

# PETROSHARE

Location: COLORADO Slot: SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)  
Field: ADAMS COUNTY (NAD83/ TRUE NORTH) Well: BRIGHTON LAKES 20-17-1NAH  
Facility: SEC.20-T01S-R66W Wellbore: BRIGHTON LAKES 20-17-1NAH PWB

Plot reference wellpath is BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK.) PWP  
Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet  
True vertical depths are referenced to RIG (16'RKB) (RKB) \* = Wellpath was transformed from a different geodetic datum  
Measured depths are referenced to RIG (16'RKB) (RKB) North Reference: True north  
RIG (16'RKB) (RKB) to Mean Sea Level: 5063 feet Scale: True distance  
Mean Sea Level to Mud line (At Slot: SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)): 0 feet Depths are in feet  
Coordinates are in feet referenced to Slot Created by: cookdarn on 2017-02-23  
Database: WA\_Denver

## Location Information

Facility Name				Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC.20-T01S-R66W				3195665.301	1223370.474	39°56'39.912"N	104°48'07.704"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)	0.00	44.86	3195710.160	1223370.827	39°56'39.912"N	104°48'07.128"W	
RIG (16'RKB) (RKB) to Mud line (At Slot: SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20))						5063ft	
Mean Sea Level to Mud line (At Slot: SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20))						0ft	
RIG (16'RKB) (RKB) to Mean Sea Level						5063ft	

## Hole and Casing Sections

Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (ft)	Wellbore
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	0.00	0.00	0.00	BRIGHTON LAKES 20-17-1NAH PWB
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	0.00	0.00	0.00	BRIGHTON LAKES 20-17-1NAH PWB
8.5in Open Hole	882.00	17558.00	16676.00	882.00	N/A	0.00	0.00	N/A	N/A	BRIGHTON LAKES 20-17-1NAH PWB

Scale 1 inch = 1500

True Vertical Depth (ft)



BGGM (1900.0 to 2018.0) Dip: 66.53° Field: 52183 nT  
Magnetic North is 8.40 degrees East of True North (at 21-Feb-17)

To correct azimuth from Magnetic to True add 8.40 degrees

End of Tangent : 19.01° Inc, 6965.37ft MD, 6672.70ft TVD, -166.66ft VS

10.00°/100ft

BRIGHTON LAKES 20-17-1NAH LP (NIO A CK,460'FSL& 1481'FEL,SEC.20,REV-1

End of 3D Arc (J) : 90.00° Inc, 7918.37ft MD, 7267.00ft TVD, 430.99ft VS

SLOT#04 BRIGHTON LAKES 20-17-1NAH  
(400'FSL & 1919'FWL, SEC.20)

BRIGHTON LAKES 20-17-1NAH BHL (NIO A CK, 460'FNL& 1481'FEL,SEC.17,REV-1)

End of Tangent (J) : 90.00° Inc, 17557.33ft MD, 7267.00ft TVD, 9889.11ft VS

Vertical Section (ft)  
Azimuth 11.19° with reference 0.00 N, 0.00 E



Scale 1 inch = 2000

Easting (ft)

-4000 -3000 -2000 -1000 0 1000 2000 3000 4000

BRIGHTON LAKES 20-17-1NAH BHL (NIO A CK, 460'FNL& 1481'FEL,SEC.17,REV-1)

SLOT#02 EX. CASE#1 (990'FNL & 990'FEL,SEC.17,PA,TD8237MD)

TASHIRO-UPRR#1 AWB

SLOT#01 EX. TASHIRO-UPRR#1 (1160'FSL & 1221'FWL,SEC.17,PA,TD@8225)

SEC.17-T1S-R66W

SEC.20-T1S-R66W

SLOT#01 EX. DAVIS #1 (1327'FSL & 1629'FWL,SEC.20,PA,TD@8234

DAVIS #1 AWB

BRIGHTON LAKES 20-17-1NAH LP  
(NIO A CK,460'FSL& 1481'FEL,SEC.20,REV-1

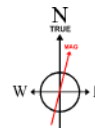
SEC.17/20-T1S-R66W HARDLINES (460' SETBACKS)

Northing (ft)

Scale 1 inch = 1500

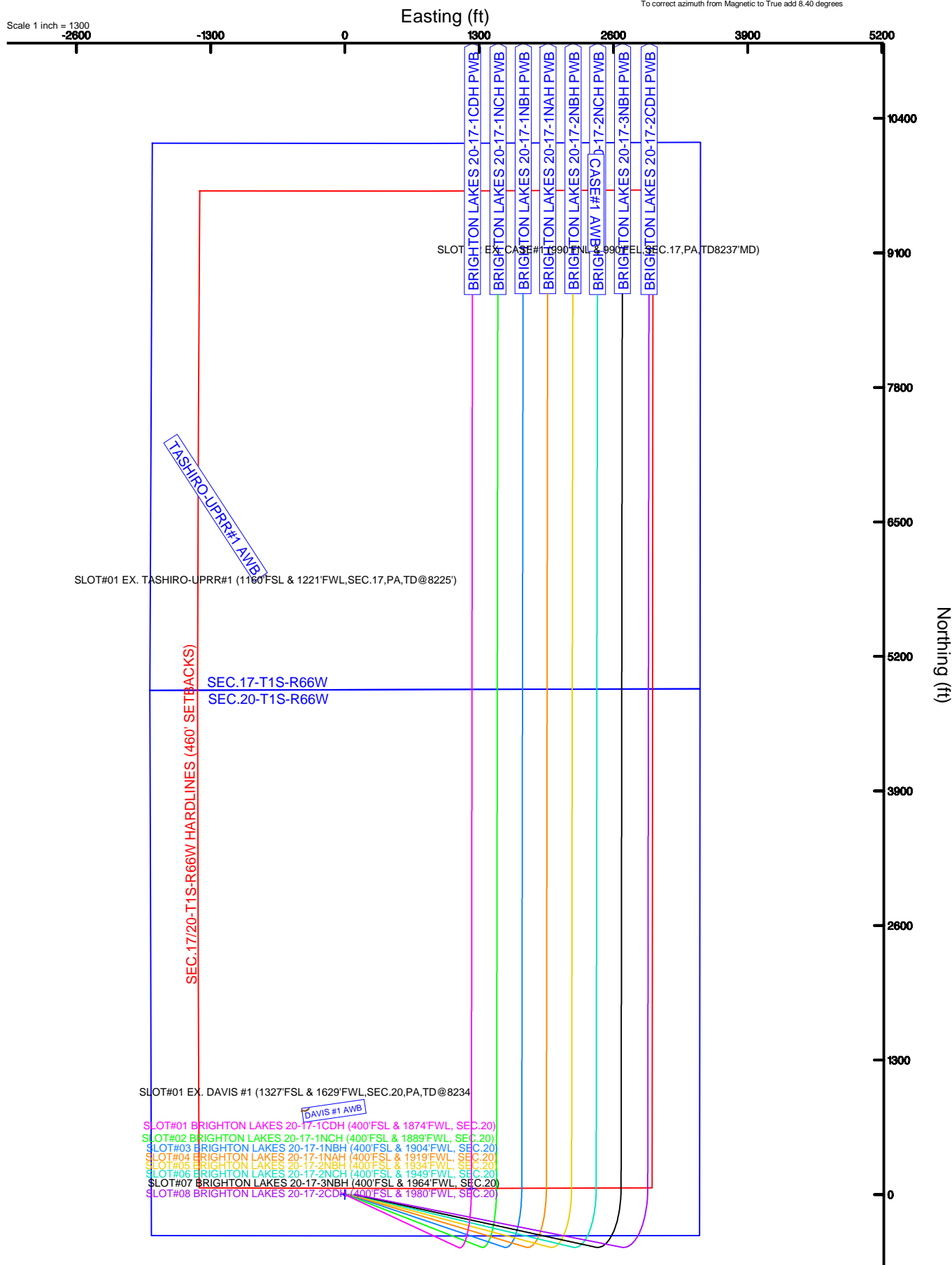
# PETROSHARE

Location: COLORADO Slot: SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20)  
Field: ADAMS COUNTY (NAD83/ TRUE NORTH) Well: BRIGHTON LAKES 20-17-1CDH  
Facility: SEC.20-T01S-R66W Wellbore: BRIGHTON LAKES 20-17-1CDH PWB



BGGM (1900.0 to 2018.0) Dip: 66.53° Field: 52182.9 nT  
Magnetic North is 8.40 degrees East of True North (at 21-Feb-17)

To correct azimuth from Magnetic to True add 8.40 degrees

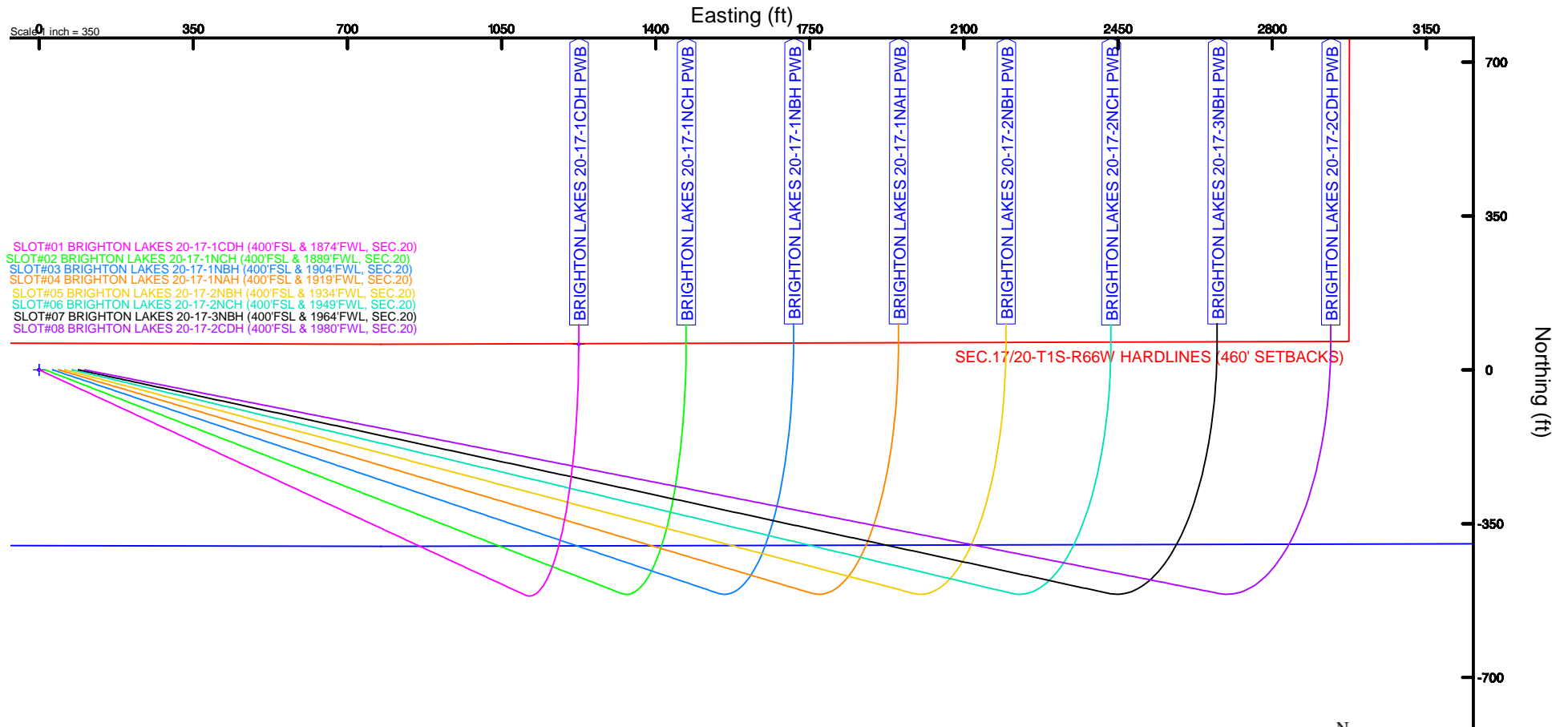


# PETROSHARE

Location: COLORADO Slot: SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20)  
Field: ADAMS COUNTY (NAD83/ TRUE NORTH) Well: BRIGHTON LAKES 20-17-1CDH  
Facility: SEC.20-T01S-R66W Wellbore: BRIGHTON LAKES 20-17-1CDH PWB



Plot reference wellpath is BRIGHTON LAKES 20-17-1CDH (REV-A.0, CODELL) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to RIG (16' RKB) (RT)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to RIG (16' RKB) (RT)	North Reference: True north
RIG (16' RKB) (RT) to Mean Sea Level: 5063 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdann on 2017-02-23
	Database: WA_Denver



BGM (1900.0 to 2018.0) Dip: 66.53° Field: 52182.9 nT  
Magnetic North is 8.40 degrees East of True North (at 21-Feb-17)  
To correct azimuth from Magnetic to True add 8.40 degrees



# Planned Wellpath Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Page 1 of 7



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Cookdanm
Scale	0.999971	Report Generated	23-Feb-17 at 10:07:31 AM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/BRIGHTON_LAKES_20-17-1NAH_REV-A.0_NIO_A_CK_PWP.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	44.86	3195710.16	1223370.83	39°56'39.912"N	104°48'07.128"W
Facility Reference Pt			3195665.30	1223370.47	39°56'39.912"N	104°48'07.704"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'RKB) (RKB) to Facility Vertical Datum	5063.00ft
Horizontal Reference Pt	Slot	RIG (16'RKB) (RKB) to Mean Sea Level	5063.00ft
Vertical Reference Pt	RIG (16'RKB) (RKB)	RIG (16'RKB) (RKB) to Mud Line at Slot (SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20))	5063.00ft
MD Reference Pt	RIG (16'RKB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	11.19°



# Planned Wellpath Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH DATA (186 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	106.557	0.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.128"W	0.00	
16.00	0.000	106.557	16.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.128"W	0.00	Tie On
116.00†	0.000	106.557	116.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.128"W	0.00	
216.00†	0.000	106.557	216.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.128"W	0.00	
316.00†	0.000	106.557	316.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.128"W	0.00	
416.00†	0.000	106.557	416.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.128"W	0.00	
516.00†	0.000	106.557	516.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.128"W	0.00	
616.00†	0.000	106.557	616.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.128"W	0.00	
716.00†	0.000	106.557	716.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.128"W	0.00	
816.00†	0.000	106.557	816.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.128"W	0.00	
882.00†	0.000	106.557	882.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.128"W	0.00	Fox Hills (Surface Csg)
916.00†	0.000	106.557	916.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.128"W	0.00	
1016.00†	0.000	106.557	1016.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.128"W	0.00	
1116.00†	0.000	106.557	1116.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.128"W	0.00	
1175.00	0.000	106.557	1175.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.128"W	0.00	End of Tangent
1216.00†	1.230	106.557	1216.00	-0.04	-0.13	0.42	39°56'39.911"N	104°48'07.123"W	3.00	
1316.00†	4.230	106.557	1315.87	-0.49	-1.48	4.99	39°56'39.897"N	104°48'07.064"W	3.00	
1416.00†	7.230	106.557	1415.36	-1.42	-4.33	14.56	39°56'39.869"N	104°48'06.941"W	3.00	
1516.00†	10.230	106.557	1514.19	-2.84	-8.65	29.10	39°56'39.826"N	104°48'06.754"W	3.00	
1616.00†	13.230	106.557	1612.09	-4.74	-14.44	48.59	39°56'39.769"N	104°48'06.504"W	3.00	
1716.00†	16.230	106.557	1708.79	-7.11	-21.69	72.96	39°56'39.698"N	104°48'06.191"W	3.00	
1808.53	19.006	106.557	1796.97	-9.73	-29.67	99.80	39°56'39.619"N	104°48'05.847"W	3.00	End of Build
1816.00†	19.006	106.557	1804.04	-9.96	-30.36	102.13	39°56'39.612"N	104°48'05.817"W	0.00	
1916.00†	19.006	106.557	1898.59	-13.00	-39.64	133.35	39°56'39.520"N	104°48'05.416"W	0.00	
2016.00†	19.006	106.557	1993.14	-16.04	-48.92	164.56	39°56'39.429"N	104°48'05.015"W	0.00	
2116.00†	19.006	106.557	2087.68	-19.09	-58.20	195.78	39°56'39.337"N	104°48'04.614"W	0.00	
2216.00†	19.006	106.557	2182.23	-22.13	-67.48	227.00	39°56'39.245"N	104°48'04.214"W	0.00	
2316.00†	19.006	106.557	2276.78	-25.17	-76.76	258.21	39°56'39.153"N	104°48'03.813"W	0.00	
2416.00†	19.006	106.557	2371.33	-28.22	-86.04	289.43	39°56'39.062"N	104°48'03.412"W	0.00	
2516.00†	19.006	106.557	2465.88	-31.26	-95.32	320.64	39°56'38.970"N	104°48'03.011"W	0.00	
2616.00†	19.006	106.557	2560.43	-34.30	-104.60	351.86	39°56'38.878"N	104°48'02.610"W	0.00	
2716.00†	19.006	106.557	2654.97	-37.34	-113.88	383.08	39°56'38.787"N	104°48'02.210"W	0.00	
2816.00†	19.006	106.557	2749.52	-40.39	-123.16	414.29	39°56'38.695"N	104°48'01.809"W	0.00	
2916.00†	19.006	106.557	2844.07	-43.43	-132.44	445.51	39°56'38.603"N	104°48'01.408"W	0.00	
3016.00†	19.006	106.557	2938.62	-46.47	-141.73	476.73	39°56'38.511"N	104°48'01.007"W	0.00	
3116.00†	19.006	106.557	3033.17	-49.52	-151.01	507.94	39°56'38.420"N	104°48'00.606"W	0.00	
3216.00†	19.006	106.557	3127.72	-52.56	-160.29	539.16	39°56'38.328"N	104°48'00.206"W	0.00	
3316.00†	19.006	106.557	3222.27	-55.60	-169.57	570.37	39°56'38.236"N	104°47'59.805"W	0.00	
3416.00†	19.006	106.557	3316.81	-58.65	-178.85	601.59	39°56'38.144"N	104°47'59.404"W	0.00	
3516.00†	19.006	106.557	3411.36	-61.69	-188.13	632.81	39°56'38.053"N	104°47'59.003"W	0.00	
3616.00†	19.006	106.557	3505.91	-64.73	-197.41	664.02	39°56'37.961"N	104°47'58.603"W	0.00	
3716.00†	19.006	106.557	3600.46	-67.78	-206.69	695.24	39°56'37.869"N	104°47'58.202"W	0.00	
3816.00†	19.006	106.557	3695.01	-70.82	-215.97	726.45	39°56'37.778"N	104°47'57.801"W	0.00	
3916.00†	19.006	106.557	3789.56	-73.86	-225.25	757.67	39°56'37.686"N	104°47'57.400"W	0.00	
4016.00†	19.006	106.557	3884.11	-76.91	-234.53	788.89	39°56'37.594"N	104°47'56.999"W	0.00	



# Planned Wellpath Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH DATA (186 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4116.00†	19.006	106.557	3978.65	-79.95	-243.81	820.10	39°56'37.502"N	104°47'56.599"W	0.00	
4216.00†	19.006	106.557	4073.20	-82.99	-253.09	851.32	39°56'37.411"N	104°47'56.198"W	0.00	
4316.00†	19.006	106.557	4167.75	-86.04	-262.37	882.54	39°56'37.319"N	104°47'55.797"W	0.00	
4416.00†	19.006	106.557	4262.30	-89.08	-271.65	913.75	39°56'37.227"N	104°47'55.396"W	0.00	
4516.00†	19.006	106.557	4356.85	-92.12	-280.93	944.97	39°56'37.136"N	104°47'54.995"W	0.00	
4616.00†	19.006	106.557	4451.40	-95.17	-290.21	976.18	39°56'37.044"N	104°47'54.595"W	0.00	
4716.00†	19.006	106.557	4545.95	-98.21	-299.49	1007.40	39°56'36.952"N	104°47'54.194"W	0.00	
4816.00†	19.006	106.557	4640.49	-101.25	-308.77	1038.62	39°56'36.860"N	104°47'53.793"W	0.00	
4916.00†	19.006	106.557	4735.04	-104.29	-318.05	1069.83	39°56'36.769"N	104°47'53.392"W	0.00	
5016.00†	19.006	106.557	4829.59	-107.34	-327.33	1101.05	39°56'36.677"N	104°47'52.992"W	0.00	
5029.12†	19.006	106.557	4842.00	-107.74	-328.55	1105.15	39°56'36.665"N	104°47'52.939"W	0.00	Sussex / Shannon
5116.00†	19.006	106.557	4924.14	-110.38	-336.61	1132.27	39°56'36.585"N	104°47'52.591"W	0.00	
5216.00†	19.006	106.557	5018.69	-113.42	-345.89	1163.48	39°56'36.494"N	104°47'52.190"W	0.00	
5316.00†	19.006	106.557	5113.24	-116.47	-355.17	1194.70	39°56'36.402"N	104°47'51.789"W	0.00	
5416.00†	19.006	106.557	5207.79	-119.51	-364.45	1225.91	39°56'36.310"N	104°47'51.388"W	0.00	
5516.00†	19.006	106.557	5302.33	-122.55	-373.73	1257.13	39°56'36.218"N	104°47'50.988"W	0.00	
5616.00†	19.006	106.557	5396.88	-125.60	-383.01	1288.35	39°56'36.127"N	104°47'50.587"W	0.00	
5716.00†	19.006	106.557	5491.43	-128.64	-392.29	1319.56	39°56'36.035"N	104°47'50.186"W	0.00	
5816.00†	19.006	106.557	5585.98	-131.68	-401.57	1350.78	39°56'35.943"N	104°47'49.785"W	0.00	
5916.00†	19.006	106.557	5680.53	-134.73	-410.85	1382.00	39°56'35.851"N	104°47'49.385"W	0.00	
6016.00†	19.006	106.557	5775.08	-137.77	-420.13	1413.21	39°56'35.760"N	104°47'48.984"W	0.00	
6116.00†	19.006	106.557	5869.63	-140.81	-429.41	1444.43	39°56'35.668"N	104°47'48.583"W	0.00	
6216.00†	19.006	106.557	5964.17	-143.86	-438.69	1475.64	39°56'35.576"N	104°47'48.182"W	0.00	
6316.00†	19.006	106.557	6058.72	-146.90	-447.97	1506.86	39°56'35.484"N	104°47'47.781"W	0.00	
6416.00†	19.006	106.557	6153.27	-149.94	-457.25	1538.08	39°56'35.393"N	104°47'47.381"W	0.00	
6516.00†	19.006	106.557	6247.82	-152.99	-466.53	1569.29	39°56'35.301"N	104°47'46.980"W	0.00	
6616.00†	19.006	106.557	6342.37	-156.03	-475.81	1600.51	39°56'35.209"N	104°47'46.579"W	0.00	
6716.00†	19.006	106.557	6436.92	-159.07	-485.09	1631.72	39°56'35.118"N	104°47'46.178"W	0.00	
6816.00†	19.006	106.557	6531.47	-162.11	-494.37	1662.94	39°56'35.026"N	104°47'45.778"W	0.00	
6916.00†	19.006	106.557	6626.01	-165.16	-503.65	1694.16	39°56'34.934"N	104°47'45.377"W	0.00	
6965.37	19.006	106.557	6672.70	-166.66	-508.24	1709.57	39°56'34.889"N	104°47'45.179"W	0.00	End of Tangent
7016.00†	18.280	90.836	6720.70	-166.00	-510.70	1725.42	39°56'34.864"N	104°47'44.975"W	10.00	
7116.00†	20.643	61.330	6815.20	-151.85	-502.45	1756.65	39°56'34.946"N	104°47'44.574"W	10.00	
7216.00†	26.668	41.198	6906.91	-121.04	-477.05	1786.97	39°56'35.197"N	104°47'44.185"W	10.00	
7316.00†	34.483	28.822	6993.02	-74.51	-435.25	1815.47	39°56'35.610"N	104°47'43.819"W	10.00	
7416.00†	43.121	20.732	7070.93	-13.67	-378.34	1841.28	39°56'36.172"N	104°47'43.488"W	10.00	
7516.00†	52.167	14.942	7138.26	59.63	-308.05	1863.62	39°56'36.867"N	104°47'43.201"W	10.00	
7616.00†	61.434	10.439	7192.98	143.16	-226.50	1881.81	39°56'37.673"N	104°47'42.967"W	10.00	
7716.00†	70.825	6.675	7233.41	234.38	-136.18	1895.29	39°56'38.566"N	104°47'42.794"W	10.00	
7816.00†	80.284	3.321	7258.34	330.52	-39.83	1903.65	39°56'39.518"N	104°47'42.687"W	10.00	
7916.00†	89.775	0.153	7267.00	428.66	59.63	1906.65	39°56'40.501"N	104°47'42.648"W	10.00	
7918.32†	89.995	0.081	7267.00	430.93	61.94	1906.65	39°56'40.523"N	104°47'42.648"W	10.00	Niobrara A Chalk (Landing Zone)
7918.37	90.000	0.079	7267.00†	430.99	62.00	1906.65	39°56'40.524"N	104°47'42.648"W	10.00	End of 3D Arc (J)
8016.00†	90.000	0.079	7267.00	526.78	159.63	1906.79	39°56'41.489"N	104°47'42.646"W	0.00	
8116.00†	90.000	0.079	7267.00	624.91	259.63	1906.92	39°56'42.477"N	104°47'42.644"W	0.00	





# Planned Wellpath Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH DATA (186 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8216.00†	90.000	0.079	7267.00	723.03	359.63	1907.06	39°56'43.465"N	104°47'42.642"W	0.00	
8316.00†	90.000	0.079	7267.00	821.15	459.63	1907.20	39°56'44.453"N	104°47'42.641"W	0.00	
8416.00†	90.000	0.079	7267.00	919.28	559.63	1907.34	39°56'45.442"N	104°47'42.639"W	0.00	
8516.00†	90.000	0.079	7267.00	1017.40	659.63	1907.47	39°56'46.430"N	104°47'42.637"W	0.00	
8616.00†	90.000	0.079	7267.00	1115.53	759.63	1907.61	39°56'47.418"N	104°47'42.635"W	0.00	
8716.00†	90.000	0.079	7267.00	1213.65	859.63	1907.75	39°56'48.406"N	104°47'42.633"W	0.00	
8816.00†	90.000	0.079	7267.00	1311.77	959.63	1907.89	39°56'49.395"N	104°47'42.631"W	0.00	
8916.00†	90.000	0.079	7267.00	1409.90	1059.63	1908.03	39°56'50.383"N	104°47'42.629"W	0.00	
9016.00†	90.000	0.079	7267.00	1508.02	1159.63	1908.16	39°56'51.371"N	104°47'42.628"W	0.00	
9116.00†	90.000	0.079	7267.00	1606.15	1259.63	1908.30	39°56'52.359"N	104°47'42.626"W	0.00	
9216.00†	90.000	0.079	7267.00	1704.27	1359.63	1908.44	39°56'53.348"N	104°47'42.624"W	0.00	
9316.00†	90.000	0.079	7267.00	1802.39	1459.63	1908.58	39°56'54.336"N	104°47'42.622"W	0.00	
9416.00†	90.000	0.079	7267.00	1900.52	1559.63	1908.71	39°56'55.324"N	104°47'42.620"W	0.00	
9516.00†	90.000	0.079	7267.00	1998.64	1659.63	1908.85	39°56'56.312"N	104°47'42.618"W	0.00	
9616.00†	90.000	0.079	7267.00	2096.77	1759.63	1908.99	39°56'57.301"N	104°47'42.616"W	0.00	
9716.00†	90.000	0.079	7267.00	2194.89	1859.62	1909.13	39°56'58.289"N	104°47'42.614"W	0.00	
9816.00†	90.000	0.079	7267.00	2293.01	1959.62	1909.26	39°56'59.277"N	104°47'42.613"W	0.00	
9916.00†	90.000	0.079	7267.00	2391.14	2059.62	1909.40	39°57'00.265"N	104°47'42.611"W	0.00	
10016.00†	90.000	0.079	7267.00	2489.26	2159.62	1909.54	39°57'01.254"N	104°47'42.609"W	0.00	
10116.00†	90.000	0.079	7267.00	2587.39	2259.62	1909.68	39°57'02.242"N	104°47'42.607"W	0.00	
10216.00†	90.000	0.079	7267.00	2685.51	2359.62	1909.82	39°57'03.230"N	104°47'42.605"W	0.00	
10316.00†	90.000	0.079	7267.00	2783.63	2459.62	1909.95	39°57'04.218"N	104°47'42.603"W	0.00	
10416.00†	90.000	0.079	7267.00	2881.76	2559.62	1910.09	39°57'05.207"N	104°47'42.601"W	0.00	
10516.00†	90.000	0.079	7267.00	2979.88	2659.62	1910.23	39°57'06.195"N	104°47'42.600"W	0.00	
10616.00†	90.000	0.079	7267.00	3078.00	2759.62	1910.37	39°57'07.183"N	104°47'42.598"W	0.00	
10716.00†	90.000	0.079	7267.00	3176.13	2859.62	1910.50	39°57'08.171"N	104°47'42.596"W	0.00	
10816.00†	90.000	0.079	7267.00	3274.25	2959.62	1910.64	39°57'09.160"N	104°47'42.594"W	0.00	
10916.00†	90.000	0.079	7267.00	3372.38	3059.62	1910.78	39°57'10.148"N	104°47'42.592"W	0.00	
11016.00†	90.000	0.079	7267.00	3470.50	3159.62	1910.92	39°57'11.136"N	104°47'42.590"W	0.00	
11116.00†	90.000	0.079	7267.00	3568.62	3259.62	1911.06	39°57'12.124"N	104°47'42.588"W	0.00	
11216.00†	90.000	0.079	7267.00	3666.75	3359.62	1911.19	39°57'13.112"N	104°47'42.586"W	0.00	
11316.00†	90.000	0.079	7267.00	3764.87	3459.62	1911.33	39°57'14.101"N	104°47'42.585"W	0.00	
11416.00†	90.000	0.079	7267.00	3863.00	3559.62	1911.47	39°57'15.089"N	104°47'42.583"W	0.00	
11516.00†	90.000	0.079	7267.00	3961.12	3659.62	1911.61	39°57'16.077"N	104°47'42.581"W	0.00	
11616.00†	90.000	0.079	7267.00	4059.24	3759.62	1911.74	39°57'17.065"N	104°47'42.579"W	0.00	
11716.00†	90.000	0.079	7267.00	4157.37	3859.62	1911.88	39°57'18.054"N	104°47'42.577"W	0.00	
11816.00†	90.000	0.079	7267.00	4255.49	3959.62	1912.02	39°57'19.042"N	104°47'42.575"W	0.00	
11916.00†	90.000	0.079	7267.00	4353.62	4059.62	1912.16	39°57'20.030"N	104°47'42.573"W	0.00	
12016.00†	90.000	0.079	7267.00	4451.74	4159.62	1912.29	39°57'21.018"N	104°47'42.571"W	0.00	
12116.00†	90.000	0.079	7267.00	4549.86	4259.62	1912.43	39°57'22.007"N	104°47'42.570"W	0.00	
12216.00†	90.000	0.079	7267.00	4647.99	4359.62	1912.57	39°57'22.995"N	104°47'42.568"W	0.00	
12316.00†	90.000	0.079	7267.00	4746.11	4459.62	1912.71	39°57'23.983"N	104°47'42.566"W	0.00	
12416.00†	90.000	0.079	7267.00	4844.24	4559.62	1912.85	39°57'24.971"N	104°47'42.564"W	0.00	
12516.00†	90.000	0.079	7267.00	4942.36	4659.62	1912.98	39°57'25.960"N	104°47'42.562"W	0.00	
12616.00†	90.000	0.079	7267.00	5040.48	4759.62	1913.12	39°57'26.948"N	104°47'42.560"W	0.00	



# Planned Wellpath Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH DATA (186 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12716.00†	90.000	0.079	7267.00	5138.61	4859.62	1913.26	39°57'27.936"N	104°47'42.558"W	0.00	
12737.85†	90.000	0.079	7267.00	5160.05	4881.48	1913.29	39°57'28.152"N	104°47'42.558"W	0.00	Niobrara A Chalk (Landing Zone)
12816.00†	90.000	0.079	7267.00	5236.73	4959.62	1913.40	39°57'28.924"N	104°47'42.557"W	0.00	
12916.00†	90.000	0.079	7267.00	5334.86	5059.62	1913.53	39°57'29.913"N	104°47'42.555"W	0.00	
13016.00†	90.000	0.079	7267.00	5432.98	5159.62	1913.67	39°57'30.901"N	104°47'42.553"W	0.00	
13116.00†	90.000	0.079	7267.00	5531.10	5259.62	1913.81	39°57'31.889"N	104°47'42.551"W	0.00	
13216.00†	90.000	0.079	7267.00	5629.23	5359.62	1913.95	39°57'32.877"N	104°47'42.549"W	0.00	
13316.00†	90.000	0.079	7267.00	5727.35	5459.62	1914.08	39°57'33.865"N	104°47'42.547"W	0.00	
13416.00†	90.000	0.079	7267.00	5825.47	5559.62	1914.22	39°57'34.854"N	104°47'42.545"W	0.00	
13516.00†	90.000	0.079	7267.00	5923.60	5659.62	1914.36	39°57'35.842"N	104°47'42.543"W	0.00	
13616.00†	90.000	0.079	7267.00	6021.72	5759.62	1914.50	39°57'36.830"N	104°47'42.542"W	0.00	
13716.00†	90.000	0.079	7267.00	6119.85	5859.62	1914.64	39°57'37.818"N	104°47'42.540"W	0.00	
13816.00†	90.000	0.079	7267.00	6217.97	5959.62	1914.77	39°57'38.807"N	104°47'42.538"W	0.00	
13916.00†	90.000	0.079	7267.00	6316.09	6059.62	1914.91	39°57'39.795"N	104°47'42.536"W	0.00	
14016.00†	90.000	0.079	7267.00	6414.22	6159.62	1915.05	39°57'40.783"N	104°47'42.534"W	0.00	
14116.00†	90.000	0.079	7267.00	6512.34	6259.62	1915.19	39°57'41.771"N	104°47'42.532"W	0.00	
14216.00†	90.000	0.079	7267.00	6610.47	6359.62	1915.32	39°57'42.760"N	104°47'42.530"W	0.00	
14316.00†	90.000	0.079	7267.00	6708.59	6459.62	1915.46	39°57'43.748"N	104°47'42.529"W	0.00	
14416.00†	90.000	0.079	7267.00	6806.71	6559.62	1915.60	39°57'44.736"N	104°47'42.527"W	0.00	
14516.00†	90.000	0.079	7267.00	6904.84	6659.62	1915.74	39°57'45.724"N	104°47'42.525"W	0.00	
14616.00†	90.000	0.079	7267.00	7002.96	6759.62	1915.88	39°57'46.713"N	104°47'42.523"W	0.00	
14716.00†	90.000	0.079	7267.00	7101.09	6859.62	1916.01	39°57'47.701"N	104°47'42.521"W	0.00	
14816.00†	90.000	0.079	7267.00	7199.21	6959.62	1916.15	39°57'48.689"N	104°47'42.519"W	0.00	
14916.00†	90.000	0.079	7267.00	7297.33	7059.62	1916.29	39°57'49.677"N	104°47'42.517"W	0.00	
15016.00†	90.000	0.079	7267.00	7395.46	7159.62	1916.43	39°57'50.666"N	104°47'42.515"W	0.00	
15116.00†	90.000	0.079	7267.00	7493.58	7259.62	1916.56	39°57'51.654"N	104°47'42.514"W	0.00	
15216.00†	90.000	0.079	7267.00	7591.71	7359.62	1916.70	39°57'52.642"N	104°47'42.512"W	0.00	
15316.00†	90.000	0.079	7267.00	7689.83	7459.62	1916.84	39°57'53.630"N	104°47'42.510"W	0.00	
15416.00†	90.000	0.079	7267.00	7787.95	7559.62	1916.98	39°57'54.619"N	104°47'42.508"W	0.00	
15516.00†	90.000	0.079	7267.00	7886.08	7659.62	1917.11	39°57'55.607"N	104°47'42.506"W	0.00	
15616.00†	90.000	0.079	7267.00	7984.20	7759.62	1917.25	39°57'56.595"N	104°47'42.504"W	0.00	
15716.00†	90.000	0.079	7267.00	8082.32	7859.62	1917.39	39°57'57.583"N	104°47'42.502"W	0.00	
15816.00†	90.000	0.079	7267.00	8180.45	7959.62	1917.53	39°57'58.571"N	104°47'42.501"W	0.00	
15916.00†	90.000	0.079	7267.00	8278.57	8059.62	1917.67	39°57'59.560"N	104°47'42.499"W	0.00	
16016.00†	90.000	0.079	7267.00	8376.70	8159.62	1917.80	39°58'00.548"N	104°47'42.497"W	0.00	
16116.00†	90.000	0.079	7267.00	8474.82	8259.62	1917.94	39°58'01.536"N	104°47'42.495"W	0.00	
16216.00†	90.000	0.079	7267.00	8572.94	8359.62	1918.08	39°58'02.524"N	104°47'42.493"W	0.00	
16316.00†	90.000	0.079	7267.00	8671.07	8459.62	1918.22	39°58'03.513"N	104°47'42.491"W	0.00	
16416.00†	90.000	0.079	7267.00	8769.19	8559.62	1918.35	39°58'04.501"N	104°47'42.489"W	0.00	
16516.00†	90.000	0.079	7267.00	8867.32	8659.62	1918.49	39°58'05.489"N	104°47'42.487"W	0.00	
16616.00†	90.000	0.079	7267.00	8965.44	8759.62	1918.63	39°58'06.477"N	104°47'42.486"W	0.00	
16716.00†	90.000	0.079	7267.00	9063.56	8859.62	1918.77	39°58'07.466"N	104°47'42.484"W	0.00	
16816.00†	90.000	0.079	7267.00	9161.69	8959.62	1918.91	39°58'08.454"N	104°47'42.482"W	0.00	
16916.00†	90.000	0.079	7267.00	9259.81	9059.62	1919.04	39°58'09.442"N	104°47'42.480"W	0.00	
17016.00†	90.000	0.079	7267.00	9357.94	9159.62	1919.18	39°58'10.430"N	104°47'42.478"W	0.00	





# Planned Wellpath Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH DATA (186 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
17116.00†	90.000	0.079	7267.00	9456.06	9259.62	1919.32	39°58'11.419"N	104°47'42.476"W	0.00	
17216.00†	90.000	0.079	7267.00	9554.18	9359.62	1919.46	39°58'12.407"N	104°47'42.474"W	0.00	
17316.00†	90.000	0.079	7267.00	9652.31	9459.62	1919.59	39°58'13.395"N	104°47'42.473"W	0.00	
17416.00†	90.000	0.079	7267.00	9750.43	9559.62	1919.73	39°58'14.383"N	104°47'42.471"W	0.00	
17516.00†	90.000	0.079	7267.00	9848.56	9659.62	1919.87	39°58'15.372"N	104°47'42.469"W	0.00	
17557.33	90.000	0.079	7267.00 <sup>2</sup>	9889.11	9700.95	1919.93	39°58'15.780"N	104°47'42.468"W	0.00	End of Tangent (J)

## HOLE & CASING SECTIONS

- Ref Wellbore: BRIGHTON LAKES 20-17-1NAH PWB Ref Wellpath: BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	0.00	0.00	0.00
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	0.00	0.00	0.00
8.5in Open Hole	882.00	17558.00	16676.00	882.00	N/A	0.00	0.00	N/A	N/A

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.17-T1S-R66W		0.00	0.00	-44.86	3195665.30	1223370.47	39°56'39.912"N	104°48'07.704"W	polygon
SEC.20-T1S-R66W		0.00	0.00	-44.86	3195665.30	1223370.47	39°56'39.912"N	104°48'07.704"W	polygon
2) BRIGHTON LAKES 20-17-1NAH BHL (NIO A CK, 460'FNL& 1481'FEL,SEC.17,REV-1)	17557.33	7267.00	9700.95	1919.93	3197553.61	1233086.29	39°58'15.780"N	104°47'42.468"W	point
1) BRIGHTON LAKES 20-17-1NAH LP (NIO A CK,460'FSL& 1481'FEL,SEC.20,REV-1	7918.37	7267.00	62.00	1906.65	3197616.21	1223447.83	39°56'40.524"N	104°47'42.648"W	point

## SURVEY PROGRAM -

Ref Wellbore: BRIGHTON LAKES 20-17-1NAH PWB Ref Wellpath: BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	882.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-1NAH PWB
882.00	17557.33	Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-1NAH PWB



# Planned Wellpath Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Page 7 of 7



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
882.00	0.000	106.557	882.00	Fox Hills (Surface Csg)
5029.12	19.006	106.557	4842.00	Sussex / Shannon
7918.32	89.995	0.081	7267.00	Niobrara A Chalk (Landing Zone)
12737.85	90.000	0.079	7267.00	Niobrara A Chalk (Landing Zone)

~VERSION INFORMATION

VERS. 2.0 : CWLS LOG ASCII STANDARD-VERSION 2.0

WRAP. NO : ASCII DATA SECTION CONTAINS ONE ROW PER WELLPATH STATION

~WELL INFORMATION

#MNE	UNITS	DATA	DESCRIPTION
STRT	.ft	0.00	:START MD
STOP	.ft	17557.33	:STOP MD
STEP	.ft	0.0	:STEP (non-uniform increment)
NULL	.	-999.99	:NULL
COMP	.	PETROSHARE	:OPERATOR
WELL	.	BRIGHTON LAKES 20-17-1NAH	:WELL
FLD	.	ADAMS COUNTY (NAD83/ TRUE NORTH)	:FIELD
LOC	.	COLORADO	:AREA (aka: Location)
CNTY	.	N/A	:COUNTY
STAT	.	N/A	:STATE
CTRY	.	N/A	:COUNTRY
SRVC	.	Baker Hughes	:CONTRACTOR
DATE	.	02/21/2017	:LOG REV DATE
API	.		:API NUMBER

~OTHER INFORMATION

#Software: WellArchitect(R) version 5.0

#MNE	UNITS	DATA	DESCRIPTION
WPTYPE	.	PLANNED WELLPATH	:WELLPATH TYPE
FACILITY	.	SEC.20-T01S-R66W	:FACILITY
SLOT	.	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)	:SLOT
WELLBORE	.	BRIGHTON LAKES 20-17-1NAH PWB	:WELLBORE
WELLPATH	.	BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP	:WELLPATH
MDREFPT	.	RIG (16'RKB) (RKB)	:MD REFERENCE POINT
TVDREFPT	.	RIG (16'RKB) (RKB)	:TVD REFERENCE POINT
LCLREFPT	.	Slot	:LOCAL COORDINATE REFERENCE PT
VSAZIMUTH	.deg	11.19	:VERTICAL SECTION AZIMUTH
VSORIGN	.ft	0.00	:VERTICAL SECTION ORIGIN NORTH
VSORIGE	.ft	0.00	:VERTICAL SECTION ORIGIN EAST

~CURVE (WELLPATH) INFORMATION

#MNE	UNITS	DESCRIPTION
DEPT	.ft	:MEASURED DEPTH
INC	.deg	:INCLINATION
AZI	.deg	:AZIMUTH
TVD	.ft	:TRUE VERTICAL DEPTH
SECT	.ft	:CROSS SECTION (CURTAIN/VERTICAL)
LOCALN	.ft	:LOCAL NORTH

PETROSHARE\_BRIGHTON\_LAKES\_20-17-1NAH\_\_REV-A.0\_NIO\_A\_CK\_\_PWP\_02-22-17.1as

LOCALE .ft :LOCAL EAST  
LAT .deg :LATITUDE  
LONG .deg :LONGITUDE  
DLS .deg/100ft :DOGLEG SEVERITY

~ASCII DATA

0.00	0.00	106.56	0.00	0.00	0.00	0.00	39.9444200	-104.8019800	0.00
16.00	0.00	106.56	16.00	0.00	0.00	0.00	39.9444200	-104.8019800	0.00
116.00	0.00	106.56	116.00	0.00	0.00	0.00	39.9444200	-104.8019800	0.00
216.00	0.00	106.56	216.00	0.00	0.00	0.00	39.9444200	-104.8019800	0.00
316.00	0.00	106.56	316.00	0.00	0.00	0.00	39.9444200	-104.8019800	0.00
416.00	0.00	106.56	416.00	0.00	0.00	0.00	39.9444200	-104.8019800	0.00
516.00	0.00	106.56	516.00	0.00	0.00	0.00	39.9444200	-104.8019800	0.00
616.00	0.00	106.56	616.00	0.00	0.00	0.00	39.9444200	-104.8019800	0.00
716.00	0.00	106.56	716.00	0.00	0.00	0.00	39.9444200	-104.8019800	0.00
816.00	0.00	106.56	816.00	0.00	0.00	0.00	39.9444200	-104.8019800	0.00
916.00	0.00	106.56	916.00	0.00	0.00	0.00	39.9444200	-104.8019800	0.00
1016.00	0.00	106.56	1016.00	0.00	0.00	0.00	39.9444200	-104.8019800	0.00
1116.00	0.00	106.56	1116.00	0.00	0.00	0.00	39.9444200	-104.8019800	0.00
1175.00	0.00	106.56	1175.00	0.00	0.00	0.00	39.9444200	-104.8019800	0.00
1216.00	1.23	106.56	1216.00	-0.04	-0.13	0.42	39.9444197	-104.8019785	3.00
1316.00	4.23	106.56	1315.87	-0.49	-1.48	4.99	39.9444159	-104.8019622	3.00
1416.00	7.23	106.56	1415.36	-1.42	-4.33	14.56	39.9444081	-104.8019281	3.00
1516.00	10.23	106.56	1514.19	-2.84	-8.65	29.10	39.9443962	-104.8018762	3.00
1616.00	13.23	106.56	1612.09	-4.74	-14.44	48.59	39.9443803	-104.8018067	3.00
1716.00	16.23	106.56	1708.79	-7.11	-21.69	72.96	39.9443605	-104.8017198	3.00
1808.53	19.01	106.56	1796.97	-9.73	-29.67	99.80	39.9443386	-104.8016241	3.00
1816.00	19.01	106.56	1804.04	-9.96	-30.36	102.13	39.9443367	-104.8016158	0.00
1916.00	19.01	106.56	1898.59	-13.00	-39.64	133.35	39.9443112	-104.8015044	0.00
2016.00	19.01	106.56	1993.14	-16.04	-48.92	164.56	39.9442857	-104.8013931	0.00
2116.00	19.01	106.56	2087.68	-19.09	-58.20	195.78	39.9442602	-104.8012818	0.00
2216.00	19.01	106.56	2182.23	-22.13	-67.48	227.00	39.9442347	-104.8011704	0.00
2316.00	19.01	106.56	2276.78	-25.17	-76.76	258.21	39.9442093	-104.8010591	0.00
2416.00	19.01	106.56	2371.33	-28.22	-86.04	289.43	39.9441838	-104.8009478	0.00
2516.00	19.01	106.56	2465.88	-31.26	-95.32	320.64	39.9441583	-104.8008364	0.00
2616.00	19.01	106.56	2560.43	-34.30	-104.60	351.86	39.9441328	-104.8007251	0.00
2716.00	19.01	106.56	2654.97	-37.34	-113.88	383.08	39.9441074	-104.8006138	0.00
2816.00	19.01	106.56	2749.52	-40.39	-123.16	414.29	39.9440819	-104.8005025	0.00
2916.00	19.01	106.56	2844.07	-43.43	-132.44	445.51	39.9440564	-104.8003911	0.00
3016.00	19.01	106.56	2938.62	-46.47	-141.73	476.73	39.9440309	-104.8002798	0.00
3116.00	19.01	106.56	3033.17	-49.52	-151.01	507.94	39.9440055	-104.8001685	0.00
3216.00	19.01	106.56	3127.72	-52.56	-160.29	539.16	39.9439800	-104.8000571	0.00
3316.00	19.01	106.56	3222.27	-55.60	-169.57	570.37	39.9439545	-104.7999458	0.00
3416.00	19.01	106.56	3316.81	-58.65	-178.85	601.59	39.9439290	-104.7998345	0.00
3516.00	19.01	106.56	3411.36	-61.69	-188.13	632.81	39.9439035	-104.7997231	0.00
3616.00	19.01	106.56	3505.91	-64.73	-197.41	664.02	39.9438781	-104.7996118	0.00
3716.00	19.01	106.56	3600.46	-67.78	-206.69	695.24	39.9438526	-104.7995005	0.00
3816.00	19.01	106.56	3695.01	-70.82	-215.97	726.45	39.9438271	-104.7993892	0.00

PETROSHARE_BRIGHTON_LAKES_20-17-1NAH__REV-A.0_NIO_A_CK__PWP_02-22-17.las									
3916.00	19.01	106.56	3789.56	-73.86	-225.25	757.67	39.9438016	-104.7992778	0.00
4016.00	19.01	106.56	3884.11	-76.91	-234.53	788.89	39.9437762	-104.7991665	0.00
4116.00	19.01	106.56	3978.65	-79.95	-243.81	820.10	39.9437507	-104.7990552	0.00
4216.00	19.01	106.56	4073.20	-82.99	-253.09	851.32	39.9437252	-104.7989438	0.00
4316.00	19.01	106.56	4167.75	-86.04	-262.37	882.54	39.9436997	-104.7988325	0.00
4416.00	19.01	106.56	4262.30	-89.08	-271.65	913.75	39.9436742	-104.7987212	0.00
4516.00	19.01	106.56	4356.85	-92.12	-280.93	944.97	39.9436488	-104.7986099	0.00
4616.00	19.01	106.56	4451.40	-95.17	-290.21	976.18	39.9436233	-104.7984985	0.00
4716.00	19.01	106.56	4545.95	-98.21	-299.49	1007.40	39.9435978	-104.7983872	0.00
4816.00	19.01	106.56	4640.49	-101.25	-308.77	1038.62	39.9435723	-104.7982759	0.00
4916.00	19.01	106.56	4735.04	-104.29	-318.05	1069.83	39.9435469	-104.7981645	0.00
5016.00	19.01	106.56	4829.59	-107.34	-327.33	1101.05	39.9435214	-104.7980532	0.00
5116.00	19.01	106.56	4924.14	-110.38	-336.61	1132.27	39.9434959	-104.7979419	0.00
5216.00	19.01	106.56	5018.69	-113.42	-345.89	1163.48	39.9434704	-104.7978306	0.00
5316.00	19.01	106.56	5113.24	-116.47	-355.17	1194.70	39.9434449	-104.7977192	0.00
5416.00	19.01	106.56	5207.79	-119.51	-364.45	1225.91	39.9434195	-104.7976079	0.00
5516.00	19.01	106.56	5302.33	-122.55	-373.73	1257.13	39.9433940	-104.7974966	0.00
5616.00	19.01	106.56	5396.88	-125.60	-383.01	1288.35	39.9433685	-104.7973852	0.00
5716.00	19.01	106.56	5491.43	-128.64	-392.29	1319.56	39.9433430	-104.7972739	0.00
5816.00	19.01	106.56	5585.98	-131.68	-401.57	1350.78	39.9433175	-104.7971626	0.00
5916.00	19.01	106.56	5680.53	-134.73	-410.85	1382.00	39.9432921	-104.7970513	0.00
6016.00	19.01	106.56	5775.08	-137.77	-420.13	1413.21	39.9432666	-104.7969399	0.00
6116.00	19.01	106.56	5869.63	-140.81	-429.41	1444.43	39.9432411	-104.7968286	0.00
6216.00	19.01	106.56	5964.17	-143.86	-438.69	1475.64	39.9432156	-104.7967173	0.00
6316.00	19.01	106.56	6058.72	-146.90	-447.97	1506.86	39.9431901	-104.7966060	0.00
6416.00	19.01	106.56	6153.27	-149.94	-457.25	1538.08	39.9431647	-104.7964946	0.00
6516.00	19.01	106.56	6247.82	-152.99	-466.53	1569.29	39.9431392	-104.7963833	0.00
6616.00	19.01	106.56	6342.37	-156.03	-475.81	1600.51	39.9431137	-104.7962720	0.00
6716.00	19.01	106.56	6436.92	-159.07	-485.09	1631.72	39.9430882	-104.7961606	0.00
6816.00	19.01	106.56	6531.47	-162.11	-494.37	1662.94	39.9430627	-104.7960493	0.00
6916.00	19.01	106.56	6626.01	-165.16	-503.65	1694.16	39.9430373	-104.7959380	0.00
6965.37	19.01	106.56	6672.70	-166.66	-508.24	1709.57	39.9430247	-104.7958830	0.00
7016.00	18.28	90.84	6720.70	-166.00	-510.70	1725.42	39.9430179	-104.7958265	10.00
7116.00	20.64	61.33	6815.20	-151.85	-502.45	1756.65	39.9430405	-104.7957151	10.00
7216.00	26.67	41.20	6906.91	-121.04	-477.05	1786.97	39.9431103	-104.7956070	10.00
7316.00	34.48	28.82	6993.02	-74.51	-435.25	1815.47	39.9432250	-104.7955053	10.00
7416.00	43.12	20.73	7070.93	-13.67	-378.34	1841.28	39.9433812	-104.7954132	10.00
7516.00	52.17	14.94	7138.26	59.63	-308.05	1863.62	39.9435742	-104.7953336	10.00
7616.00	61.43	10.44	7192.98	143.16	-226.50	1881.81	39.9437980	-104.7952687	10.00
7716.00	70.83	6.68	7233.41	234.38	-136.18	1895.29	39.9440460	-104.7952206	10.00
7816.00	80.28	3.32	7258.34	330.52	-39.83	1903.65	39.9443105	-104.7951907	10.00
7916.00	89.78	0.15	7267.00	428.66	59.63	1906.65	39.9445835	-104.7951800	10.00
7918.37	90.00	0.08	7267.00	430.99	62.00	1906.65	39.9445900	-104.7951800	10.00
8016.00	90.00	0.08	7267.00	526.78	159.63	1906.79	39.9448580	-104.7951795	0.00
8116.00	90.00	0.08	7267.00	624.91	259.63	1906.92	39.9451325	-104.7951790	0.00
8216.00	90.00	0.08	7267.00	723.03	359.63	1907.06	39.9454070	-104.7951785	0.00
8316.00	90.00	0.08	7267.00	821.15	459.63	1907.20	39.9456815	-104.7951779	0.00
8416.00	90.00	0.08	7267.00	919.28	559.63	1907.34	39.9459560	-104.7951774	0.00

PETROSHARE\_BRIGHTON\_LAKES\_20-17-1NAH\_\_REV-A.0\_NIO\_A\_CK\_\_\_PWP\_02-22-17.las

8516.00	90.00	0.08	7267.00	1017.40	659.63	1907.47	39.9462305	-104.7951769	0.00
8616.00	90.00	0.08	7267.00	1115.53	759.63	1907.61	39.9465051	-104.7951764	0.00
8716.00	90.00	0.08	7267.00	1213.65	859.63	1907.75	39.9467796	-104.7951759	0.00
8816.00	90.00	0.08	7267.00	1311.77	959.63	1907.89	39.9470541	-104.7951753	0.00
8916.00	90.00	0.08	7267.00	1409.90	1059.63	1908.03	39.9473286	-104.7951748	0.00
9016.00	90.00	0.08	7267.00	1508.02	1159.63	1908.16	39.9476031	-104.7951743	0.00
9116.00	90.00	0.08	7267.00	1606.15	1259.63	1908.30	39.9478776	-104.7951738	0.00
9216.00	90.00	0.08	7267.00	1704.27	1359.63	1908.44	39.9481521	-104.7951733	0.00
9316.00	90.00	0.08	7267.00	1802.39	1459.63	1908.58	39.9484266	-104.7951728	0.00
9416.00	90.00	0.08	7267.00	1900.52	1559.63	1908.71	39.9487012	-104.7951722	0.00
9516.00	90.00	0.08	7267.00	1998.64	1659.63	1908.85	39.9489757	-104.7951717	0.00
9616.00	90.00	0.08	7267.00	2096.77	1759.63	1908.99	39.9492502	-104.7951712	0.00
9716.00	90.00	0.08	7267.00	2194.89	1859.62	1909.13	39.9495247	-104.7951707	0.00
9816.00	90.00	0.08	7267.00	2293.01	1959.62	1909.26	39.9497992	-104.7951702	0.00
9916.00	90.00	0.08	7267.00	2391.14	2059.62	1909.40	39.9500737	-104.7951696	0.00
10016.00	90.00	0.08	7267.00	2489.26	2159.62	1909.54	39.9503482	-104.7951691	0.00
10116.00	90.00	0.08	7267.00	2587.39	2259.62	1909.68	39.9506227	-104.7951686	0.00
10216.00	90.00	0.08	7267.00	2685.51	2359.62	1909.82	39.9508972	-104.7951681	0.00
10316.00	90.00	0.08	7267.00	2783.63	2459.62	1909.95	39.9511718	-104.7951676	0.00
10416.00	90.00	0.08	7267.00	2881.76	2559.62	1910.09	39.9514463	-104.7951670	0.00
10516.00	90.00	0.08	7267.00	2979.88	2659.62	1910.23	39.9517208	-104.7951665	0.00
10616.00	90.00	0.08	7267.00	3078.00	2759.62	1910.37	39.9519953	-104.7951660	0.00
10716.00	90.00	0.08	7267.00	3176.13	2859.62	1910.50	39.9522698	-104.7951655	0.00
10816.00	90.00	0.08	7267.00	3274.25	2959.62	1910.64	39.9525443	-104.7951650	0.00
10916.00	90.00	0.08	7267.00	3372.38	3059.62	1910.78	39.9528188	-104.7951645	0.00
11016.00	90.00	0.08	7267.00	3470.50	3159.62	1910.92	39.9530933	-104.7951639	0.00
11116.00	90.00	0.08	7267.00	3568.62	3259.62	1911.06	39.9533678	-104.7951634	0.00
11216.00	90.00	0.08	7267.00	3666.75	3359.62	1911.19	39.9536424	-104.7951629	0.00
11316.00	90.00	0.08	7267.00	3764.87	3459.62	1911.33	39.9539169	-104.7951624	0.00
11416.00	90.00	0.08	7267.00	3863.00	3559.62	1911.47	39.9541914	-104.7951619	0.00
11516.00	90.00	0.08	7267.00	3961.12	3659.62	1911.61	39.9544659	-104.7951613	0.00
11616.00	90.00	0.08	7267.00	4059.24	3759.62	1911.74	39.9547404	-104.7951608	0.00
11716.00	90.00	0.08	7267.00	4157.37	3859.62	1911.88	39.9550149	-104.7951603	0.00
11816.00	90.00	0.08	7267.00	4255.49	3959.62	1912.02	39.9552894	-104.7951598	0.00
11916.00	90.00	0.08	7267.00	4353.62	4059.62	1912.16	39.9555639	-104.7951593	0.00
12016.00	90.00	0.08	7267.00	4451.74	4159.62	1912.29	39.9558384	-104.7951587	0.00
12116.00	90.00	0.08	7267.00	4549.86	4259.62	1912.43	39.9561130	-104.7951582	0.00
12216.00	90.00	0.08	7267.00	4647.99	4359.62	1912.57	39.9563875	-104.7951577	0.00
12316.00	90.00	0.08	7267.00	4746.11	4459.62	1912.71	39.9566620	-104.7951572	0.00
12416.00	90.00	0.08	7267.00	4844.24	4559.62	1912.85	39.9569365	-104.7951567	0.00
12516.00	90.00	0.08	7267.00	4942.36	4659.62	1912.98	39.9572110	-104.7951562	0.00
12616.00	90.00	0.08	7267.00	5040.48	4759.62	1913.12	39.9574855	-104.7951556	0.00
12716.00	90.00	0.08	7267.00	5138.61	4859.62	1913.26	39.9577600	-104.7951551	0.00
12816.00	90.00	0.08	7267.00	5236.73	4959.62	1913.40	39.9580345	-104.7951546	0.00
12916.00	90.00	0.08	7267.00	5334.86	5059.62	1913.53	39.9583090	-104.7951541	0.00
13016.00	90.00	0.08	7267.00	5432.98	5159.62	1913.67	39.9585835	-104.7951536	0.00
13116.00	90.00	0.08	7267.00	5531.10	5259.62	1913.81	39.9588581	-104.7951530	0.00
13216.00	90.00	0.08	7267.00	5629.23	5359.62	1913.95	39.9591326	-104.7951525	0.00

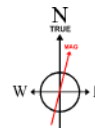


PETROSHARE\_BRIGHTON\_LAKES\_20-17-1NAH\_\_REV-A.0\_NIO\_A\_CK\_\_\_PWP\_02-22-17.las

13316.00	90.00	0.08	7267.00	5727.35	5459.62	1914.08	39.9594071	-104.7951520	0.00
13416.00	90.00	0.08	7267.00	5825.47	5559.62	1914.22	39.9596816	-104.7951515	0.00
13516.00	90.00	0.08	7267.00	5923.60	5659.62	1914.36	39.9599561	-104.7951510	0.00
13616.00	90.00	0.08	7267.00	6021.72	5759.62	1914.50	39.9602306	-104.7951504	0.00
13716.00	90.00	0.08	7267.00	6119.85	5859.62	1914.64	39.9605051	-104.7951499	0.00
13816.00	90.00	0.08	7267.00	6217.97	5959.62	1914.77	39.9607796	-104.7951494	0.00
13916.00	90.00	0.08	7267.00	6316.09	6059.62	1914.91	39.9610541	-104.7951489	0.00
14016.00	90.00	0.08	7267.00	6414.22	6159.62	1915.05	39.9613287	-104.7951484	0.00
14116.00	90.00	0.08	7267.00	6512.34	6259.62	1915.19	39.9616032	-104.7951479	0.00
14216.00	90.00	0.08	7267.00	6610.47	6359.62	1915.32	39.9618777	-104.7951473	0.00
14316.00	90.00	0.08	7267.00	6708.59	6459.62	1915.46	39.9621522	-104.7951468	0.00
14416.00	90.00	0.08	7267.00	6806.71	6559.62	1915.60	39.9624267	-104.7951463	0.00
14516.00	90.00	0.08	7267.00	6904.84	6659.62	1915.74	39.9627012	-104.7951458	0.00
14616.00	90.00	0.08	7267.00	7002.96	6759.62	1915.88	39.9629757	-104.7951453	0.00
14716.00	90.00	0.08	7267.00	7101.09	6859.62	1916.01	39.9632502	-104.7951447	0.00
14816.00	90.00	0.08	7267.00	7199.21	6959.62	1916.15	39.9635247	-104.7951442	0.00
14916.00	90.00	0.08	7267.00	7297.33	7059.62	1916.29	39.9637993	-104.7951437	0.00
15016.00	90.00	0.08	7267.00	7395.46	7159.62	1916.43	39.9640738	-104.7951432	0.00
15116.00	90.00	0.08	7267.00	7493.58	7259.62	1916.56	39.9643483	-104.7951427	0.00
15216.00	90.00	0.08	7267.00	7591.71	7359.62	1916.70	39.9646228	-104.7951421	0.00
15316.00	90.00	0.08	7267.00	7689.83	7459.62	1916.84	39.9648973	-104.7951416	0.00
15416.00	90.00	0.08	7267.00	7787.95	7559.62	1916.98	39.9651718	-104.7951411	0.00
15516.00	90.00	0.08	7267.00	7886.08	7659.62	1917.11	39.9654463	-104.7951406	0.00
15616.00	90.00	0.08	7267.00	7984.20	7759.62	1917.25	39.9657208	-104.7951401	0.00
15716.00	90.00	0.08	7267.00	8082.32	7859.62	1917.39	39.9659953	-104.7951396	0.00
15816.00	90.00	0.08	7267.00	8180.45	7959.62	1917.53	39.9662699	-104.7951390	0.00
15916.00	90.00	0.08	7267.00	8278.57	8059.62	1917.67	39.9665444	-104.7951385	0.00
16016.00	90.00	0.08	7267.00	8376.70	8159.62	1917.80	39.9668189	-104.7951380	0.00
16116.00	90.00	0.08	7267.00	8474.82	8259.62	1917.94	39.9670934	-104.7951375	0.00
16216.00	90.00	0.08	7267.00	8572.94	8359.62	1918.08	39.9673679	-104.7951370	0.00
16316.00	90.00	0.08	7267.00	8671.07	8459.62	1918.22	39.9676424	-104.7951364	0.00
16416.00	90.00	0.08	7267.00	8769.19	8559.62	1918.35	39.9679169	-104.7951359	0.00
16516.00	90.00	0.08	7267.00	8867.32	8659.62	1918.49	39.9681914	-104.7951354	0.00
16616.00	90.00	0.08	7267.00	8965.44	8759.62	1918.63	39.9684659	-104.7951349	0.00
16716.00	90.00	0.08	7267.00	9063.56	8859.62	1918.77	39.9687405	-104.7951344	0.00
16816.00	90.00	0.08	7267.00	9161.69	8959.62	1918.91	39.9690150	-104.7951338	0.00
16916.00	90.00	0.08	7267.00	9259.81	9059.62	1919.04	39.9692895	-104.7951333	0.00
17016.00	90.00	0.08	7267.00	9357.94	9159.62	1919.18	39.9695640	-104.7951328	0.00
17116.00	90.00	0.08	7267.00	9456.06	9259.62	1919.32	39.9698385	-104.7951323	0.00
17216.00	90.00	0.08	7267.00	9554.18	9359.62	1919.46	39.9701130	-104.7951318	0.00
17316.00	90.00	0.08	7267.00	9652.31	9459.62	1919.59	39.9703875	-104.7951313	0.00
17416.00	90.00	0.08	7267.00	9750.43	9559.62	1919.73	39.9706620	-104.7951307	0.00
17516.00	90.00	0.08	7267.00	9848.56	9659.62	1919.87	39.9709365	-104.7951302	0.00
17557.33	90.00	0.08	7267.00	9889.11	9700.95	1919.93	39.9710500	-104.7951300	0.00

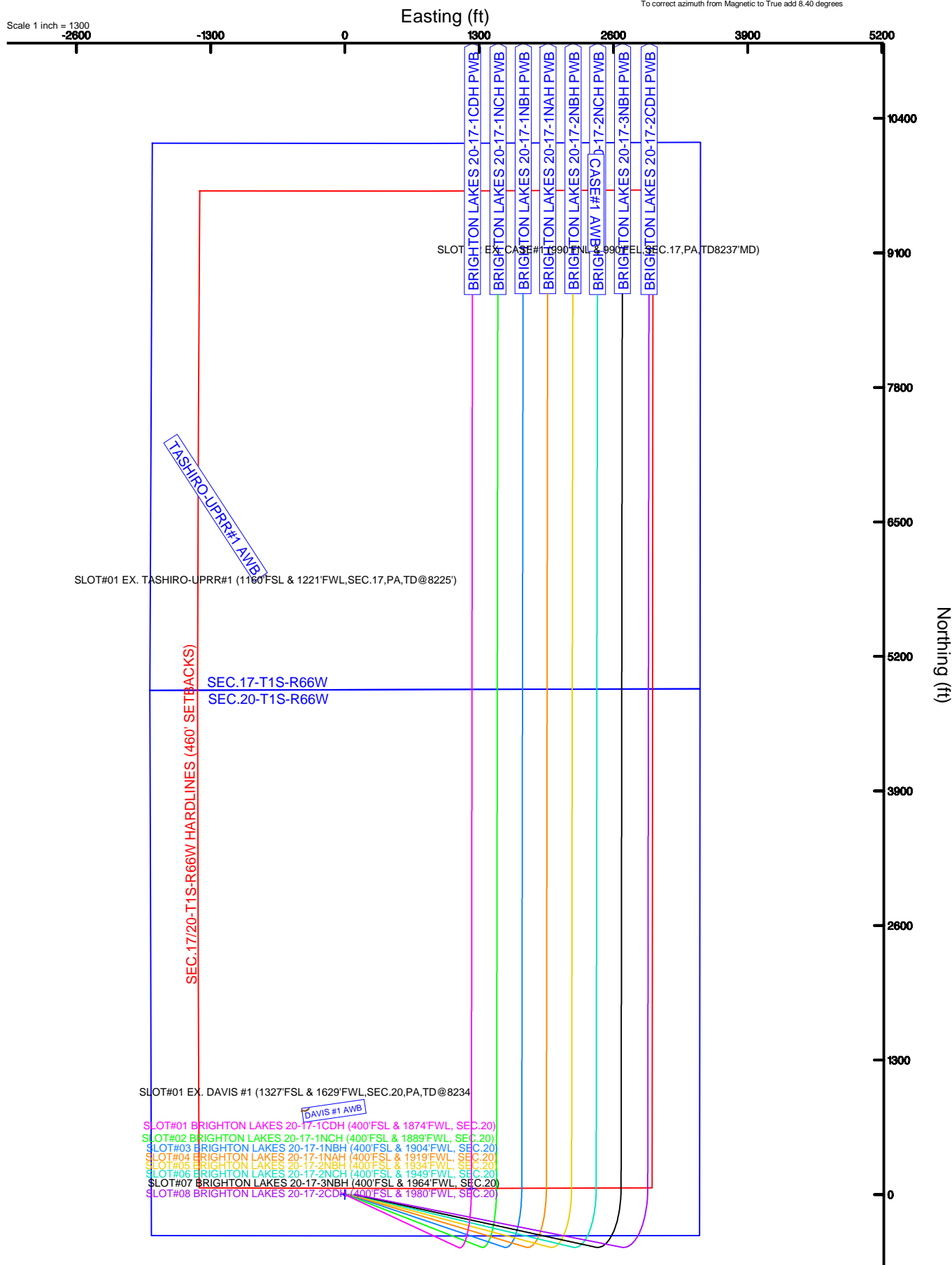
# PETROSHARE

Location: COLORADO Slot: SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20)  
Field: ADAMS COUNTY (NAD83/ TRUE NORTH) Well: BRIGHTON LAKES 20-17-1CDH  
Facility: SEC.20-T01S-R66W Wellbore: BRIGHTON LAKES 20-17-1CDH PWB



BGGM (1900.0 to 2018.0) Dip: 66.53° Field: 52182.9 nT  
Magnetic North is 8.40 degrees East of True North (at 21-Feb-17)

To correct azimuth from Magnetic to True add 8.40 degrees

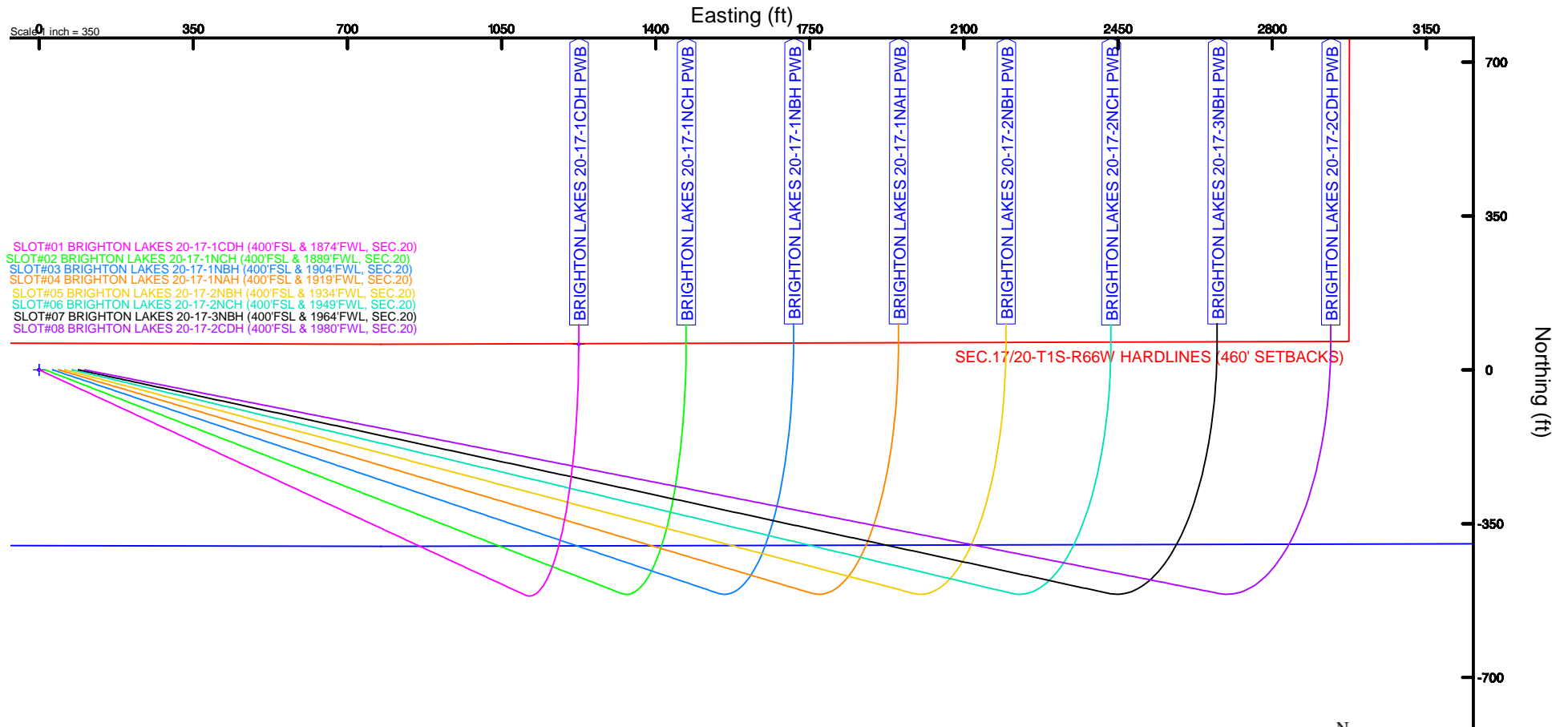


# PETROSHARE

Location: COLORADO Slot: SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20)  
Field: ADAMS COUNTY (NAD83/ TRUE NORTH) Well: BRIGHTON LAKES 20-17-1CDH  
Facility: SEC.20-T01S-R66W Wellbore: BRIGHTON LAKES 20-17-1CDH PWB



Plot reference wellpath is BRIGHTON LAKES 20-17-1CDH (REV-A.0, CODELL) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to RIG (16' RKB) (RT)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to RIG (16' RKB) (RT)	North Reference: True north
RIG (16' RKB) (RT) to Mean Sea Level: 5063 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdann on 2017-02-23
	Database: WA_Denver



BGM (1900.0 to 2018.0) Dip: 66.53° Field: 52182.9 nT  
Magnetic North is 8.40 degrees East of True North (at 21-Feb-17)  
To correct azimuth from Magnetic to True add 8.40 degrees



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Cookdanm
Scale	0.999971	Report Generated	23-Feb-17 at 10:11:15 AM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/BRIGHTON_LAKES_20-17-1NAH_REV-A.0_NIO_A_CK_PWP_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	44.86	3195710.16	1223370.83	39°56'39.912"N	104°48'07.128"W
Facility Reference Pt			3195665.30	1223370.47	39°56'39.912"N	104°48'07.704"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'RKB) (RKB) to Facility Vertical Datum	5063.00ft
Horizontal Reference Pt	Slot	RIG (16'RKB) (RKB) to Mean Sea Level	5063.00ft
Vertical Reference Pt	RIG (16'RKB) (RKB)	RIG (16'RKB) (RKB) to Mud Line at Slot (SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20))	5063.00ft
MD Reference Pt	RIG (16'RKB) (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	8.40° East of TN	Dip Angle	66.53°	Mag Field Strength	52183 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
Include Casing & Hole Size	yes	Apply Cone of Safety	no



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## HOLE & CASING SECTIONS - Ref Wellbore: BRIGHTON LAKES 20-17-1NAH PWB Ref Wellpath: BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	0.00	0.00	0.00
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	0.00	0.00	0.00
8.5in Open Hole	882.00	17558.00	16676.00	882.00	N/A	0.00	0.00	N/A	N/A

## SURVEY PROGRAM - Ref Wellbore: BRIGHTON LAKES 20-17-1NAH PWB Ref Wellpath: BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	882.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-1NAH PWB
882.00	17557.33	Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-1NAH PWB

## CALCULATION RANGE & CUTOFF

From: 16.00ft MD	To: 17557.33ft MD	C-C Cutoff: 1000.00 ft
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## OFFSET WELL CLEARANCE SUMMARY (10 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.20-T01S-R66W	SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20)	BRIGHTON LAKES 20-17-1NBH	BRIGHTON LAKES 20-17-1NBH PWB	BRIGHTON LAKES 20-17-1NBH (NIO B CK, REV-A.0) PWP	16.00	14.02	17557.33	17557.33	0.55	17557.33	FAIL
SEC.20-T01S-R66W	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)	BRIGHTON LAKES 20-17-2NBH	BRIGHTON LAKES 20-17-2NBH PWB	BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP	16.00	14.02	17557.33	17557.33	0.56	17557.33	FAIL
SEC.20-T01S-R66W	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)	BRIGHTON LAKES 20-17-1NCH	BRIGHTON LAKES 20-17-1NCH PWB	BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP	16.00	30.84	17552.98	17552.98	0.98	17552.98	FAIL
SEC.20-T01S-R66W	SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20)	BRIGHTON LAKES 20-17-2NCH	BRIGHTON LAKES 20-17-2NCH PWB	BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)	16.00	30.84	17557.33	17557.33	0.99	17557.33	FAIL
SEC.20-T01S-R66W	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)	BRIGHTON LAKES 20-17-3NBH	BRIGHTON LAKES 20-17-3NBH PWB	BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP	16.00	44.86	17557.33	17557.33	1.21	17557.33	PASS
SEC.17-T01S-R66W	SLOT#02 EX. CASE#1 (990'FNL & 990'FEL, SEC.17,PA,TD@8237MD)	CASE#1	CASE#1 AWB	CASE#1 AWP	16972.80	462.47	16972.80	17024.00	1.39	17024.00	PASS
SEC.20-T01S-R66W	SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20)	BRIGHTON LAKES 20-17-1CDH	BRIGHTON LAKES 20-17-1CDH PWB	BRIGHTON LAKES 20-17-1CDH (REV-A.0,CODELL) PWP	16.00	44.86	7918.37	17552.83	1.52	17552.83	PASS
SEC.20-T01S-R66W	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)	BRIGHTON LAKES 20-17-2CDH	BRIGHTON LAKES 20-17-2CDH PWB	BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP	16.00	58.88	17557.33	17557.33	1.86	17557.33	PASS
SEC.17-T01S-R66W	SLOT#01 EX. TASHIRO-UPRR#1 (1160'FSL & 1221'FWL, SEC.17,PA,TD@8225')	TASHIRO-UPRR#1	TASHIRO-UPRR#1 AWB	TASHIRO-UPRR#1 AWP	13816.00	2775.44	13816.00	14036.37	12.02	14036.37	PASS
SEC.20-T01S-R66W	SLOT#01 EX. DAVIS #1 (1327'FSL & 1629'FWL, SEC.20,PA,TD@8234)	DAVIS #1	DAVIS #1 AWB	DAVIS #1 AWP	1065.38	914.07	8616.00	1185.66	18.41	9316.00	PASS



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-1NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NBH (NIO B CK, REV-A.0) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NBH 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	-14.02	-90.00	14.02	1.56	21.76	PASS	
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	-14.02	-90.00	14.02	1.89	14.04	PASS	
216.00	216.00	0.00	0.00	216.00	216.00	0.00	-14.02	-90.00	14.02	2.47	8.66	PASS	
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-14.02	-90.00	14.02	3.08	6.18	PASS	
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	-14.02	-90.00	14.02	3.69	4.78	PASS	
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	-14.02	-90.00	14.02	4.31	3.90	PASS	
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	-14.02	-90.00	14.02	4.94	3.29	PASS	
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	-14.02	-90.00	14.02	5.56	2.84	PASS	
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	-14.02	-90.00	14.02	6.19	2.50	PASS	
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	-14.02	-90.00	14.02	6.26	2.40	PASS	
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	-14.02	-90.00	14.02	6.40	2.34	PASS	
1116.00†	1116.00	0.00	0.00	1116.00	1116.00	0.00	-14.02	-90.00	14.02	6.73	2.21	PASS	
1175.00	1175.00	0.00	0.00	1175.00	1175.00	0.00	-14.02	-90.00	14.02	7.00	2.11	PASS	
1216.00†	1216.00	-0.13	0.42	1216.00	1216.00	0.00	-14.02	163.94	14.44	7.21	2.11	PASS	
1316.00†	1315.87	-1.48	4.99	1316.69	1316.65	-0.70	-11.93	166.10	16.96	8.26	2.15	PASS	
1416.00†	1415.36	-4.33	14.56	1417.59	1417.26	-3.09	-4.82	167.15	19.51	10.28	1.97	PASS	
1516.00†	1514.19	-8.65	29.10	1518.62	1517.46	-7.18	7.33	167.44	22.07	12.14	1.87	PASS	
1616.00†	1612.09	-14.44	48.59	1619.78	1616.97	-12.96	24.52	167.22	24.61	13.82	1.82	PASS	
1716.00†	1708.79	-21.69	72.96	1721.07	1715.51	-20.43	46.70	166.63	27.13	15.37	1.80	PASS	
1808.53	1796.97	-29.67	99.80	1814.38	1805.17	-28.67	71.21	166.01	29.76	16.56	1.83	PASS	
1816.00†	1804.04	-30.36	102.13	1821.85	1812.32	-29.35	73.23	166.01	30.08	16.63	1.84	PASS	
1916.00†	1898.59	-39.64	133.35	1921.76	1908.05	-38.47	100.34	166.04	34.36	17.43	2.01	PASS	
2016.00†	1993.14	-48.92	164.56	2021.67	2003.77	-47.59	127.45	166.06	38.63	18.31	2.15	PASS	
2116.00†	2087.68	-58.20	195.78	2121.57	2099.50	-56.71	154.55	166.08	42.91	19.23	2.28	PASS	
2216.00†	2182.23	-67.48	227.00	2221.48	2195.23	-65.83	181.66	166.09	47.19	20.20	2.38	PASS	
2316.00†	2276.78	-76.76	258.21	2321.39	2290.95	-74.95	208.77	166.10	51.46	21.22	2.47	PASS	
2416.00†	2371.33	-86.04	289.43	2421.30	2386.68	-84.07	235.88	166.12	55.74	22.28	2.55	PASS	
2516.00†	2465.88	-95.32	320.64	2521.21	2482.41	-93.19	262.99	166.12	60.02	23.37	2.62	PASS	
2616.00†	2560.43	-104.60	351.86	2621.12	2578.14	-102.31	290.10	166.13	64.29	24.49	2.67	PASS	
2716.00†	2654.97	-113.88	383.08	2721.02	2673.86	-111.42	317.20	166.14	68.57	25.63	2.72	PASS	
2816.00†	2749.52	-123.16	414.29	2820.93	2769.59	-120.54	344.31	166.14	72.85	26.79	2.77	PASS	
2916.00†	2844.07	-132.44	445.51	2920.84	2865.32	-129.66	371.42	166.15	77.13	27.97	2.80	PASS	
3016.00†	2938.62	-141.73	476.73	3020.75	2961.04	-138.78	398.53	166.15	81.40	29.16	2.84	PASS	
3116.00†	3033.17	-151.01	507.94	3120.66	3056.77	-147.90	425.64	166.16	85.68	30.37	2.86	PASS	
3216.00†	3127.72	-160.29	539.16	3220.57	3152.50	-157.02	452.74	166.16	89.96	31.59	2.89	PASS	
3316.00†	3222.27	-169.57	570.37	3320.48	3248.23	-166.14	479.85	166.17	94.23	32.82	2.91	PASS	
3416.00†	3316.81	-178.85	601.59	3420.38	3343.95	-175.26	506.96	166.17	98.51	34.07	2.93	PASS	
3516.00†	3411.36	-188.13	632.81	3520.29	3439.68	-184.38	534.07	166.17	102.79	35.32	2.95	PASS	
3616.00†	3505.91	-197.41	664.02	3620.20	3535.41	-193.50	561.18	166.17	107.06	36.57	2.97	PASS	
3716.00†	3600.46	-206.69	695.24	3720.11	3631.14	-202.62	588.28	166.18	111.34	37.84	2.98	PASS	
3816.00†	3695.01	-215.97	726.45	3820.02	3726.86	-211.74	615.39	166.18	115.62	39.11	2.99	PASS	
3916.00†	3789.56	-225.25	757.67	3919.93	3822.59	-220.86	642.50	166.18	119.89	40.38	3.00	PASS	
4016.00†	3884.11	-234.53	788.89	4019.84	3918.32	-229.98	669.61	166.18	124.17	41.67	3.01	PASS	
4116.00†	3978.65	-243.81	820.10	4119.74	4014.04	-239.09	696.72	166.19	128.45	42.95	3.02	PASS	
4216.00†	4073.20	-253.09	851.32	4219.65	4109.77	-248.21	723.83	166.19	132.72	44.24	3.03	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-1NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NBH (NIO B CK, REV-A.0) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NBH 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†	4167.75	-262.37	882.54	4319.56	4205.50	-257.33	750.93	166.19	137.00	45.54	3.04	PASS	
4416.00†	4262.30	-271.65	913.75	4419.47	4301.23	-266.45	778.04	166.19	141.28	46.83	3.05	PASS	
4516.00†	4356.85	-280.93	944.97	4519.38	4396.95	-275.57	805.15	166.19	145.55	48.13	3.05	PASS	
4616.00†	4451.40	-290.21	976.18	4619.29	4492.68	-284.69	832.26	166.19	149.83	49.44	3.06	PASS	
4716.00†	4545.95	-299.49	1007.40	4719.19	4588.41	-293.81	859.37	166.19	154.11	50.75	3.07	PASS	
4816.00†	4640.49	-308.77	1038.62	4819.10	4684.13	-302.93	886.47	166.20	158.39	52.05	3.07	PASS	
4916.00†	4735.04	-318.05	1069.83	4919.01	4779.86	-312.05	913.58	166.20	162.66	53.37	3.08	PASS	
5016.00†	4829.59	-327.33	1101.05	5018.92	4875.59	-321.17	940.69	166.20	166.94	54.68	3.08	PASS	
5116.00†	4924.14	-336.61	1132.27	5118.83	4971.32	-330.29	967.80	166.20	171.22	56.00	3.08	PASS	
5216.00†	5018.69	-345.89	1163.48	5218.74	5067.04	-339.41	994.91	166.20	175.49	57.31	3.09	PASS	
5316.00†	5113.24	-355.17	1194.70	5318.65	5162.77	-348.53	1022.01	166.20	179.77	58.63	3.09	PASS	
5416.00†	5207.79	-364.45	1225.91	5418.55	5258.50	-357.65	1049.12	166.20	184.05	59.95	3.09	PASS	
5516.00†	5302.33	-373.73	1257.13	5518.46	5354.22	-366.76	1076.23	166.20	188.32	61.28	3.10	PASS	
5616.00†	5396.88	-383.01	1288.35	5618.37	5449.95	-375.88	1103.34	166.20	192.60	62.60	3.10	PASS	
5716.00†	5491.43	-392.29	1319.56	5718.28	5545.68	-385.00	1130.45	166.20	196.88	63.93	3.10	PASS	
5816.00†	5585.98	-401.57	1350.78	5818.19	5641.41	-394.12	1157.56	166.21	201.15	65.25	3.11	PASS	
5916.00†	5680.53	-410.85	1382.00	5918.10	5737.13	-403.24	1184.66	166.21	205.43	66.58	3.11	PASS	
6016.00†	5775.08	-420.13	1413.21	6018.01	5832.86	-412.36	1211.77	166.21	209.71	67.91	3.11	PASS	
6116.00†	5869.63	-429.41	1444.43	6117.91	5928.59	-421.48	1238.88	166.21	213.98	69.24	3.11	PASS	
6216.00†	5964.17	-438.69	1475.64	6217.82	6024.32	-430.60	1265.99	166.21	218.26	70.57	3.11	PASS	
6316.00†	6058.72	-447.97	1506.86	6317.73	6120.04	-439.72	1293.10	166.21	222.54	71.90	3.12	PASS	
6416.00†	6153.27	-457.25	1538.08	6417.64	6215.77	-448.84	1320.20	166.21	226.81	73.23	3.12	PASS	
6516.00†	6247.82	-466.53	1569.29	6517.55	6311.50	-457.96	1347.31	166.21	231.09	74.57	3.12	PASS	
6616.00†	6342.37	-475.81	1600.51	6617.46	6407.22	-467.08	1374.42	166.21	235.37	75.90	3.12	PASS	
6716.00†	6436.92	-485.09	1631.72	6717.36	6502.95	-476.20	1401.53	166.21	239.65	77.24	3.12	PASS	
6816.00†	6531.47	-494.37	1662.94	6817.27	6598.68	-485.32	1428.64	166.21	243.92	78.57	3.12	PASS	
6916.00†	6626.01	-503.65	1694.16	6917.18	6694.41	-494.44	1455.74	166.21	248.20	79.91	3.12	PASS	
6965.37	6672.70	-508.24	1709.57	6966.51	6741.67	-498.94	1469.13	166.21	250.31	80.57	3.13	PASS	
7016.00†	6720.70	-510.70	1725.42	7017.03	6790.07	-503.55	1482.84	-179.18	252.41	81.57	3.11	PASS	
7116.00†	6815.20	-502.45	1756.65	7116.04	6885.06	-510.72	1509.74	-154.30	256.74	85.34	3.03	PASS	
7216.00†	6906.91	-477.05	1786.97	7217.46	6982.21	-502.85	1537.27	-139.22	262.08	89.17	2.95	PASS	
7316.00†	6993.02	-435.25	1815.47	7322.33	7079.63	-476.15	1564.91	-131.72	268.24	91.82	2.94	PASS	
7416.00†	7070.93	-378.34	1841.28	7430.82	7173.73	-429.61	1591.63	-128.25	274.81	92.68	2.98	PASS	
7516.00†	7138.26	-308.05	1863.62	7542.94	7260.32	-363.07	1616.26	-126.79	281.27	91.61	3.09	PASS	
7616.00†	7192.98	-226.50	1881.81	7658.49	7334.76	-277.54	1637.47	-126.30	287.07	89.01	3.24	PASS	
7716.00†	7233.41	-136.18	1895.29	7776.99	7392.38	-175.56	1653.93	-126.22	291.67	85.88	3.42	PASS	
7816.00†	7258.34	-39.83	1903.65	7897.65	7429.08	-61.33	1664.49	-126.27	294.64	83.67	3.54	PASS	
7916.00†	7267.00	59.63	1906.65	8019.47	7441.99	59.51	1668.31	-126.29	295.68	83.71	3.55	PASS	
7918.37	7267.00	62.00	1906.65	8022.29	7442.00	62.33	1668.32	-126.29	295.68	83.74	3.55	PASS	
8016.00†	7267.00	159.63	1906.79	8119.92	7442.00	159.96	1668.46	-126.29	295.68	85.01	3.50	PASS	
8116.00†	7267.00	259.63	1906.92	8219.92	7442.00	259.96	1668.59	-126.29	295.68	86.72	3.43	PASS	
8216.00†	7267.00	359.63	1907.06	8319.92	7442.00	359.96	1668.73	-126.29	295.68	88.72	3.35	PASS	
8316.00†	7267.00	459.63	1907.20	8419.92	7442.00	459.96	1668.87	-126.29	295.68	90.94	3.27	PASS	
8416.00†	7267.00	559.63	1907.34	8519.92	7442.00	559.96	1669.01	-126.29	295.68	93.50	3.18	PASS	
8516.00†	7267.00	659.63	1907.47	8619.92	7442.00	659.96	1669.15	-126.29	295.68	96.25	3.09	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-1NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NBH (NIO B CK, REV-A.0) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NBH 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	
8616.00†	7267.00	759.63	1907.61	8719.92	7442.00	759.96	1669.29	-126.29	295.67	99.20	2.99	PASS	
8716.00†	7267.00	859.63	1907.75	8819.92	7442.00	859.96	1669.43	-126.29	295.67	102.35	2.90	PASS	
8816.00†	7267.00	959.63	1907.89	8919.92	7442.00	959.96	1669.57	-126.29	295.67	105.67	2.81	PASS	
8916.00†	7267.00	1059.63	1908.03	9019.92	7442.00	1059.96	1669.70	-126.29	295.67	109.14	2.72	PASS	
9016.00†	7267.00	1159.63	1908.16	9119.92	7442.00	1159.96	1669.84	-126.29	295.67	112.77	2.63	PASS	
9116.00†	7267.00	1259.63	1908.30	9219.92	7442.00	1259.96	1669.98	-126.29	295.67	116.52	2.55	PASS	
9216.00†	7267.00	1359.63	1908.44	9319.92	7442.00	1359.96	1670.12	-126.29	295.67	120.39	2.46	PASS	
9316.00†	7267.00	1459.63	1908.58	9419.92	7442.00	1459.96	1670.26	-126.29	295.67	124.36	2.39	PASS	
9416.00†	7267.00	1559.63	1908.71	9519.92	7442.00	1559.96	1670.40	-126.29	295.67	128.44	2.31	PASS	
9516.00†	7267.00	1659.63	1908.85	9619.92	7442.00	1659.96	1670.54	-126.29	295.67	132.60	2.24	PASS	
9616.00†	7267.00	1759.63	1908.99	9719.92	7442.00	1759.96	1670.67	-126.29	295.67	136.84	2.17	PASS	
9716.00†	7267.00	1859.62	1909.13	9819.92	7442.00	1859.96	1670.81	-126.29	295.67	141.15	2.10	PASS	
9816.00†	7267.00	1959.62	1909.26	9919.92	7442.00	1959.96	1670.95	-126.29	295.67	145.53	2.04	PASS	
9916.00†	7267.00	2059.62	1909.40	10019.92	7442.00	2059.96	1671.09	-126.29	295.66	149.97	1.98	PASS	
10016.00†	7267.00	2159.62	1909.54	10119.92	7442.00	2159.96	1671.23	-126.29	295.66	154.47	1.92	PASS	
10116.00†	7267.00	2259.62	1909.68	10219.92	7442.00	2259.96	1671.37	-126.29	295.66	159.01	1.86	PASS	
10216.00†	7267.00	2359.62	1909.82	10319.92	7442.00	2359.96	1671.51	-126.29	295.66	163.60	1.81	PASS	
10316.00†	7267.00	2459.62	1909.95	10419.92	7442.00	2459.95	1671.65	-126.29	295.66	168.24	1.76	PASS	
10416.00†	7267.00	2559.62	1910.09	10519.92	7442.00	2559.95	1671.78	-126.29	295.66	172.91	1.71	PASS	
10516.00†	7267.00	2659.62	1910.23	10619.92	7442.00	2659.95	1671.92	-126.29	295.66	177.62	1.67	PASS	
10616.00†	7267.00	2759.62	1910.37	10719.92	7442.00	2759.95	1672.06	-126.29	295.66	182.36	1.62	PASS	
10716.00†	7267.00	2859.62	1910.50	10819.92	7442.00	2859.95	1672.20	-126.29	295.66	187.13	1.58	PASS	
10816.00†	7267.00	2959.62	1910.64	10919.92	7442.00	2959.95	1672.34	-126.29	295.66	191.93	1.54	PASS	
10916.00†	7267.00	3059.62	1910.78	11019.92	7442.00	3059.95	1672.48	-126.29	295.66	196.76	1.50	PASS	
11016.00†	7267.00	3159.62	1910.92	11119.92	7442.00	3159.95	1672.62	-126.29	295.66	201.61	1.47	PASS	
11116.00†	7267.00	3259.62	1911.06	11219.92	7442.00	3259.95	1672.75	-126.29	295.66	206.48	1.43	PASS	
11216.00†	7267.00	3359.62	1911.19	11319.92	7442.00	3359.95	1672.89	-126.29	295.65	211.37	1.40	PASS	
11316.00†	7267.00	3459.62	1911.33	11419.92	7442.00	3459.95	1673.03	-126.29	295.65	216.29	1.37	PASS	
11416.00†	7267.00	3559.62	1911.47	11519.92	7442.00	3559.95	1673.17	-126.29	295.65	221.22	1.34	PASS	
11516.00†	7267.00	3659.62	1911.61	11619.92	7442.00	3659.95	1673.31	-126.29	295.65	226.17	1.31	PASS	
11616.00†	7267.00	3759.62	1911.74	11719.92	7442.00	3759.95	1673.45	-126.29	295.65	231.13	1.28	PASS	
11716.00†	7267.00	3859.62	1911.88	11819.92	7442.00	3859.95	1673.59	-126.29	295.65	236.11	1.25	PASS	
11816.00†	7267.00	3959.62	1912.02	11919.92	7442.00	3959.95	1673.73	-126.29	295.65	241.10	1.23	PASS	
11916.00†	7267.00	4059.62	1912.16	12019.92	7442.00	4059.95	1673.86	-126.29	295.65	246.11	1.20	PASS	
12016.00†	7267.00	4159.62	1912.29	12119.92	7442.00	4159.95	1674.00	-126.29	295.65	251.13	1.18	PASS	
12116.00†	7267.00	4259.62	1912.43	12219.92	7442.00	4259.95	1674.14	-126.29	295.65	256.16	1.15	PASS	
12216.00†	7267.00	4359.62	1912.57	12319.92	7442.00	4359.95	1674.28	-126.29	295.65	261.20	1.13	PASS	
12316.00†	7267.00	4459.62	1912.71	12419.92	7442.00	4459.95	1674.42	-126.29	295.65	266.25	1.11	PASS	
12416.00†	7267.00	4559.62	1912.85	12519.92	7442.00	4559.95	1674.56	-126.29	295.65	271.32	1.09	PASS	
12516.00†	7267.00	4659.62	1912.98	12619.92	7442.00	4659.95	1674.70	-126.29	295.64	276.39	1.07	PASS	
12616.00†	7267.00	4759.62	1913.12	12719.92	7442.00	4759.95	1674.83	-126.29	295.64	281.47	1.05	PASS	
12716.00†	7267.00	4859.62	1913.26	12819.92	7442.00	4859.95	1674.97	-126.29	295.64	286.55	1.03	PASS	
12816.00†	7267.00	4959.62	1913.40	12919.92	7442.00	4959.95	1675.11	-126.29	295.64	291.65	1.01	PASS	
12916.00†	7267.00	5059.62	1913.53	13019.92	7442.00	5059.95	1675.25	-126.29	295.64	296.75	1.00	FAIL	
13016.00†	7267.00	5159.62	1913.67	13119.92	7442.00	5159.95	1675.39	-126.29	295.64	301.86	0.98	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-1NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NBH (NIO B CK, REV-A.0) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NBH 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†	7267.00	5259.62	1913.81	13219.92	7442.00	5259.95	1675.53	-126.30	295.64	306.98	0.96	FAIL	
13216.00†	7267.00	5359.62	1913.95	13319.92	7442.00	5359.95	1675.67	-126.30	295.64	312.10	0.95	FAIL	
13316.00†	7267.00	5459.62	1914.08	13419.92	7442.00	5459.95	1675.81	-126.30	295.64	317.23	0.93	FAIL	
13416.00†	7267.00	5559.62	1914.22	13519.92	7442.00	5559.95	1675.94	-126.30	295.64	322.37	0.92	FAIL	
13516.00†	7267.00	5659.62	1914.36	13619.92	7442.00	5659.95	1676.08	-126.30	295.64	327.51	0.90	FAIL	
13616.00†	7267.00	5759.62	1914.50	13719.92	7442.00	5759.95	1676.22	-126.30	295.64	332.65	0.89	FAIL	
13716.00†	7267.00	5859.62	1914.64	13819.92	7442.00	5859.95	1676.36	-126.30	295.64	337.80	0.87	FAIL	
13816.00†	7267.00	5959.62	1914.77	13919.92	7442.00	5959.95	1676.50	-126.30	295.63	342.96	0.86	FAIL	
13916.00†	7267.00	6059.62	1914.91	14019.92	7442.00	6059.95	1676.64	-126.30	295.63	348.12	0.85	FAIL	
14016.00†	7267.00	6159.62	1915.05	14119.92	7442.00	6159.95	1676.78	-126.30	295.63	353.28	0.84	FAIL	
14116.00†	7267.00	6259.62	1915.19	14219.92	7442.00	6259.95	1676.92	-126.30	295.63	358.45	0.82	FAIL	
14216.00†	7267.00	6359.62	1915.32	14319.92	7442.00	6359.95	1677.05	-126.30	295.63	363.62	0.81	FAIL	
14316.00†	7267.00	6459.62	1915.46	14419.92	7442.00	6459.95	1677.19	-126.30	295.63	368.80	0.80	FAIL	
14416.00†	7267.00	6559.62	1915.60	14519.92	7442.00	6559.95	1677.33	-126.30	295.63	373.98	0.79	FAIL	
14516.00†	7267.00	6659.62	1915.74	14619.92	7442.00	6659.95	1677.47	-126.30	295.63	379.16	0.78	FAIL	
14616.00†	7267.00	6759.62	1915.88	14719.92	7442.00	6759.95	1677.61	-126.30	295.63	384.35	0.77	FAIL	
14716.00†	7267.00	6859.62	1916.01	14819.92	7442.00	6859.95	1677.75	-126.30	295.63	389.54	0.76	FAIL	
14816.00†	7267.00	6959.62	1916.15	14919.92	7442.00	6959.95	1677.89	-126.30	295.63	394.73	0.75	FAIL	
14916.00†	7267.00	7059.62	1916.29	15019.92	7442.00	7059.95	1678.02	-126.30	295.63	399.93	0.74	FAIL	
15016.00†	7267.00	7159.62	1916.43	15119.92	7442.00	7159.95	1678.16	-126.30	295.63	405.13	0.73	FAIL	
15116.00†	7267.00	7259.62	1916.56	15219.92	7442.00	7259.95	1678.30	-126.30	295.62	410.33	0.72	FAIL	
15216.00†	7267.00	7359.62	1916.70	15319.92	7442.00	7359.95	1678.44	-126.30	295.62	415.54	0.71	FAIL	
15316.00†	7267.00	7459.62	1916.84	15419.92	7442.00	7459.95	1678.58	-126.30	295.62	420.74	0.70	FAIL	
15416.00†	7267.00	7559.62	1916.98	15519.92	7442.00	7559.95	1678.72	-126.30	295.62	425.95	0.69	FAIL	
15516.00†	7267.00	7659.62	1917.11	15619.92	7442.00	7659.95	1678.86	-126.30	295.62	431.16	0.69	FAIL	
15616.00†	7267.00	7759.62	1917.25	15719.92	7442.00	7759.95	1679.00	-126.30	295.62	436.38	0.68	FAIL	
15716.00†	7267.00	7859.62	1917.39	15819.92	7442.00	7859.95	1679.13	-126.30	295.62	441.59	0.67	FAIL	
15816.00†	7267.00	7959.62	1917.53	15919.92	7442.00	7959.95	1679.27	-126.30	295.62	446.81	0.66	FAIL	
15916.00†	7267.00	8059.62	1917.67	16019.92	7442.00	8059.95	1679.41	-126.30	295.62	452.03	0.65	FAIL	
16016.00†	7267.00	8159.62	1917.80	16119.92	7442.00	8159.95	1679.55	-126.30	295.62	457.25	0.65	FAIL	
16116.00†	7267.00	8259.62	1917.94	16219.92	7442.00	8259.95	1679.69	-126.30	295.62	462.48	0.64	FAIL	
16216.00†	7267.00	8359.62	1918.08	16319.92	7442.00	8359.95	1679.83	-126.30	295.62	467.71	0.63	FAIL	
16316.00†	7267.00	8459.62	1918.22	16419.92	7442.00	8459.95	1679.97	-126.30	295.62	472.93	0.62	FAIL	
16416.00†	7267.00	8559.62	1918.35	16519.92	7442.00	8559.95	1680.10	-126.30	295.61	478.16	0.62	FAIL	
16516.00†	7267.00	8659.62	1918.49	16619.92	7442.00	8659.95	1680.24	-126.30	295.61	483.39	0.61	FAIL	
16616.00†	7267.00	8759.62	1918.63	16719.92	7442.00	8759.95	1680.38	-126.30	295.61	488.63	0.60	FAIL	
16716.00†	7267.00	8859.62	1918.77	16819.92	7442.00	8859.95	1680.52	-126.30	295.61	493.86	0.60	FAIL	
16816.00†	7267.00	8959.62	1918.91	16919.92	7442.00	8959.95	1680.66	-126.30	295.61	499.10	0.59	FAIL	
16916.00†	7267.00	9059.62	1919.04	17019.92	7442.00	9059.95	1680.80	-126.30	295.61	504.34	0.59	FAIL	
17016.00†	7267.00	9159.62	1919.18	17119.92	7442.00	9159.95	1680.94	-126.30	295.61	509.57	0.58	FAIL	
17116.00†	7267.00	9259.62	1919.32	17219.92	7442.00	9259.95	1681.08	-126.30	295.61	514.81	0.57	FAIL	
17216.00†	7267.00	9359.62	1919.46	17319.92	7442.00	9359.95	1681.21	-126.30	295.61	520.06	0.57	FAIL	
17316.00†	7267.00	9459.62	1919.59	17419.92	7442.00	9459.95	1681.35	-126.30	295.61	525.30	0.56	FAIL	
17416.00†	7267.00	9559.62	1919.73	17519.92	7442.00	9559.95	1681.49	-126.30	295.61	530.54	0.56	FAIL	
17516.00†	7267.00	9659.62	1919.87	17619.92	7442.00	9659.95	1681.63	-126.30	295.61	535.79	0.55	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-1NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NBH (NIO B CK, REV-A.0) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NBH 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	
17557.33	7267.00	9700.95	1919.93	17660.90	7442.00	9700.93	1681.69	-126.30	295.61	537.83	0.55	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: BRIGHTON LAKES 20-17-1NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NBH (NIO B CK, REV-A.0) PWP

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: BRIGHTON LAKES 20-17-1NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NBH (NIO B CK, REV-A.0) PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	-8.55	0.00	-8.55
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	-8.55	0.00	-8.55
8.5in Open Hole	882.00	17661.00	16779.00	882.00	N/A	0.00	-8.55	N/A	N/A

## SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: BRIGHTON LAKES 20-17-1NBH (NIO B CK, REV-A.0) PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	882.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-1NBH PWB
882.00	17660.90	Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-1NBH PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: BRIGHTON LAKES 20-17-1NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NBH (NIO B CK, REV-A.0) PWP

MD Reference: RIG (16'RKB) (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

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-2NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP

Facility: SEC.20-T01S-R66W				Slot: SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)				Well: BRIGHTON LAKES 20-17-2NBH				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	16.00	16.00	0.00	14.02	90.00	14.02	1.56	21.76	PASS			
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	14.02	90.00	14.02	1.89	14.03	PASS			
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	14.02	90.00	14.02	2.47	8.66	PASS			
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	14.02	90.00	14.02	3.08	6.18	PASS			
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	14.02	90.00	14.02	3.69	4.78	PASS			
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	14.02	90.00	14.02	4.31	3.90	PASS			
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	14.02	90.00	14.02	4.94	3.29	PASS			
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	14.02	90.00	14.02	5.56	2.84	PASS			
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	14.02	90.00	14.02	6.19	2.50	PASS			
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	14.02	90.00	14.02	6.26	2.40	PASS			
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	14.02	90.00	14.02	6.40	2.34	PASS			
1116.00†	1116.00	0.00	0.00	1116.00	1116.00	0.00	14.02	90.00	14.02	6.73	2.21	PASS			
1175.00	1175.00	0.00	0.00	1174.64	1174.63	-0.16	14.64	90.64	14.65	7.09	2.18	PASS			
1216.00†	1216.00	-0.13	0.42	1215.31	1215.28	-0.54	16.08	-15.01	15.68	7.38	2.24	PASS			
1316.00†	1315.87	-1.48	4.99	1314.42	1314.11	-2.40	23.09	-13.61	18.22	8.94	2.13	PASS			
1416.00†	1415.36	-4.33	14.56	1413.40	1412.30	-5.55	35.03	-13.00	20.74	10.94	1.96	PASS			
1516.00†	1514.19	-8.65	29.10	1512.25	1509.60	-9.99	51.85	-12.94	23.24	12.67	1.88	PASS			
1616.00†	1612.09	-14.44	48.59	1610.98	1605.75	-15.70	73.48	-13.25	25.72	14.26	1.84	PASS			
1716.00†	1708.79	-21.69	72.96	1709.58	1700.50	-22.66	99.85	-13.84	28.16	15.76	1.82	PASS			
1808.53	1796.97	-29.67	99.80	1800.72	1786.71	-30.20	128.40	-14.57	30.39	17.01	1.82	PASS			
1816.00†	1804.04	-30.36	102.13	1808.17	1793.70	-30.86	130.90	-14.64	30.57	17.09	1.82	PASS			
1916.00†	1898.59	-39.64	133.35	1908.14	1887.46	-39.71	164.44	-15.45	33.02	17.89	1.88	PASS			
2016.00†	1993.14	-48.92	164.56	2008.11	1981.22	-48.57	197.98	-16.15	35.48	18.74	1.93	PASS			
2116.00†	2087.68	-58.20	195.78	2108.08	2074.97	-57.42	231.52	-16.75	37.94	19.75	1.96	PASS			
2216.00†	2182.23	-67.48	227.00	2208.05	2168.73	-66.28	265.06	-17.29	40.41	20.79	1.98	PASS			
2316.00†	2276.78	-76.76	258.21	2308.02	2262.49	-75.13	298.60	-17.76	42.87	21.90	1.99	PASS			
2416.00†	2371.33	-86.04	289.43	2407.99	2356.24	-83.99	332.14	-18.18	45.34	23.06	2.00	PASS			
2516.00†	2465.88	-95.32	320.64	2507.96	2450.00	-92.84	365.68	-18.55	47.82	24.28	2.00	PASS			
2616.00†	2560.43	-104.60	351.86	2607.93	2543.76	-101.70	399.22	-18.89	50.29	25.53	2.00	PASS			
2716.00†	2654.97	-113.88	383.08	2707.89	2637.51	-110.55	432.76	-19.20	52.77	26.82	1.99	PASS			
2816.00†	2749.52	-123.16	414.29	2807.86	2731.27	-119.41	466.30	-19.48	55.25	28.15	1.99	PASS			
2916.00†	2844.07	-132.44	445.51	2907.83	2825.03	-128.26	499.84	-19.74	57.73	29.50	1.98	PASS			
3016.00†	2938.62	-141.73	476.73	3007.80	2918.79	-137.12	533.38	-19.97	60.21	30.87	1.97	PASS			
3116.00†	3033.17	-151.01	507.94	3107.77	3012.54	-145.98	566.93	-20.19	62.69	32.27	1.96	PASS			
3216.00†	3127.72	-160.29	539.16	3207.74	3106.30	-154.83	600.47	-20.39	65.17	33.69	1.95	PASS			
3316.00†	3222.27	-169.57	570.37	3307.71	3200.06	-163.69	634.01	-20.58	67.65	35.12	1.95	PASS			
3416.00†	3316.81	-178.85	601.59	3407.68	3293.81	-172.54	667.55	-20.75	70.14	36.57	1.94	PASS			
3516.00†	3411.36	-188.13	632.81	3507.65	3387.57	-181.40	701.09	-20.91	72.62	38.03	1.93	PASS			
3616.00†	3505.91	-197.41	664.02	3607.61	3481.33	-190.25	734.63	-21.06	75.11	39.50	1.92	PASS			
3716.00†	3600.46	-206.69	695.24	3707.58	3575.09	-199.11	768.17	-21.20	77.59	40.98	1.91	PASS			
3816.00†	3695.01	-215.97	726.45	3807.55	3668.84	-207.96	801.71	-21.33	80.08	42.47	1.90	PASS			
3916.00†	3789.56	-225.25	757.67	3907.52	3762.60	-216.82	835.25	-21.45	82.56	43.97	1.89	PASS			
4016.00†	3884.11	-234.53	788.89	4007.49	3856.36	-225.67	868.79	-21.57	85.05	45.48	1.88	PASS			
4116.00†	3978.65	-243.81	820.10	4107.46	3950.11	-234.53	902.33	-21.68	87.53	46.99	1.88	PASS			
4216.00†	4073.20	-253.09	851.32	4207.43	4043.87	-243.38	935.87	-21.78	90.02	48.52	1.87	PASS			

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-2NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP

Facility: SEC.20-T01S-R66W				Slot: SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)				Well: BRIGHTON LAKES 20-17-2NBH				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†	4167.75	-262.37	882.54	4307.40	4137.63	-252.24	969.41	-21.88	92.51	50.04	1.86	PASS			
4416.00†	4262.30	-271.65	913.75	4407.37	4231.39	-261.09	1002.96	-21.98	95.00	51.57	1.85	PASS			
4516.00†	4356.85	-280.93	944.97	4507.34	4325.14	-269.95	1036.50	-22.06	97.48	53.11	1.85	PASS			
4616.00†	4451.40	-290.21	976.18	4607.30	4418.90	-278.80	1070.04	-22.15	99.97	54.66	1.84	PASS			
4716.00†	4545.95	-299.49	1007.40	4707.27	4512.66	-287.66	1103.58	-22.23	102.46	56.20	1.83	PASS			
4816.00†	4640.49	-308.77	1038.62	4807.24	4606.41	-296.51	1137.12	-22.30	104.95	57.75	1.83	PASS			
4916.00†	4735.04	-318.05	1069.83	4907.21	4700.17	-305.37	1170.66	-22.38	107.44	59.30	1.82	PASS			
5016.00†	4829.59	-327.33	1101.05	5007.18	4793.93	-314.23	1204.20	-22.44	109.93	60.85	1.82	PASS			
5116.00†	4924.14	-336.61	1132.27	5107.15	4887.69	-323.08	1237.74	-22.51	112.41	62.41	1.81	PASS			
5216.00†	5018.69	-345.89	1163.48	5207.12	4981.44	-331.94	1271.28	-22.57	114.90	63.98	1.80	PASS			
5316.00†	5113.24	-355.17	1194.70	5307.09	5075.20	-340.79	1304.82	-22.63	117.39	65.54	1.80	PASS			
5416.00†	5207.79	-364.45	1225.91	5407.06	5168.96	-349.65	1338.36	-22.69	119.88	67.11	1.79	PASS			
5516.00†	5302.33	-373.73	1257.13	5507.02	5262.71	-358.50	1371.90	-22.75	122.37	68.67	1.79	PASS			
5616.00†	5396.88	-383.01	1288.35	5606.99	5356.47	-367.36	1405.44	-22.80	124.86	70.25	1.79	PASS			
5716.00†	5491.43	-392.29	1319.56	5706.96	5450.23	-376.21	1438.98	-22.85	127.35	71.82	1.78	PASS			
5816.00†	5585.98	-401.57	1350.78	5806.93	5543.98	-385.07	1472.53	-22.90	129.84	73.39	1.78	PASS			
5916.00†	5680.53	-410.85	1382.00	5906.90	5637.74	-393.92	1506.07	-22.95	132.33	74.97	1.77	PASS			
6016.00†	5775.08	-420.13	1413.21	6006.87	5731.50	-402.78	1539.61	-23.00	134.82	76.55	1.77	PASS			
6116.00†	5869.63	-429.41	1444.43	6106.84	5825.26	-411.63	1573.15	-23.04	137.31	78.13	1.76	PASS			
6216.00†	5964.17	-438.69	1475.64	6206.81	5919.01	-420.49	1606.69	-23.08	139.80	79.71	1.76	PASS			
6316.00†	6058.72	-447.97	1506.86	6306.78	6012.77	-429.34	1640.23	-23.12	142.29	81.29	1.76	PASS			
6416.00†	6153.27	-457.25	1538.08	6406.74	6106.53	-438.20	1673.77	-23.16	144.78	82.87	1.75	PASS			
6516.00†	6247.82	-466.53	1569.29	6506.71	6200.28	-447.05	1707.31	-23.20	147.27	84.46	1.75	PASS			
6616.00†	6342.37	-475.81	1600.51	6606.68	6294.04	-455.91	1740.85	-23.24	149.76	86.05	1.75	PASS			
6716.00†	6436.92	-485.09	1631.72	6706.65	6387.80	-464.76	1774.39	-23.28	152.25	87.63	1.74	PASS			
6816.00†	6531.47	-494.37	1662.94	6806.62	6481.56	-473.62	1807.93	-23.31	154.74	89.22	1.74	PASS			
6916.00†	6626.01	-503.65	1694.16	6906.59	6575.31	-482.48	1841.47	-23.34	157.23	90.81	1.74	PASS			
6965.37	6672.70	-508.24	1709.57	6955.95	6621.60	-486.85	1858.03	-23.36	158.46	91.59	1.74	PASS			
7016.00†	6720.70	-510.70	1725.42	7006.50	6669.02	-491.33	1875.00	-7.77	159.43	91.47	1.75	PASS			
7116.00†	6815.20	-502.45	1756.65	7104.88	6761.28	-500.04	1908.00	26.03	160.69	86.45	1.87	PASS			
7216.00†	6906.91	-477.05	1786.97	7198.81	6849.38	-508.36	1939.52	55.07	166.01	80.62	2.07	PASS			
7316.00†	6993.02	-435.25	1815.47	7298.56	6943.18	-508.64	1973.09	77.69	180.87	85.27	2.13	PASS			
7416.00†	7070.93	-378.34	1841.28	7407.49	7043.93	-489.24	2009.17	94.04	203.01	95.51	2.13	PASS			
7516.00†	7138.26	-308.05	1863.62	7527.86	7148.99	-444.75	2046.83	105.91	228.84	101.56	2.26	PASS			
7616.00†	7192.98	-226.50	1881.81	7661.90	7252.78	-369.08	2084.07	114.42	254.60	99.26	2.58	PASS			
7716.00†	7233.41	-136.18	1895.29	7810.93	7345.24	-257.59	2117.32	120.24	276.67	88.66	3.14	PASS			
7816.00†	7258.34	-39.83	1903.65	7973.76	7411.67	-111.48	2141.29	123.68	291.75	74.24	3.96	PASS			
7916.00†	7267.00	59.63	1906.65	8145.31	7436.98	57.30	2150.58	124.87	297.33	66.96	4.48	PASS			
7918.37	7267.00	62.00	1906.65	8149.43	7437.00	61.41	2150.59	124.87	297.33	66.96	4.48	PASS			
8016.00†	7267.00	159.63	1906.79	8247.31	7437.00	159.29	2150.72	124.87	297.33	67.24	4.46	PASS			
8116.00†	7267.00	259.63	1906.92	8347.31	7437.00	259.29	2150.86	124.87	297.33	68.04	4.41	PASS			
8216.00†	7267.00	359.63	1907.06	8447.31	7437.00	359.29	2151.00	124.87	297.33	69.26	4.33	PASS			
8316.00†	7267.00	459.63	1907.20	8547.31	7437.00	459.29	2151.13	124.87	297.33	70.88	4.23	PASS			
8416.00†	7267.00	559.63	1907.34	8647.31	7437.00	559.29	2151.27	124.87	297.33	72.19	4.15	PASS			
8516.00†	7267.00	659.63	1907.47	8747.31	7437.00	659.29	2151.41	124.87	297.33	75.19	3.98	PASS			

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-2NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-2NBH 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	
8616.00†	7267.00	759.63	1907.61	8847.31	7437.00	759.29	2151.54	124.87	297.33	77.82	3.85	PASS	
8716.00†	7267.00	859.63	1907.75	8947.31	7437.00	859.29	2151.68	124.87	297.33	80.73	3.71	PASS	
8816.00†	7267.00	959.63	1907.89	9047.31	7437.00	959.29	2151.82	124.87	297.32	83.88	3.57	PASS	
8916.00†	7267.00	1059.63	1908.03	9147.31	7437.00	1059.29	2151.95	124.87	297.32	87.25	3.43	PASS	
9016.00†	7267.00	1159.63	1908.16	9247.31	7437.00	1159.29	2152.09	124.87	297.32	90.82	3.29	PASS	
9116.00†	7267.00	1259.63	1908.30	9347.31	7437.00	1259.29	2152.23	124.87	297.32	94.56	3.16	PASS	
9216.00†	7267.00	1359.63	1908.44	9447.31	7437.00	1359.29	2152.36	124.87	297.32	98.46	3.03	PASS	
9316.00†	7267.00	1459.63	1908.58	9547.31	7437.00	1459.29	2152.50	124.87	297.32	102.49	2.91	PASS	
9416.00†	7267.00	1559.63	1908.71	9647.31	7437.00	1559.29	2152.64	124.87	297.32	106.64	2.80	PASS	
9516.00†	7267.00	1659.63	1908.85	9747.31	7437.00	1659.29	2152.77	124.87	297.32	110.90	2.69	PASS	
9616.00†	7267.00	1759.63	1908.99	9847.31	7437.00	1759.29	2152.91	124.87	297.32	115.25	2.59	PASS	
9716.00†	7267.00	1859.62	1909.13	9947.31	7437.00	1859.29	2153.05	124.87	297.32	119.69	2.49	PASS	
9816.00†	7267.00	1959.62	1909.26	10047.31	7437.00	1959.29	2153.18	124.88	297.32	124.20	2.40	PASS	
9916.00†	7267.00	2059.62	1909.40	10147.31	7437.00	2059.29	2153.32	124.88	297.32	128.78	2.32	PASS	
10016.00†	7267.00	2159.62	1909.54	10247.31	7437.00	2159.29	2153.46	124.88	297.31	133.42	2.24	PASS	
10116.00†	7267.00	2259.62	1909.68	10347.31	7437.00	2259.29	2153.59	124.88	297.31	138.11	2.16	PASS	
10216.00†	7267.00	2359.62	1909.82	10447.31	7437.00	2359.29	2153.73	124.88	297.31	142.85	2.09	PASS	
10316.00†	7267.00	2459.62	1909.95	10547.31	7437.00	2459.29	2153.87	124.88	297.31	147.64	2.02	PASS	
10416.00†	7267.00	2559.62	1910.09	10647.31	7437.00	2559.29	2154.01	124.88	297.31	152.47	1.95	PASS	
10516.00†	7267.00	2659.62	1910.23	10747.31	7437.00	2659.29	2154.14	124.88	297.31	157.33	1.89	PASS	
10616.00†	7267.00	2759.62	1910.37	10847.31	7437.00	2759.29	2154.28	124.88	297.31	162.23	1.84	PASS	
10716.00†	7267.00	2859.62	1910.50	10947.31	7437.00	2859.29	2154.42	124.88	297.31	167.15	1.78	PASS	
10816.00†	7267.00	2959.62	1910.64	11047.31	7437.00	2959.29	2154.55	124.88	297.31	172.11	1.73	PASS	
10916.00†	7267.00	3059.62	1910.78	11147.31	7437.00	3059.29	2154.69	124.88	297.31	177.09	1.68	PASS	
11016.00†	7267.00	3159.62	1910.92	11247.31	7437.00	3159.29	2154.83	124.88	297.31	182.09	1.64	PASS	
11116.00†	7267.00	3259.62	1911.06	11347.31	7437.00	3259.29	2154.96	124.88	297.31	187.11	1.59	PASS	
11216.00†	7267.00	3359.62	1911.19	11447.31	7437.00	3359.29	2155.10	124.88	297.31	192.15	1.55	PASS	
11316.00†	7267.00	3459.62	1911.33	11547.31	7437.00	3459.29	2155.24	124.88	297.30	197.21	1.51	PASS	
11416.00†	7267.00	3559.62	1911.47	11647.31	7437.00	3559.29	2155.37	124.88	297.30	202.29	1.47	PASS	
11516.00†	7267.00	3659.62	1911.61	11747.31	7437.00	3659.29	2155.51	124.88	297.30	207.39	1.44	PASS	
11616.00†	7267.00	3759.62	1911.74	11847.31	7437.00	3759.29	2155.65	124.88	297.30	212.49	1.40	PASS	
11716.00†	7267.00	3859.62	1911.88	11947.31	7437.00	3859.29	2155.78	124.88	297.30	217.61	1.37	PASS	
11816.00†	7267.00	3959.62	1912.02	12047.31	7437.00	3959.29	2155.92	124.88	297.30	222.75	1.34	PASS	
11916.00†	7267.00	4059.62	1912.16	12147.31	7437.00	4059.29	2156.06	124.88	297.30	227.89	1.31	PASS	
12016.00†	7267.00	4159.62	1912.29	12247.31	7437.00	4159.29	2156.19	124.88	297.30	233.05	1.28	PASS	
12116.00†	7267.00	4259.62	1912.43	12347.31	7437.00	4259.29	2156.33	124.88	297.30	238.21	1.25	PASS	
12216.00†	7267.00	4359.62	1912.57	12447.31	7437.00	4359.29	2156.47	124.88	297.30	243.39	1.22	PASS	
12316.00†	7267.00	4459.62	1912.71	12547.31	7437.00	4459.29	2156.60	124.88	297.30	248.57	1.20	PASS	
12416.00†	7267.00	4559.62	1912.85	12647.31	7437.00	4559.29	2156.74	124.88	297.30	253.76	1.17	PASS	
12516.00†	7267.00	4659.62	1912.98	12747.31	7437.00	4659.29	2156.88	124.88	297.29	258.96	1.15	PASS	
12616.00†	7267.00	4759.62	1913.12	12847.31	7437.00	4759.29	2157.01	124.88	297.29	264.17	1.13	PASS	
12716.00†	7267.00	4859.62	1913.26	12947.31	7437.00	4859.29	2157.15	124.88	297.29	269.39	1.10	PASS	
12816.00†	7267.00	4959.62	1913.40	13047.31	7437.00	4959.29	2157.29	124.88	297.29	274.61	1.08	PASS	
12916.00†	7267.00	5059.62	1913.53	13147.31	7437.00	5059.29	2157.42	124.88	297.29	279.83	1.06	PASS	
13016.00†	7267.00	5159.62	1913.67	13247.31	7437.00	5159.29	2157.56	124.88	297.29	285.07	1.04	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-2NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-2NBH 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†	7267.00	5259.62	1913.81	13347.31	7437.00	5259.29	2157.70	124.88	297.29	290.30	1.02	PASS	
13216.00†	7267.00	5359.62	1913.95	13447.31	7437.00	5359.29	2157.83	124.88	297.29	295.55	1.01	PASS	
13316.00†	7267.00	5459.62	1914.08	13547.31	7437.00	5459.29	2157.97	124.88	297.29	300.80	0.99	FAIL	
13416.00†	7267.00	5559.62	1914.22	13647.31	7437.00	5559.29	2158.11	124.88	297.29	306.05	0.97	FAIL	
13516.00†	7267.00	5659.62	1914.36	13747.31	7437.00	5659.29	2158.24	124.88	297.29	311.31	0.95	FAIL	
13616.00†	7267.00	5759.62	1914.50	13847.31	7437.00	5759.29	2158.38	124.88	297.29	316.57	0.94	FAIL	
13716.00†	7267.00	5859.62	1914.64	13947.31	7437.00	5859.29	2158.52	124.88	297.29	321.83	0.92	FAIL	
13816.00†	7267.00	5959.62	1914.77	14047.31	7437.00	5959.29	2158.65	124.88	297.28	327.10	0.91	FAIL	
13916.00†	7267.00	6059.62	1914.91	14147.31	7437.00	6059.29	2158.79	124.88	297.28	332.38	0.89	FAIL	
14016.00†	7267.00	6159.62	1915.05	14247.31	7437.00	6159.29	2158.93	124.88	297.28	337.65	0.88	FAIL	
14116.00†	7267.00	6259.62	1915.19	14347.31	7437.00	6259.29	2159.06	124.88	297.28	342.93	0.87	FAIL	
14216.00†	7267.00	6359.62	1915.32	14447.31	7437.00	6359.29	2159.20	124.88	297.28	348.22	0.85	FAIL	
14316.00†	7267.00	6459.62	1915.46	14547.31	7437.00	6459.29	2159.34	124.88	297.28	353.50	0.84	FAIL	
14416.00†	7267.00	6559.62	1915.60	14647.31	7437.00	6559.29	2159.47	124.88	297.28	358.79	0.83	FAIL	
14516.00†	7267.00	6659.62	1915.74	14747.31	7437.00	6659.29	2159.61	124.88	297.28	364.08	0.82	FAIL	
14616.00†	7267.00	6759.62	1915.88	14847.31	7437.00	6759.29	2159.75	124.88	297.28	369.38	0.80	FAIL	
14716.00†	7267.00	6859.62	1916.01	14947.31	7437.00	6859.29	2159.89	124.88	297.28	374.67	0.79	FAIL	
14816.00†	7267.00	6959.62	1916.15	15047.31	7437.00	6959.29	2160.02	124.88	297.28	379.97	0.78	FAIL	
14916.00†	7267.00	7059.62	1916.29	15147.31	7437.00	7059.29	2160.16	124.88	297.28	385.27	0.77	FAIL	
15016.00†	7267.00	7159.62	1916.43	15247.31	7437.00	7159.29	2160.30	124.88	297.27	390.58	0.76	FAIL	
15116.00†	7267.00	7259.62	1916.56	15347.31	7437.00	7259.29	2160.43	124.88	297.27	395.88	0.75	FAIL	
15216.00†	7267.00	7359.62	1916.70	15447.31	7437.00	7359.29	2160.57	124.88	297.27	401.19	0.74	FAIL	
15316.00†	7267.00	7459.62	1916.84	15547.31	7437.00	7459.29	2160.71	124.88	297.27	406.50	0.73	FAIL	
15416.00†	7267.00	7559.62	1916.98	15647.31	7437.00	7559.29	2160.84	124.88	297.27	411.81	0.72	FAIL	
15516.00†	7267.00	7659.62	1917.11	15747.31	7437.00	7659.29	2160.98	124.88	297.27	417.12	0.71	FAIL	
15616.00†	7267.00	7759.62	1917.25	15847.31	7437.00	7759.29	2161.12	124.88	297.27	422.44	0.70	FAIL	
15716.00†	7267.00	7859.62	1917.39	15947.31	7437.00	7859.29	2161.25	124.88	297.27	427.76	0.69	FAIL	
15816.00†	7267.00	7959.62	1917.53	16047.31	7437.00	7959.29	2161.39	124.88	297.27	433.08	0.69	FAIL	
15916.00†	7267.00	8059.62	1917.67	16147.31	7437.00	8059.29	2161.53	124.88	297.27	438.40	0.68	FAIL	
16016.00†	7267.00	8159.62	1917.80	16247.31	7437.00	8159.29	2161.66	124.88	297.27	443.72	0.67	FAIL	
16116.00†	7267.00	8259.62	1917.94	16347.31	7437.00	8259.29	2161.80	124.88	297.27	449.04	0.66	FAIL	
16216.00†	7267.00	8359.62	1918.08	16447.31	7437.00	8359.29	2161.94	124.88	297.27	454.36	0.65	FAIL	
16316.00†	7267.00	8459.62	1918.22	16547.31	7437.00	8459.29	2162.07	124.88	297.26	459.69	0.65	FAIL	
16416.00†	7267.00	8559.62	1918.35	16647.31	7437.00	8559.29	2162.21	124.88	297.26	465.02	0.64	FAIL	
16516.00†	7267.00	8659.62	1918.49	16747.31	7437.00	8659.29	2162.35	124.88	297.26	470.35	0.63	FAIL	
16616.00†	7267.00	8759.62	1918.63	16847.31	7437.00	8759.29	2162.48	124.88	297.26	475.67	0.62	FAIL	
16716.00†	7267.00	8859.62	1918.77	16947.31	7437.00	8859.29	2162.62	124.88	297.26	481.01	0.62	FAIL	
16816.00†	7267.00	8959.62	1918.91	17047.31	7437.00	8959.29	2162.76	124.88	297.26	486.34	0.61	FAIL	
16916.00†	7267.00	9059.62	1919.04	17147.31	7437.00	9059.29	2162.89	124.88	297.26	491.67	0.60	FAIL	
17016.00†	7267.00	9159.62	1919.18	17247.31	7437.00	9159.29	2163.03	124.88	297.26	497.00	0.60	FAIL	
17116.00†	7267.00	9259.62	1919.32	17347.31	7437.00	9259.29	2163.17	124.88	297.26	502.34	0.59	FAIL	
17216.00†	7267.00	9359.62	1919.46	17447.31	7437.00	9359.29	2163.30	124.88	297.26	507.67	0.58	FAIL	
17316.00†	7267.00	9459.62	1919.59	17547.31	7437.00	9459.29	2163.44	124.88	297.26	513.01	0.58	FAIL	
17416.00†	7267.00	9559.62	1919.73	17647.31	7437.00	9559.29	2163.58	124.88	297.26	518.35	0.57	FAIL	
17516.00†	7267.00	9659.62	1919.87	17747.31	7437.00	9659.29	2163.71	124.88	297.25	523.69	0.57	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0, NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-2NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-2NBH 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	
17557.33	7267.00	9700.95	1919.93	17788.65	7437.00	9700.62	2163.77	124.88	297.25	525.89	0.56	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: BRIGHTON LAKES 20-17-2NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP

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: BRIGHTON LAKES 20-17-2NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	8.55	0.00	8.55
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	8.55	0.00	8.55
8.5in Open Hole	882.00	17790.00	16908.00	882.00	N/A	0.00	8.55	N/A	N/A

## SURVEY PROGRAM - Offset Wellbore: BRIGHTON LAKES 20-17-2NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	882.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-2NBH PWB
882.00	17789.00	Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-2NBH PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: BRIGHTON LAKES 20-17-2NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP

MD Reference: RIG (16'RKB) (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

BRIGHTON LAKES 20-17-1NAH (REV-A.0, NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-1NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NCH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	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	-30.84	-90.00	30.84	1.56	49.80	PASS
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	-30.84	-90.00	30.84	1.89	32.13	PASS
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-30.84	-90.00	30.84	2.47	19.84	PASS
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-30.84	-90.00	30.84	3.08	14.14	PASS
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	-30.84	-90.00	30.84	3.69	10.95	PASS
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	-30.84	-90.00	30.84	4.31	8.92	PASS
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	-30.84	-90.00	30.84	4.94	7.52	PASS
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	-30.84	-90.00	30.84	5.56	6.50	PASS
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	-30.84	-90.00	30.84	6.19	5.72	PASS
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	-30.84	-90.00	30.84	6.25	5.43	PASS
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	-30.84	-90.00	30.84	6.39	5.30	PASS
1116.00†	1116.00	0.00	0.00	1116.00	1116.00	0.00	-30.84	-90.00	30.84	6.72	5.01	PASS
1175.00†	1175.00	0.00	0.00	1175.00	1175.00	0.00	-30.84	-90.00	30.84	6.99	4.80	PASS
1216.00†	1216.00	-0.13	0.42	1216.00	1216.00	0.00	-30.84	163.67	31.27	7.20	4.71	PASS
1316.00†	1315.87	-1.48	4.99	1316.60	1316.60	-0.16	-30.42	165.56	35.44	8.10	4.70	PASS
1416.00†	1415.36	-4.33	14.56	1418.39	1418.26	-1.95	-25.83	166.83	40.56	9.77	4.40	PASS
1516.00†	1514.19	-8.65	29.10	1520.46	1519.78	-5.71	-16.16	167.25	45.70	11.69	4.10	PASS
1616.00†	1612.09	-14.44	48.59	1622.79	1620.87	-11.44	-1.41	167.06	50.85	13.46	3.93	PASS
1716.00†	1708.79	-21.69	72.96	1725.39	1721.23	-19.16	18.43	166.44	55.99	15.04	3.86	PASS
1808.53	1796.97	-29.67	99.80	1818.69	1811.62	-27.53	39.96	165.87	61.64	16.17	3.94	PASS
1816.00†	1804.04	-30.36	102.13	1826.14	1818.83	-28.21	41.70	165.86	62.25	16.24	3.96	PASS
1916.00†	1898.59	-39.64	133.35	1925.81	1915.31	-37.26	65.00	165.82	70.41	17.04	4.27	PASS
2016.00†	1993.14	-48.92	164.56	2025.47	2011.79	-46.32	88.29	165.78	78.56	17.91	4.53	PASS
2116.00†	2087.68	-58.20	195.78	2125.14	2108.28	-55.38	111.59	165.75	86.72	18.87	4.74	PASS
2216.00†	2182.23	-67.48	227.00	2224.81	2204.76	-64.43	134.88	165.72	94.88	19.82	4.93	PASS
2316.00†	2276.78	-76.76	258.21	2324.47	2301.24	-73.49	158.18	165.70	103.03	20.84	5.08	PASS
2416.00†	2371.33	-86.04	289.43	2424.14	2397.72	-82.55	181.47	165.68	111.19	21.89	5.22	PASS
2516.00†	2465.88	-95.32	320.64	2523.81	2494.20	-91.60	204.77	165.66	119.35	22.98	5.33	PASS
2616.00†	2560.43	-104.60	351.86	2623.47	2590.69	-100.66	228.06	165.65	127.51	24.09	5.42	PASS
2716.00†	2654.97	-113.88	383.08	2723.14	2687.17	-109.72	251.36	165.64	135.66	25.22	5.51	PASS
2816.00†	2749.52	-123.16	414.29	2822.81	2783.65	-118.77	274.65	165.63	143.82	26.37	5.58	PASS
2916.00†	2844.07	-132.44	445.51	2922.47	2880.13	-127.83	297.94	165.62	151.98	27.54	5.64	PASS
3016.00†	2938.62	-141.73	476.73	3022.14	2976.62	-136.89	321.24	165.61	160.13	28.73	5.69	PASS
3116.00†	3033.17	-151.01	507.94	3121.81	3073.10	-145.94	344.53	165.60	168.29	29.93	5.74	PASS
3216.00†	3127.72	-160.29	539.16	3221.47	3169.58	-155.00	367.83	165.59	176.45	31.14	5.78	PASS
3316.00†	3222.27	-169.57	570.37	3321.14	3266.06	-164.06	391.12	165.59	184.61	32.36	5.81	PASS
3416.00†	3316.81	-178.85	601.59	3420.81	3362.54	-173.12	414.42	165.58	192.76	33.59	5.84	PASS
3516.00†	3411.36	-188.13	632.81	3520.47	3459.03	-182.17	437.71	165.57	200.92	34.83	5.87	PASS
3616.00†	3505.91	-197.41	664.02	3620.14	3555.51	-191.23	461.01	165.57	209.08	36.07	5.89	PASS
3716.00†	3600.46	-206.69	695.24	3719.81	3651.99	-200.29	484.30	165.57	217.23	37.32	5.91	PASS
3816.00†	3695.01	-215.97	726.45	3819.47	3748.47	-209.34	507.60	165.56	225.39	38.58	5.93	PASS
3916.00†	3789.56	-225.25	757.67	3919.14	3844.95	-218.40	530.89	165.56	233.55	39.84	5.95	PASS
4016.00†	3884.11	-234.53	788.89	4018.81	3941.44	-227.46	554.19	165.55	241.71	41.11	5.97	PASS
4116.00†	3978.65	-243.81	820.10	4118.47	4037.92	-236.51	577.48	165.55	249.86	42.38	5.98	PASS
4216.00†	4073.20	-253.09	851.32	4218.14	4134.40	-245.57	600.77	165.55	258.02	43.66	5.99	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0, NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-1NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NCH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	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†	4167.75	-262.37	882.54	4317.81	4230.88	-254.63	624.07	165.54	266.18	44.94	6.00	PASS	
4416.00†	4262.30	-271.65	913.75	4417.47	4327.36	-263.68	647.36	165.54	274.34	46.22	6.01	PASS	
4516.00†	4356.85	-280.93	944.97	4517.14	4423.85	-272.74	670.66	165.54	282.49	47.51	6.02	PASS	
4616.00†	4451.40	-290.21	976.18	4616.81	4520.33	-281.80	693.95	165.53	290.65	48.79	6.03	PASS	
4716.00†	4545.95	-299.49	1007.40	4716.47	4616.81	-290.85	717.25	165.53	298.81	50.09	6.04	PASS	
4816.00†	4640.49	-308.77	1038.62	4816.14	4713.29	-299.91	740.54	165.53	306.96	51.38	6.04	PASS	
4916.00†	4735.04	-318.05	1069.83	4915.81	4809.78	-308.97	763.84	165.53	315.12	52.67	6.05	PASS	
5016.00†	4829.59	-327.33	1101.05	5015.48	4906.26	-318.02	787.13	165.53	323.28	53.97	6.06	PASS	
5116.00†	4924.14	-336.61	1132.27	5115.14	5002.74	-327.08	810.43	165.52	331.44	55.27	6.06	PASS	
5216.00†	5018.69	-345.89	1163.48	5214.81	5099.22	-336.14	833.72	165.52	339.59	56.57	6.07	PASS	
5316.00†	5113.24	-355.17	1194.70	5314.48	5195.70	-345.20	857.01	165.52	347.75	57.88	6.07	PASS	
5416.00†	5207.79	-364.45	1225.91	5414.14	5292.19	-354.25	880.31	165.52	355.91	59.18	6.07	PASS	
5516.00†	5302.33	-373.73	1257.13	5513.81	5388.67	-363.31	903.60	165.52	364.06	60.49	6.08	PASS	
5616.00†	5396.88	-383.01	1288.35	5613.48	5485.15	-372.37	926.90	165.52	372.22	61.80	6.08	PASS	
5716.00†	5491.43	-392.29	1319.56	5713.14	5581.63	-381.42	950.19	165.51	380.38	63.11	6.08	PASS	
5816.00†	5585.98	-401.57	1350.78	5812.81	5678.11	-390.48	973.49	165.51	388.54	64.42	6.09	PASS	
5916.00†	5680.53	-410.85	1382.00	5912.48	5774.60	-399.54	996.78	165.51	396.69	65.73	6.09	PASS	
6016.00†	5775.08	-420.13	1413.21	6012.14	5871.08	-408.59	1020.08	165.51	404.85	67.04	6.09	PASS	
6116.00†	5869.63	-429.41	1444.43	6111.81	5967.56	-417.65	1043.37	165.51	413.01	68.35	6.10	PASS	
6216.00†	5964.17	-438.69	1475.64	6211.48	6064.04	-426.71	1066.67	165.51	421.16	69.67	6.10	PASS	
6316.00†	6058.72	-447.97	1506.86	6311.14	6160.52	-435.76	1089.96	165.51	429.32	70.98	6.10	PASS	
6416.00†	6153.27	-457.25	1538.08	6410.81	6257.01	-444.82	1113.26	165.50	437.48	72.30	6.10	PASS	
6516.00†	6247.82	-466.53	1569.29	6510.48	6353.49	-453.88	1136.55	165.50	445.64	73.62	6.10	PASS	
6616.00†	6342.37	-475.81	1600.51	6610.14	6449.97	-462.93	1159.84	165.50	453.79	74.93	6.10	PASS	
6716.00†	6436.92	-485.09	1631.72	6709.81	6546.45	-471.99	1183.14	165.50	461.95	76.25	6.11	PASS	
6816.00†	6531.47	-494.37	1662.94	6809.48	6642.93	-481.05	1206.43	165.50	470.11	77.57	6.11	PASS	
6916.00†	6626.01	-503.65	1694.16	6909.14	6739.42	-490.10	1229.73	165.50	478.27	78.89	6.11	PASS	
6965.37	6672.70	-508.24	1709.57	6958.35	6787.05	-494.58	1241.23	165.50	482.29	79.54	6.11	PASS	
7016.00†	6720.70	-510.70	1725.42	7008.75	6835.84	-499.16	1253.01	-179.45	486.38	80.35	6.10	PASS	
7116.00†	6815.20	-502.45	1756.65	7106.78	6930.74	-508.06	1275.92	-152.74	494.45	82.85	6.01	PASS	
7216.00†	6906.91	-477.05	1786.97	7206.23	7027.28	-509.17	1299.24	-136.36	503.39	85.82	5.91	PASS	
7316.00†	6993.02	-435.25	1815.47	7310.86	7127.43	-491.81	1323.46	-127.73	513.17	88.17	5.86	PASS	
7416.00†	7070.93	-378.34	1841.28	7421.31	7227.94	-453.53	1347.79	-123.34	523.30	89.22	5.90	PASS	
7516.00†	7138.26	-308.05	1863.62	7538.07	7324.35	-392.32	1371.17	-121.18	533.14	88.80	6.04	PASS	
7616.00†	7192.98	-226.50	1881.81	7661.25	7410.76	-307.42	1392.16	-120.20	541.97	87.10	6.27	PASS	
7716.00†	7233.41	-136.18	1895.29	7790.37	7480.24	-200.25	1409.10	-119.83	549.01	84.84	6.52	PASS	
7816.00†	7258.34	-39.83	1903.65	7924.14	7525.78	-75.29	1420.27	-119.72	553.57	83.25	6.70	PASS	
7916.00†	7267.00	59.63	1906.65	8060.47	7542.00	59.69	1424.38	-119.69	555.17	83.53	6.69	PASS	
7918.37	7267.00	62.00	1906.65	8063.46	7542.00	62.68	1424.38	-119.69	555.17	83.56	6.69	PASS	
8016.00†	7267.00	159.63	1906.79	8161.09	7542.00	160.30	1424.52	-119.69	555.16	84.78	6.59	PASS	
8116.00†	7267.00	259.63	1906.92	8261.09	7542.00	260.30	1424.66	-119.69	555.16	86.46	6.47	PASS	
8216.00†	7267.00	359.63	1907.06	8361.09	7542.00	360.30	1424.80	-119.69	555.16	88.49	6.32	PASS	
8316.00†	7267.00	459.63	1907.20	8461.09	7542.00	460.30	1424.94	-119.69	555.16	89.11	6.27	PASS	
8416.00†	7267.00	559.63	1907.34	8561.09	7542.00	560.30	1425.08	-119.69	555.16	93.45	5.98	PASS	
8516.00†	7267.00	659.63	1907.47	8661.09	7542.00	660.30	1425.22	-119.69	555.16	96.33	5.80	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-1NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NCH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	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†	7267.00	759.63	1907.61	8761.09	7542.00	760.30	1425.36	-119.69	555.15	99.45	5.61	PASS	
8716.00†	7267.00	859.63	1907.75	8861.09	7542.00	860.30	1425.50	-119.69	555.15	102.79	5.43	PASS	
8816.00†	7267.00	959.63	1907.89	8961.09	7542.00	960.30	1425.64	-119.69	555.15	106.33	5.25	PASS	
8916.00†	7267.00	1059.63	1908.03	9061.09	7542.00	1060.30	1425.78	-119.69	555.15	110.04	5.07	PASS	
9016.00†	7267.00	1159.63	1908.16	9161.09	7542.00	1160.30	1425.92	-119.69	555.15	113.91	4.90	PASS	
9116.00†	7267.00	1259.63	1908.30	9261.09	7542.00	1260.30	1426.05	-119.69	555.15	117.92	4.73	PASS	
9216.00†	7267.00	1359.63	1908.44	9361.09	7542.00	1360.30	1426.19	-119.69	555.14	122.07	4.57	PASS	
9316.00†	7267.00	1459.63	1908.58	9461.09	7542.00	1460.30	1426.33	-119.69	555.14	126.33	4.41	PASS	
9416.00†	7267.00	1559.63	1908.71	9561.09	7542.00	1560.30	1426.47	-119.69	555.14	130.69	4.27	PASS	
9516.00†	7267.00	1659.63	1908.85	9661.09	7542.00	1660.30	1426.61	-119.69	555.14	135.15	4.12	PASS	
9616.00†	7267.00	1759.63	1908.99	9761.09	7542.00	1760.30	1426.75	-119.69	555.14	139.70	3.99	PASS	
9716.00†	7267.00	1859.62	1909.13	9861.09	7542.00	1860.30	1426.89	-119.69	555.13	144.33	3.86	PASS	
9816.00†	7267.00	1959.62	1909.26	9961.09	7542.00	1960.30	1427.03	-119.70	555.13	149.02	3.74	PASS	
9916.00†	7267.00	2059.62	1909.40	10061.09	7542.00	2060.30	1427.17	-119.70	555.13	153.78	3.62	PASS	
10016.00†	7267.00	2159.62	1909.54	10161.09	7542.00	2160.30	1427.31	-119.70	555.13	158.59	3.51	PASS	
10116.00†	7267.00	2259.62	1909.68	10261.09	7542.00	2260.30	1427.45	-119.70	555.13	163.46	3.41	PASS	
10216.00†	7267.00	2359.62	1909.82	10361.09	7542.00	2360.30	1427.59	-119.70	555.13	168.38	3.31	PASS	
10316.00†	7267.00	2459.62	1909.95	10461.09	7542.00	2460.30	1427.73	-119.70	555.12	173.34	3.21	PASS	
10416.00†	7267.00	2559.62	1910.09	10561.09	7542.00	2560.30	1427.87	-119.70	555.12	178.35	3.12	PASS	
10516.00†	7267.00	2659.62	1910.23	10661.09	7542.00	2660.30	1428.01	-119.70	555.12	183.38	3.03	PASS	
10616.00†	7267.00	2759.62	1910.37	10761.09	7542.00	2760.30	1428.15	-119.70	555.12	188.46	2.95	PASS	
10716.00†	7267.00	2859.62	1910.50	10861.09	7542.00	2860.30	1428.29	-119.70	555.12	193.56	2.87	PASS	
10816.00†	7267.00	2959.62	1910.64	10961.09	7542.00	2960.30	1428.43	-119.70	555.12	198.70	2.80	PASS	
10916.00†	7267.00	3059.62	1910.78	11061.09	7542.00	3060.30	1428.57	-119.70	555.11	203.86	2.73	PASS	
11016.00†	7267.00	3159.62	1910.92	11161.09	7542.00	3160.30	1428.71	-119.70	555.11	209.04	2.66	PASS	
11116.00†	7267.00	3259.62	1911.06	11261.09	7542.00	3260.30	1428.85	-119.70	555.11	214.25	2.60	PASS	
11216.00†	7267.00	3359.62	1911.19	11361.09	7542.00	3360.30	1428.99	-119.70	555.11	219.48	2.53	PASS	
11316.00†	7267.00	3459.62	1911.33	11461.09	7542.00	3460.30	1429.13	-119.70	555.11	224.73	2.47	PASS	
11416.00†	7267.00	3559.62	1911.47	11561.09	7542.00	3560.30	1429.27	-119.70	555.11	230.00	2.42	PASS	
11516.00†	7267.00	3659.62	1911.61	11661.09	7542.00	3660.30	1429.41	-119.70	555.10	235.28	2.36	PASS	
11616.00†	7267.00	3759.62	1911.74	11761.09	7542.00	3760.30	1429.55	-119.70	555.10	240.58	2.31	PASS	
11716.00†	7267.00	3859.62	1911.88	11861.09	7542.00	3860.30	1429.69	-119.70	555.10	245.90	2.26	PASS	
11816.00†	7267.00	3959.62	1912.02	11961.09	7542.00	3960.30	1429.83	-119.70	555.10	251.23	2.21	PASS	
11916.00†	7267.00	4059.62	1912.16	12061.09	7542.00	4060.30	1429.97	-119.70	555.10	256.57	2.17	PASS	
12016.00†	7267.00	4159.62	1912.29	12161.09	7542.00	4160.30	1430.11	-119.70	555.10	261.93	2.12	PASS	
12116.00†	7267.00	4259.62	1912.43	12261.09	7542.00	4260.30	1430.25	-119.70	555.09	267.30	2.08	PASS	
12216.00†	7267.00	4359.62	1912.57	12361.09	7542.00	4360.30	1430.39	-119.70	555.09	272.68	2.04	PASS	
12316.00†	7267.00	4459.62	1912.71	12461.09	7542.00	4460.30	1430.53	-119.70	555.09	278.07	2.00	PASS	
12416.00†	7267.00	4559.62	1912.85	12561.09	7542.00	4560.30	1430.67	-119.70	555.09	283.47	1.96	PASS	
12516.00†	7267.00	4659.62	1912.98	12661.09	7542.00	4660.30	1430.81	-119.70	555.09	288.87	1.92	PASS	
12616.00†	7267.00	4759.62	1913.12	12761.09	7542.00	4760.30	1430.94	-119.70	555.08	294.29	1.89	PASS	
12716.00†	7267.00	4859.62	1913.26	12861.09	7542.00	4860.30	1431.08	-119.70	555.08	299.72	1.85	PASS	
12816.00†	7267.00	4959.62	1913.40	12961.09	7542.00	4960.30	1431.22	-119.70	555.08	305.15	1.82	PASS	
12916.00†	7267.00	5059.62	1913.53	13061.09	7542.00	5060.30	1431.36	-119.70	555.08	310.59	1.79	PASS	
13016.00†	7267.00	5159.62	1913.67	13161.09	7542.00	5160.30	1431.50	-119.70	555.08	316.04	1.76	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-1NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NCH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	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†	7267.00	5259.62	1913.81	13261.09	7542.00	5260.30	1431.64	-119.70	555.08	321.49	1.73	PASS	
13216.00†	7267.00	5359.62	1913.95	13361.09	7542.00	5360.30	1431.78	-119.70	555.07	326.95	1.70	PASS	
13316.00†	7267.00	5459.62	1914.08	13461.09	7542.00	5460.30	1431.92	-119.70	555.07	332.42	1.67	PASS	
13416.00†	7267.00	5559.62	1914.22	13561.09	7542.00	5560.30	1432.06	-119.70	555.07	337.89	1.64	PASS	
13516.00†	7267.00	5659.62	1914.36	13661.09	7542.00	5660.30	1432.20	-119.70	555.07	343.37	1.62	PASS	
13616.00†	7267.00	5759.62	1914.50	13761.09	7542.00	5760.29	1432.34	-119.70	555.07	348.85	1.59	PASS	
13716.00†	7267.00	5859.62	1914.64	13861.09	7542.00	5860.29	1432.48	-119.70	555.07	354.34	1.57	PASS	
13816.00†	7267.00	5959.62	1914.77	13961.09	7542.00	5960.29	1432.62	-119.70	555.06	359.83	1.54	PASS	
13916.00†	7267.00	6059.62	1914.91	14061.09	7542.00	6060.29	1432.76	-119.70	555.06	365.33	1.52	PASS	
14016.00†	7267.00	6159.62	1915.05	14161.09	7542.00	6160.29	1432.90	-119.70	555.06	370.88	1.50	PASS	
14116.00†	7267.00	6259.62	1915.19	14261.09	7542.00	6260.29	1433.04	-119.70	555.06	376.33	1.48	PASS	
14216.00†	7267.00	6359.62	1915.32	14361.09	7542.00	6360.29	1433.18	-119.70	555.06	381.84	1.45	PASS	
14316.00†	7267.00	6459.62	1915.46	14461.09	7542.00	6460.29	1433.32	-119.70	555.06	387.35	1.43	PASS	
14416.00†	7267.00	6559.62	1915.60	14561.09	7542.00	6560.29	1433.46	-119.70	555.05	392.87	1.41	PASS	
14516.00†	7267.00	6659.62	1915.74	14661.09	7542.00	6660.29	1433.60	-119.70	555.05	398.39	1.39	PASS	
14616.00†	7267.00	6759.62	1915.88	14761.09	7542.00	6760.29	1433.74	-119.70	555.05	403.91	1.37	PASS	
14716.00†	7267.00	6859.62	1916.01	14861.09	7542.00	6860.29	1433.88	-119.70	555.05	409.44	1.36	PASS	
14816.00†	7267.00	6959.62	1916.15	14961.09	7542.00	6960.29	1434.02	-119.70	555.05	414.97	1.34	PASS	
14916.00†	7267.00	7059.62	1916.29	15061.09	7542.00	7060.29	1434.16	-119.70	555.04	420.50	1.32	PASS	
15016.00†	7267.00	7159.62	1916.43	15161.09	7542.00	7160.29	1434.30	-119.70	555.04	426.04	1.30	PASS	
15116.00†	7267.00	7259.62	1916.56	15261.09	7542.00	7260.29	1434.44	-119.70	555.04	431.57	1.29	PASS	
15216.00†	7267.00	7359.62	1916.70	15361.09	7542.00	7360.29	1434.58	-119.70	555.04	437.11	1.27	PASS	
15316.00†	7267.00	7459.62	1916.84	15461.09	7542.00	7460.29	1434.72	-119.70	555.04	442.66	1.25	PASS	
15416.00†	7267.00	7559.62	1916.98	15561.09	7542.00	7560.29	1434.86	-119.70	555.04	448.20	1.24	PASS	
15516.00†	7267.00	7659.62	1917.11	15661.09	7542.00	7660.29	1435.00	-119.70	555.03	453.75	1.22	PASS	
15616.00†	7267.00	7759.62	1917.25	15761.09	7542.00	7760.29	1435.14	-119.70	555.03	459.30	1.21	PASS	
15716.00†	7267.00	7859.62	1917.39	15861.09	7542.00	7860.29	1435.28	-119.70	555.03	464.85	1.19	PASS	
15816.00†	7267.00	7959.62	1917.53	15961.09	7542.00	7960.29	1435.42	-119.70	555.03	470.41	1.18	PASS	
15916.00†	7267.00	8059.62	1917.67	16061.09	7542.00	8060.29	1435.56	-119.70	555.03	475.96	1.17	PASS	
16016.00†	7267.00	8159.62	1917.80	16161.09	7542.00	8160.29	1435.70	-119.70	555.03	481.52	1.15	PASS	
16116.00†	7267.00	8259.62	1917.94	16261.09	7542.00	8260.29	1435.84	-119.70	555.02	487.08	1.14	PASS	
16216.00†	7267.00	8359.62	1918.08	16361.09	7542.00	8360.29	1435.97	-119.70	555.02	492.64	1.13	PASS	
16316.00†	7267.00	8459.62	1918.22	16461.09	7542.00	8460.29	1436.11	-119.70	555.02	498.20	1.11	PASS	
16416.00†	7267.00	8559.62	1918.35	16561.09	7542.00	8560.29	1436.25	-119.70	555.02	503.77	1.10	PASS	
16516.00†	7267.00	8659.62	1918.49	16661.09	7542.00	8660.29	1436.39	-119.70	555.02	509.34	1.09	PASS	
16616.00†	7267.00	8759.62	1918.63	16761.09	7542.00	8760.29	1436.53	-119.70	555.02	514.90	1.08	PASS	
16716.00†	7267.00	8859.62	1918.77	16861.09	7542.00	8860.29	1436.67	-119.70	555.01	520.47	1.07	PASS	
16816.00†	7267.00	8959.62	1918.91	16961.09	7542.00	8960.29	1436.81	-119.70	555.01	526.05	1.06	PASS	
16916.00†	7267.00	9059.62	1919.04	17061.09	7542.00	9060.29	1436.95	-119.70	555.01	531.62	1.04	PASS	
17016.00†	7267.00	9159.62	1919.18	17161.09	7542.00	9160.29	1437.09	-119.70	555.01	537.19	1.03	PASS	
17116.00†	7267.00	9259.62	1919.32	17261.09	7542.00	9260.29	1437.23	-119.70	555.01	542.77	1.02	PASS	
17216.00†	7267.00	9359.62	1919.46	17361.09	7542.00	9360.29	1437.37	-119.70	555.01	548.34	1.01	PASS	
17316.00†	7267.00	9459.62	1919.59	17461.09	7542.00	9460.29	1437.51	-119.70	555.00	553.92	1.00	PASS	
17416.00†	7267.00	9559.62	1919.73	17561.09	7542.00	9560.29	1437.65	-119.70	555.00	559.50	0.99	FAIL	
17516.00†	7267.00	9659.62	1919.87	17661.09	7542.00	9660.29	1437.79	-119.70	555.00	565.08	0.98	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-1NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NCH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
17552.98†	7267.00	9696.60	1919.92	17698.07	7542.00	9697.28	1437.84	-119.70	555.00	567.14	0.98	FAIL	
17557.33	7267.00	9700.95	1919.93	17698.07	7542.00	9697.28	1437.84	-119.70	555.02	566.50	0.98	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: BRIGHTON LAKES 20-17-1NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP

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: BRIGHTON LAKES 20-17-1NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	-18.80	0.00	-18.80
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	-18.80	0.00	-18.80
8.5in Open Hole	882.00	17698.07	16816.07	882.00	7542.00	0.00	-18.80	2955.73	428.86

## SURVEY PROGRAM - Offset Wellbore: BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	882.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-1NCH PWB
882.00	17698.07	BHI AutoTrak Curve (Standard)		BRIGHTON LAKES 20-17-1NCH PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: BRIGHTON LAKES 20-17-1NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP

MD Reference: RIG (16'RKB) (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

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-2NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)

Facility: SEC.20-T01S-R66W Slot: SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-2NCH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	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	30.84	90.00	30.84	1.56	49.80	PASS	
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	30.84	90.00	30.84	1.89	32.11	PASS	
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	30.84	90.00	30.84	2.47	19.82	PASS	
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	30.84	90.00	30.84	3.08	14.13	PASS	
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	30.84	90.00	30.84	3.69	10.94	PASS	
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	30.84	90.00	30.84	4.31	8.92	PASS	
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	30.84	90.00	30.84	4.94	7.52	PASS	
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	30.84	90.00	30.84	5.56	6.50	PASS	
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	30.84	90.00	30.84	6.19	5.72	PASS	
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	30.84	90.00	30.84	6.26	5.43	PASS	
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	30.84	90.00	30.84	6.40	5.29	PASS	
1116.00†	1116.00	0.00	0.00	1115.36	1115.36	-0.10	31.26	90.18	31.26	6.74	5.07	PASS	
1175.00†	1175.00	0.00	0.00	1173.37	1173.32	-0.59	33.31	91.01	33.35	7.19	5.03	PASS	
1216.00†	1216.00	-0.13	0.42	1213.60	1213.48	-1.17	35.73	-14.85	35.42	7.54	5.08	PASS	
1316.00†	1315.87	-1.48	4.99	1311.57	1310.96	-3.39	45.08	-13.74	40.43	9.16	4.70	PASS	
1416.00†	1415.36	-4.33	14.56	1409.28	1407.58	-6.77	59.23	-13.24	45.41	11.14	4.29	PASS	
1516.00†	1514.19	-8.65	29.10	1506.75	1503.09	-11.27	78.11	-13.18	50.32	12.81	4.10	PASS	
1616.00†	1612.09	-14.44	48.59	1603.99	1597.26	-16.88	101.65	-13.42	55.15	14.38	3.98	PASS	
1716.00†	1708.79	-21.69	72.96	1701.01	1689.86	-23.58	129.75	-13.90	59.90	15.85	3.91	PASS	
1808.53	1796.97	-29.67	99.80	1790.58	1773.95	-30.73	159.72	-14.50	64.20	17.09	3.88	PASS	
1816.00†	1804.04	-30.36	102.13	1797.80	1780.67	-31.35	162.31	-14.56	64.56	17.17	3.88	PASS	
1916.00†	1898.59	-39.64	133.35	1897.66	1873.46	-39.91	198.22	-15.21	69.57	17.99	3.98	PASS	
2016.00†	1993.14	-48.92	164.56	1997.53	1966.25	-48.47	234.13	-15.78	74.58	18.92	4.06	PASS	
2116.00†	2087.68	-58.20	195.78	2097.41	2059.05	-57.03	270.04	-16.28	79.60	19.85	4.12	PASS	
2216.00†	2182.23	-67.48	227.00	2197.28	2151.85	-65.59	305.95	-16.72	84.62	20.89	4.16	PASS	
2316.00†	2276.78	-76.76	258.21	2297.15	2244.65	-74.16	341.87	-17.11	89.65	21.99	4.18	PASS	
2416.00†	2371.33	-86.04	289.43	2397.02	2337.44	-82.72	377.78	-17.45	94.69	23.15	4.19	PASS	
2516.00†	2465.88	-95.32	320.64	2496.89	2430.24	-91.28	413.69	-17.77	99.72	24.35	4.19	PASS	
2616.00†	2560.43	-104.60	351.86	2596.76	2523.04	-99.84	449.60	-18.05	104.76	25.59	4.18	PASS	
2716.00†	2654.97	-113.88	383.08	2696.64	2615.84	-108.41	485.52	-18.31	109.80	26.87	4.17	PASS	
2816.00†	2749.52	-123.16	414.29	2796.51	2708.63	-116.97	521.43	-18.54	114.84	28.18	4.15	PASS	
2916.00†	2844.07	-132.44	445.51	2896.38	2801.43	-125.53	557.34	-18.75	119.89	29.52	4.14	PASS	
3016.00†	2938.62	-141.73	476.73	2996.25	2894.23	-134.09	593.26	-18.95	124.93	30.88	4.12	PASS	
3116.00†	3033.17	-151.01	507.94	3096.12	2987.02	-142.66	629.17	-19.13	129.98	32.26	4.10	PASS	
3216.00†	3127.72	-160.29	539.16	3196.00	3079.82	-151.22	665.08	-19.30	135.03	33.66	4.08	PASS	
3316.00†	3222.27	-169.57	570.37	3295.87	3172.62	-159.78	700.99	-19.46	140.08	35.08	4.05	PASS	
3416.00†	3316.81	-178.85	601.59	3395.74	3265.42	-168.34	736.91	-19.60	145.13	36.51	4.03	PASS	
3516.00†	3411.36	-188.13	632.81	3495.61	3358.21	-176.91	772.82	-19.74	150.18	37.95	4.01	PASS	
3616.00†	3505.91	-197.41	664.02	3595.48	3451.01	-185.47	808.73	-19.86	155.23	39.41	3.99	PASS	
3716.00†	3600.46	-206.69	695.24	3695.35	3543.81	-194.03	844.64	-19.98	160.28	40.87	3.97	PASS	
3816.00†	3695.01	-215.97	726.45	3795.23	3636.61	-202.59	880.56	-20.09	165.34	42.34	3.95	PASS	
3916.00†	3789.56	-225.25	757.67	3895.10	3729.40	-211.16	916.47	-20.20	170.39	43.82	3.94	PASS	
4016.00†	3884.11	-234.53	788.89	3994.97	3822.20	-219.72	952.38	-20.30	175.45	45.31	3.92	PASS	
4116.00†	3978.65	-243.81	820.10	4094.84	3915.00	-228.28	988.29	-20.39	180.50	46.81	3.90	PASS	
4216.00†	4073.20	-253.09	851.32	4194.71	4007.79	-236.85	1024.21	-20.48	185.56	48.31	3.88	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-2NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)

Facility: SEC.20-T01S-R66W Slot: SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-2NCH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	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†	4167.75	-262.37	882.54	4294.58	4100.59	-245.41	1060.12	-20.56	190.61	49.82	3.87	PASS	
4416.00†	4262.30	-271.65	913.75	4394.46	4193.39	-253.97	1096.03	-20.64	195.67	51.33	3.85	PASS	
4516.00†	4356.85	-280.93	944.97	4494.33	4286.19	-262.53	1131.94	-20.72	200.73	52.85	3.84	PASS	
4616.00†	4451.40	-290.21	976.18	4594.20	4378.98	-271.10	1167.86	-20.79	205.78	54.37	3.82	PASS	
4716.00†	4545.95	-299.49	1007.40	4694.07	4471.78	-279.66	1203.77	-20.86	210.84	55.90	3.81	PASS	
4816.00†	4640.49	-308.77	1038.62	4793.94	4564.58	-288.22	1239.68	-20.92	215.90	57.43	3.79	PASS	
4916.00†	4735.04	-318.05	1069.83	4893.81	4657.38	-296.78	1275.59	-20.98	220.96	58.96	3.78	PASS	
5016.00†	4829.59	-327.33	1101.05	4993.69	4750.17	-305.35	1311.51	-21.04	226.02	60.50	3.77	PASS	
5116.00†	4924.14	-336.61	1132.27	5093.56	4842.97	-313.91	1347.42	-21.10	231.07	62.04	3.76	PASS	
5216.00†	5018.69	-345.89	1163.48	5193.43	4935.77	-322.47	1383.33	-21.15	236.13	63.58	3.74	PASS	
5316.00†	5113.24	-355.17	1194.70	5293.30	5028.56	-331.03	1419.24	-21.20	241.19	65.12	3.73	PASS	
5416.00†	5207.79	-364.45	1225.91	5393.17	5121.36	-339.60	1455.16	-21.25	246.25	66.67	3.72	PASS	
5516.00†	5302.33	-373.73	1257.13	5493.04	5214.16	-348.16	1491.07	-21.30	251.31	68.22	3.71	PASS	
5616.00†	5396.88	-383.01	1288.35	5592.92	5306.96	-356.72	1526.98	-21.35	256.37	69.77	3.70	PASS	
5716.00†	5491.43	-392.29	1319.56	5692.79	5399.75	-365.28	1562.89	-21.39	261.43	71.32	3.69	PASS	
5816.00†	5585.98	-401.57	1350.78	5792.66	5492.55	-373.85	1598.81	-21.43	266.49	72.88	3.68	PASS	
5916.00†	5680.53	-410.85	1382.00	5892.53	5585.35	-382.41	1634.72	-21.47	271.55	74.43	3.67	PASS	
6016.00†	5775.08	-420.13	1413.21	5992.40	5678.15	-390.97	1670.63	-21.51	276.61	75.99	3.66	PASS	
6116.00†	5869.63	-429.41	1444.43	6092.28	5770.94	-399.53	1706.54	-21.55	281.67	77.55	3.66	PASS	
6216.00†	5964.17	-438.69	1475.64	6192.15	5863.74	-408.10	1742.46	-21.59	286.73	79.11	3.65	PASS	
6316.00†	6058.72	-447.97	1506.86	6292.02	5956.54	-416.66	1778.37	-21.62	291.79	80.68	3.64	PASS	
6416.00†	6153.27	-457.25	1538.08	6391.89	6049.33	-425.22	1814.28	-21.66	296.85	82.24	3.63	PASS	
6516.00†	6247.82	-466.53	1569.29	6491.76	6142.13	-433.78	1850.20	-21.69	301.91	83.80	3.62	PASS	
6616.00†	6342.37	-475.81	1600.51	6591.63	6234.93	-442.35	1886.11	-21.72	306.97	85.37	3.62	PASS	
6716.00†	6436.92	-485.09	1631.72	6691.51	6327.73	-450.91	1922.02	-21.75	312.03	86.94	3.61	PASS	
6816.00†	6531.47	-494.37	1662.94	6791.38	6420.52	-459.47	1957.93	-21.78	317.09	88.51	3.60	PASS	
6916.00†	6626.01	-503.65	1694.16	6891.25	6513.32	-468.03	1993.85	-21.81	322.15	90.08	3.60	PASS	
6965.37	6672.70	-508.24	1709.57	6940.56	6559.14	-472.26	2011.58	-21.83	324.65	90.85	3.59	PASS	
7016.00†	6720.70	-510.70	1725.42	6991.07	6606.07	-476.59	2029.74	-6.78	326.97	91.16	3.61	PASS	
7116.00†	6815.20	-502.45	1756.65	7089.40	6697.44	-485.02	2065.10	23.68	330.63	89.13	3.73	PASS	
7216.00†	6906.91	-477.05	1786.97	7183.34	6784.72	-493.08	2098.88	47.13	335.37	84.95	3.97	PASS	
7316.00†	6993.02	-435.25	1815.47	7270.02	6865.26	-500.51	2130.05	63.93	345.74	82.31	4.23	PASS	
7416.00†	7070.93	-378.34	1841.28	7346.81	6936.61	-507.09	2157.66	75.92	367.03	86.07	4.29	PASS	
7516.00†	7138.26	-308.05	1863.62	7437.61	7021.17	-510.09	2190.39	86.20	401.64	96.84	4.17	PASS	
7616.00†	7192.98	-226.50	1881.81	7556.68	7129.90	-492.89	2232.50	95.74	444.89	107.50	4.16	PASS	
7716.00†	7233.41	-136.18	1895.29	7715.79	7267.56	-432.32	2285.88	105.10	491.36	110.19	4.48	PASS	
7816.00†	7258.34	-39.83	1903.65	7955.28	7431.52	-272.36	2349.57	114.14	531.89	94.73	5.65	PASS	
7916.00†	7267.00	59.63	1906.65	8300.82	7531.89	50.45	2388.86	118.78	550.26	71.57	7.76	PASS	
7918.37	7267.00	62.00	1906.65	8309.79	7531.99	59.41	2388.92	118.79	550.28	71.58	7.75	PASS	
8016.00†	7267.00	159.63	1906.79	8409.35	7532.00	158.97	2389.05	118.79	550.28	71.88	7.72	PASS	
8116.00†	7267.00	259.63	1906.92	8509.35	7532.00	258.97	2389.19	118.79	550.28	72.75	7.63	PASS	
8216.00†	7267.00	359.63	1907.06	8609.35	7532.00	358.97	2389.33	118.79	550.28	74.06	7.49	PASS	
8316.00†	7267.00	459.63	1907.20	8709.35	7532.00	458.97	2389.46	118.79	550.27	75.77	7.32	PASS	
8416.00†	7267.00	559.63	1907.34	8809.35	7532.00	558.97	2389.60	118.79	550.27	77.96	7.11	PASS	
8516.00†	7267.00	659.63	1907.47	8909.35	7532.00	658.97	2389.73	118.79	550.27	80.32	6.90	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0, NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-2NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)

Facility: SEC.20-T01S-R66W Slot: SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-2NCH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	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†	7267.00	759.63	1907.61	9009.35	7532.00	758.97	2389.87	118.79	550.27	83.08	6.67	PASS	
8716.00†	7267.00	859.63	1907.75	9109.35	7532.00	858.97	2390.00	118.79	550.27	86.14	6.43	PASS	
8816.00†	7267.00	959.63	1907.89	9209.35	7532.00	958.97	2390.14	118.79	550.27	89.45	6.19	PASS	
8916.00†	7267.00	1059.63	1908.03	9309.35	7532.00	1058.97	2390.28	118.79	550.26	93.00	5.95	PASS	
9016.00†	7267.00	1159.63	1908.16	9409.35	7532.00	1158.97	2390.41	118.79	550.26	96.75	5.72	PASS	
9116.00†	7267.00	1259.63	1908.30	9509.35	7532.00	1258.97	2390.55	118.79	550.26	100.68	5.50	PASS	
9216.00†	7267.00	1359.63	1908.44	9609.35	7532.00	1358.97	2390.68	118.79	550.26	104.77	5.28	PASS	
9316.00†	7267.00	1459.63	1908.58	9709.35	7532.00	1458.97	2390.82	118.79	550.26	109.01	5.07	PASS	
9416.00†	7267.00	1559.63	1908.71	9809.35	7532.00	1558.97	2390.95	118.79	550.26	113.38	4.88	PASS	
9516.00†	7267.00	1659.63	1908.85	9909.35	7532.00	1658.97	2391.09	118.79	550.25	117.85	4.69	PASS	
9616.00†	7267.00	1759.63	1908.99	10009.35	7532.00	1758.97	2391.23	118.79	550.25	122.43	4.51	PASS	
9716.00†	7267.00	1859.62	1909.13	10109.35	7532.00	1858.97	2391.36	118.79	550.25	127.10	4.35	PASS	
9816.00†	7267.00	1959.62	1909.26	10209.35	7532.00	1958.97	2391.50	118.79	550.25	131.85	4.19	PASS	
9916.00†	7267.00	2059.62	1909.40	10309.35	7532.00	2058.97	2391.63	118.79	550.25	136.66	4.04	PASS	
10016.00†	7267.00	2159.62	1909.54	10409.35	7532.00	2158.97	2391.77	118.79	550.25	141.55	3.90	PASS	
10116.00†	7267.00	2259.62	1909.68	10509.35	7532.00	2258.97	2391.90	118.79	550.24	146.49	3.77	PASS	
10216.00†	7267.00	2359.62	1909.82	10609.35	7532.00	2358.97	2392.04	118.79	550.24	151.48	3.64	PASS	
10316.00†	7267.00	2459.62	1909.95	10709.35	7532.00	2458.97	2392.18	118.79	550.24	156.52	3.53	PASS	
10416.00†	7267.00	2559.62	1910.09	10809.35	7532.00	2558.97	2392.31	118.79	550.24	161.60	3.42	PASS	
10516.00†	7267.00	2659.62	1910.23	10909.35	7532.00	2658.97	2392.45	118.79	550.24	166.73	3.31	PASS	
10616.00†	7267.00	2759.62	1910.37	11009.35	7532.00	2758.97	2392.58	118.79	550.24	171.88	3.21	PASS	
10716.00†	7267.00	2859.62	1910.50	11109.35	7532.00	2858.97	2392.72	118.79	550.23	177.07	3.12	PASS	
10816.00†	7267.00	2959.62	1910.64	11209.35	7532.00	2958.97	2392.86	118.79	550.23	182.29	3.03	PASS	
10916.00†	7267.00	3059.62	1910.78	11309.35	7532.00	3058.97	2392.99	118.79	550.23	187.53	2.94	PASS	
11016.00†	7267.00	3159.62	1910.92	11409.35	7532.00	3158.97	2393.13	118.79	550.23	192.80	2.86	PASS	
11116.00†	7267.00	3259.62	1911.06	11509.35	7532.00	3258.97	2393.26	118.79	550.23	198.10	2.78	PASS	
11216.00†	7267.00	3359.62	1911.19	11609.35	7532.00	3358.97	2393.40	118.79	550.23	203.41	2.71	PASS	
11316.00†	7267.00	3459.62	1911.33	11709.35	7532.00	3458.97	2393.53	118.79	550.22	208.74	2.64	PASS	
11416.00†	7267.00	3559.62	1911.47	11809.35	7532.00	3558.97	2393.67	118.79	550.22	214.10	2.58	PASS	
11516.00†	7267.00	3659.62	1911.61	11909.35	7532.00	3658.97	2393.81	118.79	550.22	219.46	2.51	PASS	
11616.00†	7267.00	3759.62	1911.74	12009.35	7532.00	3758.97	2393.94	118.79	550.22	224.85	2.45	PASS	
11716.00†	7267.00	3859.62	1911.88	12109.35	7532.00	3858.97	2394.08	118.79	550.22	230.24	2.39	PASS	
11816.00†	7267.00	3959.62	1912.02	12209.35	7532.00	3958.97	2394.21	118.79	550.21	235.66	2.34	PASS	
11916.00†	7267.00	4059.62	1912.16	12309.35	7532.00	4058.97	2394.35	118.79	550.21	241.08	2.29	PASS	
12016.00†	7267.00	4159.62	1912.29	12409.35	7532.00	4158.97	2394.48	118.79	550.21	246.51	2.24	PASS	
12116.00†	7267.00	4259.62	1912.43	12509.35	7532.00	4258.97	2394.62	118.79	550.21	251.96	2.19	PASS	
12216.00†	7267.00	4359.62	1912.57	12609.35	7532.00	4358.97	2394.76	118.79	550.21	257.42	2.14	PASS	
12316.00†	7267.00	4459.62	1912.71	12709.35	7532.00	4458.97	2394.89	118.79	550.21	262.88	2.10	PASS	
12416.00†	7267.00	4559.62	1912.85	12809.35	7532.00	4558.97	2395.03	118.79	550.20	268.36	2.05	PASS	
12516.00†	7267.00	4659.62	1912.98	12909.35	7532.00	4658.97	2395.16	118.79	550.20	273.84	2.01	PASS	
12616.00†	7267.00	4759.62	1913.12	13009.35	7532.00	4758.97	2395.30	118.79	550.20	279.33	1.97	PASS	
12716.00†	7267.00	4859.62	1913.26	13109.35	7532.00	4858.97	2395.44	118.79	550.20	284.83	1.93	PASS	
12816.00†	7267.00	4959.62	1913.40	13209.35	7532.00	4958.97	2395.57	118.79	550.20	290.33	1.90	PASS	
12916.00†	7267.00	5059.62	1913.53	13309.35	7532.00	5058.97	2395.71	118.79	550.20	295.85	1.86	PASS	
13016.00†	7267.00	5159.62	1913.67	13409.35	7532.00	5158.97	2395.84	118.79	550.19	301.36	1.83	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-2NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)

Facility: SEC.20-T01S-R66W				Slot: SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20)				Well: BRIGHTON LAKES 20-17-2NCH		Threshold Value=1.00		† = interpolated/extrapolated station	
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	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†	7267.00	5259.62	1913.81	13509.35	7532.00	5258.97	2395.98	118.79	550.19	306.89	1.79	PASS	
13216.00†	7267.00	5359.62	1913.95	13609.35	7532.00	5358.97	2396.11	118.79	550.19	312.42	1.76	PASS	
13316.00†	7267.00	5459.62	1914.08	13709.35	7532.00	5458.97	2396.25	118.79	550.19	317.95	1.73	PASS	
13416.00†	7267.00	5559.62	1914.22	13809.35	7532.00	5558.97	2396.39	118.79	550.19	323.49	1.70	PASS	
13516.00†	7267.00	5659.62	1914.36	13909.35	7532.00	5658.97	2396.52	118.79	550.19	329.04	1.67	PASS	
13616.00†	7267.00	5759.62	1914.50	14009.35	7532.00	5758.97	2396.66	118.79	550.18	334.59	1.65	PASS	
13716.00†	7267.00	5859.62	1914.64	14109.35	7532.00	5858.97	2396.79	118.79	550.18	340.14	1.62	PASS	
13816.00†	7267.00	5959.62	1914.77	14209.35	7532.00	5958.97	2396.93	118.79	550.18	345.70	1.59	PASS	
13916.00†	7267.00	6059.62	1914.91	14309.35	7532.00	6058.97	2397.06	118.79	550.18	351.26	1.57	PASS	
14016.00†	7267.00	6159.62	1915.05	14409.35	7532.00	6158.97	2397.20	118.79	550.18	356.83	1.54	PASS	
14116.00†	7267.00	6259.62	1915.19	14509.35	7532.00	6258.97	2397.34	118.79	550.18	362.39	1.52	PASS	
14216.00†	7267.00	6359.62	1915.32	14609.35	7532.00	6358.97	2397.47	118.79	550.17	367.97	1.50	PASS	
14316.00†	7267.00	6459.62	1915.46	14709.35	7532.00	6458.97	2397.61	118.79	550.17	373.54	1.47	PASS	
14416.00†	7267.00	6559.62	1915.60	14809.35	7532.00	6558.97	2397.74	118.79	550.17	379.12	1.45	PASS	
14516.00†	7267.00	6659.62	1915.74	14909.35	7532.00	6658.97	2397.88	118.80	550.17	384.70	1.43	PASS	
14616.00†	7267.00	6759.62	1915.88	15009.35	7532.00	6758.97	2398.02	118.80	550.17	390.29	1.41	PASS	
14716.00†	7267.00	6859.62	1916.01	15109.35	7532.00	6858.97	2398.15	118.80	550.17	395.88	1.39	PASS	
14816.00†	7267.00	6959.62	1916.15	15209.35	7532.00	6958.97	2398.29	118.80	550.16	401.47	1.37	PASS	
14916.00†	7267.00	7059.62	1916.29	15309.35	7532.00	7058.97	2398.42	118.80	550.16	407.06	1.35	PASS	
15016.00†	7267.00	7159.62	1916.43	15409.35	7532.00	7158.97	2398.56	118.80	550.16	412.65	1.33	PASS	
15116.00†	7267.00	7259.62	1916.56	15509.35	7532.00	7258.97	2398.69	118.80	550.16	418.25	1.32	PASS	
15216.00†	7267.00	7359.62	1916.70	15609.35	7532.00	7358.97	2398.83	118.80	550.16	423.85	1.30	PASS	
15316.00†	7267.00	7459.62	1916.84	15709.35	7532.00	7458.97	2398.97	118.80	550.16	429.45	1.28	PASS	
15416.00†	7267.00	7559.62	1916.98	15809.35	7532.00	7558.96	2399.10	118.80	550.15	435.05	1.26	PASS	
15516.00†	7267.00	7659.62	1917.11	15909.35	7532.00	7658.96	2399.24	118.80	550.15	440.66	1.25	PASS	
15616.00†	7267.00	7759.62	1917.25	16009.35	7532.00	7758.96	2399.37	118.80	550.15	446.27	1.23	PASS	
15716.00†	7267.00	7859.62	1917.39	16109.35	7532.00	7858.96	2399.51	118.80	550.15	451.88	1.22	PASS	
15816.00†	7267.00	7959.62	1917.53	16209.35	7532.00	7958.96	2399.64	118.80	550.15	457.49	1.20	PASS	
15916.00†	7267.00	8059.62	1917.67	16309.35	7532.00	8058.96	2399.78	118.80	550.15	463.10	1.19	PASS	
16016.00†	7267.00	8159.62	1917.80	16409.35	7532.00	8158.96	2399.92	118.80	550.14	468.71	1.17	PASS	
16116.00†	7267.00	8259.62	1917.94	16509.35	7532.00	8258.96	2400.05	118.80	550.14	474.33	1.16	PASS	
16216.00†	7267.00	8359.62	1918.08	16609.35	7532.00	8358.96	2400.19	118.80	550.14	479.95	1.15	PASS	
16316.00†	7267.00	8459.62	1918.22	16709.35	7532.00	8458.96	2400.32	118.80	550.14	485.57	1.13	PASS	
16416.00†	7267.00	8559.62	1918.35	16809.35	7532.00	8558.96	2400.46	118.80	550.14	491.19	1.12	PASS	
16516.00†	7267.00	8659.62	1918.49	16909.35	7532.00	8658.96	2400.59	118.80	550.14	496.81	1.11	PASS	
16616.00†	7267.00	8759.62	1918.63	17009.35	7532.00	8758.96	2400.73	118.80	550.13	502.43	1.10	PASS	
16716.00†	7267.00	8859.62	1918.77	17109.35	7532.00	8858.96	2400.87	118.80	550.13	508.06	1.08	PASS	
16816.00†	7267.00	8959.62	1918.91	17209.35	7532.00	8958.96	2401.00	118.80	550.13	513.68	1.07	PASS	
16916.00†	7267.00	9059.62	1919.04	17309.35	7532.00	9058.96	2401.14	118.80	550.13	519.31	1.06	PASS	
17016.00†	7267.00	9159.62	1919.18	17409.35	7532.00	9158.96	2401.27	118.80	550.13	524.94	1.05	PASS	
17116.00†	7267.00	9259.62	1919.32	17509.35	7532.00	9258.96	2401.41	118.80	550.12	530.56	1.04	PASS	
17216.00†	7267.00	9359.62	1919.46	17609.35	7532.00	9358.96	2401.55	118.80	550.12	536.19	1.03	PASS	
17316.00†	7267.00	9459.62	1919.59	17709.35	7532.00	9458.96	2401.68	118.80	550.12	541.83	1.02	PASS	
17416.00†	7267.00	9559.62	1919.73	17809.35	7532.00	9558.96	2401.82	118.80	550.12	547.46	1.00	PASS	
17516.00†	7267.00	9659.62	1919.87	17909.35	7532.00	9658.96	2401.95	118.80	550.12	553.09	0.99	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-2NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)

Facility: SEC.20-T01S-R66W Slot: SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-2NCH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
17557.33	7267.00	9700.95	1919.93	17950.68	7532.00	9700.30	2402.01	118.80	550.12	555.41	0.99	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: BRIGHTON LAKES 20-17-2NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)

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: BRIGHTON LAKES 20-17-2NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)

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	882.00	866.00	16.00	882.00	0.00	18.80	0.00	18.80
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	18.80	0.00	18.80
8.5in Open Hole	882.00	17952.00	17070.00	882.00	N/A	0.00	18.80	N/A	N/A

## SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	882.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-2NCH PWB
882.00	17951.38	Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-2NCH PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: BRIGHTON LAKES 20-17-2NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)

MD Reference: RIG (16' RKB) (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

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-3NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-3NBH Threshold Value=1.00 † = interpolated/extrapolated station															
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	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	44.86	90.00	44.86	1.56	73.16	PASS			
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	44.86	90.00	44.86	1.89	47.17	PASS			
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	44.86	90.00	44.86	2.47	29.12	PASS			
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	44.86	90.00	44.86	3.08	20.76	PASS			
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	44.86	90.00	44.86	3.69	16.08	PASS			
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	44.86	90.00	44.86	4.31	13.10	PASS			
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	44.86	90.00	44.86	4.94	11.05	PASS			
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	44.86	90.00	44.86	5.56	9.55	PASS			
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	44.86	90.00	44.86	6.19	8.40	PASS			
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	44.86	90.00	44.86	6.82	7.96	PASS			
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	44.86	90.00	44.86	7.45	7.75	PASS			
1116.00†	1116.00	0.00	0.00	1113.89	1113.86	-0.44	46.88	90.54	46.93	6.91	7.45	PASS			
1175.00†	1175.00	0.00	0.00	1171.35	1171.20	-1.19	50.34	91.36	50.50	7.59	7.23	PASS			
1216.00†	1216.00	-0.13	0.42	1211.16	1210.87	-1.93	53.72	-14.60	53.58	8.10	7.16	PASS			
1316.00†	1315.87	-1.48	4.99	1308.01	1306.98	-4.45	65.32	-13.63	61.05	9.66	6.74	PASS			
1416.00†	1415.36	-4.33	14.56	1404.51	1402.01	-7.99	81.59	-13.21	68.44	11.48	6.29	PASS			
1516.00†	1514.19	-8.65	29.10	1500.66	1495.76	-12.52	102.44	-13.16	75.72	13.12	6.04	PASS			
1616.00†	1612.09	-14.44	48.59	1596.47	1587.98	-18.03	127.79	-13.38	82.87	14.64	5.90	PASS			
1716.00†	1708.79	-21.69	72.96	1691.96	1678.49	-24.50	157.51	-13.81	89.86	16.08	5.80	PASS			
1808.53	1796.97	-29.67	99.80	1780.04	1760.53	-31.30	188.81	-14.36	96.20	17.33	5.74	PASS			
1816.00†	1804.04	-30.36	102.13	1787.15	1767.08	-31.89	191.50	-14.41	96.72	17.41	5.75	PASS			
1916.00†	1898.59	-39.64	133.35	1885.19	1856.89	-40.25	229.94	-14.90	105.21	18.20	5.97	PASS			
2016.00†	1993.14	-48.92	164.56	1984.81	1948.02	-48.79	269.23	-15.30	113.98	19.21	6.12	PASS			
2116.00†	2087.68	-58.20	195.78	2084.42	2039.16	-57.34	308.52	-15.64	122.75	20.11	6.29	PASS			
2216.00†	2182.23	-67.48	227.00	2184.03	2130.29	-65.88	347.81	-15.93	131.52	21.14	6.40	PASS			
2316.00†	2276.78	-76.76	258.21	2283.64	2221.43	-74.43	387.11	-16.19	140.30	22.23	6.49	PASS			
2416.00†	2371.33	-86.04	289.43	2383.25	2312.57	-82.97	426.40	-16.42	149.07	23.37	6.55	PASS			
2516.00†	2465.88	-95.32	320.64	2482.87	2403.70	-91.51	465.69	-16.62	157.85	24.55	6.59	PASS			
2616.00†	2560.43	-104.60	351.86	2582.48	2494.84	-100.06	504.98	-16.81	166.64	25.78	6.62	PASS			
2716.00†	2654.97	-113.88	383.08	2682.09	2585.97	-108.60	544.27	-16.97	175.42	27.03	6.64	PASS			
2816.00†	2749.52	-123.16	414.29	2781.70	2677.11	-117.15	583.56	-17.12	184.21	28.32	6.65	PASS			
2916.00†	2844.07	-132.44	445.51	2881.32	2768.25	-125.69	622.85	-17.25	192.99	29.63	6.65	PASS			
3016.00†	2938.62	-141.73	476.73	2980.93	2859.38	-134.24	662.15	-17.37	201.78	30.96	6.65	PASS			
3116.00†	3033.17	-151.01	507.94	3080.54	2950.52	-142.78	701.44	-17.49	210.57	32.31	6.64	PASS			
3216.00†	3127.72	-160.29	539.16	3180.15	3041.66	-151.33	740.73	-17.59	219.36	33.68	6.63	PASS			
3316.00†	3222.27	-169.57	570.37	3279.77	3132.79	-159.87	780.02	-17.68	228.15	35.06	6.62	PASS			
3416.00†	3316.81	-178.85	601.59	3379.38	3223.93	-168.41	819.31	-17.77	236.94	36.46	6.61	PASS			
3516.00†	3411.36	-188.13	632.81	3478.99	3315.06	-176.96	858.60	-17.85	245.73	37.87	6.59	PASS			
3616.00†	3505.91	-197.41	664.02	3578.60	3406.20	-185.50	897.89	-17.93	254.52	39.28	6.58	PASS			
3716.00†	3600.46	-206.69	695.24	3678.21	3497.34	-194.05	937.18	-18.00	263.31	40.71	6.56	PASS			
3816.00†	3695.01	-215.97	726.45	3777.83	3588.47	-202.59	976.48	-18.07	272.10	42.15	6.55	PASS			
3916.00†	3789.56	-225.25	757.67	3877.44	3679.61	-211.14	1015.77	-18.13	280.89	43.59	6.53	PASS			
4016.00†	3884.11	-234.53	788.89	3977.05	3770.74	-219.68	1055.06	-18.19	289.69	45.04	6.52	PASS			
4116.00†	3978.65	-243.81	820.10	4076.66	3861.88	-228.23	1094.35	-18.25	298.48	46.50	6.50	PASS			
4216.00†	4073.20	-253.09	851.32	4176.28	3953.02	-236.77	1133.64	-18.30	307.27	47.97	6.49	PASS			

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-3NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-3NBH Threshold Value=1.00 † = interpolated/extrapolated station																	
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	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†	4167.75	-262.37	882.54	4275.89	4044.15	-245.31	1172.93	-18.35	316.07	49.43	6.47	PASS					
4416.00†	4262.30	-271.65	913.75	4375.50	4135.29	-253.86	1212.22	-18.39	324.86	50.91	6.46	PASS					
4516.00†	4356.85	-280.93	944.97	4475.11	4226.42	-262.40	1251.51	-18.44	333.65	52.39	6.44	PASS					
4616.00†	4451.40	-290.21	976.18	4574.73	4317.56	-270.95	1290.81	-18.48	342.45	53.87	6.43	PASS					
4716.00†	4545.95	-299.49	1007.40	4674.34	4408.70	-279.49	1330.10	-18.52	351.24	55.35	6.41	PASS					
4816.00†	4640.49	-308.77	1038.62	4773.95	4499.83	-288.04	1369.39	-18.56	360.04	56.84	6.40	PASS					
4916.00†	4735.04	-318.05	1069.83	4873.56	4590.97	-296.58	1408.68	-18.59	368.83	58.33	6.39	PASS					
5016.00†	4829.59	-327.33	1101.05	4973.17	4682.11	-305.13	1447.97	-18.63	377.62	59.83	6.38	PASS					
5116.00†	4924.14	-336.61	1132.27	5072.79	4773.24	-313.67	1487.26	-18.66	386.42	61.33	6.36	PASS					
5216.00†	5018.69	-345.89	1163.48	5172.40	4864.38	-322.21	1526.55	-18.69	395.21	62.83	6.35	PASS					
5316.00†	5113.24	-355.17	1194.70	5272.01	4955.51	-330.76	1565.85	-18.72	404.01	64.33	6.34	PASS					
5416.00†	5207.79	-364.45	1225.91	5371.62	5046.65	-339.30	1605.14	-18.75	412.80	65.83	6.33	PASS					
5516.00†	5302.33	-373.73	1257.13	5471.24	5137.79	-347.85	1644.43	-18.78	421.60	67.34	6.32	PASS					
5616.00†	5396.88	-383.01	1288.35	5570.85	5228.92	-356.39	1683.72	-18.80	430.39	68.85	6.31	PASS					
5716.00†	5491.43	-392.29	1319.56	5670.46	5320.06	-364.94	1723.01	-18.83	439.19	70.36	6.30	PASS					
5816.00†	5585.98	-401.57	1350.78	5770.07	5411.19	-373.48	1762.30	-18.85	447.98	71.87	6.29	PASS					
5916.00†	5680.53	-410.85	1382.00	5869.68	5502.33	-382.03	1801.59	-18.88	456.78	73.38	6.28	PASS					
6016.00†	5775.08	-420.13	1413.21	5969.30	5593.47	-390.57	1840.88	-18.90	465.58	74.90	6.27	PASS					
6116.00†	5869.63	-429.41	1444.43	6068.91	5684.60	-399.11	1880.18	-18.92	474.37	76.41	6.26	PASS					
6216.00†	5964.17	-438.69	1475.64	6168.52	5775.74	-407.66	1919.47	-18.94	483.17	77.93	6.25	PASS					
6316.00†	6058.72	-447.97	1506.86	6268.13	5866.87	-416.20	1958.76	-18.96	491.96	79.45	6.24	PASS					
6416.00†	6153.27	-457.25	1538.08	6367.75	5958.01	-424.75	1998.05	-18.98	500.76	80.97	6.23	PASS					
6516.00†	6247.82	-466.53	1569.29	6467.36	6049.15	-433.29	2037.34	-19.00	509.55	82.49	6.22	PASS					
6616.00†	6342.37	-475.81	1600.51	6566.97	6140.28	-441.84	2076.63	-19.02	518.35	84.01	6.21	PASS					
6716.00†	6436.92	-485.09	1631.72	6666.58	6231.42	-450.38	2115.92	-19.03	527.15	85.54	6.21	PASS					
6816.00†	6531.47	-494.37	1662.94	6766.20	6322.56	-458.93	2155.22	-19.05	535.94	87.06	6.20	PASS					
6916.00†	6626.01	-503.65	1694.16	6865.81	6413.69	-467.47	2194.51	-19.07	544.74	88.59	6.19	PASS					
6965.37	6672.70	-508.24	1709.57	6914.99	6458.69	-471.69	2213.91	-19.08	549.08	89.34	6.19	PASS					
7016.00†	6720.70	-510.70	1725.42	6965.37	6504.78	-476.01	2233.78	-4.38	553.40	89.81	6.20	PASS					
7116.00†	6815.20	-502.45	1756.65	7063.44	6594.51	-484.42	2272.46	24.45	561.33	89.09	6.34	PASS					
7216.00†	6906.91	-477.05	1786.97	7157.13	6680.22	-492.46	2309.41	45.31	569.71	86.83	6.61	PASS					
7316.00†	6993.02	-435.25	1815.47	7243.57	6759.31	-499.87	2343.51	59.10	581.05	84.50	6.93	PASS					
7416.00†	7070.93	-378.34	1841.28	7320.15	6829.37	-506.44	2373.72	68.39	598.54	84.38	7.14	PASS					
7516.00†	7138.26	-308.05	1863.62	7406.78	6908.79	-510.42	2407.96	75.70	624.44	88.52	7.10	PASS					
7616.00†	7192.98	-226.50	1881.81	7522.07	7013.65	-496.11	2453.20	82.52	656.77	95.42	6.93	PASS					
7716.00†	7233.41	-136.18	1895.29	7679.39	7148.27	-440.50	2511.33	89.59	692.37	100.08	6.96	PASS					
7816.00†	7258.34	-39.83	1903.65	7919.80	7314.44	-285.02	2583.20	97.40	724.61	94.02	7.76	PASS					
7916.00†	7267.00	59.63	1906.65	8279.15	7421.85	48.50	2629.98	102.09	739.80	82.19	9.07	PASS					
7918.37	7267.00	62.00	1906.65	8288.59	7421.99	57.93	2630.05	102.09	739.82	82.24	9.07	PASS					
8016.00†	7267.00	159.63	1906.79	8389.31	7422.00	158.65	2630.19	102.09	739.82	82.82	9.00	PASS					
8116.00†	7267.00	259.63	1906.92	8489.31	7422.00	258.65	2630.32	102.09	739.82	83.95	8.88	PASS					
8216.00†	7267.00	359.63	1907.06	8589.31	7422.00	358.65	2630.46	102.09	739.82	85.54	8.71	PASS					
8316.00†	7267.00	459.63	1907.20	8689.31	7422.00	458.65	2630.59	102.09	739.81	87.55	8.51	PASS					
8416.00†	7267.00	559.63	1907.34	8789.31	7422.00	558.65	2630.73	102.09	739.81	89.95	8.28	PASS					
8516.00†	7267.00	659.63	1907.47	8889.31	7422.00	658.65	2630.86	102.09	739.81	93.32	7.98	PASS					

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-3NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-3NBH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	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†	7267.00	759.63	1907.61	8989.31	7422.00	758.65	2631.00	102.09	739.80	95.79	7.77	PASS	
8716.00†	7267.00	859.63	1907.75	9089.31	7422.00	858.65	2631.13	102.09	739.80	99.18	7.51	PASS	
8816.00†	7267.00	959.63	1907.89	9189.31	7422.00	958.65	2631.27	102.09	739.80	102.83	7.24	PASS	
8916.00†	7267.00	1059.63	1908.03	9289.31	7422.00	1058.65	2631.40	102.09	739.80	106.73	6.97	PASS	
9016.00†	7267.00	1159.63	1908.16	9389.31	7422.00	1158.65	2631.53	102.09	739.79	110.83	6.71	PASS	
9116.00†	7267.00	1259.63	1908.30	9489.31	7422.00	1258.65	2631.67	102.09	739.79	115.13	6.46	PASS	
9216.00†	7267.00	1359.63	1908.44	9589.31	7422.00	1358.65	2631.80	102.09	739.79	119.60	6.22	PASS	
9316.00†	7267.00	1459.63	1908.58	9689.31	7422.00	1458.65	2631.94	102.09	739.78	124.22	5.98	PASS	
9416.00†	7267.00	1559.63	1908.71	9789.31	7422.00	1558.65	2632.07	102.09	739.78	128.98	5.76	PASS	
9516.00†	7267.00	1659.63	1908.85	9889.31	7422.00	1658.65	2632.21	102.09	739.78	133.86	5.55	PASS	
9616.00†	7267.00	1759.63	1908.99	9989.31	7422.00	1758.65	2632.34	102.09	739.78	138.85	5.35	PASS	
9716.00†	7267.00	1859.63	1909.13	10089.31	7422.00	1858.65	2632.48	102.09	739.77	143.93	5.16	PASS	
9816.00†	7267.00	1959.62	1909.26	10189.31	7422.00	1958.65	2632.61	102.10	739.77	149.10	4.98	PASS	
9916.00†	7267.00	2059.62	1909.40	10289.31	7422.00	2058.65	2632.75	102.10	739.77	154.35	4.81	PASS	
10016.00†	7267.00	2159.62	1909.54	10389.31	7422.00	2158.65	2632.88	102.10	739.76	159.68	4.65	PASS	
10116.00†	7267.00	2259.62	1909.68	10489.31	7422.00	2258.65	2633.02	102.10	739.76	165.06	4.50	PASS	
10216.00†	7267.00	2359.62	1909.82	10589.31	7422.00	2358.65	2633.15	102.10	739.76	170.50	4.35	PASS	
10316.00†	7267.00	2459.62	1909.95	10689.31	7422.00	2458.65	2633.29	102.10	739.75	176.00	4.22	PASS	
10416.00†	7267.00	2559.62	1910.09	10789.31	7422.00	2558.65	2633.42	102.10	739.75	181.54	4.09	PASS	
10516.00†	7267.00	2659.62	1910.23	10889.31	7422.00	2658.65	2633.56	102.10	739.75	187.12	3.96	PASS	
10616.00†	7267.00	2759.62	1910.37	10989.31	7422.00	2758.65	2633.69	102.10	739.75	192.75	3.85	PASS	
10716.00†	7267.00	2859.62	1910.50	11089.31	7422.00	2858.65	2633.83	102.10	739.74	198.41	3.74	PASS	
10816.00†	7267.00	2959.62	1910.64	11189.31	7422.00	2958.65	2633.96	102.10	739.74	204.10	3.63	PASS	
10916.00†	7267.00	3059.62	1910.78	11289.31	7422.00	3058.65	2634.10	102.10	739.74	209.83	3.53	PASS	
11016.00†	7267.00	3159.62	1910.92	11389.31	7422.00	3158.65	2634.23	102.10	739.73	215.58	3.44	PASS	
11116.00†	7267.00	3259.62	1911.06	11489.31	7422.00	3258.65	2634.36	102.10	739.73	221.36	3.35	PASS	
11216.00†	7267.00	3359.62	1911.19	11589.31	7422.00	3358.65	2634.50	102.10	739.73	227.16	3.26	PASS	
11316.00†	7267.00	3459.62	1911.33	11689.31	7422.00	3458.65	2634.63	102.10	739.73	232.98	3.18	PASS	
11416.00†	7267.00	3559.62	1911.47	11789.31	7422.00	3558.65	2634.77	102.10	739.72	238.83	3.10	PASS	
11516.00†	7267.00	3659.62	1911.61	11889.31	7422.00	3658.65	2634.90	102.10	739.72	244.69	3.03	PASS	
11616.00†	7267.00	3759.62	1911.74	11989.31	7422.00	3758.65	2635.04	102.10	739.72	250.57	2.96	PASS	
11716.00†	7267.00	3859.62	1911.88	12089.31	7422.00	3858.65	2635.17	102.10	739.71	256.47	2.89	PASS	
11816.00†	7267.00	3959.62	1912.02	12189.31	7422.00	3958.65	2635.31	102.10	739.71	262.38	2.82	PASS	
11916.00†	7267.00	4059.62	1912.16	12289.31	7422.00	4058.65	2635.44	102.10	739.71	268.31	2.76	PASS	
12016.00†	7267.00	4159.62	1912.29	12389.31	7422.00	4158.65	2635.58	102.10	739.71	274.25	2.70	PASS	
12116.00†	7267.00	4259.62	1912.43	12489.31	7422.00	4258.65	2635.71	102.10	739.70	280.21	2.64	PASS	
12216.00†	7267.00	4359.62	1912.57	12589.31	7422.00	4358.65	2635.85	102.10	739.70	286.17	2.59	PASS	
12316.00†	7267.00	4459.62	1912.71	12689.31	7422.00	4458.65	2635.98	102.10	739.70	292.15	2.54	PASS	
12416.00†	7267.00	4559.62	1912.85	12789.31	7422.00	4558.65	2636.12	102.10	739.69	298.13	2.48	PASS	
12516.00†	7267.00	4659.62	1912.98	12889.31	7422.00	4658.65	2636.25	102.10	739.69	304.13	2.44	PASS	
12616.00†	7267.00	4759.62	1913.12	12989.31	7422.00	4758.65	2636.39	102.10	739.69	310.13	2.39	PASS	
12716.00†	7267.00	4859.62	1913.26	13089.31	7422.00	4858.65	2636.52	102.10	739.69	316.15	2.34	PASS	
12816.00†	7267.00	4959.62	1913.40	13189.31	7422.00	4958.65	2636.66	102.10	739.68	322.17	2.30	PASS	
12916.00†	7267.00	5059.62	1913.53	13289.31	7422.00	5058.65	2636.79	102.10	739.68	328.20	2.26	PASS	
13016.00†	7267.00	5159.62	1913.67	13389.31	7422.00	5158.65	2636.93	102.10	739.68	334.24	2.22	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
Page 26 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-3NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-3NBH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	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†	7267.00	5259.62	1913.81	13489.31	7422.00	5258.65	2637.06	102.10	739.67	340.28	2.18	PASS	
13216.00†	7267.00	5359.62	1913.95	13589.31	7422.00	5358.65	2637.19	102.10	739.67	346.33	2.14	PASS	
13316.00†	7267.00	5459.62	1914.08	13689.31	7422.00	5458.65	2637.33	102.10	739.67	352.39	2.10	PASS	
13416.00†	7267.00	5559.62	1914.22	13789.31	7422.00	5558.65	2637.46	102.10	739.66	358.45	2.07	PASS	
13516.00†	7267.00	5659.62	1914.36	13889.31	7422.00	5658.65	2637.60	102.10	739.66	364.52	2.03	PASS	
13616.00†	7267.00	5759.62	1914.50	13989.31	7422.00	5758.65	2637.73	102.10	739.66	370.59	2.00	PASS	
13716.00†	7267.00	5859.62	1914.64	14089.31	7422.00	5858.65	2637.87	102.10	739.66	376.67	1.97	PASS	
13816.00†	7267.00	5959.62	1914.77	14189.31	7422.00	5958.65	2638.00	102.10	739.65	382.75	1.93	PASS	
13916.00†	7267.00	6059.62	1914.91	14289.31	7422.00	6058.65	2638.14	102.10	739.65	388.84	1.90	PASS	
14016.00†	7267.00	6159.62	1915.05	14389.31	7422.00	6158.65	2638.27	102.10	739.65	394.93	1.87	PASS	
14116.00†	7267.00	6259.62	1915.19	14489.31	7422.00	6258.65	2638.41	102.10	739.64	401.03	1.85	PASS	
14216.00†	7267.00	6359.62	1915.32	14589.31	7422.00	6358.65	2638.54	102.10	739.64	407.13	1.82	PASS	
14316.00†	7267.00	6459.62	1915.46	14689.31	7422.00	6458.65	2638.68	102.10	739.64	413.24	1.79	PASS	
14416.00†	7267.00	6559.62	1915.60	14789.31	7422.00	6558.65	2638.81	102.10	739.64	419.34	1.77	PASS	
14516.00†	7267.00	6659.62	1915.74	14889.31	7422.00	6658.65	2638.95	102.10	739.63	425.46	1.74	PASS	
14616.00†	7267.00	6759.62	1915.88	14989.31	7422.00	6758.65	2639.08	102.10	739.63	431.57	1.71	PASS	
14716.00†	7267.00	6859.62	1916.01	15089.31	7422.00	6858.65	2639.22	102.10	739.63	437.69	1.69	PASS	
14816.00†	7267.00	6959.62	1916.15	15189.31	7422.00	6958.65	2639.35	102.10	739.62	443.81	1.67	PASS	
14916.00†	7267.00	7059.62	1916.29	15289.31	7422.00	7058.65	2639.49	102.10	739.62	449.93	1.64	PASS	
15016.00†	7267.00	7159.62	1916.43	15389.31	7422.00	7158.65	2639.62	102.10	739.62	456.06	1.62	PASS	
15116.00†	7267.00	7259.62	1916.56	15489.31	7422.00	7258.65	2639.76	102.10	739.62	462.19	1.60	PASS	
15216.00†	7267.00	7359.62	1916.70	15589.31	7422.00	7358.65	2639.89	102.10	739.61	468.32	1.58	PASS	
15316.00†	7267.00	7459.62	1916.84	15689.31	7422.00	7458.65	2640.02	102.10	739.61	474.46	1.56	PASS	
15416.00†	7267.00	7559.62	1916.98	15789.31	7422.00	7558.65	2640.16	102.10	739.61	480.59	1.54	PASS	
15516.00†	7267.00	7659.62	1917.11	15889.31	7422.00	7658.64	2640.29	102.10	739.60	486.73	1.52	PASS	
15616.00†	7267.00	7759.62	1917.25	15989.31	7422.00	7758.64	2640.43	102.10	739.60	492.87	1.50	PASS	
15716.00†	7267.00	7859.62	1917.39	16089.31	7422.00	7858.64	2640.56	102.10	739.60	499.02	1.48	PASS	
15816.00†	7267.00	7959.62	1917.53	16189.31	7422.00	7958.64	2640.70	102.10	739.60	505.16	1.46	PASS	
15916.00†	7267.00	8059.62	1917.67	16289.31	7422.00	8058.64	2640.83	102.10	739.59	511.31	1.45	PASS	
16016.00†	7267.00	8159.62	1917.80	16389.31	7422.00	8158.64	2640.97	102.10	739.59	517.46	1.43	PASS	
16116.00†	7267.00	8259.62	1917.94	16489.31	7422.00	8258.64	2641.10	102.10	739.59	523.61	1.41	PASS	
16216.00†	7267.00	8359.62	1918.08	16589.31	7422.00	8358.64	2641.24	102.10	739.58	529.77	1.40	PASS	
16316.00†	7267.00	8459.62	1918.22	16689.31	7422.00	8458.64	2641.37	102.10	739.58	535.92	1.38	PASS	
16416.00†	7267.00	8559.62	1918.35	16789.31	7422.00	8558.64	2641.51	102.10	739.58	542.08	1.36	PASS	
16516.00†	7267.00	8659.62	1918.49	16889.31	7422.00	8658.64	2641.64	102.10	739.58	548.24	1.35	PASS	
16616.00†	7267.00	8759.62	1918.63	16989.31	7422.00	8758.64	2641.78	102.10	739.57	554.40	1.33	PASS	
16716.00†	7267.00	8859.62	1918.77	17089.31	7422.00	8858.64	2641.91	102.10	739.57	560.56	1.32	PASS	
16816.00†	7267.00	8959.62	1918.91	17189.31	7422.00	8958.64	2642.05	102.10	739.57	566.72	1.31	PASS	
16916.00†	7267.00	9059.62	1919.04	17289.31	7422.00	9058.64	2642.18	102.10	739.56	572.88	1.29	PASS	
17016.00†	7267.00	9159.62	1919.18	17389.31	7422.00	9158.64	2642.32	102.10	739.56	579.05	1.28	PASS	
17116.00†	7267.00	9259.62	1919.32	17489.31	7422.00	9258.64	2642.45	102.10	739.56	585.22	1.26	PASS	
17216.00†	7267.00	9359.62	1919.46	17589.31	7422.00	9358.64	2642.58	102.10	739.55	591.38	1.25	PASS	
17316.00†	7267.00	9459.62	1919.59	17689.31	7422.00	9458.64	2642.72	102.10	739.55	597.55	1.24	PASS	
17416.00†	7267.00	9559.62	1919.73	17789.31	7422.00	9558.64	2642.85	102.10	739.55	603.72	1.23	PASS	
17516.00†	7267.00	9659.62	1919.87	17889.31	7422.00	9658.64	2642.99	102.10	739.55	609.90	1.21	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-3NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-3NBH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
17557.33	7267.00	9700.95	1919.93	17930.64	7422.00	9699.98	2643.04	102.10	739.54	612.44	1.21	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: BRIGHTON LAKES 20-17-3NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP

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: BRIGHTON LAKES 20-17-3NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	27.35	0.00	27.35
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	27.35	0.00	27.35
8.5in Open Hole	882.00	17936.00	17054.00	882.00	N/A	0.00	27.35	N/A	N/A

## SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	882.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-3NBH PWB
882.00	17935.33	Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-3NBH PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: BRIGHTON LAKES 20-17-3NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP

MD Reference: RIG (16' RKB) (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

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.17-T01S-R66W Slot: SLOT#02 EX. CASE#1 (990'FNL & 990'FEL,SEC.17,PA,TD8237'MD) Well: CASE#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	-14.00	16.00	9172.38	2410.47	14.72	9483.82	25.57	385.45	PASS	
116.00†	116.00	0.00	0.00	71.46	101.46	9172.43	2410.48	14.72	9483.89	50.13	192.71	PASS	
216.00†	216.00	0.00	0.00	243.80	273.80	9172.01	2410.36	14.72	9483.61	49.97	192.65	PASS	
316.00†	316.00	0.00	0.00	381.36	411.35	9171.18	2409.70	14.72	9482.95	50.00	192.55	PASS	
416.00†	416.00	0.00	0.00	539.33	569.31	9169.35	2408.32	14.72	9481.59	50.04	192.36	PASS	
516.00†	516.00	0.00	0.00	704.69	734.63	9166.62	2406.17	14.71	9479.68	50.10	192.09	PASS	
616.00†	616.00	0.00	0.00	778.32	808.24	9165.27	2405.01	14.70	9477.51	50.15	191.85	PASS	
716.00†	716.00	0.00	0.00	876.69	906.58	9163.62	2403.62	14.70	9475.53	50.21	191.55	PASS	
816.00†	816.00	0.00	0.00	970.96	1000.83	9162.06	2402.16	14.69	9473.53	50.29	191.23	PASS	
916.00†	916.00	0.00	0.00	1071.50	1101.35	9160.48	2400.51	14.68	9471.60	50.15	190.94	PASS	
1016.00†	1016.00	0.00	0.00	1156.54	1186.37	9159.11	2399.32	14.68	9469.69	50.20	190.68	PASS	
1116.00†	1116.00	0.00	0.00	1229.83	1259.64	9158.08	2398.41	14.68	9468.02	50.27	190.40	PASS	
1175.00†	1175.00	0.00	0.00	1269.89	1299.70	9157.62	2397.93	14.67	9467.18	50.31	190.22	PASS	
1216.00†	1216.00	-0.13	0.42	1297.73	1327.54	9157.34	2397.61	-91.90	9466.69	50.34	190.09	PASS	
1316.00†	1315.87	-1.48	4.99	1383.35	1413.14	9156.64	2396.57	-91.96	9465.75	50.44	189.70	PASS	
1416.00†	1415.36	-4.33	14.56	1477.65	1507.44	9156.00	2395.32	-92.04	9465.10	50.55	189.25	PASS	
1516.00†	1514.19	-8.65	29.10	1575.76	1605.53	9155.37	2393.96	-92.15	9464.68	50.70	188.70	PASS	
1616.00†	1612.09	-14.44	48.59	1672.44	1702.20	9154.74	2392.70	-92.28	9464.51	50.88	188.02	PASS	
1716.00†	1708.79	-21.69	72.96	1759.38	1789.13	9154.22	2391.53	-92.42	9464.64	51.10	187.20	PASS	
1808.53	1796.97	-29.67	99.80	1844.09	1873.83	9153.80	2390.38	-92.56	9465.14	51.37	186.21	PASS	
1816.00†	1804.04	-30.36	102.13	1851.66	1881.40	9153.76	2390.29	-92.58	9465.19	51.39	186.12	PASS	
1916.00†	1898.59	-39.64	133.35	1949.89	1979.62	9153.17	2389.21	-92.78	9465.90	51.77	184.78	PASS	
2016.00†	1993.14	-48.92	164.56	2044.28	2074.01	9152.53	2388.41	-92.97	9466.72	52.21	183.21	PASS	
2116.00†	2087.68	-58.20	195.78	2134.62	2164.35	9151.95	2387.58	-93.15	9467.67	52.71	181.47	PASS	
2216.00†	2182.23	-67.48	227.00	2222.73	2252.45	9151.45	2386.75	-93.33	9468.80	53.26	179.59	PASS	
2316.00†	2276.78	-76.76	258.21	2337.71	2367.42	9150.81	2385.58	-93.56	9470.06	53.89	177.49	PASS	
2416.00†	2371.33	-86.04	289.43	2471.84	2501.54	9149.47	2383.92	-93.83	9470.93	54.60	175.17	PASS	
2516.00†	2465.88	-95.32	320.64	2549.81	2579.50	9148.62	2382.98	-93.99	9471.88	55.31	172.95	PASS	
2616.00†	2560.43	-104.60	351.86	2619.20	2648.88	9148.05	2382.15	-94.13	9473.20	56.04	170.69	PASS	
2716.00†	2654.97	-113.88	383.08	2690.18	2719.85	9147.65	2381.27	-94.27	9474.86	56.81	168.38	PASS	
2816.00†	2749.52	-123.16	414.29	2786.56	2816.22	9147.24	2380.09	-94.47	9476.77	57.64	165.96	PASS	
2916.00†	2844.07	-132.44	445.51	2874.95	2904.61	9146.82	2379.15	-94.65	9478.79	58.50	163.53	PASS	
3016.00†	2938.62	-141.73	476.73	2955.94	2985.60	9146.51	2378.33	-94.81	9481.01	59.38	161.12	PASS	
3116.00†	3033.17	-151.01	507.94	3040.85	3070.50	9146.33	2377.40	-94.98	9483.50	60.30	158.69	PASS	
3216.00†	3127.72	-160.29	539.16	3136.44	3166.08	9146.10	2376.65	-95.17	9486.13	61.25	156.24	PASS	
3316.00†	3222.27	-169.57	570.37	3228.47	3258.10	9145.88	2375.79	-95.36	9488.85	62.23	153.81	PASS	
3416.00†	3316.81	-178.85	601.59	3310.22	3339.85	9145.75	2375.18	-95.52	9491.80	63.22	151.44	PASS	
3516.00†	3411.36	-188.13	632.81	3420.87	3450.50	9145.52	2374.34	-95.74	9494.81	64.26	149.00	PASS	
3616.00†	3505.91	-197.41	664.02	3510.59	3540.22	9145.32	2373.53	-95.92	9497.90	65.30	146.65	PASS	
3716.00†	3600.46	-206.69	695.24	3611.29	3640.91	9145.07	2372.61	-96.12	9501.08	66.38	144.31	PASS	
3816.00†	3695.01	-215.97	726.45	3694.76	3724.38	9144.89	2371.88	-96.29	9504.42	67.45	142.05	PASS	
3916.00†	3789.56	-225.25	757.67	3827.81	3857.42	9144.31	2370.42	-96.56	9507.58	68.61	139.68	PASS	
4016.00†	3884.11	-234.53	788.89	3889.13	3918.73	9144.09	2369.72	-96.68	9510.98	69.68	137.55	PASS	
4116.00†	3978.65	-243.81	820.10	4005.00	4034.60	9143.75	2368.64	-96.91	9514.59	70.85	135.32	PASS	
4216.00†	4073.20	-253.09	851.32	4101.79	4131.38	9143.27	2368.00	-97.10	9518.16	72.02	133.15	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.17-T01S-R66W Slot: SLOT#02 EX. CASE#1 (990'FNL & 990'FEL,SEC.17,PA.TD8237'MD) Well: CASE#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†	4167.75	-262.37	882.54	4226.22	4255.81	9142.29	2367.74	-97.35	9521.62	73.27	130.91	PASS	
4416.00†	4262.30	-271.69	913.75	4319.26	4348.85	9141.46	2367.66	-97.53	9525.13	74.49	128.80	PASS	
4516.00†	4356.85	-280.93	944.97	4429.25	4458.84	9140.36	2367.53	-97.74	9528.62	75.75	126.69	PASS	
4616.00†	4451.40	-290.21	976.18	4532.39	4561.96	9139.20	2367.76	-97.94	9532.18	77.01	124.66	PASS	
4716.00†	4545.95	-299.49	1007.40	4759.98	4789.51	9134.86	2368.82	-98.37	9535.19	78.51	122.29	PASS	
4816.00†	4640.49	-308.77	1038.62	4868.73	4898.22	9131.87	2369.12	-98.58	9537.41	79.81	120.32	PASS	
4916.00†	4735.04	-318.05	1069.83	4979.34	5008.78	9128.73	2369.55	-98.78	9539.70	81.11	118.39	PASS	
5016.00†	4829.59	-327.33	1101.05	5058.58	5087.99	9126.43	2369.81	-98.93	9542.02	82.37	116.60	PASS	
5116.00†	4924.14	-336.61	1132.27	5126.64	5156.03	9124.66	2369.76	-99.07	9544.68	83.62	114.89	PASS	
5216.00†	5018.69	-345.89	1163.48	5191.19	5220.56	9123.20	2369.64	-99.19	9547.74	84.88	113.23	PASS	
5316.00†	5113.24	-355.17	1194.70	5252.54	5281.89	9122.01	2369.51	-99.31	9551.21	86.10	111.63	PASS	
5416.00†	5207.79	-364.45	1225.91	5315.97	5345.31	9121.01	2369.41	-99.43	9555.13	87.35	110.06	PASS	
5516.00†	5302.33	-373.73	1257.13	5388.57	5417.92	9120.06	2369.31	-99.57	9559.41	88.63	108.52	PASS	
5616.00†	5396.88	-383.01	1288.35	5462.07	5491.41	9119.26	2369.21	-99.71	9564.01	89.91	107.01	PASS	
5716.00†	5491.43	-392.29	1319.56	5529.88	5559.22	9118.67	2369.14	-99.84	9568.94	91.18	105.57	PASS	
5816.00†	5585.98	-401.57	1350.78	5591.50	5620.84	9118.34	2369.15	-99.96	9574.29	92.44	104.18	PASS	
5916.00†	5680.53	-410.85	1382.00	5679.44	5708.77	9118.05	2369.28	-100.13	9579.95	93.75	102.77	PASS	
6016.00†	5775.08	-420.13	1413.21	5787.81	5817.15	9117.64	2369.52	-100.33	9585.69	95.11	101.35	PASS	
6116.00†	5869.63	-429.41	1444.43	5895.46	5924.79	9117.06	2369.82	-100.54	9591.38	96.48	99.97	PASS	
6216.00†	5964.17	-438.69	1475.64	5962.03	5991.36	9116.75	2370.03	-100.67	9597.24	97.73	98.74	PASS	
6316.00†	6058.72	-447.97	1506.86	6020.27	6049.60	9116.65	2370.30	-100.77	9603.52	98.95	97.58	PASS	
6416.00†	6153.27	-457.25	1538.08	6069.18	6098.51	9116.79	2370.53	-100.87	9610.32	100.12	96.50	PASS	
6516.00†	6247.82	-466.53	1569.29	6140.17	6169.50	9117.33	2370.80	-101.00	9617.64	101.29	95.46	PASS	
6616.00†	6342.37	-475.81	1600.51	6305.67	6334.99	9118.15	2371.39	-101.31	9624.89	102.54	94.36	PASS	
6716.00†	6436.92	-485.09	1631.72	6384.20	6413.52	9118.22	2372.11	-101.46	9631.84	103.77	93.30	PASS	
6816.00†	6531.47	-494.37	1662.94	6499.33	6528.65	9118.38	2372.61	-101.68	9638.91	105.02	92.25	PASS	
6916.00†	6626.01	-503.65	1694.16	6595.14	6624.46	9118.38	2372.91	-101.86	9645.94	106.28	91.22	PASS	
6965.37	6672.70	-508.24	1709.57	6638.94	6668.26	9118.37	2373.17	-101.94	9649.45	106.90	90.72	PASS	
7016.00†	6720.70	-510.70	1725.42	6683.59	6712.90	9118.38	2373.48	-87.12	9650.87	107.53	90.20	PASS	
7116.00†	6815.20	-502.45	1756.65	6760.45	6789.76	9118.46	2374.09	-59.30	9640.74	108.89	88.97	PASS	
7216.00†	6906.91	-477.05	1786.97	6885.48	6914.78	9118.62	2375.58	-40.86	9613.71	110.53	87.40	PASS	
7316.00†	6993.02	-435.25	1815.47	6986.32	7015.61	9118.32	2377.43	-30.05	9570.11	112.00	85.86	PASS	
7416.00†	7070.93	-378.34	1841.28	7068.21	7097.48	9118.03	2378.75	-23.41	9511.61	113.19	84.43	PASS	
7516.00†	7138.26	-308.05	1863.62	7232.44	7261.68	9116.47	2381.57	-19.11	9439.54	114.30	82.97	PASS	
7616.00†	7192.98	-226.50	1881.81	7271.49	7300.72	9115.95	2382.25	-15.46	9356.46	114.94	81.78	PASS	
7716.00†	7233.41	-136.18	1895.29	7300.23	7329.45	9115.62	2382.66	-11.35	9265.12	115.34	80.70	PASS	
7816.00†	7258.34	-39.83	1903.65	7320.81	7350.03	9115.39	2382.91	-2.04	9168.21	115.52	79.73	PASS	
7916.00†	7267.00	59.63	1906.65	7327.37	7356.59	9115.32	2382.99	96.81	9068.66	115.50	78.88	PASS	
7918.37	7267.00	62.00	1906.65	7327.36	7356.58	9115.32	2382.99	100.93	9066.29	115.50	78.86	PASS	
8016.00†	7267.00	159.63	1906.79	7326.48	7355.70	9115.33	2382.98	100.83	8968.80	115.39	78.09	PASS	
8116.00†	7267.00	259.63	1906.92	7325.57	7354.79	9115.34	2382.97	100.72	8868.94	115.28	77.30	PASS	
8216.00†	7267.00	359.63	1907.06	7324.67	7353.89	9115.35	2382.96	100.61	8769.08	115.16	76.50	PASS	
8316.00†	7267.00	459.63	1907.20	7323.76	7352.98	9115.36	2382.95	100.50	8669.23	115.04	75.71	PASS	
8416.00†	7267.00	559.63	1907.34	7322.84	7352.06	9115.37	2382.94	100.39	8569.38	114.92	74.92	PASS	
8516.00†	7267.00	659.63	1907.47	7321.92	7351.14	9115.38	2382.93	100.28	8469.53	114.80	74.12	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

CLEARANCE DATA - Offset Wellbore: CASE#1 AWB Offset Wellpath: CASE#1 AWP													
Facility: SEC.17-T01S-R66W				Slot: SLOT#02 EX. CASE#1 (990'FNL & 990'FEL,SEC.17,PA,TD8237'MD)				Well: CASE#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†	7267.00	759.63	1907.61	7321.00	7350.22	9115.39	2382.92	100.17	8369.69	114.68	73.33	PASS	
8716.00†	7267.00	859.63	1907.75	7320.08	7349.30	9115.40	2382.91	100.06	8269.85	114.55	72.53	PASS	
8816.00†	7267.00	959.63	1907.89	7319.15	7348.37	9115.41	2382.89	99.95	8170.01	114.42	71.74	PASS	
8916.00†	7267.00	1059.63	1908.03	7318.21	7347.44	9115.42	2382.88	99.84	8070.18	114.29	70.94	PASS	
9016.00†	7267.00	1159.63	1908.16	7317.28	7346.50	9115.43	2382.87	99.73	7970.35	114.16	70.15	PASS	
9116.00†	7267.00	1259.63	1908.30	7316.34	7345.56	9115.44	2382.86	99.62	7870.53	114.02	69.35	PASS	
9216.00†	7267.00	1359.63	1908.44	7315.39	7344.62	9115.45	2382.85	99.50	7770.71	113.88	68.56	PASS	
9316.00†	7267.00	1459.63	1908.58	7314.45	7343.67	9115.46	2382.84	99.39	7670.89	113.74	67.76	PASS	
9416.00†	7267.00	1559.63	1908.71	7313.50	7342.72	9115.47	2382.83	99.27	7571.08	113.60	66.96	PASS	
9516.00†	7267.00	1659.63	1908.85	7312.54	7341.76	9115.48	2382.82	99.16	7471.28	113.45	66.17	PASS	
9616.00†	7267.00	1759.63	1908.99	7311.58	7340.81	9115.49	2382.80	99.04	7371.48	113.30	65.37	PASS	
9716.00†	7267.00	1859.62	1909.13	7310.62	7339.84	9115.50	2382.79	98.93	7271.69	113.15	64.57	PASS	
9816.00†	7267.00	1959.62	1909.26	7309.65	7338.88	9115.51	2382.78	98.81	7171.90	112.99	63.77	PASS	
9916.00†	7267.00	2059.62	1909.40	7308.68	7337.91	9115.52	2382.77	98.70	7072.11	112.83	62.98	PASS	
10016.00†	7267.00	2159.62	1909.54	7307.71	7336.93	9115.53	2382.76	98.58	6972.34	112.67	62.18	PASS	
10116.00†	7267.00	2259.62	1909.68	7306.73	7335.95	9115.54	2382.74	98.46	6872.57	112.50	61.38	PASS	
10216.00†	7267.00	2359.62	1909.82	7305.75	7334.97	9115.55	2382.73	98.34	6772.80	112.33	60.58	PASS	
10316.00†	7267.00	2459.62	1909.95	7304.76	7333.98	9115.57	2382.72	98.22	6673.05	112.15	59.78	PASS	
10416.00†	7267.00	2559.62	1910.09	7303.77	7332.99	9115.58	2382.71	98.10	6573.30	111.97	58.99	PASS	
10516.00†	7267.00	2659.62	1910.23	7302.77	7332.00	9115.59	2382.69	97.98	6473.55	111.79	58.19	PASS	
10616.00†	7267.00	2759.62	1910.37	7301.78	7331.00	9115.60	2382.68	97.86	6373.82	111.60	57.39	PASS	
10716.00†	7267.00	2859.62	1910.50	7300.77	7330.00	9115.61	2382.67	97.74	6274.09	111.40	56.59	PASS	
10816.00†	7267.00	2959.62	1910.64	7299.79	7329.02	9115.62	2382.65	97.62	6174.38	111.20	55.79	PASS	
10916.00†	7267.00	3059.62	1910.78	7298.90	7328.12	9115.63	2382.64	97.51	6074.67	111.00	54.99	PASS	
11016.00†	7267.00	3159.62	1910.92	7297.99	7327.22	9115.64	2382.63	97.40	5974.97	110.79	54.19	PASS	
11116.00†	7267.00	3259.62	1911.06	7297.08	7326.31	9115.65	2382.62	97.29	5875.28	110.57	53.39	PASS	
11216.00†	7267.00	3359.62	1911.19	7296.16	7325.39	9115.66	2382.61	97.18	5775.60	110.35	52.59	PASS	
11316.00†	7267.00	3459.62	1911.33	7295.24	7324.47	9115.67	2382.59	97.07	5675.94	110.12	51.79	PASS	
11416.00†	7267.00	3559.62	1911.47	7294.31	7323.54	9115.68	2382.58	96.96	5576.28	109.88	50.99	PASS	
11516.00†	7267.00	3659.62	1911.61	7293.37	7322.60	9115.69	2382.57	96.84	5476.64	109.64	50.19	PASS	
11616.00†	7267.00	3759.62	1911.74	7292.43	7321.65	9115.70	2382.55	96.73	5377.01	109.39	49.39	PASS	
11716.00†	7267.00	3859.62	1911.88	7291.47	7320.70	9115.71	2382.54	96.61	5277.40	109.13	48.59	PASS	
11816.00†	7267.00	3959.62	1912.02	7290.52	7319.74	9115.73	2382.53	96.49	5177.79	108.87	47.79	PASS	
11916.00†	7267.00	4059.62	1912.16	7289.55	7318.78	9115.74	2382.51	96.38	5078.21	108.59	46.99	PASS	
12016.00†	7267.00	4159.62	1912.29	7288.58	7317.80	9115.75	2382.50	96.26	4978.64	108.31	46.19	PASS	
12116.00†	7267.00	4259.62	1912.43	7287.59	7316.82	9115.76	2382.49	96.14	4879.09	108.02	45.39	PASS	
12216.00†	7267.00	4359.62	1912.57	7286.61	7315.83	9115.77	2382.47	96.02	4779.55	107.72	44.59	PASS	
12316.00†	7267.00	4459.62	1912.71	7285.61	7314.84	9115.78	2382.46	95.90	4680.04	107.40	43.79	PASS	
12416.00†	7267.00	4559.62	1912.85	7284.61	7313.83	9115.79	2382.44	95.77	4580.55	107.08	42.99	PASS	
12516.00†	7267.00	4659.62	1912.98	7283.59	7312.82	9115.81	2382.43	95.65	4481.08	106.75	42.19	PASS	
12616.00†	7267.00	4759.62	1913.12	7282.57	7311.80	9115.82	2382.41	95.52	4381.63	106.41	41.38	PASS	
12716.00†	7267.00	4859.62	1913.26	7281.55	7310.77	9115.83	2382.40	95.40	4282.21	106.05	40.58	PASS	
12816.00†	7267.00	4959.62	1913.40	7280.51	7309.74	9115.84	2382.38	95.27	4182.82	105.68	39.78	PASS	
12916.00†	7267.00	5059.62	1913.53	7279.47	7308.70	9115.86	2382.37	95.14	4083.45	105.30	38.97	PASS	
13016.00†	7267.00	5159.62	1913.67	7278.41	7307.64	9115.87	2382.35	95.01	3984.12	104.91	38.17	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.17-T01S-R66W Slot: SLOT#02 EX. CASE#1 (990'FNL & 990'FEL,SEC.17,PA,TD8237'MD) Well: CASE#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†	7267.00	5259.62	1913.81	7277.35	7306.58	9115.88	2382.34	94.88	3884.82	104.50	37.36	PASS	
13216.00†	7267.00	5359.62	1913.95	7276.29	7305.51	9115.89	2382.32	94.75	3785.56	104.08	36.56	PASS	
13316.00†	7267.00	5459.62	1914.08	7275.21	7304.44	9115.91	2382.30	94.62	3686.33	103.65	35.75	PASS	
13416.00†	7267.00	5559.62	1914.22	7274.12	7303.35	9115.92	2382.29	94.49	3587.15	103.20	34.94	PASS	
13516.00†	7267.00	5659.62	1914.36	7273.03	7302.26	9115.93	2382.27	94.35	3488.02	102.74	34.12	PASS	
13616.00†	7267.00	5759.62	1914.50	7271.92	7301.15	9115.95	2382.25	94.22	3388.94	102.27	33.31	PASS	
13716.00†	7267.00	5859.62	1914.64	7270.81	7300.04	9115.96	2382.23	94.08	3289.91	101.78	32.49	PASS	
13816.00†	7267.00	5959.62	1914.77	7269.69	7298.92	9115.97	2382.22	93.94	3190.94	101.28	31.67	PASS	
13916.00†	7267.00	6059.62	1914.91	7268.56	7297.79	9115.99	2382.20	93.80	3092.04	100.78	30.84	PASS	
14016.00†	7267.00	6159.62	1915.05	7267.42	7296.65	9116.00	2382.18	93.66	2993.21	100.26	30.01	PASS	
14116.00†	7267.00	6259.62	1915.19	7266.27	7295.50	9116.02	2382.16	93.52	2894.46	99.73	29.17	PASS	
14216.00†	7267.00	6359.62	1915.32	7265.11	7294.34	9116.03	2382.14	93.38	2795.80	99.21	28.33	PASS	
14316.00†	7267.00	6459.62	1915.46	7263.94	7293.17	9116.05	2382.12	93.24	2697.23	98.68	27.48	PASS	
14416.00†	7267.00	6559.62	1915.60	7262.76	7291.99	9116.06	2382.11	93.09	2598.78	98.17	26.61	PASS	
14516.00†	7267.00	6659.62	1915.74	7261.57	7290.81	9116.08	2382.09	92.94	2500.45	97.67	25.74	PASS	
14616.00†	7267.00	6759.62	1915.88	7260.37	7289.61	9116.09	2382.07	92.80	2402.25	97.21	24.85	PASS	
14716.00†	7267.00	6859.62	1916.01	7259.17	7288.40	9116.11	2382.05	92.65	2304.21	96.79	23.94	PASS	
14816.00†	7267.00	6959.62	1916.15	7257.95	7287.18	9116.12	2382.03	92.50	2206.34	96.43	23.00	PASS	
14916.00†	7267.00	7059.62	1916.29	7256.72	7285.95	9116.14	2382.01	92.34	2108.68	96.17	22.04	PASS	
15016.00†	7267.00	7159.62	1916.43	7255.48	7284.71	9116.16	2381.98	92.19	2011.24	96.04	21.05	PASS	
15116.00†	7267.00	7259.62	1916.56	7254.23	7283.46	9116.17	2381.96	92.04	1914.07	96.09	20.03	PASS	
15216.00†	7267.00	7359.62	1916.70	7252.97	7282.20	9116.19	2381.94	91.88	1817.20	96.38	18.96	PASS	
15316.00†	7267.00	7459.62	1916.84	7251.69	7280.93	9116.21	2381.92	91.72	1720.69	96.98	17.84	PASS	
15416.00†	7267.00	7559.62	1916.98	7250.41	7279.64	9116.22	2381.90	91.57	1624.60	98.00	16.66	PASS	
15516.00†	7267.00	7659.62	1917.11	7249.11	7278.35	9116.24	2381.87	91.41	1529.01	99.56	15.44	PASS	
15616.00†	7267.00	7759.62	1917.25	7247.81	7277.04	9116.26	2381.85	91.24	1434.02	101.82	14.15	PASS	
15716.00†	7267.00	7859.62	1917.39	7246.49	7275.73	9116.28	2381.83	91.08	1339.76	104.97	12.82	PASS	
15816.00†	7267.00	7959.62	1917.53	7245.16	7274.40	9116.29	2381.80	90.92	1246.40	109.25	11.46	PASS	
15916.00†	7267.00	8059.62	1917.67	7243.82	7273.06	9116.31	2381.78	90.75	1154.14	114.94	10.08	PASS	
16016.00†	7267.00	8159.62	1917.80	7242.47	7271.70	9116.33	2381.76	90.58	1063.28	122.38	8.72	PASS	
16116.00†	7267.00	8259.62	1917.94	7241.10	7270.34	9116.35	2381.73	90.41	974.22	131.96	7.41	PASS	
16216.00†	7267.00	8359.62	1918.08	7239.72	7268.96	9116.37	2381.71	90.24	887.48	144.17	6.18	PASS	
16316.00†	7267.00	8459.62	1918.22	7238.33	7267.57	9116.39	2381.68	90.07	803.83	159.55	5.05	PASS	
16416.00†	7267.00	8559.62	1918.35	7236.93	7266.17	9116.41	2381.65	89.90	724.33	178.69	4.06	PASS	
16516.00†	7267.00	8659.62	1918.49	7235.51	7264.75	9116.43	2381.63	89.72	650.52	202.07	3.23	PASS	
16616.00†	7267.00	8759.62	1918.63	7234.08	7263.32	9116.45	2381.60	89.54	584.54	229.76	2.55	PASS	
16716.00†	7267.00	8859.62	1918.77	7232.64	7261.88	9116.47	2381.57	89.37	529.33	260.71	2.03	PASS	
16816.00†	7267.00	8959.62	1918.91	7231.19	7260.43	9116.49	2381.55	89.19	488.56	291.89	1.68	PASS	
16916.00†	7267.00	9059.62	1919.04	7229.72	7258.96	9116.51	2381.52	89.00	466.03	317.99	1.47	PASS	
16972.80†	7267.00	9116.41	1919.12	7229.22	7258.46	9116.52	2381.51	88.94	462.47	328.31	1.41	PASS	
17016.00†	7267.00	9159.62	1919.18	7228.23	7257.47	9116.53	2381.49	88.82	464.41	333.39	1.39	PASS	
17024.00†	7267.00	9167.62	1919.19	7228.11	7257.35	9116.53	2381.49	88.81	465.21	334.05	1.39	PASS	
17116.00†	7267.00	9259.62	1919.32	7226.74	7255.98	9116.55	2381.46	88.63	483.91	335.80	1.44	PASS	
17216.00†	7267.00	9359.62	1919.46	7225.22	7254.47	9116.57	2381.43	88.45	522.16	327.67	1.59	PASS	
17316.00†	7267.00	9459.62	1919.59	7223.70	7252.94	9116.59	2381.40	88.26	575.44	313.60	1.84	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.17-T01S-R66W Slot: SLOT#02 EX. CASE#1 (990'FNL & 990'FEL,SEC.17,PA,TD8237'MD) Well: CASE#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	
17416.00†	7267.00	9559.62	1919.73	7222.16	7251.40	9116.62	2381.37	88.07	640.00	297.54	2.15	PASS	
17516.00†	7267.00	9659.62	1919.87	7220.60	7249.85	9116.64	2381.34	87.88	712.79	281.79	2.53	PASS	
17557.33	7267.00	9700.95	1919.93	7219.96	7249.20	9116.65	2381.33	87.80	744.73	275.65	2.71	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

## HOLE & CASING SECTIONS - Offset Wellbore: CASE#1 AWB Offset Wellpath: CASE#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	113.00	113.00	14.00	127.00	5591.55	1469.15	5591.58	1469.16
8.625in Casing Surface	0.00	113.00	113.00	14.00	127.00	5591.55	1469.15	5591.58	1469.16
7.875in Open Hole	113.00	8237.00	8124.00	127.00	8250.10	5591.58	1469.16	5573.99	1462.04
4.5in Casing Production	0.00	8237.00	8237.00	14.00	8250.10	5591.55	1469.15	5573.99	1462.04

## WELLPATH COMPOSITION - Offset Wellbore: CASE#1 AWB Offset Wellpath: CASE#1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8050.00	BHI Generic gyro - continuous (Standard)	VES/GYRO <100-8050>	CASE#1 AWB
8050.00	8237.00	BHI Unknown Tool (Standard)	ASSUMED VERTICAL TO TD <8050-8237>	CASE#1 AWB

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

MD Reference: Rig on SLOT#02 EX. CASE#1 (990'FNL & 990'FEL,SEC.17,PA,TD8237'MD) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-1CDH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1CDH (REV-A.0,CODELL) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1CDH 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	-44.86	-90.00	44.86	1.56	73.16	PASS	
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	-44.86	-90.00	44.86	1.89	47.22	PASS	
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-44.86	-90.00	44.86	2.47	29.15	PASS	
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-44.86	-90.00	44.86	3.08	20.79	PASS	
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	-44.86	-90.00	44.86	3.69	16.09	PASS	
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	-44.86	-90.00	44.86	4.31	13.11	PASS	
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	-44.86	-90.00	44.86	4.94	11.05	PASS	
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	-44.86	-90.00	44.86	5.56	9.55	PASS	
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	-44.86	-90.00	44.86	6.19	8.41	PASS	
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	-44.86	-90.00	44.86	6.25	7.96	PASS	
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	-44.86	-90.00	44.86	6.40	7.76	PASS	
1116.00†	1116.00	0.00	0.00	1116.00	1116.00	0.00	-44.86	-90.00	44.86	6.73	7.34	PASS	
1175.00	1175.00	0.00	0.00	1175.00	1175.00	0.00	-44.86	-90.00	44.86	7.00	7.02	PASS	
1216.00†	1216.00	-0.13	0.42	1216.00	1216.00	0.00	-44.86	163.60	45.28	7.21	6.85	PASS	
1316.00†	1315.87	-1.48	4.99	1315.87	1315.87	0.00	-44.86	165.11	49.87	8.10	6.65	PASS	
1416.00†	1415.36	-4.33	14.56	1418.00	1417.97	-0.95	-42.81	166.78	57.52	9.65	6.35	PASS	
1516.00†	1514.19	-8.65	29.10	1520.78	1520.44	-4.22	-35.77	167.37	65.32	11.48	6.00	PASS	
1616.00†	1612.09	-14.44	48.59	1623.96	1622.74	-9.83	-23.68	167.19	73.20	13.27	5.77	PASS	
1716.00†	1708.79	-21.69	72.96	1727.54	1724.57	-17.80	-6.53	166.47	81.13	14.86	5.68	PASS	
1808.53	1796.97	-29.67	99.80	1819.94	1814.84	-26.10	11.35	165.93	90.30	15.92	5.89	PASS	
1816.00†	1804.04	-30.36	102.13	1827.36	1822.08	-26.77	12.79	165.93	91.21	16.00	5.92	PASS	
1916.00†	1898.59	-39.64	133.35	1926.61	1919.04	-35.70	32.02	165.85	103.45	16.81	6.38	PASS	
2016.00†	1993.14	-48.92	164.56	2025.86	2016.00	-44.62	51.24	165.80	115.68	17.68	6.77	PASS	
2116.00†	2087.68	-58.20	195.78	2125.10	2112.96	-53.55	70.47	165.75	127.92	18.62	7.10	PASS	
2216.00†	2182.23	-67.48	227.00	2224.35	2209.92	-62.48	89.70	165.71	140.15	19.60	7.38	PASS	
2316.00†	2276.78	-76.76	258.21	2323.60	2306.88	-71.40	108.92	165.68	152.39	20.60	7.62	PASS	
2416.00†	2371.33	-86.04	289.43	2422.85	2403.84	-80.33	128.15	165.66	164.62	21.65	7.83	PASS	
2516.00†	2465.88	-95.32	320.64	2522.10	2500.79	-89.26	147.38	165.63	176.86	22.73	8.00	PASS	
2616.00†	2560.43	-104.60	351.86	2621.35	2597.75	-98.18	166.60	165.61	189.09	23.83	8.15	PASS	
2716.00†	2654.97	-113.88	383.08	2720.60	2694.71	-107.11	185.83	165.59	201.32	24.96	8.27	PASS	
2816.00†	2749.52	-123.16	414.29	2819.84	2791.67	-116.04	205.06	165.58	213.56	26.10	8.38	PASS	
2916.00†	2844.07	-132.44	445.51	2919.09	2888.63	-124.96	224.28	165.56	225.79	27.26	8.48	PASS	
3016.00†	2938.62	-141.73	476.73	3018.34	2985.59	-133.89	243.51	165.55	238.03	28.44	8.56	PASS	
3116.00†	3033.17	-151.01	507.94	3117.59	3082.55	-142.82	262.74	165.54	250.26	29.62	8.63	PASS	
3216.00†	3127.72	-160.29	539.16	3216.84	3179.50	-151.74	281.96	165.53	262.50	30.82	8.69	PASS	
3316.00†	3222.27	-169.57	570.37	3316.09	3276.46	-160.67	301.19	165.52	274.73	32.03	8.75	PASS	
3416.00†	3316.81	-178.85	601.59	3415.34	3373.42	-169.60	320.41	165.51	286.97	33.25	8.80	PASS	
3516.00†	3411.36	-188.13	632.81	3514.59	3470.38	-178.52	339.64	165.50	299.20	34.47	8.84	PASS	
3616.00†	3505.91	-197.41	664.02	3613.83	3567.34	-187.45	358.87	165.50	311.44	35.70	8.88	PASS	
3716.00†	3600.46	-206.69	695.24	3713.08	3664.30	-196.38	378.09	165.49	323.67	36.94	8.91	PASS	
3816.00†	3695.01	-215.97	726.45	3812.33	3761.26	-205.30	397.32	165.48	335.91	38.18	8.94	PASS	
3916.00†	3789.56	-225.25	757.67	3911.58	3858.21	-214.23	416.55	165.48	348.14	39.43	8.97	PASS	
4016.00†	3884.11	-234.53	788.89	4010.83	3955.17	-223.16	435.77	165.47	360.37	40.68	9.00	PASS	
4116.00†	3978.65	-243.81	820.10	4110.08	4052.13	-232.09	455.00	165.47	372.61	41.94	9.02	PASS	
4216.00†	4073.20	-253.09	851.32	4209.33	4149.09	-241.01	474.23	165.46	384.84	43.20	9.04	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-1CDH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1CDH (REV-A.0,CODELL) PWP

Facility: SEC.20-T01S-R66W				Slot: SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20)				Well: BRIGHTON LAKES 20-17-1CDH				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†	4167.75	-262.37	882.54	4308.58	4246.05	-249.94	493.45	165.46	397.08	44.47	9.06	PASS			
4416.00†	4262.30	-271.65	913.75	4407.82	4343.01	-258.87	512.68	165.45	409.31	45.73	9.08	PASS			
4516.00†	4356.85	-280.93	944.97	4507.07	4439.97	-267.79	531.91	165.45	421.55	47.00	9.09	PASS			
4616.00†	4451.40	-290.21	976.18	4606.32	4536.93	-276.72	551.13	165.45	433.78	48.28	9.10	PASS			
4716.00†	4545.95	-299.49	1007.40	4705.57	4633.88	-285.65	570.36	165.44	446.02	49.55	9.12	PASS			
4816.00†	4640.49	-308.77	1038.62	4804.82	4730.84	-294.57	589.58	165.44	458.25	50.83	9.13	PASS			
4916.00†	4735.04	-318.05	1069.83	4904.07	4827.80	-303.50	608.81	165.44	470.49	52.11	9.14	PASS			
5016.00†	4829.59	-327.33	1101.05	5003.32	4924.76	-312.43	628.04	165.43	482.72	53.39	9.15	PASS			
5116.00†	4924.14	-336.61	1132.27	5102.57	5021.72	-321.35	647.26	165.43	494.96	54.68	9.16	PASS			
5216.00†	5018.69	-345.89	1163.48	5201.81	5118.68	-330.28	666.49	165.43	507.19	55.96	9.17	PASS			
5316.00†	5113.24	-355.17	1194.70	5301.06	5215.64	-339.21	685.72	165.42	519.43	57.25	9.17	PASS			
5416.00†	5207.79	-364.45	1225.91	5400.31	5312.59	-348.13	704.94	165.42	531.66	58.54	9.18	PASS			
5516.00†	5302.33	-373.73	1257.13	5499.56	5409.55	-357.06	724.17	165.42	543.89	59.83	9.19	PASS			
5616.00†	5396.88	-383.01	1288.35	5598.81	5506.51	-365.99	743.40	165.42	556.13	61.12	9.19	PASS			
5716.00†	5491.43	-392.29	1319.56	5698.06	5603.47	-374.91	762.62	165.42	568.36	62.41	9.20	PASS			
5816.00†	5585.98	-401.57	1350.78	5797.31	5700.43	-383.84	781.85	165.41	580.60	63.70	9.21	PASS			
5916.00†	5680.53	-410.85	1382.00	5896.56	5797.39	-392.77	801.08	165.41	592.83	65.00	9.21	PASS			
6016.00†	5775.08	-420.13	1413.21	5995.80	5894.35	-401.69	820.30	165.41	605.07	66.29	9.21	PASS			
6116.00†	5869.63	-429.41	1444.43	6095.05	5991.30	-410.62	839.53	165.41	617.30	67.59	9.22	PASS			
6216.00†	5964.17	-438.69	1475.64	6194.30	6088.26	-419.55	858.75	165.41	629.54	68.89	9.22	PASS			
6316.00†	6058.72	-447.97	1506.86	6293.55	6185.22	-428.48	877.98	165.40	641.77	70.19	9.23	PASS			
6416.00†	6153.27	-457.25	1538.08	6392.80	6282.18	-437.40	897.21	165.40	654.01	71.49	9.23	PASS			
6516.00†	6247.82	-466.53	1569.29	6492.05	6379.14	-446.33	916.43	165.40	666.24	72.79	9.23	PASS			
6616.00†	6342.37	-475.81	1600.51	6591.30	6476.10	-455.26	935.66	165.40	678.48	74.09	9.24	PASS			
6716.00†	6436.92	-485.09	1631.72	6690.55	6573.06	-464.18	954.89	165.40	690.71	75.39	9.24	PASS			
6816.00†	6531.47	-494.37	1662.94	6789.79	6670.01	-473.11	974.11	165.40	702.95	76.69	9.24	PASS			
6916.00†	6626.01	-503.65	1694.16	6889.04	6766.97	-482.04	993.34	165.40	715.18	77.99	9.24	PASS			
6965.37	6672.70	-508.24	1709.57	6938.05	6814.84	-486.44	1002.83	165.39	721.22	78.64	9.25	PASS			
7016.00†	6720.70	-510.70	1725.42	6988.23	6863.87	-490.96	1012.55	-179.26	727.37	79.37	9.24	PASS			
7116.00†	6815.20	-502.45	1756.65	7085.86	6959.25	-499.74	1031.47	-151.49	739.35	81.29	9.17	PASS			
7216.00†	6906.91	-477.05	1786.97	7179.04	7050.28	-508.12	1049.52	-134.18	751.90	83.85	9.04	PASS			
7316.00†	6993.02	-435.25	1815.47	7271.57	7140.79	-514.50	1067.47	-125.37	766.57	86.90	8.89	PASS			
7416.00†	7070.93	-378.34	1841.28	7376.98	7243.67	-505.64	1087.89	-121.21	783.36	88.26	8.94	PASS			
7516.00†	7138.26	-308.05	1863.62	7496.41	7356.03	-472.64	1110.22	-119.55	801.33	90.48	8.92	PASS			
7616.00†	7192.98	-226.50	1881.81	7634.48	7474.24	-405.98	1133.74	-119.40	819.09	90.14	9.15	PASS			
7716.00†	7233.41	-136.18	1895.29	7795.48	7587.63	-294.70	1156.37	-120.08	834.63	87.12	9.65	PASS			
7816.00†	7258.34	-39.83	1903.65	7980.05	7674.50	-133.70	1173.78	-120.92	845.41	83.41	10.21	PASS			
7916.00†	7267.00	59.63	1906.65	8177.98	7707.00	60.44	1180.44	-121.21	849.10	82.75	10.34	PASS			
7918.37	7267.00	62.00	1906.65	8180.35	7707.00	62.81	1180.45	-121.21	849.10	82.77	10.34	PASS			
8016.00†	7267.00	159.63	1906.79	8277.98	7707.00	160.44	1180.56	-121.21	849.12	83.97	10.19	PASS			
8116.00†	7267.00	259.63	1906.92	8377.98	7707.00	260.44	1180.67	-121.21	849.15	85.61	9.99	PASS			
8216.00†	7267.00	359.63	1907.06	8477.98	7707.00	360.44	1180.78	-121.21	849.17	87.60	9.76	PASS			
8316.00†	7267.00	459.63	1907.20	8577.98	7707.00	460.44	1180.89	-121.21	849.19	91.51	9.34	PASS			
8416.00†	7267.00	559.63	1907.34	8677.98	7707.00	560.44	1181.00	-121.21	849.21	92.47	9.25	PASS			
8516.00†	7267.00	659.63	1907.47	8777.98	7707.00	660.44	1181.11	-121.21	849.24	95.30	8.97	PASS			

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-1CDH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1CDH (REV-A.0,CODELL) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1CDH 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	
8616.00†	7267.00	759.63	1907.61	8877.98	7707.00	760.44	1181.22	-121.21	849.26	98.37	8.69	PASS	
8716.00†	7267.00	859.63	1907.75	8977.98	7707.00	860.44	1181.34	-121.20	849.28	101.65	8.41	PASS	
8816.00†	7267.00	959.63	1907.89	9077.98	7707.00	960.44	1181.45	-121.20	849.30	105.13	8.13	PASS	
8916.00†	7267.00	1059.63	1908.03	9177.98	7707.00	1060.44	1181.56	-121.20	849.32	108.79	7.85	PASS	
9016.00†	7267.00	1159.63	1908.16	9277.98	7707.00	1160.44	1181.67	-121.20	849.35	112.60	7.58	PASS	
9116.00†	7267.00	1259.63	1908.30	9377.98	7707.00	1260.44	1181.78	-121.20	849.37	116.55	7.33	PASS	
9216.00†	7267.00	1359.63	1908.44	9477.98	7707.00	1360.44	1181.89	-121.20	849.39	120.64	7.08	PASS	
9316.00†	7267.00	1459.63	1908.58	9577.98	7707.00	1460.44	1182.01	-121.20	849.41	124.83	6.84	PASS	
9416.00†	7267.00	1559.63	1908.71	9677.98	7707.00	1560.44	1182.12	-121.20	849.44	129.14	6.61	PASS	
9516.00†	7267.00	1659.63	1908.85	9777.98	7707.00	1660.44	1182.23	-121.20	849.46	133.54	6.39	PASS	
9616.00†	7267.00	1759.63	1908.99	9877.98	7707.00	1760.44	1182.34	-121.20	849.48	138.02	6.18	PASS	
9716.00†	7267.00	1859.62	1909.13	9977.98	7707.00	1860.44	1182.45	-121.20	849.50	142.58	5.98	PASS	
9816.00†	7267.00	1959.62	1909.26	10077.98	7707.00	1960.44	1182.56	-121.19	849.53	147.21	5.79	PASS	
9916.00†	7267.00	2059.62	1909.40	10177.98	7707.00	2060.44	1182.68	-121.19	849.55	151.90	5.61	PASS	
10016.00†	7267.00	2159.62	1909.54	10277.98	7707.00	2160.44	1182.79	-121.19	849.57	156.65	5.44	PASS	
10116.00†	7267.00	2259.62	1909.68	10377.98	7707.00	2260.44	1182.90	-121.19	849.59	161.46	5.28	PASS	
10216.00†	7267.00	2359.62	1909.82	10477.98	7707.00	2360.44	1183.01	-121.19	849.62	166.31	5.13	PASS	
10316.00†	7267.00	2459.62	1909.95	10577.98	7707.00	2460.44	1183.12	-121.19	849.64	171.20	4.98	PASS	
10416.00†	7267.00	2559.62	1910.09	10677.98	7707.00	2560.44	1183.23	-121.19	849.66	176.14	4.84	PASS	
10516.00†	7267.00	2659.62	1910.23	10777.98	7707.00	2660.44	1183.34	-121.19	849.68	181.11	4.71	PASS	
10616.00†	7267.00	2759.62	1910.37	10877.98	7707.00	2760.44	1183.46	-121.19	849.71	186.12	4.58	PASS	
10716.00†	7267.00	2859.62	1910.50	10977.98	7707.00	2860.44	1183.57	-121.19	849.73	191.15	4.46	PASS	
10816.00†	7267.00	2959.62	1910.64	11077.98	7707.00	2960.43	1183.68	-121.19	849.75	196.22	4.34	PASS	
10916.00†	7267.00	3059.62	1910.78	11177.98	7707.00	3060.43	1183.79	-121.18	849.77	201.32	4.23	PASS	
11016.00†	7267.00	3159.62	1910.92	11277.98	7707.00	3160.43	1183.90	-121.18	849.79	206.43	4.13	PASS	
11116.00†	7267.00	3259.62	1911.06	11377.98	7707.00	3260.43	1184.01	-121.18	849.82	211.58	4.03	PASS	
11216.00†	7267.00	3359.62	1911.19	11477.98	7707.00	3360.43	1184.13	-121.18	849.84	216.74	3.93	PASS	
11316.00†	7267.00	3459.62	1911.33	11577.98	7707.00	3460.43	1184.24	-121.18	849.86	221.92	3.84	PASS	
11416.00†	7267.00	3559.62	1911.47	11677.98	7707.00	3560.43	1184.35	-121.18	849.88	227.12	3.75	PASS	
11516.00†	7267.00	3659.62	1911.61	11777.98	7707.00	3660.43	1184.46	-121.18	849.91	232.34	3.67	PASS	
11616.00†	7267.00	3759.62	1911.74	11877.98	7707.00	3760.43	1184.57	-121.18	849.93	237.58	3.59	PASS	
11716.00†	7267.00	3859.62	1911.88	11977.98	7707.00	3860.43	1184.68	-121.18	849.95	242.82	3.51	PASS	
11816.00†	7267.00	3959.62	1912.02	12077.98	7707.00	3960.43	1184.79	-121.18	849.97	248.09	3.43	PASS	
11916.00†	7267.00	4059.62	1912.16	12177.98	7707.00	4060.43	1184.91	-121.18	850.00	253.37	3.36	PASS	
12016.00†	7267.00	4159.62	1912.29	12277.98	7707.00	4160.43	1185.02	-121.17	850.02	258.66	3.29	PASS	
12116.00†	7267.00	4259.62	1912.43	12377.98	7707.00	4260.43	1185.13	-121.17	850.04	263.96	3.23	PASS	
12216.00†	7267.00	4359.62	1912.57	12477.98	7707.00	4360.43	1185.24	-121.17	850.06	269.27	3.16	PASS	
12316.00†	7267.00	4459.62	1912.71	12577.98	7707.00	4460.43	1185.35	-121.17	850.09	274.59	3.10	PASS	
12416.00†	7267.00	4559.62	1912.85	12677.98	7707.00	4560.43	1185.46	-121.17	850.11	279.92	3.04	PASS	
12516.00†	7267.00	4659.62	1912.98	12777.98	7707.00	4660.43	1185.58	-121.17	850.13	285.27	2.99	PASS	
12616.00†	7267.00	4759.62	1913.12	12877.98	7707.00	4760.43	1185.69	-121.17	850.15	290.62	2.93	PASS	
12716.00†	7267.00	4859.62	1913.26	12977.98	7707.00	4860.43	1185.80	-121.17	850.18	295.98	2.88	PASS	
12816.00†	7267.00	4959.62	1913.40	13077.98	7707.00	4960.43	1185.91	-121.17	850.20	301.34	2.83	PASS	
12916.00†	7267.00	5059.62	1913.53	13177.98	7707.00	5060.43	1186.02	-121.17	850.22	306.69	2.78	PASS	
13016.00†	7267.00	5159.62	1913.67	13277.98	7707.00	5160.43	1186.13	-121.17	850.24	312.10	2.73	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-1CDH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1CDH (REV-A.0,CODELL) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1CDH 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†	7267.00	5259.62	1913.81	13377.98	7707.00	5260.43	1186.25	-121.16	850.26	317.49	2.68	PASS	
13216.00†	7267.00	5359.62	1913.95	13477.98	7707.00	5360.43	1186.36	-121.16	850.29	322.88	2.64	PASS	
13316.00†	7267.00	5459.62	1914.08	13577.98	7707.00	5460.43	1186.47	-121.16	850.31	328.28	2.59	PASS	
13416.00†	7267.00	5559.62	1914.22	13677.98	7707.00	5560.43	1186.58	-121.16	850.33	333.69	2.55	PASS	
13516.00†	7267.00	5659.62	1914.36	13777.98	7707.00	5660.43	1186.69	-121.16	850.35	339.10	2.51	PASS	
13616.00†	7267.00	5759.62	1914.50	13877.98	7707.00	5760.43	1186.80	-121.16	850.38	344.51	2.47	PASS	
13716.00†	7267.00	5859.62	1914.64	13977.98	7707.00	5860.43	1186.91	-121.16	850.40	349.94	2.43	PASS	
13816.00†	7267.00	5959.62	1914.77	14077.98	7707.00	5960.43	1187.03	-121.16	850.42	355.36	2.40	PASS	
13916.00†	7267.00	6059.62	1914.91	14177.98	7707.00	6060.43	1187.14	-121.16	850.44	360.79	2.36	PASS	
14016.00†	7267.00	6159.62	1915.05	14277.98	7707.00	6160.43	1187.25	-121.16	850.47	366.23	2.32	PASS	
14116.00†	7267.00	6259.62	1915.19	14377.98	7707.00	6260.43	1187.36	-121.16	850.49	371.67	2.29	PASS	
14216.00†	7267.00	6359.62	1915.32	14477.98	7707.00	6360.43	1187.47	-121.15	850.51	377.11	2.26	PASS	
14316.00†	7267.00	6459.62	1915.46	14577.98	7707.00	6460.43	1187.58	-121.15	850.53	382.56	2.23	PASS	
14416.00†	7267.00	6559.62	1915.60	14677.98	7707.00	6560.43	1187.70	-121.15	850.56	388.01	2.19	PASS	
14516.00†	7267.00	6659.62	1915.74	14777.98	7707.00	6660.43	1187.81	-121.15	850.58	393.47	2.16	PASS	
14616.00†	7267.00	6759.62	1915.88	14877.98	7707.00	6760.43	1187.92	-121.15	850.60	398.92	2.13	PASS	
14716.00†	7267.00	6859.62	1916.01	14977.98	7707.00	6860.43	1188.03	-121.15	850.62	404.39	2.11	PASS	
14816.00†	7267.00	6959.62	1916.15	15077.98	7707.00	6960.43	1188.14	-121.15	850.65	409.85	2.08	PASS	
14916.00†	7267.00	7059.62	1916.29	15177.98	7707.00	7060.43	1188.25	-121.15	850.67	415.32	2.05	PASS	
15016.00†	7267.00	7159.62	1916.43	15277.98	7707.00	7160.43	1188.37	-121.15	850.69	420.79	2.02	PASS	
15116.00†	7267.00	7259.62	1916.56	15377.98	7707.00	7260.43	1188.48	-121.15	850.71	426.26	2.00	PASS	
15216.00†	7267.00	7359.62	1916.70	15477.98	7707.00	7360.43	1188.59	-121.15	850.73	431.74	1.97	PASS	
15316.00†	7267.00	7459.62	1916.84	15577.98	7707.00	7460.43	1188.70	-121.14	850.76	437.22	1.95	PASS	
15416.00†	7267.00	7559.62	1916.98	15677.98	7707.00	7560.43	1188.81	-121.14	850.78	442.70	1.92	PASS	
15516.00†	7267.00	7659.62	1917.11	15777.98	7707.00	7660.43	1188.92	-121.14	850.80	448.18	1.90	PASS	
15616.00†	7267.00	7759.62	1917.25	15877.98	7707.00	7760.43	1189.03	-121.14	850.82	453.66	1.88	PASS	
15716.00†	7267.00	7859.62	1917.39	15977.98	7707.00	7860.43	1189.15	-121.14	850.85	459.15	1.85	PASS	
15816.00†	7267.00	7959.62	1917.53	16077.98	7707.00	7960.43	1189.26	-121.14	850.87	464.64	1.83	PASS	
15916.00†	7267.00	8059.62	1917.67	16177.98	7707.00	8060.43	1189.37	-121.14	850.89	470.13	1.81	PASS	
16016.00†	7267.00	8159.62	1917.80	16277.98	7707.00	8160.43	1189.48	-121.14	850.91	475.63	1.79	PASS	
16116.00†	7267.00	8259.62	1917.94	16377.98	7707.00	8260.43	1189.59	-121.14	850.94	481.12	1.77	PASS	
16216.00†	7267.00	8359.62	1918.08	16477.98	7707.00	8360.43	1189.70	-121.14	850.96	486.62	1.75	PASS	
16316.00†	7267.00	8459.62	1918.22	16577.98	7707.00	8460.43	1189.82	-121.14	850.98	492.12	1.73	PASS	
16416.00†	7267.00	8559.62	1918.35	16677.98	7707.00	8560.43	1189.93	-121.13	851.00	497.62	1.71	PASS	
16516.00†	7267.00	8659.62	1918.49	16777.98	7707.00	8660.43	1190.04	-121.13	851.03	503.13	1.69	PASS	
16616.00†	7267.00	8759.62	1918.63	16877.98	7707.00	8760.43	1190.15	-121.13	851.05	508.63	1.67	PASS	
16716.00†	7267.00	8859.62	1918.77	16977.98	7707.00	8860.43	1190.26	-121.13	851.07	514.14	1.66	PASS	
16816.00†	7267.00	8959.62	1918.91	17077.98	7707.00	8960.43	1190.37	-121.13	851.09	519.65	1.64	PASS	
16916.00†	7267.00	9059.62	1919.04	17177.98	7707.00	9060.43	1190.48	-121.13	851.12	525.16	1.62	PASS	
17016.00†	7267.00	9159.62	1919.18	17277.98	7707.00	9160.43	1190.60	-121.13	851.14	530.67	1.60	PASS	
17116.00†	7267.00	9259.62	1919.32	17377.98	7707.00	9260.43	1190.71	-121.13	851.16	536.18	1.59	PASS	
17216.00†	7267.00	9359.62	1919.46	17477.98	7707.00	9360.43	1190.82	-121.13	851.18	541.69	1.57	PASS	
17316.00†	7267.00	9459.62	1919.59	17577.98	7707.00	9460.43	1190.93	-121.13	851.21	547.21	1.56	PASS	
17416.00†	7267.00	9559.62	1919.73	17677.98	7707.00	9560.43	1191.04	-121.13	851.23	552.73	1.54	PASS	
17516.00†	7267.00	9659.62	1919.87	17777.98	7707.00	9660.43	1191.15	-121.12	851.25	558.24	1.53	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-1CDH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1CDH (REV-A.0,CODELL) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1CDH 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	
17552.83†	7267.00	9696.45	1919.92	17814.81	7707.00	9697.26	1191.20	-121.12	851.26	560.27	1.52	PASS	
17557.33	7267.00	9700.95	1919.93	17814.81	7707.00	9697.26	1191.20	-121.12	851.27	559.92	1.52	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: BRIGHTON LAKES 20-17-1CDH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1CDH (REV-A.0,CODELL) PWP

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: BRIGHTON LAKES 20-17-1CDH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1CDH (REV-A.0,CODELL) PWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	-27.35	0.00	-27.35
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	-27.35	0.00	-27.35
8.5in Open Hole	882.00	17814.81	16932.81	882.00	7707.00	0.00	-27.35	2955.72	349.41

## SURVEY PROGRAM - Offset Wellbore: BRIGHTON LAKES 20-17-1CDH (REV-A.0,CODELL) PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	882.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-1CDH PWB
882.00	17814.81	Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-1CDH PWB

## OFFSET WELLPATH REFERENCE - Offset Wellbore: BRIGHTON LAKES 20-17-1CDH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1CDH (REV-A.0,CODELL) PWP

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



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-2CDH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-2CDH 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	58.88	90.00	58.88	1.56	96.53	PASS	
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	58.88	90.00	58.88	1.89	62.23	PASS	
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	58.88	90.00	58.88	2.47	38.41	PASS	
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	58.88	90.00	58.88	3.08	27.39	PASS	
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	58.88	90.00	58.88	3.69	21.21	PASS	
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	58.88	90.00	58.88	4.32	17.28	PASS	
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	58.88	90.00	58.88	4.94	14.57	PASS	
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	58.88	90.00	58.88	5.56	12.59	PASS	
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	58.88	90.00	58.88	6.19	11.09	PASS	
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	58.88	90.00	58.88	6.26	10.48	PASS	
1016.00†	1016.00	0.00	0.00	1014.79	1014.79	-0.08	59.29	90.08	59.30	6.41	10.28	PASS	
1116.00†	1116.00	0.00	0.00	1111.63	1111.51	-0.95	63.67	90.85	63.84	7.07	9.92	PASS	
1175.00	1175.00	0.00	0.00	1168.48	1168.13	-1.90	68.49	91.59	68.86	7.80	9.61	PASS	
1216.00†	1216.00	-0.13	0.42	1207.81	1207.24	-2.75	72.79	-14.45	72.94	8.33	9.47	PASS	
1316.00†	1315.87	-1.48	4.99	1303.46	1301.84	-5.46	86.52	-13.63	82.83	9.88	8.95	PASS	
1416.00†	1415.36	-4.33	14.56	1398.65	1395.19	-9.07	104.79	-13.28	92.58	11.63	8.41	PASS	
1516.00†	1514.19	-8.65	29.10	1493.41	1487.07	-13.55	127.48	-13.27	102.17	13.25	8.09	PASS	
1616.00†	1612.09	-14.44	48.59	1587.74	1577.28	-18.88	154.49	-13.50	111.56	14.75	7.90	PASS	
1716.00†	1708.79	-21.69	72.96	1681.66	1665.65	-25.05	185.68	-13.91	120.75	16.16	7.77	PASS	
1808.53	1796.97	-29.67	99.80	1768.22	1745.61	-31.46	218.17	-14.42	129.05	17.36	7.71	PASS	
1816.00†	1804.04	-30.36	102.13	1775.19	1751.99	-32.01	220.94	-14.47	129.73	17.44	7.71	PASS	
1916.00†	1898.59	-39.64	133.35	1873.45	1841.40	-39.91	260.92	-15.04	139.80	18.37	7.87	PASS	
2016.00†	1993.14	-48.92	164.56	1972.92	1931.88	-47.92	301.46	-15.54	149.99	19.17	8.08	PASS	
2116.00†	2087.68	-58.20	195.78	2072.39	2022.36	-55.93	342.01	-15.98	160.18	20.14	8.21	PASS	
2216.00†	2182.23	-67.48	227.00	2171.87	2112.84	-63.93	382.56	-16.36	170.38	21.19	8.29	PASS	
2316.00†	2276.78	-76.76	258.21	2271.34	2203.32	-71.94	423.10	-16.70	180.58	22.29	8.33	PASS	
2416.00†	2371.33	-86.04	289.43	2370.81	2293.80	-79.95	463.65	-17.00	190.79	23.45	8.36	PASS	
2516.00†	2465.88	-95.32	320.64	2470.28	2384.28	-87.96	504.20	-17.27	201.01	24.66	8.36	PASS	
2616.00†	2560.43	-104.60	351.86	2569.76	2474.76	-95.97	544.74	-17.52	211.23	25.91	8.35	PASS	
2716.00†	2654.97	-113.88	383.08	2669.23	2565.24	-103.98	585.29	-17.74	221.45	27.20	8.33	PASS	
2816.00†	2749.52	-123.16	414.29	2768.70	2655.72	-111.99	625.83	-17.94	231.68	28.51	8.31	PASS	
2916.00†	2844.07	-132.44	445.51	2868.17	2746.20	-120.00	666.38	-18.13	241.91	29.86	8.27	PASS	
3016.00†	2938.62	-141.73	476.73	2967.65	2836.68	-128.01	706.93	-18.30	252.14	31.22	8.24	PASS	
3116.00†	3033.17	-151.01	507.94	3067.12	2927.16	-136.02	747.47	-18.46	262.37	32.61	8.20	PASS	
3216.00†	3127.72	-160.29	539.16	3166.59	3017.64	-144.02	788.02	-18.60	272.61	34.02	8.16	PASS	
3316.00†	3222.27	-169.57	570.37	3266.06	3108.12	-152.03	828.56	-18.74	282.84	35.44	8.12	PASS	
3416.00†	3316.81	-178.85	601.59	3365.54	3198.60	-160.04	869.11	-18.86	293.08	36.88	8.08	PASS	
3516.00†	3411.36	-188.13	632.81	3465.01	3289.08	-168.05	909.66	-18.98	303.32	38.33	8.04	PASS	
3616.00†	3505.91	-197.41	664.02	3564.48	3379.56	-176.06	950.20	-19.09	313.56	39.79	8.01	PASS	
3716.00†	3600.46	-206.69	695.24	3663.95	3470.04	-184.07	990.75	-19.19	323.80	41.26	7.97	PASS	
3816.00†	3695.01	-215.97	726.45	3763.43	3560.52	-192.08	1031.30	-19.29	334.05	42.74	7.93	PASS	
3916.00†	3789.56	-225.25	757.67	3862.90	3651.00	-200.09	1071.84	-19.38	344.29	44.23	7.89	PASS	
4016.00†	3884.11	-234.53	788.89	3962.37	3741.48	-208.10	1112.39	-19.47	354.53	45.72	7.86	PASS	
4116.00†	3978.65	-243.81	820.10	4061.85	3831.96	-216.11	1152.93	-19.55	364.78	47.23	7.83	PASS	
4216.00†	4073.20	-253.09	851.32	4161.32	3922.44	-224.11	1193.48	-19.62	375.02	48.74	7.79	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-2CDH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP

Facility: SEC.20-T01S-R66W Slot: SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-2CDH 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†	4167.75	-262.37	882.54	4260.79	4012.92	-232.12	1234.03	-19.69	385.27	50.25	7.76	PASS	
4416.00†	4262.30	-271.65	913.75	4360.26	4103.40	-240.13	1274.57	-19.76	395.52	51.77	7.73	PASS	
4516.00†	4356.85	-280.93	944.97	4459.74	4193.88	-248.14	1315.12	-19.83	405.77	53.30	7.70	PASS	
4616.00†	4451.40	-290.21	976.18	4559.21	4284.36	-256.15	1355.66	-19.89	416.01	54.83	7.67	PASS	
4716.00†	4545.95	-299.49	1007.40	4658.68	4374.84	-264.16	1396.21	-19.95	426.26	56.36	7.65	PASS	
4816.00†	4640.49	-308.77	1038.62	4758.15	4465.32	-272.17	1436.76	-20.00	436.51	57.90	7.62	PASS	
4916.00†	4735.04	-318.05	1069.83	4857.63	4555.80	-280.18	1477.30	-20.06	446.76	59.44	7.59	PASS	
5016.00†	4829.59	-327.33	1101.05	4957.10	4646.28	-288.19	1517.85	-20.11	457.01	60.99	7.57	PASS	
5116.00†	4924.14	-336.61	1132.27	5056.57	4736.76	-296.20	1558.40	-20.16	467.26	62.53	7.55	PASS	
5216.00†	5018.69	-345.89	1163.48	5156.04	4827.24	-304.20	1598.94	-20.20	477.51	64.08	7.52	PASS	
5316.00†	5113.24	-355.17	1194.70	5255.52	4917.72	-312.21	1639.49	-20.25	487.76	65.64	7.50	PASS	
5416.00†	5207.79	-364.45	1225.91	5354.99	5008.20	-320.22	1680.03	-20.29	498.01	67.19	7.48	PASS	
5516.00†	5302.33	-373.73	1257.13	5454.46	5098.68	-328.23	1720.58	-20.33	508.26	68.75	7.46	PASS	
5616.00†	5396.88	-383.01	1288.35	5553.93	5189.16	-336.24	1761.13	-20.37	518.51	70.31	7.44	PASS	
5716.00†	5491.43	-392.29	1319.56	5653.41	5279.64	-344.25	1801.67	-20.41	528.77	71.87	7.42	PASS	
5816.00†	5585.98	-401.57	1350.78	5752.88	5370.12	-352.26	1842.22	-20.45	539.02	73.43	7.40	PASS	
5916.00†	5680.53	-410.85	1382.00	5852.35	5460.60	-360.27	1882.76	-20.48	549.27	75.00	7.38	PASS	
6016.00†	5775.08	-420.13	1413.21	5951.82	5551.08	-368.28	1923.31	-20.52	559.52	76.56	7.37	PASS	
6116.00†	5869.63	-429.41	1444.43	6051.30	5641.56	-376.29	1963.86	-20.55	569.77	78.13	7.35	PASS	
6216.00†	5964.17	-438.69	1475.64	6150.77	5732.04	-384.29	2004.40	-20.58	580.03	79.70	7.33	PASS	
6316.00†	6058.72	-447.97	1506.86	6250.24	5822.52	-392.30	2044.95	-20.61	590.28	81.27	7.32	PASS	
6416.00†	6153.27	-457.25	1538.08	6349.71	5913.00	-400.31	2085.50	-20.64	600.53	82.85	7.30	PASS	
6516.00†	6247.82	-466.53	1569.29	6449.19	6003.48	-408.32	2126.04	-20.67	610.79	84.42	7.29	PASS	
6616.00†	6342.37	-475.81	1600.51	6548.66	6093.96	-416.33	2166.59	-20.70	621.04	85.99	7.27	PASS	
6716.00†	6436.92	-485.09	1631.72	6648.13	6184.44	-424.34	2207.13	-20.72	631.29	87.57	7.26	PASS	
6816.00†	6531.47	-494.37	1662.94	6747.60	6274.92	-432.35	2247.68	-20.75	641.55	89.15	7.25	PASS	
6916.00†	6626.01	-503.65	1694.16	6847.08	6365.40	-440.36	2288.23	-20.77	651.80	90.72	7.23	PASS	
6965.37	6672.70	-508.24	1709.57	6896.19	6410.07	-444.31	2308.25	-20.79	656.86	91.50	7.23	PASS	
7016.00†	6720.70	-510.70	1725.42	6946.51	6455.85	-448.36	2328.76	-6.20	661.85	92.02	7.24	PASS	
7116.00†	6815.20	-502.45	1756.65	7044.54	6545.01	-456.26	2368.71	22.26	670.64	91.50	7.38	PASS	
7216.00†	6906.91	-477.05	1786.97	7138.27	6630.27	-463.80	2406.92	42.59	679.00	89.34	7.65	PASS	
7316.00†	6993.02	-435.25	1815.47	7224.85	6709.02	-470.77	2442.21	55.84	689.00	86.59	8.01	PASS	
7416.00†	7070.93	-378.34	1841.28	7301.65	6778.88	-476.96	2473.52	64.73	703.37	84.98	8.34	PASS	
7516.00†	7138.26	-308.05	1863.62	7366.34	6837.73	-482.17	2499.89	70.41	724.90	86.41	8.45	PASS	
7616.00†	7192.98	-226.50	1881.81	7416.96	6883.77	-486.24	2520.52	73.13	755.67	91.83	8.29	PASS	
7716.00†	7233.41	-136.18	1895.29	7451.96	6915.60	-489.06	2534.78	72.79	796.55	100.51	7.97	PASS	
7816.00†	7258.34	-39.83	1903.65	7470.28	6932.27	-490.53	2542.25	69.23	846.92	110.75	7.69	PASS	
7916.00†	7267.00	59.63	1906.65	7471.37	6933.26	-490.62	2542.70	62.52	904.83	120.90	7.52	PASS	
7918.37	7267.00	62.00	1906.65	7471.19	6933.09	-490.61	2542.62	62.33	906.27	121.13	7.52	PASS	
8016.00†	7267.00	159.63	1906.79	7463.38	6925.99	-489.98	2539.44	61.71	968.77	130.05	7.48	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: BRIGHTON LAKES 20-17-2CDH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP

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





**Clearance Report**  
**BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP**  
**Closest Approach**  
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**REFERENCE WELLPATH IDENTIFICATION**

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

**HOLE & CASING SECTIONS - Offset Wellbore: BRIGHTON LAKES 20-17-2CDH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP**

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	35.89	0.00	35.89
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	35.89	0.00	35.89
8.5in Open Hole	882.00	18285.00	17403.00	882.00	N/A	0.00	35.89	N/A	N/A

**SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP**

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	882.00	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-2CDH PWB
882.00	18284.22	Custom BHI AutoTrak Curve (Axial Corr, Short spacing) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-2CDH PWB

**OFFSET WELLPATH REFERENCE - Offset Wellbore: BRIGHTON LAKES 20-17-2CDH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP**

MD Reference: RIG (16'RKB) (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

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

## CLEARANCE DATA - Offset Wellbore: TASHIRO-UPRR#1 AWB Offset Wellpath: TASHIRO-UPRR#1 AWP

Facility: SEC.17-T01S-R66W Slot: SLOT#01 EX. TASHIRO-UPRR#1 (1160'FSL & 1221'FWL,SEC.17,PA,TD@8225') Well: TASHIRO-UPRR#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	18.00	5981.15	-811.22	-7.72	6035.91	25.57	245.30	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: TASHIRO-UPRR#1 AWB Offset Wellpath: TASHIRO-UPRR#1 AWP

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

## HOLE & CASING SECTIONS - Offset Wellbore: TASHIRO-UPRR#1 AWB Offset Wellpath: TASHIRO-UPRR#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	158.00	158.00	18.00	175.99	3646.11	-494.46	3646.40	-494.13
8.625in Casing Surface	0.00	158.00	158.00	18.00	175.99	3646.11	-494.46	3646.40	-494.13
7.875in Open Hole	158.00	8210.00	8052.00	175.99	8226.90	3646.40	-494.13	3641.72	-509.54
4.5in Casing Production	0.00	8210.00	8210.00	18.00	8226.90	3646.11	-494.46	3641.72	-509.54

## WELLPATH COMPOSITION - Offset Wellbore: TASHIRO-UPRR#1 AWB Offset Wellpath: TASHIRO-UPRR#1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7500.00	BHI Generic gyro - continuous (Standard)	VES/GYRO <0-7500>	TASHIRO-UPRR#1 AWB
7500.00	8225.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD <7500-8225>	TASHIRO-UPRR#1 AWB

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

MD Reference: Rig on SLOT#01 EX. TASHIRO-UPRR#1 (1160'FSL & 1221'FWL,SEC.17,PA,TD@8225') (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#01 EX. DAVIS #1 (1327'FSL & 1629'FWL, SEC.20,PA,TD@8234 Well: DAVIS #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	-7.00	16.00	836.74	-396.43	-25.35	925.90	25.57	37.60	PASS	
116.00†	116.00	0.00	0.00	103.99	126.99	836.45	-395.57	-25.31	925.34	50.13	18.79	PASS	
216.00†	216.00	0.00	0.00	209.98	232.96	835.52	-393.75	-25.23	923.80	49.97	18.75	PASS	
316.00†	316.00	0.00	0.00	310.91	333.86	834.05	-392.32	-25.19	921.89	50.00	18.70	PASS	
416.00†	416.00	0.00	0.00	407.59	430.53	832.37	-391.91	-25.21	920.14	50.04	18.65	PASS	
516.00†	516.00	0.00	0.00	505.32	528.24	830.45	-392.67	-25.31	918.68	50.08	18.61	PASS	
616.00†	616.00	0.00	0.00	604.68	627.55	828.15	-394.52	-25.47	917.39	50.13	18.56	PASS	
716.00†	716.00	0.00	0.00	704.99	727.80	825.57	-396.90	-25.68	916.10	50.18	18.52	PASS	
816.00†	816.00	0.00	0.00	798.94	821.69	823.43	-399.27	-25.87	915.14	50.24	18.48	PASS	
916.00†	916.00	0.00	0.00	898.23	920.94	821.59	-401.74	-26.06	914.57	50.08	18.45	PASS	
1016.00†	1016.00	0.00	0.00	996.22	1018.89	820.05	-403.92	-26.22	914.14	50.12	18.43	PASS	
1065.38†	1065.38	0.00	0.00	1041.56	1064.22	819.54	-404.81	-26.29	914.07	50.14	18.42	PASS	
1116.00†	1116.00	0.00	0.00	1089.06	1111.71	819.27	-405.65	-26.34	914.20	50.16	18.41	PASS	
1175.00	1175.00	0.00	0.00	1146.48	1169.12	819.20	-406.53	-26.39	914.55	50.19	18.41	PASS	
1185.66†	1185.66	-0.01	0.03	1156.98	1179.63	819.21	-406.68	-132.96	914.64	50.20	18.41	PASS	
1216.00†	1216.00	-0.13	0.42	1186.86	1209.50	819.24	-407.08	-132.99	915.13	50.22	18.41	PASS	
1316.00†	1315.87	-1.48	4.99	1296.76	1319.39	818.95	-408.25	-133.22	918.63	50.31	18.45	PASS	
1416.00†	1415.36	-4.33	14.56	1395.84	1418.46	818.05	-409.18	-133.61	925.13	50.48	18.51	PASS	
1516.00†	1514.19	-8.65	29.10	1494.47	1517.08	817.08	-410.36	-134.14	935.39	50.66	18.65	PASS	
1616.00†	1612.09	-14.44	48.59	1593.26	1615.85	815.96	-411.70	-134.82	949.44	50.87	18.85	PASS	
1716.00†	1708.79	-21.69	72.96	1691.83	1714.41	814.73	-412.89	-135.61	967.30	51.12	19.12	PASS	
1808.53	1796.97	-29.67	99.80	1776.71	1799.28	813.76	-413.81	-136.33	987.51	51.37	19.42	PASS	
1816.00†	1804.04	-30.36	102.13	1783.46	1806.03	813.70	-413.88	-136.42	989.30	51.39	19.44	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

## HOLE & CASING SECTIONS - Offset Wellbore: DAVIS #1 AWB Offset Wellpath: DAVIS #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	132.00	132.00	7.00	138.99	510.08	-241.66	509.94	-241.26
8.625in Casing Surface	0.00	132.00	132.00	7.00	138.99	510.08	-241.66	509.94	-241.26
7.875in Open Hole	132.00	8231.00	8099.00	138.99	8236.91	509.94	-241.26	499.15	-259.81
4.5in Casing Production	0.00	8231.00	8231.00	7.00	8236.91	510.08	-241.66	499.15	-259.81



# Clearance Report

BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A CK,) PWP  
Closest Approach  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NAH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NAH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH COMPOSITION - Offset Wellbore: DAVIS #1 AWB Offset Wellpath: DAVIS #1 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	7200.00	BHI Generic gyro - continuous (Standard)	VES/GYRO <0-7200>	DAVIS #1 AWB
7200.00	8234.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL TO TD <7300-8234>	DAVIS #1 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: DAVIS #1 AWB Offset Wellpath: DAVIS #1 AWP	
MD Reference: Rig on SLOT#01 EX. DAVIS #1 (1327'FSL & 1629'FWL, SEC.20,PA,TD@8234 (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft