†	7680.00	-4152.38	-2259.82	12098.00	7638.03	3453.82	-3153.59	87.21	7658.65	147.77	52.04	PASS
10516.00†	7680.00	-4252.38	-2259.38	12098.00	7638.03	3453.82	-3153.59	87.21	7758.02	147.90	52.67	PASS
10616.00†	7680.00	-4352.38	-2258.94	12098.00	7638.03	3453.82	-3153.59	87.21	7857.41	148.03	53.29	PASS
10716.00†	7680.00	-4452.38	-2258.50	12098.00	7638.03	3453.82	-3153.59	87.21	7956.82	148.16	53.92	PASS
10816.00†	7680.00	-4552.37	-2258.06	12098.00	7638.03	3453.82	-3153.59	87.21	8056.24	148.29	54.55	PASS
10916.00†	7680.00	-4652.37	-2257.61	12098.00	7638.03	3453.82	-3153.59	87.21	8155.67	148.42	55.17	PASS
11016.00†	7680.00	-4752.37	-2257.17	12098.00	7638.03	3453.82	-3153.59	87.21	8255.12	148.54	55.80	PASS
11116.00†	7680.00	-4852.37	-2256.73	12098.00	7638.03	3453.82	-3153.59	87.21	8354.58	148.67	56.42	PASS
11216.00†	7680.00	-4952.37	-2256.29	12098.00	7638.03	3453.82	-3153.59	87.21	8454.05	148.79	57.05	PASS
11316.00†	7680.00	-5052.37	-2255.85	12098.00	7638.03	3453.82	-3153.59	87.21	8553.54	148.91	57.67	PASS
11416.00†	7680.00	-5152.37	-2255.41	12098.00	7638.03	3453.82	-3153.59	87.21	8653.04	149.03	58.30	PASS
11516.00†	7680.00	-5252.37	-2254.97	12098.00	7638.03	3453.82	-3153.59	87.21	8752.55	149.14	58.92	PASS
11616.00†	7680.00	-5352.37	-2254.53	12098.00	7638.03	3453.82	-3153.59	87.21	8852.07	149.26	59.55	PASS
11716.00†	7680.00	-5452.37	-2254.09	12098.00	7638.03	3453.82	-3153.59	87.21	8951.60	149.38	60.17	PASS
11816.00†	7680.00	-5552.36	-2253.65	12098.00	7638.03	3453.82	-3153.59	87.21	9051.14	149.49	60.79	PASS
11916.00†	7680.00	-5652.36	-2253.21	12098.00	7638.03	3453.82	-3153.59	87.21	9150.69	149.60	61.41	PASS

CLEARANCE DATA - Offset Wellbore: WAGNER #34N-34HZ AWB Offset Wellpath: WAGNER #34N-34HZ AWP												
Facility: SEC.34-T01N-R67W			Slot: SLOT#10 WAGNER #34N-34HZ (850'FNL & 526'FWL, SEC.34)			Well: WAGNER #34N-34HZ			Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12016.00†	7680.00	-5752.36	-2252.77	12098.00	7638.03	3453.82	-3153.59	87.21	9250.25	149.71	62.03	PASS
12116.00†	7680.00	-5852.36	-2252.32	12098.00	7638.03	3453.82	-3153.59	87.21	9349.82	149.83	62.66	PASS
12216.00†	7680.00	-5952.36	-2251.88	12098.00	7638.03	3453.82	-3153.59	87.21	9449.40	149.94	63.28	PASS
12316.00†	7680.00	-6052.36	-2251.44	12098.00	7638.03	3453.82	-3153.59	87.21	9548.99	150.04	63.90	PASS
12416.00†	7680.00	-6152.36	-2251.00	12098.00	7638.03	3453.82	-3153.59	87.21	9648.58	150.15	64.52	PASS
12516.00†	7680.00	-6252.36	-2250.56	12098.00	7638.03	3453.82	-3153.59	87.21	9748.19	150.26	65.14	PASS
12616.00†	7680.00	-6352.36	-2250.12	12098.00	7638.03	3453.82	-3153.59	87.21	9847.80	150.37	65.75	PASS
12716.00†	7680.00	-6452.36	-2249.68	12098.00	7638.03	3453.82	-3153.59	87.21	9947.42	150.47	66.37	PASS
12816.00†	7680.00	-6552.36	-2249.24	12098.00	7638.03	3453.82	-3153.59	87.21	10047.05	150.58	66.99	PASS



# Clearance Report

SHOOK 3-10-1NCH PWP (REV-A.0)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 SHOOK 3-10-1NCH (2058'FSL & 2274'FEL, SEC.03)
Area	COLORADO	Well	SHOOK 3-10-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	SHOOK 3-10-1NCH PWB
Facility	SEC.03-T1S-R67W		

## CLEARANCE DATA - Offset Wellbore: WAGNER #34N-34HZ AWB Offset Wellpath: WAGNER #34N-34HZ AWP

Facility: SEC.34-T01N-R67W Slot: SLOT#10 WAGNER #34N-34HZ (850'FNL & 526'FWL, SEC.34) Well: WAGNER #34N-34HZ Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
12916.00†	7680.00	-6652.35	-2248.80	12098.00	7638.03	3453.82	-3153.59	87.21	10146.69	150.68	67.61	PASS
13016.00†	7680.00	-6752.35	-2248.36	12098.00	7638.03	3453.82	-3153.59	87.21	10246.33	150.79	68.22	PASS
13116.00†	7680.00	-6852.35	-2247.92	12098.00	7638.03	3453.82	-3153.59	87.21	10345.98	150.89	68.84	PASS
13144.91	7680.00	-6881.26	-2247.79	12098.00	7638.03	3453.82	-3153.59	87.21	10374.79	150.92	69.02	PASS

## POSITIONAL UNCERTAINTY - Offset Wellbore: WAGNER #34N-34HZ AWB Offset Wellpath: WAGNER #34N-34HZ AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: WAGNER #34N-34HZ AWB Offset Wellpath: WAGNER #34N-34HZ 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	16.00	1064.00	1048.00	54.00	1101.99	4502.41	-1793.01	4502.99	-1792.91
9.625in Casing Surface	16.00	1064.00	1048.00	54.00	1101.99	4502.41	-1793.01	4502.99	-1792.91
8.75in Open Hole	1064.00	7974.00	6910.00	1101.99	7591.63	4502.99	-1792.91	4560.55	-1864.63
7in Casing Intermediate	16.00	7974.00	7958.00	54.00	7591.63	4502.41	-1793.01	4560.55	-1864.63
6.125in Open Hole	7974.00	12098.00	4124.00	7591.63	7638.03	4560.55	-1864.63	3303.99	-1857.73

## WELLPATH COMPOSITION - Offset Wellbore: WAGNER #34N-34HZ AWB Offset Wellpath: WAGNER #34N-34HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	992.00	Generic gyro - continuous (Standard)	MS ENERGY GYROS <116-992>	WAGNER #34N-34HZ AWB
992.00	12051.00	ISCWSA MWD, Rev. 3, axial magnetic correction (Standard)	HALLIBURTON SURVEYS <1108-12051>	WAGNER #34N-34HZ AWB
12051.00	12098.00	Blind Drilling (std)	Projection to bit	WAGNER #34N-34HZ AWB

## OFFSET WELLPATH MD REFERENCE - Offset Wellbore: WAGNER #34N-34HZ AWB Offset Wellpath: WAGNER #34N-34HZ AWP

MD Reference: Rig on SLOT#10 WAGNER #34N-34HZ (850'FNL & 526'FWL, SEC.34) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft