

# PETROSHARE

Location: COLORADO Slot: SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)  
Field: ADAMS COUNTY (NAD83/ TRUE NORTH) Well: BRIGHTON LAKES 20-17-3NBH  
Facility: SEC.20-T01S-R66W Wellbore: BRIGHTON LAKES 20-17-3NBH PWB

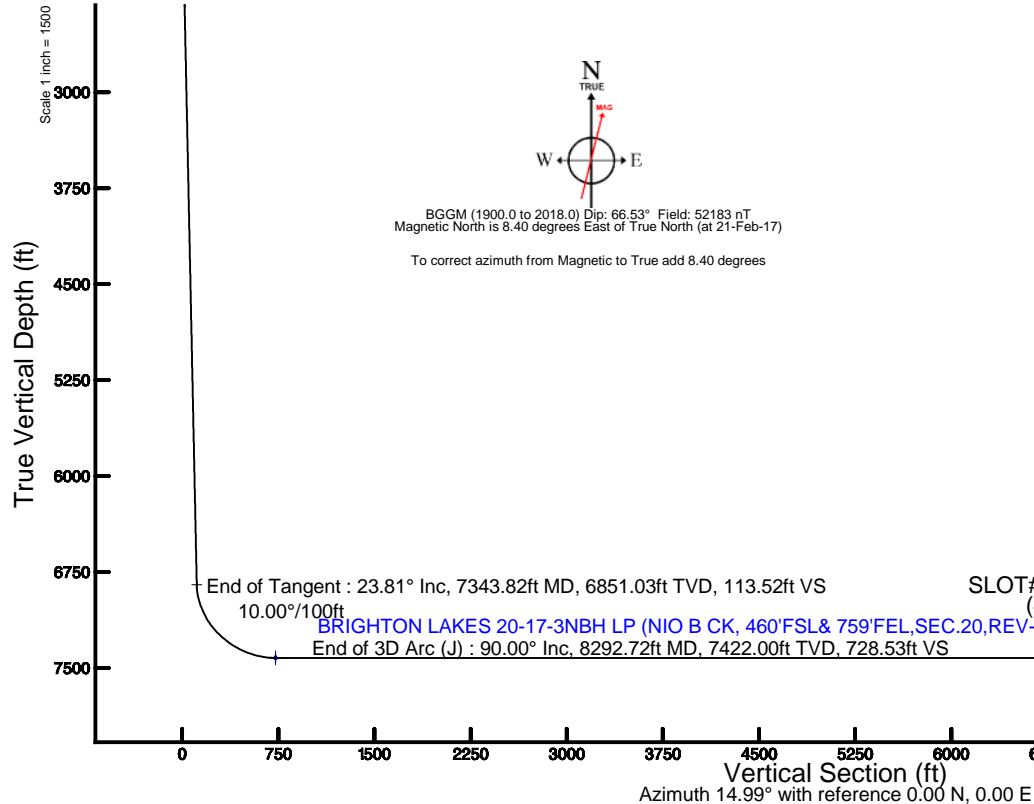
Plot reference wellpath is BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to RIG (16' RKB) (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to 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#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'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

## 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#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)	0.00	89.72	3195755.020	1223371.180	39°56'39.912"N	104°48'06.552"W	
RIG (16' RKB) (RKB) to Mud line (At Slot: SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20))						5063ft	
Mean Sea Level to Mud line (At Slot: SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'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 20-17-3NBH 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 20-17-3NBH PWB
8.5in Open Hole	882.00	17936.00	17054.00	882.00	N/A	0.00	0.00	N/A	N/A	BRIGHTON LAKES 20-17-3NBH PWB

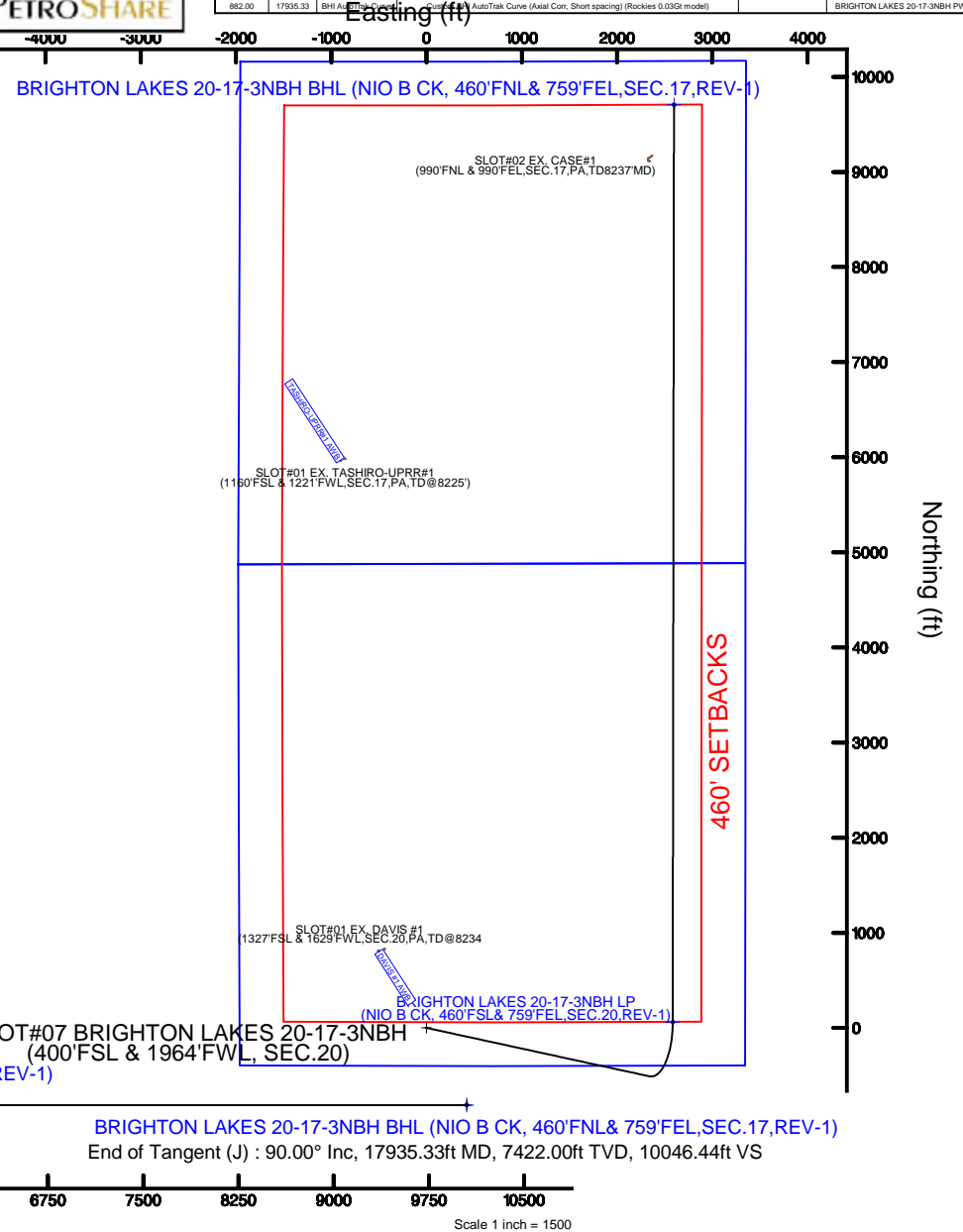


## Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	16.00	0.000	102.269	16.00	0.00	0.00	0.00	0.00
End of Tangent	1025.00	0.000	102.269	1025.00	0.00	0.00	0.00	0.00
End of Build	1818.58	23.807	102.269	1795.94	-34.53	158.80	3.00	7.71
End of Tangent	7343.82	23.807	102.269	6851.03	-508.48	2338.19	0.00	113.52
End of 3D Arc (J)	8292.72	90.000	0.077	7422.00	62.06	2585.19	10.00	728.53
End of Tangent (J)	17935.33	90.000	0.077	7422.00	9704.65	2598.21	0.00	10046.44

## Survey Program

Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
16.00	882.00	BHI NavTrak	Custom BHI NavTrak (Standard Rotating-Axis Cor) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-3NBH PWB
882.00	17935.33	BHI AutoTrak Curve	Custom BHI AutoTrak Curve (Axis Cor, Short spacing) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-3NBH PWB



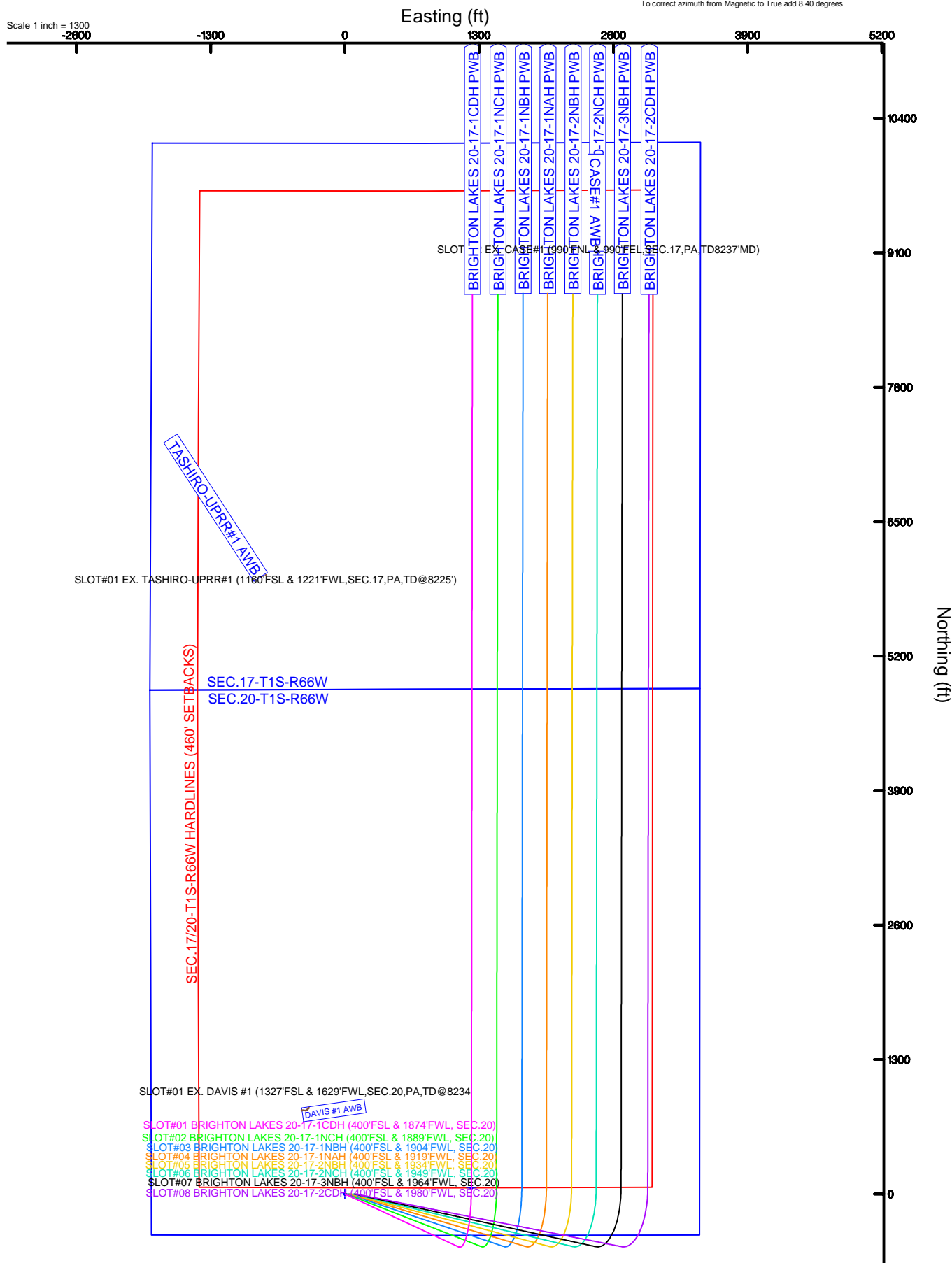
# PETROSHARE



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

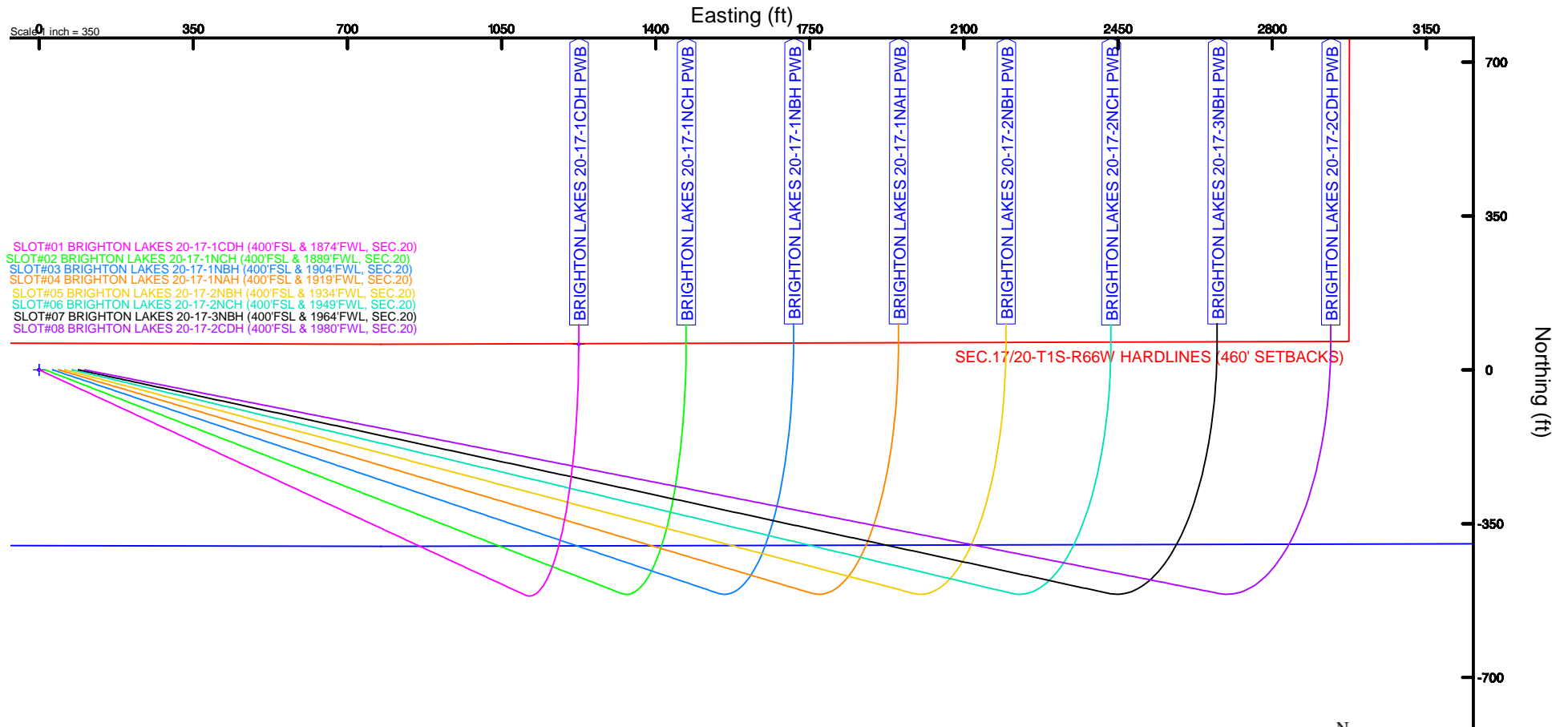


# PETROSHARE

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 20-17-2NCH (REV-A.0, NIO C CK)  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NCH 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 10:24:17 AM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/BRIGHTON_LAKES_20-17-2NCH_REV-A.0_NIO_C_CK.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	75.71	3195741.00	1223371.07	39°56'39.912"N	104°48'06.732"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#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'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	13.74°



# Planned Wellpath Report

BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NCH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH DATA (194 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	103.411	0.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.732"W	0.00	
16.00	0.000	103.411	16.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.732"W	0.00	Tie On
116.00†	0.000	103.411	116.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.732"W	0.00	
216.00†	0.000	103.411	216.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.732"W	0.00	
316.00†	0.000	103.411	316.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.732"W	0.00	
416.00†	0.000	103.411	416.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.732"W	0.00	
516.00†	0.000	103.411	516.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.732"W	0.00	
616.00†	0.000	103.411	616.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.732"W	0.00	
716.00†	0.000	103.411	716.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.732"W	0.00	
816.00†	0.000	103.411	816.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.732"W	0.00	
882.00†	0.000	103.411	882.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.732"W	0.00	Fox Hills (Surface Csg)
916.00†	0.000	103.411	916.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.732"W	0.00	
1016.00†	0.000	103.411	1016.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.732"W	0.00	
1075.00	0.000	103.411	1075.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.732"W	0.00	End of Tangent
1116.00†	1.230	103.411	1116.00	0.00	-0.10	0.43	39°56'39.911"N	104°48'06.727"W	3.00	
1216.00†	4.230	103.411	1215.87	0.03	-1.21	5.06	39°56'39.900"N	104°48'06.667"W	3.00	
1316.00†	7.230	103.411	1315.36	0.09	-3.52	14.77	39°56'39.877"N	104°48'06.542"W	3.00	
1416.00†	10.230	103.411	1414.19	0.17	-7.04	29.53	39°56'39.842"N	104°48'06.353"W	3.00	
1516.00†	13.230	103.411	1512.09	0.29	-11.76	49.31	39°56'39.796"N	104°48'06.099"W	3.00	
1616.00†	16.230	103.411	1608.79	0.43	-17.65	74.04	39°56'39.738"N	104°48'05.781"W	3.00	
1716.00†	19.230	103.411	1704.03	0.60	-24.71	103.66	39°56'39.668"N	104°48'05.401"W	3.00	
1798.17	21.695	103.411	1781.01	0.77	-31.38	131.60	39°56'39.602"N	104°48'05.042"W	3.00	End of Build
1816.00†	21.695	103.411	1797.58	0.80	-32.91	138.01	39°56'39.587"N	104°48'04.960"W	0.00	
1916.00†	21.695	103.411	1890.50	1.01	-41.48	173.97	39°56'39.502"N	104°48'04.498"W	0.00	
2016.00†	21.695	103.411	1983.41	1.22	-50.05	209.93	39°56'39.417"N	104°48'04.037"W	0.00	
2116.00†	21.695	103.411	2076.33	1.43	-58.63	245.89	39°56'39.333"N	104°48'03.575"W	0.00	
2216.00†	21.695	103.411	2169.25	1.64	-67.20	281.84	39°56'39.248"N	104°48'03.113"W	0.00	
2316.00†	21.695	103.411	2262.16	1.85	-75.77	317.80	39°56'39.163"N	104°48'02.652"W	0.00	
2416.00†	21.695	103.411	2355.08	2.06	-84.35	353.76	39°56'39.078"N	104°48'02.190"W	0.00	
2516.00†	21.695	103.411	2447.99	2.27	-92.92	389.72	39°56'38.994"N	104°48'01.728"W	0.00	
2616.00†	21.695	103.411	2540.91	2.48	-101.49	425.68	39°56'38.909"N	104°48'01.267"W	0.00	
2716.00†	21.695	103.411	2633.83	2.69	-110.07	461.64	39°56'38.824"N	104°48'00.805"W	0.00	
2816.00†	21.695	103.411	2726.74	2.90	-118.64	497.60	39°56'38.739"N	104°48'00.343"W	0.00	
2916.00†	21.695	103.411	2819.66	3.11	-127.21	533.55	39°56'38.655"N	104°47'59.882"W	0.00	
3016.00†	21.695	103.411	2912.58	3.32	-135.79	569.51	39°56'38.570"N	104°47'59.420"W	0.00	
3116.00†	21.695	103.411	3005.49	3.53	-144.36	605.47	39°56'38.485"N	104°47'58.958"W	0.00	
3216.00†	21.695	103.411	3098.41	3.74	-152.94	641.43	39°56'38.401"N	104°47'58.497"W	0.00	
3316.00†	21.695	103.411	3191.33	3.95	-161.51	677.39	39°56'38.316"N	104°47'58.035"W	0.00	
3416.00†	21.695	103.411	3284.24	4.16	-170.08	713.35	39°56'38.231"N	104°47'57.573"W	0.00	
3516.00†	21.695	103.411	3377.16	4.37	-178.66	749.31	39°56'38.146"N	104°47'57.112"W	0.00	
3616.00†	21.695	103.411	3470.08	4.58	-187.23	785.27	39°56'38.062"N	104°47'56.650"W	0.00	
3716.00†	21.695	103.411	3562.99	4.78	-195.80	821.22	39°56'37.977"N	104°47'56.188"W	0.00	
3816.00†	21.695	103.411	3655.91	4.99	-204.38	857.18	39°56'37.892"N	104°47'55.727"W	0.00	
3916.00†	21.695	103.411	3748.82	5.20	-212.95	893.14	39°56'37.807"N	104°47'55.265"W	0.00	
4016.00†	21.695	103.411	3841.74	5.41	-221.52	929.10	39°56'37.723"N	104°47'54.803"W	0.00	



# Planned Wellpath Report

BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NCH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH DATA (194 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4116.00†	21.695	103.411	3934.66	5.62	-230.10	965.06	39°56'37.638"N	104°47'54.342"W	0.00	
4216.00†	21.695	103.411	4027.57	5.83	-238.67	1001.02	39°56'37.553"N	104°47'53.880"W	0.00	
4316.00†	21.695	103.411	4120.49	6.04	-247.25	1036.98	39°56'37.468"N	104°47'53.418"W	0.00	
4416.00†	21.695	103.411	4213.41	6.25	-255.82	1072.93	39°56'37.384"N	104°47'52.956"W	0.00	
4516.00†	21.695	103.411	4306.32	6.46	-264.39	1108.89	39°56'37.299"N	104°47'52.495"W	0.00	
4616.00†	21.695	103.411	4399.24	6.67	-272.97	1144.85	39°56'37.214"N	104°47'52.033"W	0.00	
4716.00†	21.695	103.411	4492.16	6.88	-281.54	1180.81	39°56'37.129"N	104°47'51.571"W	0.00	
4816.00†	21.695	103.411	4585.07	7.09	-290.11	1216.77	39°56'37.045"N	104°47'51.110"W	0.00	
4916.00†	21.695	103.411	4677.99	7.30	-298.69	1252.73	39°56'36.960"N	104°47'50.648"W	0.00	
5016.00†	21.695	103.411	4770.91	7.51	-307.26	1288.69	39°56'36.875"N	104°47'50.186"W	0.00	
5092.51†	21.695	103.411	4842.00	7.67	-313.82	1316.20	39°56'36.810"N	104°47'49.833"W	0.00	Sussex / Shannon
5116.00†	21.695	103.411	4863.82	7.72	-315.83	1324.65	39°56'36.790"N	104°47'49.725"W	0.00	
5216.00†	21.695	103.411	4956.74	7.93	-324.41	1360.60	39°56'36.706"N	104°47'49.263"W	0.00	
5316.00†	21.695	103.411	5049.66	8.14	-332.98	1396.56	39°56'36.621"N	104°47'48.801"W	0.00	
5416.00†	21.695	103.411	5142.57	8.35	-341.55	1432.52	39°56'36.536"N	104°47'48.340"W	0.00	
5516.00†	21.695	103.411	5235.49	8.56	-350.13	1468.48	39°56'36.451"N	104°47'47.878"W	0.00	
5616.00†	21.695	103.411	5328.40	8.76	-358.70	1504.44	39°56'36.367"N	104°47'47.416"W	0.00	
5716.00†	21.695	103.411	5421.32	8.97	-367.28	1540.40	39°56'36.282"N	104°47'46.955"W	0.00	
5816.00†	21.695	103.411	5514.24	9.18	-375.85	1576.36	39°56'36.197"N	104°47'46.493"W	0.00	
5916.00†	21.695	103.411	5607.15	9.39	-384.42	1612.32	39°56'36.112"N	104°47'46.031"W	0.00	
6016.00†	21.695	103.411	5700.07	9.60	-393.00	1648.27	39°56'36.028"N	104°47'45.570"W	0.00	
6116.00†	21.695	103.411	5792.99	9.81	-401.57	1684.23	39°56'35.943"N	104°47'45.108"W	0.00	
6216.00†	21.695	103.411	5885.90	10.02	-410.14	1720.19	39°56'35.858"N	104°47'44.646"W	0.00	
6316.00†	21.695	103.411	5978.82	10.23	-418.72	1756.15	39°56'35.773"N	104°47'44.185"W	0.00	
6416.00†	21.695	103.411	6071.74	10.44	-427.29	1792.11	39°56'35.689"N	104°47'43.723"W	0.00	
6516.00†	21.695	103.411	6164.65	10.65	-435.86	1828.07	39°56'35.604"N	104°47'43.261"W	0.00	
6616.00†	21.695	103.411	6257.57	10.86	-444.44	1864.03	39°56'35.519"N	104°47'42.800"W	0.00	
6716.00†	21.695	103.411	6350.49	11.07	-453.01	1899.98	39°56'35.434"N	104°47'42.338"W	0.00	
6816.00†	21.695	103.411	6443.40	11.28	-461.58	1935.94	39°56'35.350"N	104°47'41.876"W	0.00	
6916.00†	21.695	103.411	6536.32	11.49	-470.16	1971.90	39°56'35.265"N	104°47'41.415"W	0.00	
7016.00†	21.695	103.411	6629.23	11.70	-478.73	2007.86	39°56'35.180"N	104°47'40.953"W	0.00	
7116.00†	21.695	103.411	6722.15	11.91	-487.31	2043.82	39°56'35.095"N	104°47'40.491"W	0.00	
7216.00†	21.695	103.411	6815.07	12.12	-495.88	2079.78	39°56'35.011"N	104°47'40.030"W	0.00	
7316.00†	21.695	103.411	6907.98	12.33	-504.45	2115.74	39°56'34.926"N	104°47'39.568"W	0.00	
7363.52	21.695	103.411	6952.13	12.43	-508.53	2132.82	39°56'34.886"N	104°47'39.349"W	0.00	End of Tangent
7416.00†	21.166	89.086	7001.02	14.88	-510.63	2151.75	39°56'34.865"N	104°47'39.106"W	10.00	
7516.00†	23.457	63.225	7093.75	32.42	-501.35	2187.66	39°56'34.957"N	104°47'38.645"W	10.00	
7616.00†	29.037	44.291	7183.57	66.33	-474.94	2222.46	39°56'35.217"N	104°47'38.198"W	10.00	
7696.64†	34.900	33.784	7252.00	104.92	-441.71	2249.00	39°56'35.546"N	104°47'37.857"W	10.00	Niobrara A Chalk
7716.00†	36.420	31.726	7267.73	115.59	-432.22	2255.10	39°56'35.640"N	104°47'37.779"W	10.00	
7759.60†	39.957	27.598	7302.00	141.50	-408.79	2268.40	39°56'35.871"N	104°47'37.608"W	10.00	Niobrara A Marl
7816.00†	44.715	23.095	7343.69	178.69	-374.46	2284.59	39°56'36.210"N	104°47'37.400"W	10.00	
7916.00†	53.490	16.730	7409.13	253.73	-303.43	2310.02	39°56'36.912"N	104°47'37.074"W	10.00	
7938.15†	55.475	15.523	7422.00	271.74	-286.12	2315.02	39°56'37.083"N	104°47'37.009"W	10.00	Niobrara B Chalk
8016.00†	62.534	11.687	7462.08	338.41	-221.29	2330.62	39°56'37.724"N	104°47'36.809"W	10.00	





# Planned Wellpath Report

BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NCH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH DATA (194 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8050.17†	65.663	10.162	7477.00	369.10	-191.12	2336.44	39°56'38.022"N	104°47'36.734"W	10.00	Niobrara B Marl
8116.00†	71.732	7.420	7500.91	430.17	-130.54	2345.78	39°56'38.621"N	104°47'36.614"W	10.00	
8216.00†	81.014	3.588	7524.45	526.22	-33.92	2355.03	39°56'39.576"N	104°47'36.495"W	10.00	
8312.24†	89.983	0.084	7532.00	619.98	61.86	2358.08	39°56'40.522"N	104°47'36.456"W	10.00	Niobrara C Chalk (Landing Zone)
8312.42	90.000	0.078	7532.00†	620.16	62.04	2358.08	39°56'40.524"N	104°47'36.456"W	10.00	End of 3D Arc (J)
8316.00†	90.000	0.078	7532.00	623.64	65.62	2358.08	39°56'40.559"N	104°47'36.456"W	0.00	
8416.00†	90.000	0.078	7532.00	720.81	165.62	2358.22	39°56'41.548"N	104°47'36.454"W	0.00	
8516.00†	90.000	0.078	7532.00	817.99	265.62	2358.36	39°56'42.536"N	104°47'36.452"W	0.00	
8616.00†	90.000	0.078	7532.00	915.16	365.62	2358.49	39°56'43.524"N	104°47'36.450"W	0.00	
8716.00†	90.000	0.078	7532.00	1012.33	465.62	2358.63	39°56'44.512"N	104°47'36.448"W	0.00	
8816.00†	90.000	0.078	7532.00	1109.50	565.62	2358.76	39°56'45.501"N	104°47'36.447"W	0.00	
8916.00†	90.000	0.078	7532.00	1206.68	665.62	2358.90	39°56'46.489"N	104°47'36.445"W	0.00	
9016.00†	90.000	0.078	7532.00	1303.85	765.62	2359.04	39°56'47.477"N	104°47'36.443"W	0.00	
9116.00†	90.000	0.078	7532.00	1401.02	865.62	2359.17	39°56'48.465"N	104°47'36.441"W	0.00	
9216.00†	90.000	0.078	7532.00	1498.19	965.62	2359.31	39°56'49.454"N	104°47'36.439"W	0.00	
9316.00†	90.000	0.078	7532.00	1595.37	1065.62	2359.44	39°56'50.442"N	104°47'36.437"W	0.00	
9416.00†	90.000	0.078	7532.00	1692.54	1165.62	2359.58	39°56'51.430"N	104°47'36.435"W	0.00	
9516.00†	90.000	0.078	7532.00	1789.71	1265.62	2359.71	39°56'52.418"N	104°47'36.434"W	0.00	
9616.00†	90.000	0.078	7532.00	1886.88	1365.62	2359.85	39°56'53.407"N	104°47'36.432"W	0.00	
9716.00†	90.000	0.078	7532.00	1984.06	1465.62	2359.99	39°56'54.395"N	104°47'36.430"W	0.00	
9816.00†	90.000	0.078	7532.00	2081.23	1565.62	2360.12	39°56'55.383"N	104°47'36.428"W	0.00	
9916.00†	90.000	0.078	7532.00	2178.40	1665.62	2360.26	39°56'56.371"N	104°47'36.426"W	0.00	
10016.00†	90.000	0.078	7532.00	2275.57	1765.62	2360.39	39°56'57.359"N	104°47'36.424"W	0.00	
10116.00†	90.000	0.078	7532.00	2372.75	1865.62	2360.53	39°56'58.348"N	104°47'36.422"W	0.00	
10216.00†	90.000	0.078	7532.00	2469.92	1965.62	2360.67	39°56'59.336"N	104°47'36.420"W	0.00	
10316.00†	90.000	0.078	7532.00	2567.09	2065.62	2360.80	39°57'00.324"N	104°47'36.419"W	0.00	
10416.00†	90.000	0.078	7532.00	2664.26	2165.62	2360.94	39°57'01.312"N	104°47'36.417"W	0.00	
10516.00†	90.000	0.078	7532.00	2761.44	2265.62	2361.07	39°57'02.301"N	104°47'36.415"W	0.00	
10616.00†	90.000	0.078	7532.00	2858.61	2365.62	2361.21	39°57'03.289"N	104°47'36.413"W	0.00	
10716.00†	90.000	0.078	7532.00	2955.78	2465.62	2361.35	39°57'04.277"N	104°47'36.411"W	0.00	
10816.00†	90.000	0.078	7532.00	3052.95	2565.62	2361.48	39°57'05.265"N	104°47'36.409"W	0.00	
10916.00†	90.000	0.078	7532.00	3150.13	2665.62	2361.62	39°57'06.254"N	104°47'36.407"W	0.00	
11016.00†	90.000	0.078	7532.00	3247.30	2765.62	2361.75	39°57'07.242"N	104°47'36.406"W	0.00	
11116.00†	90.000	0.078	7532.00	3344.47	2865.62	2361.89	39°57'08.230"N	104°47'36.404"W	0.00	
11216.00†	90.000	0.078	7532.00	3441.64	2965.62	2362.03	39°57'09.218"N	104°47'36.402"W	0.00	
11316.00†	90.000	0.078	7532.00	3538.82	3065.62	2362.16	39°57'10.207"N	104°47'36.400"W	0.00	
11416.00†	90.000	0.078	7532.00	3635.99	3165.62	2362.30	39°57'11.195"N	104°47'36.398"W	0.00	
11516.00†	90.000	0.078	7532.00	3733.16	3265.62	2362.43	39°57'12.183"N	104°47'36.396"W	0.00	
11616.00†	90.000	0.078	7532.00	3830.33	3365.62	2362.57	39°57'13.171"N	104°47'36.394"W	0.00	
11716.00†	90.000	0.078	7532.00	3927.51	3465.62	2362.70	39°57'14.160"N	104°47'36.392"W	0.00	
11816.00†	90.000	0.078	7532.00	4024.68	3565.62	2362.84	39°57'15.148"N	104°47'36.391"W	0.00	
11916.00†	90.000	0.078	7532.00	4121.85	3665.62	2362.98	39°57'16.136"N	104°47'36.389"W	0.00	
12016.00†	90.000	0.078	7532.00	4219.02	3765.62	2363.11	39°57'17.124"N	104°47'36.387"W	0.00	
12116.00†	90.000	0.078	7532.00	4316.20	3865.62	2363.25	39°57'18.113"N	104°47'36.385"W	0.00	
12216.00†	90.000	0.078	7532.00	4413.37	3965.62	2363.38	39°57'19.101"N	104°47'36.383"W	0.00	



# Planned Wellpath Report

BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NCH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH DATA (194 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12316.00†	90.000	0.078	7532.00	4510.54	4065.62	2363.52	39°57'20.089"N	104°47'36.381"W	0.00	
12416.00†	90.000	0.078	7532.00	4607.71	4165.62	2363.66	39°57'21.077"N	104°47'36.379"W	0.00	
12516.00†	90.000	0.078	7532.00	4704.89	4265.62	2363.79	39°57'22.065"N	104°47'36.378"W	0.00	
12616.00†	90.000	0.078	7532.00	4802.06	4365.62	2363.93	39°57'23.054"N	104°47'36.376"W	0.00	
12716.00†	90.000	0.078	7532.00	4899.23	4465.62	2364.06	39°57'24.042"N	104°47'36.374"W	0.00	
12816.00†	90.000	0.078	7532.00	4996.40	4565.62	2364.20	39°57'25.030"N	104°47'36.372"W	0.00	
12916.00†	90.000	0.078	7532.00	5093.58	4665.62	2364.34	39°57'26.018"N	104°47'36.370"W	0.00	
13016.00†	90.000	0.078	7532.00	5190.75	4765.62	2364.47	39°57'27.007"N	104°47'36.368"W	0.00	
13116.00†	90.000	0.078	7532.00	5287.92	4865.62	2364.61	39°57'27.995"N	104°47'36.366"W	0.00	
13131.90†	90.000	0.078	7532.00	5303.37	4881.51	2364.63	39°57'28.152"N	104°47'36.366"W	0.00	Niobrara C Chalk (Landing Zone)
13216.00†	90.000	0.078	7532.00	5385.09	4965.62	2364.74	39°57'28.983"N	104°47'36.364"W	0.00	
13316.00†	90.000	0.078	7532.00	5482.27	5065.62	2364.88	39°57'29.971"N	104°47'36.363"W	0.00	
13416.00†	90.000	0.078	7532.00	5579.44	5165.62	2365.02	39°57'30.960"N	104°47'36.361"W	0.00	
13516.00†	90.000	0.078	7532.00	5676.61	5265.62	2365.15	39°57'31.948"N	104°47'36.359"W	0.00	
13616.00†	90.000	0.078	7532.00	5773.78	5365.62	2365.29	39°57'32.936"N	104°47'36.357"W	0.00	
13716.00†	90.000	0.078	7532.00	5870.96	5465.62	2365.42	39°57'33.924"N	104°47'36.355"W	0.00	
13816.00†	90.000	0.078	7532.00	5968.13	5565.62	2365.56	39°57'34.913"N	104°47'36.353"W	0.00	
13916.00†	90.000	0.078	7532.00	6065.30	5665.62	2365.69	39°57'35.901"N	104°47'36.351"W	0.00	
14016.00†	90.000	0.078	7532.00	6162.47	5765.62	2365.83	39°57'36.889"N	104°47'36.350"W	0.00	
14116.00†	90.000	0.078	7532.00	6259.64	5865.62	2365.97	39°57'37.877"N	104°47'36.348"W	0.00	
14216.00†	90.000	0.078	7532.00	6356.82	5965.62	2366.10	39°57'38.866"N	104°47'36.346"W	0.00	
14316.00†	90.000	0.078	7532.00	6453.99	6065.62	2366.24	39°57'39.854"N	104°47'36.344"W	0.00	
14416.00†	90.000	0.078	7532.00	6551.16	6165.62	2366.37	39°57'40.842"N	104°47'36.342"W	0.00	
14516.00†	90.000	0.078	7532.00	6648.33	6265.62	2366.51	39°57'41.830"N	104°47'36.340"W	0.00	
14616.00†	90.000	0.078	7532.00	6745.51	6365.62	2366.65	39°57'42.819"N	104°47'36.338"W	0.00	
14716.00†	90.000	0.078	7532.00	6842.68	6465.62	2366.78	39°57'43.807"N	104°47'36.336"W	0.00	
14816.00†	90.000	0.078	7532.00	6939.85	6565.62	2366.92	39°57'44.795"N	104°47'36.335"W	0.00	
14916.00†	90.000	0.078	7532.00	7037.02	6665.62	2367.05	39°57'45.783"N	104°47'36.333"W	0.00	
15016.00†	90.000	0.078	7532.00	7134.20	6765.62	2367.19	39°57'46.771"N	104°47'36.331"W	0.00	
15116.00†	90.000	0.078	7532.00	7231.37	6865.62	2367.33	39°57'47.760"N	104°47'36.329"W	0.00	
15216.00†	90.000	0.078	7532.00	7328.54	6965.62	2367.46	39°57'48.748"N	104°47'36.327"W	0.00	
15316.00†	90.000	0.078	7532.00	7425.71	7065.62	2367.60	39°57'49.736"N	104°47'36.325"W	0.00	
15416.00†	90.000	0.078	7532.00	7522.89	7165.62	2367.73	39°57'50.724"N	104°47'36.323"W	0.00	
15516.00†	90.000	0.078	7532.00	7620.06	7265.62	2367.87	39°57'51.713"N	104°47'36.321"W	0.00	
15616.00†	90.000	0.078	7532.00	7717.23	7365.62	2368.00	39°57'52.701"N	104°47'36.320"W	0.00	
15716.00†	90.000	0.078	7532.00	7814.40	7465.62	2368.14	39°57'53.689"N	104°47'36.318"W	0.00	
15816.00†	90.000	0.078	7532.00	7911.58	7565.62	2368.28	39°57'54.677"N	104°47'36.316"W	0.00	
15916.00†	90.000	0.078	7532.00	8008.75	7665.62	2368.41	39°57'55.666"N	104°47'36.314"W	0.00	
16016.00†	90.000	0.078	7532.00	8105.92	7765.62	2368.55	39°57'56.654"N	104°47'36.312"W	0.00	
16116.00†	90.000	0.078	7532.00	8203.09	7865.61	2368.68	39°57'57.642"N	104°47'36.310"W	0.00	
16216.00†	90.000	0.078	7532.00	8300.27	7965.61	2368.82	39°57'58.630"N	104°47'36.308"W	0.00	
16316.00†	90.000	0.078	7532.00	8397.44	8065.61	2368.96	39°57'59.619"N	104°47'36.307"W	0.00	
16416.00†	90.000	0.078	7532.00	8494.61	8165.61	2369.09	39°58'00.607"N	104°47'36.305"W	0.00	
16516.00†	90.000	0.078	7532.00	8591.78	8265.61	2369.23	39°58'01.595"N	104°47'36.303"W	0.00	
16616.00†	90.000	0.078	7532.00	8688.96	8365.61	2369.36	39°58'02.583"N	104°47'36.301"W	0.00	





# Planned Wellpath Report

BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NCH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH DATA (194 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
16716.00†	90.000	0.078	7532.00	8786.13	8465.61	2369.50	39°58'03.572"N	104°47'36.299"W	0.00	
16816.00†	90.000	0.078	7532.00	8883.30	8565.61	2369.64	39°58'04.560"N	104°47'36.297"W	0.00	
16916.00†	90.000	0.078	7532.00	8980.47	8665.61	2369.77	39°58'05.548"N	104°47'36.295"W	0.00	
17016.00†	90.000	0.078	7532.00	9077.65	8765.61	2369.91	39°58'06.536"N	104°47'36.293"W	0.00	
17116.00†	90.000	0.078	7532.00	9174.82	8865.61	2370.04	39°58'07.524"N	104°47'36.292"W	0.00	
17216.00†	90.000	0.078	7532.00	9271.99	8965.61	2370.18	39°58'08.513"N	104°47'36.290"W	0.00	
17316.00†	90.000	0.078	7532.00	9369.16	9065.61	2370.32	39°58'09.501"N	104°47'36.288"W	0.00	
17416.00†	90.000	0.078	7532.00	9466.34	9165.61	2370.45	39°58'10.489"N	104°47'36.286"W	0.00	
17516.00†	90.000	0.078	7532.00	9563.51	9265.61	2370.59	39°58'11.477"N	104°47'36.284"W	0.00	
17616.00†	90.000	0.078	7532.00	9660.68	9365.61	2370.72	39°58'12.466"N	104°47'36.282"W	0.00	
17716.00†	90.000	0.078	7532.00	9757.85	9465.61	2370.86	39°58'13.454"N	104°47'36.280"W	0.00	
17816.00†	90.000	0.078	7532.00	9855.03	9565.61	2370.99	39°58'14.442"N	104°47'36.279"W	0.00	
17916.00†	90.000	0.078	7532.00	9952.20	9665.61	2371.13	39°58'15.430"N	104°47'36.277"W	0.00	
17951.38	90.000	0.078	7532.00 <sup>2</sup>	9986.58	9700.99	2371.18	39°58'15.780"N	104°47'36.276"W	0.00	End of Tangent (J)

## HOLE & CASING SECTIONS

- Ref Wellbore: BRIGHTON LAKES 20-17-2NCH PWB

Ref 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	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	17952.00	17070.00	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	-75.71	3195665.30	1223370.47	39°56'39.912"N	104°48'07.704"W	polygon
SEC.20-T1S-R66W		0.00	0.00	-75.71	3195665.30	1223370.47	39°56'39.912"N	104°48'07.704"W	polygon
2) BRIGHTON LAKES 20-17-2NCH BHL (NIO C CK, 460'FNL& 1000'FEL,SEC.17,REV-1)	17951.38	7532.00	9700.99	2371.18	3198035.66	1233090.13	39°58'15.780"N	104°47'36.276"W	point
1) BRIGHTON LAKES 20-17-2NCH LP (NIO C CK, 460'FSL& 1000'FEL,SEC.20,REV-1)	8312.42	7532.00	62.04	2358.08	3198098.45	1223451.67	39°56'40.524"N	104°47'36.456"W	point

## SURVEY PROGRAM -

Ref Wellbore: BRIGHTON LAKES 20-17-2NCH PWB

Ref 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



# Planned Wellpath Report

BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)  
Page 7 of 7



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NCH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
882.00	0.000	103.411	882.00	Fox Hills (Surface Csg)
5092.51	21.695	103.411	4842.00	Sussex / Shannon
7696.64	34.900	33.784	7252.00	Niobrara A Chalk
7759.60	39.957	27.598	7302.00	Niobrara A Marl
7938.15	55.475	15.523	7422.00	Niobrara B Chalk
8050.17	65.663	10.162	7477.00	Niobrara B Marl
8312.24	89.983	0.084	7532.00	Niobrara C Chalk (Landing Zone)
13131.90	90.000	0.078	7532.00	Niobrara C 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

#MNEM	.UNITS	DATA	:DESCRIPTION
#----	.-----	----	:-----
STRT	.ft	0.00	:START MD
STOP	.ft	17935.33	:STOP MD
STEP	.ft	0.0	:STEP (non-uniform increment)
NULL	.	-999.99	:NULL
COMP	.	PETROSHARE	:OPERATOR
WELL	.	BRIGHTON LAKES 20-17-3NBH	:WELL
FLD	.	ADAMS COUNTY (NAD83/ TRUE NORTH)	:F
IELD	.		
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

#MNEM	.UNITS	DATA	:DESCRIPTION
#----	.-----	----	:-----
WPTYPE	.	PLANNED WELLPATH	:WELLPATH TYPE
FACILITY	.	SEC.20-T01S-R66W	:FACILITY
SLOT	.	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20):SLOT	
WELLBORE	.	BRIGHTON LAKES 20-17-3NBH PWB	:WELLBORE
WELLPATH	.	BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) 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		14.99	:VERTICAL SECTION AZIMUTH
VSORIGIN .ft		0.00	:VERTICAL SECTION ORIGIN NORTH
VSORIGE .ft		0.00	:VERTICAL SECTION ORIGIN EAST

~CURVE (WELLPATH) INFORMATION

#MNEM	.UNITS	:DESCRIPTION
#----	.-----	:-----
DEPT	.ft	:MEASURED DEPTH
INC	.deg	:INCLINATION

PETROSHARE\_BRIGHTON\_LAKES\_20-17-3NBH\_\_NIO\_B\_CK\_\_REV-A.0\_\_PWP\_02-22-17.1as

AZI	.deg	:AZIMUTH
TVD	.ft	:TRUE VERTICAL DEPTH
SECT	.ft	:CROSS SECTION (CURTAIN/VERTICAL)
LOCALN	.ft	:LOCAL NORTH
LOCALE	.ft	:LOCAL EAST
LAT	.deg	:LATITUDE
LONG	.deg	:LONGITUDE
DLS	.deg/100ft	:DOGLEG SEVERITY

~ASCII DATA

0.00	0.00	102.27	0.00	0.00	0.00	0.00	39.9444200	-104.8018200	0.00
16.00	0.00	102.27	16.00	0.00	0.00	0.00	39.9444200	-104.8018200	0.00
116.00	0.00	102.27	116.00	0.00	0.00	0.00	39.9444200	-104.8018200	0.00
216.00	0.00	102.27	216.00	0.00	0.00	0.00	39.9444200	-104.8018200	0.00
316.00	0.00	102.27	316.00	0.00	0.00	0.00	39.9444200	-104.8018200	0.00
416.00	0.00	102.27	416.00	0.00	0.00	0.00	39.9444200	-104.8018200	0.00
516.00	0.00	102.27	516.00	0.00	0.00	0.00	39.9444200	-104.8018200	0.00
616.00	0.00	102.27	616.00	0.00	0.00	0.00	39.9444200	-104.8018200	0.00
716.00	0.00	102.27	716.00	0.00	0.00	0.00	39.9444200	-104.8018200	0.00
816.00	0.00	102.27	816.00	0.00	0.00	0.00	39.9444200	-104.8018200	0.00
916.00	0.00	102.27	916.00	0.00	0.00	0.00	39.9444200	-104.8018200	0.00
1016.00	0.00	102.27	1016.00	0.00	0.00	0.00	39.9444200	-104.8018200	0.00
1025.00	0.00	102.27	1025.00	0.00	0.00	0.00	39.9444200	-104.8018200	0.00
1116.00	2.73	102.27	1115.97	0.10	-0.46	2.12	39.9444187	-104.8018124	3.00
1216.00	5.73	102.27	1215.68	0.45	-2.03	9.32	39.9444144	-104.8017867	3.00
1316.00	8.73	102.27	1314.88	1.05	-4.70	21.62	39.9444071	-104.8017429	3.00
1416.00	11.73	102.27	1413.27	1.89	-8.48	38.97	39.9443967	-104.8016810	3.00
1516.00	14.73	102.27	1510.61	2.98	-13.34	61.33	39.9443834	-104.8016013	3.00
1616.00	17.73	102.27	1606.61	4.30	-19.28	88.64	39.9443671	-104.8015039	3.00
1716.00	20.73	102.27	1701.02	5.87	-26.27	120.82	39.9443479	-104.8013891	3.00
1816.00	23.73	102.27	1793.58	7.66	-34.31	157.79	39.9443258	-104.8012573	3.00
1818.58	23.81	102.27	1795.94	7.71	-34.53	158.80	39.9443252	-104.8012536	3.00
1916.00	23.81	102.27	1885.07	9.58	-42.89	197.23	39.9443023	-104.8011166	0.00
2016.00	23.81	102.27	1976.56	11.49	-51.47	236.67	39.9442787	-104.8009759	0.00
2116.00	23.81	102.27	2068.05	13.41	-60.05	276.12	39.9442552	-104.8008352	0.00
2216.00	23.81	102.27	2159.54	15.32	-68.62	315.56	39.9442316	-104.8006946	0.00
2316.00	23.81	102.27	2251.03	17.24	-77.20	355.01	39.9442081	-104.8005539	0.00
2416.00	23.81	102.27	2342.53	19.15	-85.78	394.45	39.9441845	-104.8004132	0.00
2516.00	23.81	102.27	2434.02	21.07	-94.36	433.89	39.9441610	-104.8002725	0.00
2616.00	23.81	102.27	2525.51	22.98	-102.94	473.34	39.9441374	-104.8001319	0.00
2716.00	23.81	102.27	2617.00	24.90	-111.51	512.78	39.9441139	-104.7999912	0.00
2816.00	23.81	102.27	2708.49	26.81	-120.09	552.23	39.9440903	-104.7998505	0.00
2916.00	23.81	102.27	2799.98	28.73	-128.67	591.67	39.9440668	-104.7997098	0.00
3016.00	23.81	102.27	2891.47	30.64	-137.25	631.12	39.9440432	-104.7995692	0.00

PETROSHARE_BRIGHTON_LAKES_20-17-3NBH__NIO_B_CK__REV-A.0__PWP_02-22-17.1as									
3116.00	23.81	102.27	2982.96	32.56	-145.82	670.56	39.9440197	-104.7994285	0.00
3216.00	23.81	102.27	3074.45	34.47	-154.40	710.00	39.9439961	-104.7992878	0.00
3316.00	23.81	102.27	3165.94	36.39	-162.98	749.45	39.9439726	-104.7991471	0.00
3416.00	23.81	102.27	3257.43	38.30	-171.56	788.89	39.9439490	-104.7990065	0.00
3516.00	23.81	102.27	3348.92	40.22	-180.14	828.34	39.9439255	-104.7988658	0.00
3616.00	23.81	102.27	3440.42	42.13	-188.71	867.78	39.9439019	-104.7987251	0.00
3716.00	23.81	102.27	3531.91	44.05	-197.29	907.23	39.9438784	-104.7985844	0.00
3816.00	23.81	102.27	3623.40	45.96	-205.87	946.67	39.9438548	-104.7984438	0.00
3916.00	23.81	102.27	3714.89	47.88	-214.45	986.11	39.9438313	-104.7983031	0.00
4016.00	23.81	102.27	3806.38	49.79	-223.02	1025.56	39.9438077	-104.7981624	0.00
4116.00	23.81	102.27	3897.87	51.71	-231.60	1065.00	39.9437842	-104.7980218	0.00
4216.00	23.81	102.27	3989.36	53.62	-240.18	1104.45	39.9437606	-104.7978811	0.00
4316.00	23.81	102.27	4080.85	55.54	-248.76	1143.89	39.9437371	-104.7977404	0.00
4416.00	23.81	102.27	4172.34	57.45	-257.33	1183.34	39.9437135	-104.7975997	0.00
4516.00	23.81	102.27	4263.83	59.37	-265.91	1222.78	39.9436900	-104.7974591	0.00
4616.00	23.81	102.27	4355.32	61.28	-274.49	1262.22	39.9436664	-104.7973184	0.00
4716.00	23.81	102.27	4446.81	63.20	-283.07	1301.67	39.9436429	-104.7971777	0.00
4816.00	23.81	102.27	4538.31	65.11	-291.65	1341.11	39.9436193	-104.7970370	0.00
4916.00	23.81	102.27	4629.80	67.03	-300.22	1380.56	39.9435957	-104.7968964	0.00
5016.00	23.81	102.27	4721.29	68.94	-308.80	1420.00	39.9435722	-104.7967557	0.00
5116.00	23.81	102.27	4812.78	70.86	-317.38	1459.44	39.9435486	-104.7966150	0.00
5216.00	23.81	102.27	4904.27	72.77	-325.96	1498.89	39.9435251	-104.7964744	0.00
5316.00	23.81	102.27	4995.76	74.69	-334.53	1538.33	39.9435015	-104.7963337	0.00
5416.00	23.81	102.27	5087.25	76.60	-343.11	1577.78	39.9434780	-104.7961930	0.00
5516.00	23.81	102.27	5178.74	78.52	-351.69	1617.22	39.9434544	-104.7960523	0.00
5616.00	23.81	102.27	5270.23	80.43	-360.27	1656.67	39.9434309	-104.7959117	0.00
5716.00	23.81	102.27	5361.72	82.35	-368.85	1696.11	39.9434073	-104.7957710	0.00
5816.00	23.81	102.27	5453.21	84.26	-377.42	1735.55	39.9433838	-104.7956303	0.00
5916.00	23.81	102.27	5544.70	86.18	-386.00	1775.00	39.9433602	-104.7954896	0.00
6016.00	23.81	102.27	5636.20	88.10	-394.58	1814.44	39.9433367	-104.7953490	0.00
6116.00	23.81	102.27	5727.69	90.01	-403.16	1853.89	39.9433131	-104.7952083	0.00
6216.00	23.81	102.27	5819.18	91.93	-411.73	1893.33	39.9432895	-104.7950676	0.00
6316.00	23.81	102.27	5910.67	93.84	-420.31	1932.78	39.9432660	-104.7949270	0.00
6416.00	23.81	102.27	6002.16	95.76	-428.89	1972.22	39.9432424	-104.7947863	0.00
6516.00	23.81	102.27	6093.65	97.67	-437.47	2011.66	39.9432189	-104.7946456	0.00
6616.00	23.81	102.27	6185.14	99.59	-446.05	2051.11	39.9431953	-104.7945049	0.00
6716.00	23.81	102.27	6276.63	101.50	-454.62	2090.55	39.9431718	-104.7943643	0.00
6816.00	23.81	102.27	6368.12	103.42	-463.20	2130.00	39.9431482	-104.7942236	0.00
6916.00	23.81	102.27	6459.61	105.33	-471.78	2169.44	39.9431247	-104.7940829	0.00
7016.00	23.81	102.27	6551.10	107.25	-480.36	2208.89	39.9431011	-104.7939423	0.00
7116.00	23.81	102.27	6642.59	109.16	-488.93	2248.33	39.9430775	-104.7938016	0.00
7216.00	23.81	102.27	6734.09	111.08	-497.51	2287.77	39.9430540	-104.7936609	0.00
7316.00	23.81	102.27	6825.58	112.99	-506.09	2327.22	39.9430304	-104.7935203	0.00
7343.82	23.81	102.27	6851.03	113.52	-508.48	2338.19	39.9430239	-104.7934811	0.00

PETROSHARE_BRIGHTON_LAKES_20-17-3NBH_NIO_B_CK_REV-A.0_PWP_02-22-17.1as									
7416.00	23.44	84.22	6917.25	119.31	-510.13	2366.75	39.9430193	-104.7933793	10.00
7516.00	26.22	61.18	7008.21	141.72	-497.44	2405.99	39.9430541	-104.7932393	10.00
7616.00	31.85	44.03	7095.75	180.18	-467.75	2443.79	39.9431356	-104.7931045	10.00
7716.00	39.11	32.11	7177.23	233.52	-421.95	2478.98	39.9432614	-104.7929790	10.00
7816.00	47.25	23.58	7250.15	300.14	-361.43	2510.51	39.9434275	-104.7928665	10.00
7916.00	55.86	17.08	7312.31	377.99	-288.03	2537.42	39.9436290	-104.7927705	10.00
8016.00	64.76	11.81	7361.82	464.72	-203.99	2558.88	39.9438597	-104.7926939	10.00
8116.00	73.81	7.27	7397.17	557.70	-111.86	2574.25	39.9441126	-104.7926391	10.00
8216.00	82.96	3.13	7417.29	654.09	-14.43	2583.06	39.9443800	-104.7926076	10.00
8292.72	90.00	0.08	7422.00	728.53	62.06	2585.19	39.9445900	-104.7926000	10.00
8316.00	90.00	0.08	7422.00	751.03	85.34	2585.23	39.9446539	-104.7925999	0.00
8416.00	90.00	0.08	7422.00	847.66	185.34	2585.36	39.9449284	-104.7925994	0.00
8516.00	90.00	0.08	7422.00	944.29	285.34	2585.50	39.9452029	-104.7925988	0.00
8616.00	90.00	0.08	7422.00	1040.92	385.34	2585.63	39.9454774	-104.7925983	0.00
8716.00	90.00	0.08	7422.00	1137.56	485.34	2585.77	39.9457519	-104.7925978	0.00
8816.00	90.00	0.08	7422.00	1234.19	585.34	2585.90	39.9460265	-104.7925973	0.00
8916.00	90.00	0.08	7422.00	1330.82	685.34	2586.04	39.9463010	-104.7925968	0.00
9016.00	90.00	0.08	7422.00	1427.45	785.34	2586.17	39.9465755	-104.7925963	0.00
9116.00	90.00	0.08	7422.00	1524.09	885.34	2586.31	39.9468500	-104.7925957	0.00
9216.00	90.00	0.08	7422.00	1620.72	985.34	2586.44	39.9471245	-104.7925952	0.00
9316.00	90.00	0.08	7422.00	1717.35	1085.34	2586.58	39.9473990	-104.7925947	0.00
9416.00	90.00	0.08	7422.00	1813.99	1185.34	2586.71	39.9476735	-104.7925942	0.00
9516.00	90.00	0.08	7422.00	1910.62	1285.34	2586.85	39.9479480	-104.7925937	0.00
9616.00	90.00	0.08	7422.00	2007.25	1385.34	2586.98	39.9482225	-104.7925931	0.00
9716.00	90.00	0.08	7422.00	2103.88	1485.34	2587.12	39.9484971	-104.7925926	0.00
9816.00	90.00	0.08	7422.00	2200.52	1585.34	2587.25	39.9487716	-104.7925921	0.00
9916.00	90.00	0.08	7422.00	2297.15	1685.34	2587.39	39.9490461	-104.7925916	0.00
10016.00	90.00	0.08	7422.00	2393.78	1785.34	2587.52	39.9493206	-104.7925911	0.00
10116.00	90.00	0.08	7422.00	2490.41	1885.34	2587.66	39.9495951	-104.7925905	0.00
10216.00	90.00	0.08	7422.00	2587.05	1985.34	2587.79	39.9498696	-104.7925900	0.00
10316.00	90.00	0.08	7422.00	2683.68	2085.34	2587.92	39.9501441	-104.7925895	0.00
10416.00	90.00	0.08	7422.00	2780.31	2185.34	2588.06	39.9504186	-104.7925890	0.00
10516.00	90.00	0.08	7422.00	2876.95	2285.34	2588.19	39.9506931	-104.7925885	0.00
10616.00	90.00	0.08	7422.00	2973.58	2385.34	2588.33	39.9509677	-104.7925880	0.00
10716.00	90.00	0.08	7422.00	3070.21	2485.34	2588.46	39.9512422	-104.7925874	0.00
10816.00	90.00	0.08	7422.00	3166.84	2585.34	2588.60	39.9515167	-104.7925869	0.00
10916.00	90.00	0.08	7422.00	3263.48	2685.34	2588.73	39.9517912	-104.7925864	0.00
11016.00	90.00	0.08	7422.00	3360.11	2785.34	2588.87	39.9520657	-104.7925859	0.00
11116.00	90.00	0.08	7422.00	3456.74	2885.34	2589.00	39.9523402	-104.7925854	0.00
11216.00	90.00	0.08	7422.00	3553.37	2985.34	2589.14	39.9526147	-104.7925848	0.00
11316.00	90.00	0.08	7422.00	3650.01	3085.34	2589.27	39.9528892	-104.7925843	0.00
11416.00	90.00	0.08	7422.00	3746.64	3185.34	2589.41	39.9531637	-104.7925838	0.00
11516.00	90.00	0.08	7422.00	3843.27	3285.34	2589.54	39.9534383	-104.7925833	0.00
11616.00	90.00	0.08	7422.00	3939.91	3385.34	2589.68	39.9537128	-104.7925828	0.00



PETROSHARE_BRIGHTON_LAKES_20-17-3NBH_NIO_B_CK_REV-A.0_PWP_02-22-17.1as									
11716.00	90.00	0.08	7422.00	4036.54	3485.34	2589.81	39.9539873	-104.7925823	0.00
11816.00	90.00	0.08	7422.00	4133.17	3585.34	2589.95	39.9542618	-104.7925817	0.00
11916.00	90.00	0.08	7422.00	4229.80	3685.34	2590.08	39.9545363	-104.7925812	0.00
12016.00	90.00	0.08	7422.00	4326.44	3785.33	2590.22	39.9548108	-104.7925807	0.00
12116.00	90.00	0.08	7422.00	4423.07	3885.33	2590.35	39.9550853	-104.7925802	0.00
12216.00	90.00	0.08	7422.00	4519.70	3985.33	2590.49	39.9553598	-104.7925797	0.00
12316.00	90.00	0.08	7422.00	4616.33	4085.33	2590.62	39.9556343	-104.7925791	0.00
12416.00	90.00	0.08	7422.00	4712.97	4185.33	2590.76	39.9559089	-104.7925786	0.00
12516.00	90.00	0.08	7422.00	4809.60	4285.33	2590.89	39.9561834	-104.7925781	0.00
12616.00	90.00	0.08	7422.00	4906.23	4385.33	2591.03	39.9564579	-104.7925776	0.00
12716.00	90.00	0.08	7422.00	5002.87	4485.33	2591.16	39.9567324	-104.7925771	0.00
12816.00	90.00	0.08	7422.00	5099.50	4585.33	2591.30	39.9570069	-104.7925766	0.00
12916.00	90.00	0.08	7422.00	5196.13	4685.33	2591.43	39.9572814	-104.7925760	0.00
13016.00	90.00	0.08	7422.00	5292.76	4785.33	2591.57	39.9575559	-104.7925755	0.00
13116.00	90.00	0.08	7422.00	5389.40	4885.33	2591.70	39.9578304	-104.7925750	0.00
13216.00	90.00	0.08	7422.00	5486.03	4985.33	2591.84	39.9581049	-104.7925745	0.00
13316.00	90.00	0.08	7422.00	5582.66	5085.33	2591.97	39.9583795	-104.7925740	0.00
13416.00	90.00	0.08	7422.00	5679.29	5185.33	2592.11	39.9586540	-104.7925734	0.00
13516.00	90.00	0.08	7422.00	5775.93	5285.33	2592.24	39.9589285	-104.7925729	0.00
13616.00	90.00	0.08	7422.00	5872.56	5385.33	2592.38	39.9592030	-104.7925724	0.00
13716.00	90.00	0.08	7422.00	5969.19	5485.33	2592.51	39.9594775	-104.7925719	0.00
13816.00	90.00	0.08	7422.00	6065.83	5585.33	2592.65	39.9597520	-104.7925714	0.00
13916.00	90.00	0.08	7422.00	6162.46	5685.33	2592.78	39.9600265	-104.7925708	0.00
14016.00	90.00	0.08	7422.00	6259.09	5785.33	2592.92	39.9603010	-104.7925703	0.00
14116.00	90.00	0.08	7422.00	6355.72	5885.33	2593.05	39.9605755	-104.7925698	0.00
14216.00	90.00	0.08	7422.00	6452.36	5985.33	2593.19	39.9608501	-104.7925693	0.00
14316.00	90.00	0.08	7422.00	6548.99	6085.33	2593.32	39.9611246	-104.7925688	0.00
14416.00	90.00	0.08	7422.00	6645.62	6185.33	2593.46	39.9613991	-104.7925683	0.00
14516.00	90.00	0.08	7422.00	6742.25	6285.33	2593.59	39.9616736	-104.7925677	0.00
14616.00	90.00	0.08	7422.00	6838.89	6385.33	2593.73	39.9619481	-104.7925672	0.00
14716.00	90.00	0.08	7422.00	6935.52	6485.33	2593.86	39.9622226	-104.7925667	0.00
14816.00	90.00	0.08	7422.00	7032.15	6585.33	2594.00	39.9624971	-104.7925662	0.00
14916.00	90.00	0.08	7422.00	7128.79	6685.33	2594.13	39.9627716	-104.7925657	0.00
15016.00	90.00	0.08	7422.00	7225.42	6785.33	2594.27	39.9630461	-104.7925651	0.00
15116.00	90.00	0.08	7422.00	7322.05	6885.33	2594.40	39.9633206	-104.7925646	0.00
15216.00	90.00	0.08	7422.00	7418.68	6985.33	2594.54	39.9635952	-104.7925641	0.00
15316.00	90.00	0.08	7422.00	7515.32	7085.33	2594.67	39.9638697	-104.7925636	0.00
15416.00	90.00	0.08	7422.00	7611.95	7185.33	2594.81	39.9641442	-104.7925631	0.00
15516.00	90.00	0.08	7422.00	7708.58	7285.33	2594.94	39.9644187	-104.7925625	0.00
15616.00	90.00	0.08	7422.00	7805.21	7385.33	2595.08	39.9646932	-104.7925620	0.00
15716.00	90.00	0.08	7422.00	7901.85	7485.33	2595.21	39.9649677	-104.7925615	0.00
15816.00	90.00	0.08	7422.00	7998.48	7585.33	2595.35	39.9652422	-104.7925610	0.00
15916.00	90.00	0.08	7422.00	8095.11	7685.33	2595.48	39.9655167	-104.7925605	0.00
16016.00	90.00	0.08	7422.00	8191.75	7785.33	2595.62	39.9657912	-104.7925600	0.00

PETROSHARE_BRIGHTON_LAKES_20-17-3NBH__NIO_B_CK__REV-A.0__PWP_02-22-17.1as									
16116.00	90.00	0.08	7422.00	8288.38	7885.33	2595.75	39.9660658	-104.7925594	0.00
16216.00	90.00	0.08	7422.00	8385.01	7985.33	2595.89	39.9663403	-104.7925589	0.00
16316.00	90.00	0.08	7422.00	8481.64	8085.33	2596.02	39.9666148	-104.7925584	0.00
16416.00	90.00	0.08	7422.00	8578.28	8185.33	2596.16	39.9668893	-104.7925579	0.00
16516.00	90.00	0.08	7422.00	8674.91	8285.33	2596.29	39.9671638	-104.7925574	0.00
16616.00	90.00	0.08	7422.00	8771.54	8385.33	2596.43	39.9674383	-104.7925568	0.00
16716.00	90.00	0.08	7422.00	8868.17	8485.33	2596.56	39.9677128	-104.7925563	0.00
16816.00	90.00	0.08	7422.00	8964.81	8585.33	2596.70	39.9679873	-104.7925558	0.00
16916.00	90.00	0.08	7422.00	9061.44	8685.33	2596.83	39.9682618	-104.7925553	0.00
17016.00	90.00	0.08	7422.00	9158.07	8785.33	2596.97	39.9685364	-104.7925548	0.00
17116.00	90.00	0.08	7422.00	9254.71	8885.33	2597.10	39.9688109	-104.7925542	0.00
17216.00	90.00	0.08	7422.00	9351.34	8985.33	2597.24	39.9690854	-104.7925537	0.00
17316.00	90.00	0.08	7422.00	9447.97	9085.33	2597.37	39.9693599	-104.7925532	0.00
17416.00	90.00	0.08	7422.00	9544.60	9185.33	2597.51	39.9696344	-104.7925527	0.00
17516.00	90.00	0.08	7422.00	9641.24	9285.33	2597.64	39.9699089	-104.7925522	0.00
17616.00	90.00	0.08	7422.00	9737.87	9385.33	2597.78	39.9701834	-104.7925517	0.00
17716.00	90.00	0.08	7422.00	9834.50	9485.33	2597.91	39.9704579	-104.7925511	0.00
17816.00	90.00	0.08	7422.00	9931.13	9585.33	2598.05	39.9707324	-104.7925506	0.00
17916.00	90.00	0.08	7422.00	10027.77	9685.33	2598.18	39.9710069	-104.7925501	0.00
17935.33	90.00	0.08	7422.00	10046.44	9704.65	2598.21	39.9710600	-104.7925500	0.00

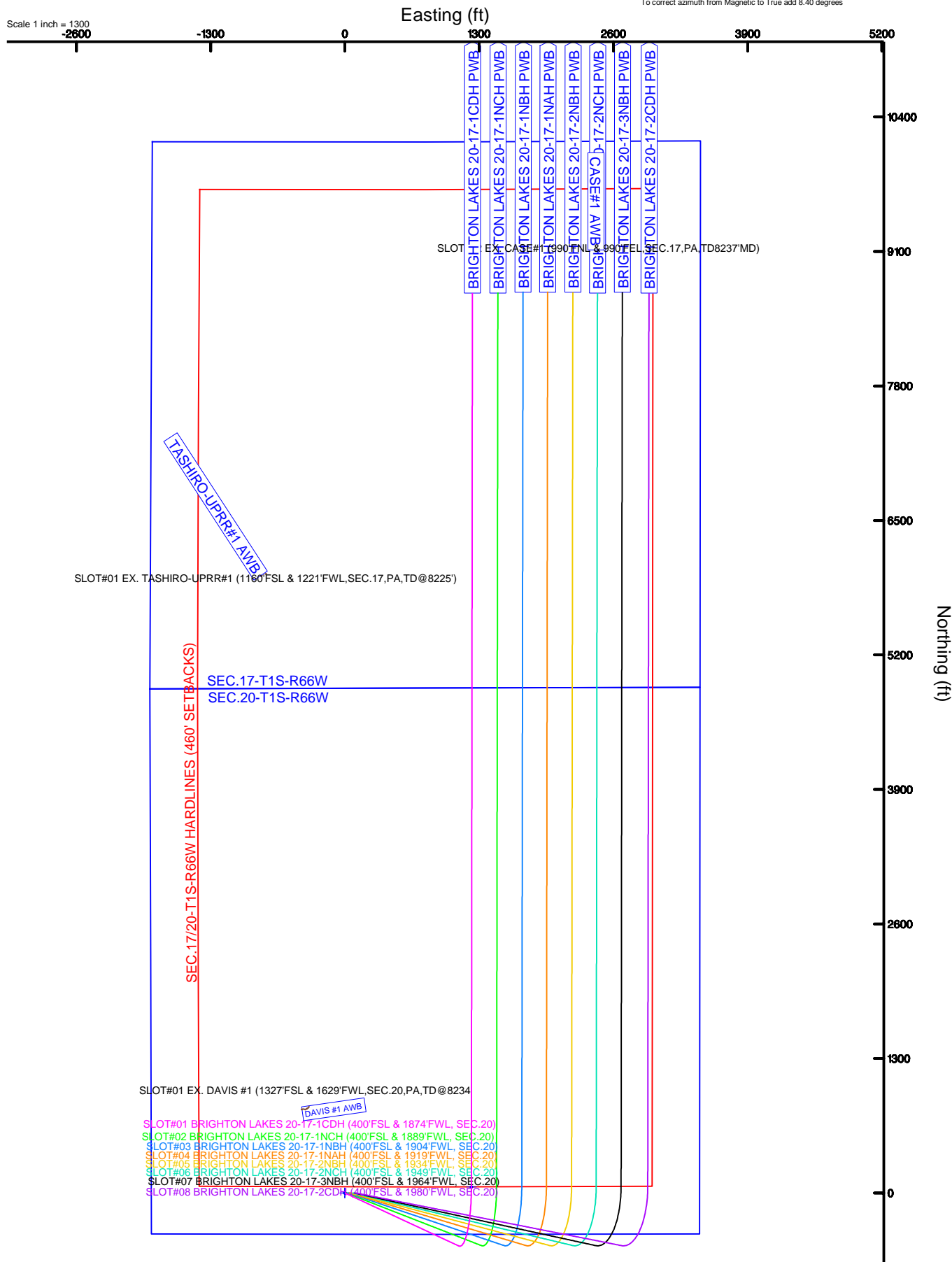
# PETROSHARE



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

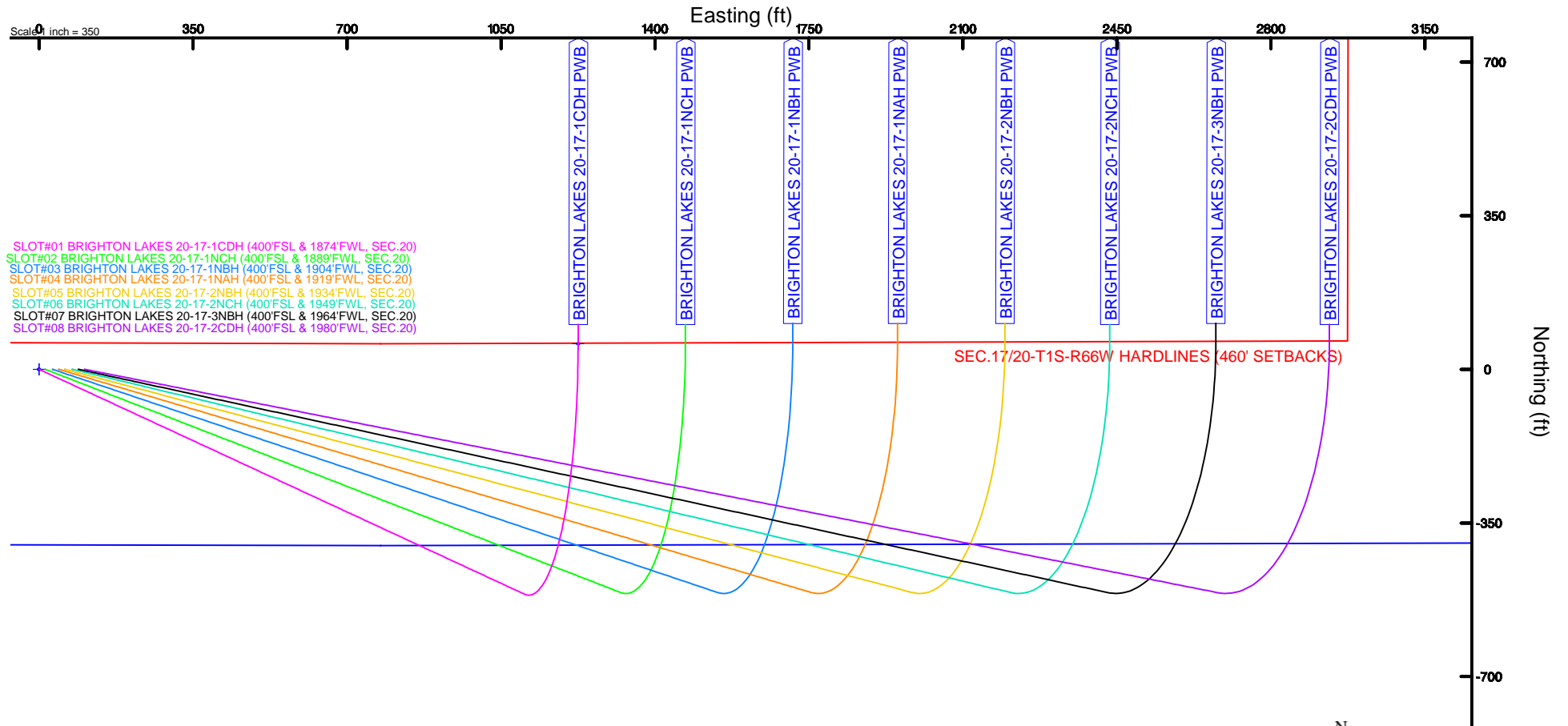


# PETROSHARE

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 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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 3:13:58 PM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/BRIGHTON_LAKES_20-17-3NBH_NIO_B_CK_REV-A.0_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	89.72	3195755.02	1223371.18	39°56'39.912"N	104°48'06.552"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#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'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 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH PWB
Facility	SEC.20-T01S-R66W		

## HOLE & CASING SECTIONS - Ref Wellbore: BRIGHTON LAKES 20-17-3NBH PWB Ref 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	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	17936.00	17054.00	882.00	N/A	0.00	0.00	N/A	N/A

## SURVEY PROGRAM - Ref Wellbore: BRIGHTON LAKES 20-17-3NBH PWB Ref 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

## CALCULATION RANGE & CUTOFF

From: 16.00ft MD	To: 17935.33ft 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#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	14.02	17931.33	17931.33	0.45	17931.33	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	30.84	17930.98	17930.98	0.76	17930.98	FAIL
SEC.17-T01S-R66W	SLOT#02 EX. CASE#1 (990'FNL & 990'FEL, SEC.17,PA,TD8237' MD)	CASE#1	CASE#1 AWB	CASE#1 AWP	17345.36	258.75	17345.36	17316.00	0.78	17316.00	FAIL
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	14.02	17935.33	17935.33	0.84	17935.33	FAIL
SEC.20-T01S-R66W	SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20)	BRIGHTON LAKES 20-17-1NAH	BRIGHTON LAKES 20-17-1NAH PWB	BRIGHTON LAKES 20-17-1NAH (REV-A.0, NIO A CK.) PWP	16.00	44.86	17930.62	17930.62	1.21	17930.62	PASS
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	58.88	17930.27	17930.27	1.53	17930.27	PASS
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	75.71	17926.26	17926.26	1.93	17926.26	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	89.72	1025.00	17926.31	2.38	17926.31	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	14191.00	3498.41	14191.00	14516.00	15.03	14516.00	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	1027.84	934.81	9016.00	1054.08	18.84	9916.00	PASS





# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	-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	6.17	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	4.32	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	3.28	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
1025.00	1025.00	0.00	0.00	1025.00	1025.00	0.00	-14.02	-90.00	14.02	6.43	2.33	PASS
1116.00†	1115.97	-0.46	2.12	1116.30	1116.30	-0.10	-13.59	169.03	15.71	6.92	2.42	PASS
1216.00†	1215.68	-2.03	9.32	1217.15	1217.02	-1.23	-8.88	170.28	18.27	8.46	2.26	PASS
1316.00†	1314.88	-4.70	21.62	1318.13	1317.47	-3.58	1.01	170.91	20.80	10.48	2.06	PASS
1416.00†	1413.27	-8.48	38.97	1419.25	1417.39	-7.18	16.08	171.12	23.30	12.27	1.95	PASS
1516.00†	1510.61	-13.34	61.33	1520.50	1516.47	-12.00	36.29	171.04	25.75	13.89	1.90	PASS
1616.00†	1606.61	-19.28	88.64	1621.88	1614.44	-18.04	61.62	170.74	28.15	15.41	1.87	PASS
1716.00†	1701.02	-26.27	120.82	1723.38	1711.00	-25.28	92.02	170.27	30.50	16.86	1.84	PASS
1816.00†	1793.58	-34.31	157.79	1824.56	1805.53	-33.64	127.07	169.74	32.97	18.19	1.85	PASS
1818.58	1795.94	-34.53	158.80	1827.13	1807.92	-33.86	127.99	169.74	33.07	18.22	1.85	PASS
1916.00†	1885.07	-42.89	197.23	1924.49	1898.38	-42.21	163.00	169.63	36.73	19.06	1.96	PASS
2016.00†	1976.56	-51.47	236.67	2024.42	1991.23	-50.77	198.93	169.55	40.50	19.91	2.07	PASS
2116.00†	2068.05	-60.05	276.12	2124.34	2084.08	-59.34	234.87	169.48	44.26	20.87	2.16	PASS
2216.00†	2159.54	-68.62	315.56	2224.27	2176.93	-67.91	270.80	169.42	48.03	21.89	2.23	PASS
2316.00†	2251.03	-77.20	355.01	2324.20	2269.78	-76.48	306.73	169.37	51.79	22.97	2.30	PASS
2416.00†	2342.53	-85.78	394.45	2424.13	2362.63	-85.04	342.67	169.32	55.56	24.08	2.35	PASS
2516.00†	2434.02	-94.36	433.89	2524.06	2455.48	-93.61	378.60	169.29	59.32	25.24	2.39	PASS
2616.00†	2525.51	-102.94	473.34	2623.99	2548.33	-102.18	414.53	169.25	63.09	26.43	2.43	PASS
2716.00†	2617.00	-111.51	512.78	2723.92	2641.19	-110.75	450.47	169.22	66.85	27.65	2.46	PASS
2816.00†	2708.49	-120.09	552.23	2823.85	2734.04	-119.31	486.40	169.19	70.62	28.89	2.48	PASS
2916.00†	2799.98	-128.67	591.67	2923.78	2826.89	-127.88	522.33	169.17	74.38	30.15	2.50	PASS
3016.00†	2891.47	-137.25	631.12	3023.71	2919.74	-136.45	558.26	169.15	78.15	31.44	2.52	PASS
3116.00†	2982.96	-145.82	670.56	3123.64	3012.59	-145.02	594.20	169.13	81.91	32.74	2.54	PASS
3216.00†	3074.45	-154.40	710.00	3223.56	3105.44	-153.58	630.13	169.11	85.68	34.05	2.55	PASS
3316.00†	3165.94	-162.98	749.45	3323.49	3198.29	-162.15	666.06	169.09	89.44	35.38	2.56	PASS
3416.00†	3257.43	-171.56	788.89	3423.42	3291.14	-170.72	702.00	169.08	93.21	36.72	2.57	PASS
3516.00†	3348.92	-180.14	828.34	3523.35	3383.99	-179.29	737.93	169.07	96.97	38.07	2.58	PASS
3616.00†	3440.42	-188.71	867.78	3623.28	3476.84	-187.85	773.86	169.05	100.74	39.43	2.58	PASS
3716.00†	3531.91	-197.29	907.23	3723.21	3569.69	-196.42	809.80	169.04	104.50	40.79	2.59	PASS
3816.00†	3623.40	-205.87	946.67	3823.14	3662.54	-204.99	845.73	169.03	108.27	42.17	2.59	PASS
3916.00†	3714.89	-214.45	986.11	3923.07	3755.39	-213.56	881.66	169.02	112.03	43.55	2.60	PASS
4016.00†	3806.38	-223.02	1025.56	4023.00	3848.24	-222.12	917.60	169.01	115.80	44.94	2.60	PASS
4116.00†	3897.87	-231.60	1065.00	4122.93	3941.09	-230.69	953.53	169.00	119.56	46.33	2.61	PASS
4216.00†	3989.36	-240.18	1104.45	4222.86	4033.94	-239.26	989.46	168.99	123.33	47.73	2.61	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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†	4080.85	-248.76	1143.89	4322.78	4126.79	-247.83	1025.40	168.98	127.09	49.13	2.61	PASS	
4416.00†	4172.34	-257.33	1183.34	4422.71	4219.65	-256.39	1061.33	168.98	130.86	50.54	2.61	PASS	
4516.00†	4263.83	-265.91	1222.78	4522.64	4312.50	-264.96	1097.26	168.97	134.62	51.95	2.61	PASS	
4616.00†	4355.32	-274.49	1262.22	4622.57	4405.35	-273.53	1133.20	168.96	138.39	53.37	2.61	PASS	
4716.00†	4446.81	-283.07	1301.67	4722.50	4498.20	-282.10	1169.13	168.95	142.15	54.78	2.62	PASS	
4816.00†	4538.31	-291.65	1341.11	4822.43	4591.05	-290.66	1205.06	168.95	145.92	56.21	2.62	PASS	
4916.00†	4629.80	-300.22	1380.56	4922.36	4683.90	-299.23	1241.00	168.94	149.68	57.63	2.62	PASS	
5016.00†	4721.29	-308.80	1420.00	5022.29	4776.75	-307.80	1276.93	168.94	153.45	59.06	2.62	PASS	
5116.00†	4812.78	-317.38	1459.44	5122.22	4869.60	-316.37	1312.86	168.93	157.21	60.49	2.62	PASS	
5216.00†	4904.27	-325.96	1498.89	5222.15	4962.45	-324.94	1348.79	168.93	160.98	61.92	2.62	PASS	
5316.00†	4995.76	-334.53	1538.33	5322.08	5055.30	-333.50	1384.73	168.92	164.74	63.35	2.62	PASS	
5416.00†	5087.25	-343.11	1577.78	5422.00	5148.15	-342.07	1420.66	168.92	168.51	64.79	2.62	PASS	
5516.00†	5178.74	-351.69	1617.22	5521.93	5241.00	-350.64	1456.59	168.91	172.28	66.22	2.62	PASS	
5616.00†	5270.23	-360.27	1656.67	5621.86	5333.85	-359.21	1492.53	168.91	176.04	67.66	2.62	PASS	
5716.00†	5361.72	-368.85	1696.11	5721.79	5426.70	-367.77	1528.46	168.91	179.81	69.10	2.62	PASS	
5816.00†	5453.21	-377.42	1735.55	5821.72	5519.55	-376.34	1564.39	168.90	183.57	70.55	2.62	PASS	
5916.00†	5544.70	-386.00	1775.00	5921.65	5612.40	-384.91	1600.33	168.90	187.34	71.99	2.62	PASS	
6016.00†	5636.20	-394.58	1814.44	6021.58	5705.25	-393.48	1636.26	168.89	191.10	73.44	2.62	PASS	
6116.00†	5727.69	-403.16	1853.89	6121.51	5798.10	-402.04	1672.19	168.89	194.87	74.88	2.62	PASS	
6216.00†	5819.18	-411.73	1893.33	6221.44	5890.96	-410.61	1708.13	168.89	198.63	76.33	2.62	PASS	
6316.00†	5910.67	-420.31	1932.78	6321.37	5983.81	-419.18	1744.06	168.88	202.40	77.78	2.62	PASS	
6416.00†	6002.16	-428.89	1972.22	6421.30	6076.66	-427.75	1779.99	168.88	206.16	79.23	2.62	PASS	
6516.00†	6093.65	-437.47	2011.66	6521.22	6169.51	-436.31	1815.93	168.88	209.93	80.68	2.62	PASS	
6616.00†	6185.14	-446.05	2051.11	6621.15	6262.36	-444.88	1851.86	168.88	213.69	82.13	2.62	PASS	
6716.00†	6276.63	-454.62	2090.55	6721.08	6355.21	-453.45	1887.79	168.87	217.46	83.58	2.62	PASS	
6816.00†	6368.12	-463.20	2130.00	6821.01	6448.06	-462.02	1923.73	168.87	221.22	85.04	2.61	PASS	
6916.00†	6459.61	-471.78	2169.44	6920.94	6540.91	-470.58	1959.66	168.87	224.99	86.49	2.61	PASS	
7016.00†	6551.10	-480.36	2208.89	7020.87	6633.76	-479.15	1995.59	168.87	228.75	87.95	2.61	PASS	
7116.00†	6642.59	-488.93	2248.33	7120.80	6726.61	-487.72	2031.53	168.86	232.52	89.40	2.61	PASS	
7216.00†	6734.09	-497.51	2287.77	7220.73	6819.46	-496.29	2067.46	168.86	236.28	90.86	2.61	PASS	
7316.00†	6825.58	-506.09	2327.22	7320.66	6912.31	-504.85	2103.39	168.86	240.05	92.32	2.61	PASS	
7343.82	6851.03	-508.48	2338.19	7348.46	6938.15	-507.24	2113.39	168.86	241.10	92.72	2.61	PASS	
7416.00†	6917.25	-510.13	2366.75	7420.57	7005.28	-510.58	2139.37	-174.71	243.82	94.10	2.60	PASS	
7516.00†	7008.21	-497.44	2405.99	7520.83	7098.18	-500.47	2175.35	-153.99	247.58	95.67	2.60	PASS	
7616.00†	7095.75	-467.75	2443.79	7621.55	7188.41	-472.99	2210.32	-139.16	251.23	96.68	2.61	PASS	
7716.00†	7177.23	-421.95	2478.98	7722.73	7273.13	-428.78	2243.18	-129.61	254.65	97.13	2.63	PASS	
7816.00†	7250.15	-361.43	2510.51	7824.34	7349.58	-369.02	2272.85	-123.52	257.73	97.13	2.67	PASS	
7916.00†	7312.31	-288.03	2537.42	7926.33	7415.21	-295.42	2298.36	-119.59	260.37	96.91	2.70	PASS	
8016.00†	7361.82	-203.99	2558.88	8028.64	7467.79	-210.24	2318.83	-117.07	262.48	96.70	2.73	PASS	
8116.00†	7397.17	-111.86	2574.25	8131.21	7505.50	-116.15	2333.56	-115.52	263.98	96.73	2.74	PASS	
8216.00†	7417.29	-14.43	2583.06	8233.92	7526.99	-16.21	2342.01	-114.71	264.84	97.18	2.74	PASS	
8292.72	7422.00	62.06	2585.19	8312.77	7532.00	62.39	2344.06	-114.52	265.04	97.84	2.72	PASS	
8316.00†	7422.00	85.34	2585.23	8336.05	7532.00	85.67	2344.09	-114.52	265.04	98.10	2.71	PASS	
8416.00†	7422.00	185.34	2585.36	8436.05	7532.00	185.67	2344.23	-114.52	265.04	99.41	2.68	PASS	
8516.00†	7422.00	285.34	2585.50	8536.05	7532.00	285.67	2344.36	-114.52	265.04	101.14	2.63	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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†	7422.00	385.34	2585.63	8636.05	7532.00	385.67	2344.50	-114.52	265.04	103.17	2.58	PASS	
8716.00†	7422.00	485.34	2585.77	8736.05	7532.00	485.67	2344.64	-114.52	265.04	105.28	2.53	PASS	
8816.00†	7422.00	585.34	2585.90	8836.05	7532.00	585.67	2344.77	-114.52	265.03	108.08	2.46	PASS	
8916.00†	7422.00	685.34	2586.04	8936.05	7532.00	685.67	2344.91	-114.52	265.03	110.92	2.40	PASS	
9016.00†	7422.00	785.34	2586.17	9036.05	7532.00	785.67	2345.04	-114.52	265.03	114.00	2.33	PASS	
9116.00†	7422.00	885.34	2586.31	9136.05	7532.00	885.67	2345.18	-114.52	265.03	117.29	2.27	PASS	
9216.00†	7422.00	985.34	2586.44	9236.05	7532.00	985.67	2345.32	-114.52	265.03	120.77	2.20	PASS	
9316.00†	7422.00	1085.34	2586.58	9336.05	7532.00	1085.67	2345.45	-114.52	265.03	124.43	2.14	PASS	
9416.00†	7422.00	1185.34	2586.71	9436.05	7532.00	1185.67	2345.59	-114.52	265.03	128.26	2.07	PASS	
9516.00†	7422.00	1285.34	2586.85	9536.05	7532.00	1285.67	2345.72	-114.52	265.03	132.24	2.01	PASS	
9616.00†	7422.00	1385.34	2586.98	9636.05	7532.00	1385.66	2345.86	-114.52	265.03	136.35	1.95	PASS	
9716.00†	7422.00	1485.34	2587.12	9736.05	7532.00	1485.66	2346.00	-114.52	265.03	140.59	1.89	PASS	
9816.00†	7422.00	1585.34	2587.25	9836.05	7532.00	1585.66	2346.13	-114.52	265.03	144.94	1.83	PASS	
9916.00†	7422.00	1685.34	2587.39	9936.05	7532.00	1685.66	2346.27	-114.52	265.02	149.40	1.78	PASS	
10016.00†	7422.00	1785.34	2587.52	10036.05	7532.00	1785.66	2346.40	-114.52	265.02	153.95	1.72	PASS	
10116.00†	7422.00	1885.34	2587.66	10136.05	7532.00	1885.66	2346.54	-114.52	265.02	158.59	1.67	PASS	
10216.00†	7422.00	1985.34	2587.79	10236.05	7532.00	1985.66	2346.67	-114.52	265.02	163.30	1.63	PASS	
10316.00†	7422.00	2085.34	2587.92	10336.05	7532.00	2085.66	2346.81	-114.52	265.02	168.09	1.58	PASS	
10416.00†	7422.00	2185.34	2588.06	10436.05	7532.00	2185.66	2346.95	-114.52	265.02	172.94	1.53	PASS	
10516.00†	7422.00	2285.34	2588.19	10536.05	7532.00	2285.66	2347.08	-114.52	265.02	177.86	1.49	PASS	
10616.00†	7422.00	2385.34	2588.33	10636.05	7532.00	2385.66	2347.22	-114.52	265.02	182.83	1.45	PASS	
10716.00†	7422.00	2485.34	2588.46	10736.05	7532.00	2485.66	2347.35	-114.52	265.02	187.85	1.41	PASS	
10816.00†	7422.00	2585.34	2588.60	10836.05	7532.00	2585.66	2347.49	-114.52	265.02	192.92	1.38	PASS	
10916.00†	7422.00	2685.34	2588.73	10936.05	7532.00	2685.66	2347.63	-114.52	265.02	198.04	1.34	PASS	
11016.00†	7422.00	2785.34	2588.87	11036.05	7532.00	2785.66	2347.76	-114.52	265.01	203.19	1.31	PASS	
11116.00†	7422.00	2885.34	2589.00	11136.05	7532.00	2885.66	2347.90	-114.52	265.01	208.38	1.27	PASS	
11216.00†	7422.00	2985.34	2589.14	11236.05	7532.00	2985.66	2348.03	-114.52	265.01	213.61	1.24	PASS	
11316.00†	7422.00	3085.34	2589.27	11336.05	7532.00	3085.66	2348.17	-114.52	265.01	218.87	1.21	PASS	
11416.00†	7422.00	3185.34	2589.41	11436.05	7532.00	3185.66	2348.31	-114.52	265.01	224.16	1.18	PASS	
11516.00†	7422.00	3285.34	2589.54	11536.05	7532.00	3285.66	2348.44	-114.52	265.01	229.47	1.16	PASS	
11616.00†	7422.00	3385.34	2589.68	11636.05	7532.00	3385.66	2348.58	-114.52	265.01	234.82	1.13	PASS	
11716.00†	7422.00	3485.34	2589.81	11736.05	7532.00	3485.66	2348.71	-114.52	265.01	240.18	1.10	PASS	
11816.00†	7422.00	3585.34	2589.95	11836.05	7532.00	3585.66	2348.85	-114.53	265.01	245.57	1.08	PASS	
11916.00†	7422.00	3685.34	2590.08	11936.05	7532.00	3685.66	2348.99	-114.53	265.01	250.98	1.06	PASS	
12016.00†	7422.00	3785.33	2590.22	12036.05	7532.00	3785.66	2349.12	-114.53	265.01	256.41	1.03	PASS	
12116.00†	7422.00	3885.33	2590.35	12136.05	7532.00	3885.66	2349.26	-114.53	265.00	261.86	1.01	PASS	
12216.00†	7422.00	3985.33	2590.49	12236.05	7532.00	3985.66	2349.39	-114.53	265.00	267.33	0.99	FAIL	
12316.00†	7422.00	4085.33	2590.62	12336.05	7532.00	4085.66	2349.53	-114.53	265.00	272.81	0.97	FAIL	
12416.00†	7422.00	4185.33	2590.76	12436.05	7532.00	4185.66	2349.67	-114.53	265.00	278.31	0.95	FAIL	
12516.00†	7422.00	4285.33	2590.89	12536.05	7532.00	4285.66	2349.80	-114.53	265.00	283.82	0.93	FAIL	
12616.00†	7422.00	4385.33	2591.03	12636.05	7532.00	4385.66	2349.94	-114.53	265.00	289.35	0.92	FAIL	
12716.00†	7422.00	4485.33	2591.16	12736.05	7532.00	4485.66	2350.07	-114.53	265.00	294.89	0.90	FAIL	
12816.00†	7422.00	4585.33	2591.30	12836.05	7532.00	4585.66	2350.21	-114.53	265.00	300.44	0.88	FAIL	
12916.00†	7422.00	4685.33	2591.43	12936.05	7532.00	4685.66	2350.35	-114.53	265.00	306.00	0.87	FAIL	
13016.00†	7422.00	4785.33	2591.57	13036.05	7532.00	4785.66	2350.48	-114.53	265.00	311.57	0.85	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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†	7422.00	4885.33	2591.70	13136.05	7532.00	4885.66	2350.62	-114.53	264.99	317.16	0.84	FAIL	
13216.00†	7422.00	4985.33	2591.84	13236.05	7532.00	4985.66	2350.75	-114.53	264.99	322.75	0.82	FAIL	
13316.00†	7422.00	5085.33	2591.97	13336.05	7532.00	5085.66	2350.89	-114.53	264.99	328.36	0.81	FAIL	
13416.00†	7422.00	5185.33	2592.11	13436.05	7532.00	5185.66	2351.03	-114.53	264.99	333.97	0.79	FAIL	
13516.00†	7422.00	5285.33	2592.24	13536.05	7532.00	5285.66	2351.16	-114.53	264.99	339.59	0.78	FAIL	
13616.00†	7422.00	5385.33	2592.38	13636.05	7532.00	5385.66	2351.30	-114.53	264.99	345.22	0.77	FAIL	
13716.00†	7422.00	5485.33	2592.51	13736.05	7532.00	5485.66	2351.43	-114.53	264.99	350.85	0.75	FAIL	
13816.00†	7422.00	5585.33	2592.65	13836.05	7532.00	5585.66	2351.57	-114.53	264.99	356.49	0.74	FAIL	
13916.00†	7422.00	5685.33	2592.78	13936.05	7532.00	5685.66	2351.71	-114.53	264.99	362.14	0.73	FAIL	
14016.00†	7422.00	5785.33	2592.92	14036.05	7532.00	5785.66	2351.84	-114.53	264.99	367.80	0.72	FAIL	
14116.00†	7422.00	5885.33	2593.05	14136.05	7532.00	5885.66	2351.98	-114.53	264.99	373.46	0.71	FAIL	
14216.00†	7422.00	5985.33	2593.19	14236.05	7532.00	5985.66	2352.11	-114.53	264.98	379.13	0.70	FAIL	
14316.00†	7422.00	6085.33	2593.32	14336.05	7532.00	6085.66	2352.25	-114.53	264.98	384.81	0.69	FAIL	
14416.00†	7422.00	6185.33	2593.46	14436.05	7532.00	6185.66	2352.39	-114.53	264.98	390.49	0.68	FAIL	
14516.00†	7422.00	6285.33	2593.59	14536.05	7532.00	6285.66	2352.52	-114.53	264.98	396.17	0.67	FAIL	
14616.00†	7422.00	6385.33	2593.73	14636.05	7532.00	6385.66	2352.66	-114.53	264.98	401.86	0.66	FAIL	
14716.00†	7422.00	6485.33	2593.86	14736.05	7532.00	6485.66	2352.79	-114.53	264.98	407.56	0.65	FAIL	
14816.00†	7422.00	6585.33	2594.00	14836.05	7532.00	6585.66	2352.93	-114.53	264.98	413.26	0.64	FAIL	
14916.00†	7422.00	6685.33	2594.13	14936.05	7532.00	6685.66	2353.07	-114.53	264.98	418.96	0.63	FAIL	
15016.00†	7422.00	6785.33	2594.27	15036.05	7532.00	6785.66	2353.20	-114.53	264.98	424.67	0.62	FAIL	
15116.00†	7422.00	6885.33	2594.40	15136.05	7532.00	6885.66	2353.34	-114.53	264.98	430.38	0.62	FAIL	
15216.00†	7422.00	6985.33	2594.54	15236.05	7532.00	6985.66	2353.47	-114.53	264.98	436.10	0.61	FAIL	
15316.00†	7422.00	7085.33	2594.67	15336.05	7532.00	7085.66	2353.61	-114.53	264.97	441.82	0.60	FAIL	
15416.00†	7422.00	7185.33	2594.81	15436.05	7532.00	7185.66	2353.74	-114.53	264.97	447.54	0.59	FAIL	
15516.00†	7422.00	7285.33	2594.94	15536.05	7532.00	7285.66	2353.88	-114.53	264.97	453.27	0.58	FAIL	
15616.00†	7422.00	7385.33	2595.08	15636.05	7532.00	7385.66	2354.02	-114.53	264.97	459.00	0.58	FAIL	
15716.00†	7422.00	7485.33	2595.21	15736.05	7532.00	7485.66	2354.15	-114.53	264.97	464.73	0.57	FAIL	
15816.00†	7422.00	7585.33	2595.35	15836.05	7532.00	7585.66	2354.29	-114.53	264.97	470.47	0.56	FAIL	
15916.00†	7422.00	7685.33	2595.48	15936.05	7532.00	7685.66	2354.42	-114.53	264.97	476.21	0.56	FAIL	
16016.00†	7422.00	7785.33	2595.62	16036.05	7532.00	7785.66	2354.56	-114.53	264.97	481.95	0.55	FAIL	
16116.00†	7422.00	7885.33	2595.75	16136.05	7532.00	7885.66	2354.70	-114.53	264.97	487.70	0.54	FAIL	
16216.00†	7422.00	7985.33	2595.89	16236.05	7532.00	7985.66	2354.83	-114.53	264.97	493.45	0.54	FAIL	
16316.00†	7422.00	8085.33	2596.02	16336.05	7532.00	8085.66	2354.97	-114.53	264.97	499.20	0.53	FAIL	
16416.00†	7422.00	8185.33	2596.16	16436.05	7532.00	8185.66	2355.10	-114.53	264.96	504.95	0.52	FAIL	
16516.00†	7422.00	8285.33	2596.29	16536.05	7532.00	8285.66	2355.24	-114.53	264.96	510.71	0.52	FAIL	
16616.00†	7422.00	8385.33	2596.43	16636.05	7532.00	8385.66	2355.38	-114.53	264.96	516.46	0.51	FAIL	
16716.00†	7422.00	8485.33	2596.56	16736.05	7532.00	8485.66	2355.51	-114.53	264.96	522.22	0.51	FAIL	
16816.00†	7422.00	8585.33	2596.70	16836.05	7532.00	8585.66	2355.65	-114.53	264.96	527.99	0.50	FAIL	
16916.00†	7422.00	8685.33	2596.83	16936.05	7532.00	8685.66	2355.78	-114.53	264.96	533.75	0.50	FAIL	
17016.00†	7422.00	8785.33	2596.97	17036.05	7532.00	8785.66	2355.92	-114.53	264.96	539.52	0.49	FAIL	
17116.00†	7422.00	8885.33	2597.10	17136.05	7532.00	8885.66	2356.06	-114.53	264.96	545.29	0.49	FAIL	
17216.00†	7422.00	8985.33	2597.24	17236.05	7532.00	8985.66	2356.19	-114.53	264.96	551.06	0.48	FAIL	
17316.00†	7422.00	9085.33	2597.37	17336.05	7532.00	9085.66	2356.33	-114.53	264.96	556.83	0.48	FAIL	
17416.00†	7422.00	9185.33	2597.51	17436.05	7532.00	9185.66	2356.46	-114.53	264.95	562.60	0.47	FAIL	
17516.00†	7422.00	9285.33	2597.64	17536.05	7532.00	9285.66	2356.60	-114.53	264.95	568.38	0.47	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



**Clearance Report**  
**BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP**  
**Closest Approach**  
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**REFERENCE WELLPATH IDENTIFICATION**

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	
17616.00†	7422.00	9385.33	2597.78	17636.05	7532.00	9385.66	2356.74	-114.53	264.95	574.16	0.46	FAIL	
17716.00†	7422.00	9485.33	2597.91	17736.05	7532.00	9485.66	2356.87	-114.53	264.95	579.94	0.46	FAIL	
17816.00†	7422.00	9585.33	2598.05	17836.05	7532.00	9585.66	2357.01	-114.53	264.95	585.72	0.45	FAIL	
17916.00†	7422.00	9685.33	2598.18	17936.05	7532.00	9685.66	2357.14	-114.53	264.95	591.50	0.45	FAIL	
17931.33†	7422.00	9700.66	2598.20	17951.38	7532.00	9700.99	2357.16	-114.53	264.95	592.38	0.45	FAIL	
17935.33	7422.00	9704.65	2598.21	17951.38	7532.00	9700.99	2357.16	-114.53	264.98	590.39	0.45	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	-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	17952.00	17070.00	882.00	N/A	0.00	-8.55	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 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	-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	32.10	PASS
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-30.84	-90.00	30.84	2.47	19.81	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	4.32	8.91	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
1025.00	1025.00	0.00	0.00	1025.00	1025.00	0.00	-30.84	-90.00	30.84	6.43	5.27	PASS
1116.00†	1115.97	-0.46	2.12	1115.97	1115.97	0.00	-30.84	168.52	32.96	6.91	5.20	PASS
1216.00†	1215.68	-2.03	9.32	1217.52	1217.48	-0.57	-28.68	169.92	38.07	8.30	4.92	PASS
1316.00†	1314.88	-4.70	21.62	1319.51	1319.17	-2.53	-21.27	170.67	43.17	10.24	4.45	PASS
1416.00†	1413.27	-8.48	38.97	1421.78	1420.58	-5.87	-8.59	170.96	48.20	12.07	4.18	PASS
1516.00†	1510.61	-13.34	61.33	1524.32	1521.42	-10.62	9.37	170.91	53.14	13.73	4.03	PASS
1616.00†	1606.61	-19.28	88.64	1627.13	1621.37	-16.75	32.61	170.62	57.99	15.28	3.93	PASS
1716.00†	1701.02	-26.27	120.82	1730.21	1720.13	-24.27	61.10	170.14	62.74	16.75	3.87	PASS
1816.00†	1793.58	-34.31	157.79	1832.44	1816.46	-33.01	94.18	169.55	67.61	18.09	3.85	PASS
1818.58	1795.94	-34.53	158.80	1835.01	1818.87	-33.23	95.04	169.54	67.77	18.11	3.85	PASS
1916.00†	1885.07	-42.89	197.23	1932.24	1910.06	-41.85	127.66	169.25	73.93	18.94	4.02	PASS
2016.00†	1976.56	-51.47	236.67	2032.04	2003.66	-50.69	161.14	169.00	80.25	19.81	4.16	PASS
2116.00†	2068.05	-60.05	276.12	2131.84	2097.25	-59.53	194.63	168.78	86.57	20.77	4.28	PASS
2216.00†	2159.54	-68.62	315.56	2231.64	2190.85	-68.37	228.11	168.59	92.89	21.80	4.37	PASS
2316.00†	2251.03	-77.20	355.01	2331.44	2284.45	-77.21	261.59	168.43	99.21	22.89	4.44	PASS
2416.00†	2342.53	-85.78	394.45	2431.24	2378.05	-86.05	295.08	168.29	105.53	24.02	4.50	PASS
2516.00†	2434.02	-94.36	433.89	2531.04	2471.65	-94.89	328.56	168.16	111.85	25.20	4.54	PASS
2616.00†	2525.51	-102.94	473.34	2630.84	2565.25	-103.73	362.05	168.05	118.18	26.41	4.57	PASS
2716.00†	2617.00	-111.51	512.78	2730.64	2658.84	-112.57	395.53	167.95	124.50	27.65	4.60	PASS
2816.00†	2708.49	-120.09	552.23	2830.44	2752.44	-121.41	429.01	167.85	130.83	28.91	4.61	PASS
2916.00†	2799.98	-128.67	591.67	2930.24	2846.04	-130.25	462.50	167.77	137.15	30.20	4.63	PASS
3016.00†	2891.47	-137.25	631.12	3030.04	2939.64	-139.09	495.98	167.69	143.47	31.52	4.63	PASS
3116.00†	2982.96	-145.82	670.56	3129.83	3033.24	-147.93	529.47	167.62	149.80	32.84	4.64	PASS
3216.00†	3074.45	-154.40	710.00	3229.63	3126.84	-156.77	562.95	167.56	156.12	34.19	4.64	PASS
3316.00†	3165.94	-162.98	749.45	3329.43	3220.43	-165.61	596.43	167.50	162.45	35.55	4.64	PASS
3416.00†	3257.43	-171.56	788.89	3429.23	3314.03	-174.45	629.92	167.45	168.77	36.92	4.64	PASS
3516.00†	3348.92	-180.14	828.34	3529.03	3407.63	-183.29	663.40	167.40	175.10	38.30	4.64	PASS
3616.00†	3440.42	-188.71	867.78	3628.83	3501.23	-192.13	696.89	167.35	181.43	39.69	4.64	PASS
3716.00†	3531.91	-197.29	907.23	3728.63	3594.83	-200.97	730.37	167.30	187.75	41.09	4.63	PASS
3816.00†	3623.40	-205.87	946.67	3828.43	3688.43	-209.81	763.85	167.26	194.08	42.50	4.63	PASS
3916.00†	3714.89	-214.45	986.11	3928.23	3782.02	-218.65	797.34	167.23	200.40	43.92	4.62	PASS
4016.00†	3806.38	-223.02	1025.56	4028.03	3875.62	-227.49	830.82	167.19	206.73	45.34	4.62	PASS
4116.00†	3897.87	-231.60	1065.00	4127.83	3969.22	-236.33	864.31	167.15	213.06	46.77	4.61	PASS
4216.00†	3989.36	-240.18	1104.45	4227.63	4062.82	-245.17	897.79	167.12	219.38	48.20	4.60	PASS

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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†	4080.85	-248.76	1143.89	4327.43	4156.42	-254.01	931.27	167.09	225.71	49.64	4.60	PASS	
4416.00†	4172.34	-257.33	1183.34	4427.23	4250.01	-262.86	964.76	167.06	232.03	51.09	4.59	PASS	
4516.00†	4263.83	-265.91	1222.78	4527.03	4343.61	-271.70	998.24	167.04	238.36	52.53	4.59	PASS	
4616.00†	4355.32	-274.49	1262.22	4626.83	4437.21	-280.54	1031.72	167.01	244.69	53.98	4.58	PASS	
4716.00†	4446.81	-283.07	1301.67	4726.63	4530.81	-289.38	1065.21	166.99	251.01	55.44	4.57	PASS	
4816.00†	4538.31	-291.65	1341.11	4826.43	4624.41	-298.22	1098.69	166.96	257.34	56.90	4.57	PASS	
4916.00†	4629.80	-300.22	1380.56	4926.23	4718.01	-307.06	1132.18	166.94	263.67	58.36	4.56	PASS	
5016.00†	4721.29	-308.80	1420.00	5026.03	4811.60	-315.90	1165.66	166.92	269.99	59.82	4.56	PASS	
5116.00†	4812.78	-317.38	1459.44	5125.83	4905.20	-324.74	1199.14	166.90	276.32	61.29	4.55	PASS	
5216.00†	4904.27	-325.96	1498.89	5225.63	4998.80	-333.58	1232.63	166.88	282.65	62.76	4.54	PASS	
5316.00†	4995.76	-334.53	1538.33	5325.43	5092.40	-342.42	1266.11	166.86	288.97	64.23	4.54	PASS	
5416.00†	5087.25	-343.11	1577.78	5425.23	5186.00	-351.26	1299.60	166.85	295.30	65.70	4.53	PASS	
5516.00†	5178.74	-351.69	1617.22	5525.03	5279.60	-360.10	1333.08	166.83	301.63	67.18	4.53	PASS	
5616.00†	5270.23	-360.27	1656.67	5624.83	5373.19	-368.94	1366.56	166.81	307.95	68.66	4.52	PASS	
5716.00†	5361.72	-368.85	1696.11	5724.63	5466.79	-377.78	1400.05	166.80	314.28	70.13	4.52	PASS	
5816.00†	5453.21	-377.42	1735.55	5824.42	5560.39	-386.62	1433.53	166.78	320.61	71.61	4.51	PASS	
5916.00†	5544.70	-386.00	1775.00	5924.22	5653.99	-395.46	1467.02	166.77	326.93	73.10	4.51	PASS	
6016.00†	5636.20	-394.58	1814.44	6024.02	5747.59	-404.30	1500.50	166.75	333.26	74.58	4.50	PASS	
6116.00†	5727.69	-403.16	1853.89	6123.82	5841.19	-413.14	1533.98	166.74	339.59	76.06	4.50	PASS	
6216.00†	5819.18	-411.73	1893.33	6223.62	5934.78	-421.98	1567.47	166.73	345.92	77.55	4.49	PASS	
6316.00†	5910.67	-420.31	1932.78	6323.42	6028.38	-430.82	1600.95	166.72	352.24	79.04	4.49	PASS	
6416.00†	6002.16	-428.89	1972.22	6423.22	6121.98	-439.66	1634.44	166.70	358.57	80.53	4.48	PASS	
6516.00†	6093.65	-437.47	2011.66	6523.02	6215.58	-448.50	1667.92	166.69	364.90	82.02	4.48	PASS	
6616.00†	6185.14	-446.05	2051.11	6622.82	6309.18	-457.34	1701.40	166.68	371.22	83.51	4.47	PASS	
6716.00†	6276.63	-454.62	2090.55	6722.62	6402.78	-466.18	1734.89	166.67	377.55	85.00	4.47	PASS	
6816.00†	6368.12	-463.20	2130.00	6822.42	6496.37	-475.02	1768.37	166.66	383.88	86.49	4.47	PASS	
6916.00†	6459.61	-471.78	2169.44	6922.22	6589.97	-483.86	1801.85	166.65	390.20	87.98	4.46	PASS	
7016.00†	6551.10	-480.36	2208.89	7022.02	6683.57	-492.70	1835.34	166.64	396.53	89.48	4.46	PASS	
7116.00†	6642.59	-488.93	2248.33	7121.82	6777.17	-501.54	1868.82	166.63	402.86	90.97	4.46	PASS	
7216.00†	6734.09	-497.51	2287.77	7221.62	6871.29	-509.98	1902.49	166.62	409.17	92.38	4.46	PASS	
7316.00†	6825.58	-506.09	2327.22	7321.49	6965.57	-518.42	1936.24	166.61	415.29	93.76	4.45	PASS	
7343.82	6851.03	-508.48	2338.19	7349.37	6990.60	-520.13	1945.20	169.29	417.09	91.18	4.60	PASS	
7416.00†	6917.25	-510.13	2366.75	7417.29	7052.78	-486.52	1967.48	-171.30	422.31	89.84	4.73	PASS	
7516.00†	7008.21	-497.44	2405.99	7508.38	7132.62	-453.53	1996.09	-146.61	430.61	88.82	4.88	PASS	
7616.00†	7095.75	-467.75	2443.79	7596.53	7204.25	-409.21	2021.79	-128.19	439.63	88.66	4.99	PASS	
7716.00†	7177.23	-421.95	2478.98	7682.27	7266.99	-355.41	2044.31	-115.47	448.80	88.93	5.08	PASS	
7816.00†	7250.15	-361.43	2510.51	7766.07	7320.33	-293.79	2063.49	-106.67	457.53	89.27	5.16	PASS	
7916.00†	7312.31	-288.03	2537.42	7848.35	7363.93	-225.89	2079.18	-100.54	465.30	89.51	5.23	PASS	
8016.00†	7361.82	-203.99	2558.88	7929.47	7397.52	-153.12	2091.30	-96.32	471.69	89.68	5.29	PASS	
8116.00†	7397.17	-111.86	2574.25	8009.77	7420.91	-76.85	2099.78	-93.60	476.35	89.93	5.33	PASS	
8216.00†	7417.29	-14.43	2583.06	8089.55	7434.00	1.64	2104.57	-92.13	479.05	90.47	5.33	PASS	
8292.72	7422.00	62.06	2585.19	8150.74	7437.00	62.72	2105.73	-91.79	479.70	91.08	5.30	PASS	
8316.00†	7422.00	85.34	2585.23	8174.02	7437.00	85.99	2105.76	-91.79	479.70	91.23	5.29	PASS	
8416.00†	7422.00	185.34	2585.36	8274.02	7437.00	185.99	2105.90	-91.79	479.70	92.17	5.24	PASS	
8516.00†	7422.00	285.34	2585.50	8374.02	7437.00	285.99	2106.03	-91.79	479.70	93.62	5.16	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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†	7422.00	385.34	2585.63	8474.02	7437.00	385.99	2106.17	-91.79	479.69	95.49	5.05	PASS	
8716.00†	7422.00	485.34	2585.77	8574.02	7437.00	485.99	2106.31	-91.79	479.69	97.74	4.94	PASS	
8816.00†	7422.00	585.34	2585.90	8674.02	7437.00	585.99	2106.45	-91.79	479.69	103.35	4.67	PASS	
8916.00†	7422.00	685.34	2586.04	8774.02	7437.00	685.99	2106.58	-91.79	479.69	103.27	4.67	PASS	
9016.00†	7422.00	785.34	2586.17	8874.02	7437.00	785.99	2106.72	-91.79	479.69	106.50	4.53	PASS	
9116.00†	7422.00	885.34	2586.31	8974.02	7437.00	885.99	2106.86	-91.79	479.68	110.00	4.38	PASS	
9216.00†	7422.00	985.34	2586.44	9074.02	7437.00	985.99	2106.99	-91.79	479.68	113.75	4.24	PASS	
9316.00†	7422.00	1085.34	2586.58	9174.02	7437.00	1085.99	2107.13	-91.79	479.68	117.72	4.09	PASS	
9416.00†	7422.00	1185.34	2586.71	9274.02	7437.00	1185.99	2107.27	-91.79	479.68	121.90	3.95	PASS	
9516.00†	7422.00	1285.34	2586.85	9374.02	7437.00	1285.99	2107.40	-91.79	479.68	126.26	3.82	PASS	
9616.00†	7422.00	1385.34	2586.98	9474.02	7437.00	1385.99	2107.54	-91.79	479.67	130.78	3.68	PASS	
9716.00†	7422.00	1485.34	2587.12	9574.02	7437.00	1485.99	2107.68	-91.79	479.67	135.45	3.55	PASS	
9816.00†	7422.00	1585.34	2587.25	9674.02	7437.00	1585.99	2107.81	-91.79	479.67	140.25	3.43	PASS	
9916.00†	7422.00	1685.34	2587.39	9774.02	7437.00	1685.99	2107.95	-91.79	479.67	145.17	3.32	PASS	
10016.00†	7422.00	1785.34	2587.52	9874.02	7437.00	1785.99	2108.09	-91.79	479.67	150.20	3.20	PASS	
10116.00†	7422.00	1885.34	2587.66	9974.02	7437.00	1885.99	2108.23	-91.79	479.66	155.32	3.10	PASS	
10216.00†	7422.00	1985.34	2587.79	10074.02	7437.00	1985.99	2108.36	-91.79	479.66	160.54	3.00	PASS	
10316.00†	7422.00	2085.34	2587.92	10174.02	7437.00	2085.99	2108.50	-91.79	479.66	165.83	2.90	PASS	
10416.00†	7422.00	2185.34	2588.06	10274.02	7437.00	2185.99	2108.64	-91.79	479.66	171.19	2.81	PASS	
10516.00†	7422.00	2285.34	2588.19	10374.02	7437.00	2285.99	2108.77	-91.79	479.66	176.62	2.72	PASS	
10616.00†	7422.00	2385.34	2588.33	10474.02	7437.00	2385.99	2108.91	-91.79	479.65	182.11	2.64	PASS	
10716.00†	7422.00	2485.34	2588.46	10574.02	7437.00	2485.99	2109.05	-91.79	479.65	187.66	2.56	PASS	
10816.00†	7422.00	2585.34	2588.60	10674.02	7437.00	2585.99	2109.18	-91.79	479.65	193.25	2.49	PASS	
10916.00†	7422.00	2685.34	2588.73	10774.02	7437.00	2685.99	2109.32	-91.79	479.65	198.89	2.42	PASS	
11016.00†	7422.00	2785.34	2588.87	10874.02	7437.00	2785.99	2109.46	-91.79	479.65	204.57	2.35	PASS	
11116.00†	7422.00	2885.34	2589.00	10974.02	7437.00	2885.99	2109.59	-91.79	479.64	210.29	2.29	PASS	
11216.00†	7422.00	2985.34	2589.14	11074.02	7437.00	2985.99	2109.73	-91.79	479.64	216.04	2.22	PASS	
11316.00†	7422.00	3085.34	2589.27	11174.02	7437.00	3085.99	2109.87	-91.79	479.64	221.83	2.17	PASS	
11416.00†	7422.00	3185.34	2589.41	11274.02	7437.00	3185.99	2110.01	-91.79	479.64	227.64	2.11	PASS	
11516.00†	7422.00	3285.34	2589.54	11374.02	7437.00	3285.99	2110.14	-91.79	479.64	233.49	2.06	PASS	
11616.00†	7422.00	3385.34	2589.68	11474.02	7437.00	3385.99	2110.28	-91.79	479.63	239.36	2.01	PASS	
11716.00†	7422.00	3485.34	2589.81	11574.02	7437.00	3485.99	2110.42	-91.79	479.63	245.25	1.96	PASS	
11816.00†	7422.00	3585.34	2589.95	11674.02	7437.00	3585.99	2110.55	-91.79	479.63	251.17	1.91	PASS	
11916.00†	7422.00	3685.34	2590.08	11774.02	7437.00	3685.99	2110.69	-91.79	479.63	257.10	1.87	PASS	
12016.00†	7422.00	3785.33	2590.22	11874.02	7437.00	3785.99	2110.83	-91.79	479.63	263.06	1.83	PASS	
12116.00†	7422.00	3885.33	2590.35	11974.02	7437.00	3885.99	2110.96	-91.79	479.62	269.03	1.78	PASS	
12216.00†	7422.00	3985.33	2590.49	12074.02	7437.00	3985.99	2111.10	-91.79	479.62	275.02	1.75	PASS	
12316.00†	7422.00	4085.33	2590.62	12174.02	7437.00	4085.99	2111.24	-91.79	479.62	281.03	1.71	PASS	
12416.00†	7422.00	4185.33	2590.76	12274.02	7437.00	4185.99	2111.37	-91.79	479.62	287.05	1.67	PASS	
12516.00†	7422.00	4285.33	2590.89	12374.02	7437.00	4285.99	2111.51	-91.79	479.62	293.08	1.64	PASS	
12616.00†	7422.00	4385.33	2591.03	12474.02	7437.00	4385.99	2111.65	-91.79	479.62	299.13	1.60	PASS	
12716.00†	7422.00	4485.33	2591.16	12574.02	7437.00	4485.99	2111.79	-91.79	479.61	305.19	1.57	PASS	
12816.00†	7422.00	4585.33	2591.30	12674.02	7437.00	4585.99	2111.92	-91.79	479.61	311.26	1.54	PASS	
12916.00†	7422.00	4685.33	2591.43	12774.02	7437.00	4685.99	2112.06	-91.79	479.61	317.34	1.51	PASS	
13016.00†	7422.00	4785.33	2591.57	12874.02	7437.00	4785.99	2112.20	-91.79	479.61	323.43	1.48	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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†	7422.00	4885.33	2591.70	12974.02	7437.00	4885.99	2112.33	-91.79	479.61	329.53	1.46	PASS	
13216.00†	7422.00	4985.33	2591.84	13074.02	7437.00	4985.99	2112.47	-91.79	479.60	335.64	1.43	PASS	
13316.00†	7422.00	5085.33	2591.97	13174.02	7437.00	5085.99	2112.61	-91.79	479.60	341.76	1.40	PASS	
13416.00†	7422.00	5185.33	2592.11	13274.02	7437.00	5185.99	2112.74	-91.79	479.60	347.89	1.38	PASS	
13516.00†	7422.00	5285.33	2592.24	13374.02	7437.00	5285.99	2112.88	-91.79	479.60	354.03	1.36	PASS	
13616.00†	7422.00	5385.33	2592.38	13474.02	7437.00	5385.99	2113.02	-91.79	479.60	360.17	1.33	PASS	
13716.00†	7422.00	5485.33	2592.51	13574.02	7437.00	5485.99	2113.15	-91.79	479.59	366.32	1.31	PASS	
13816.00†	7422.00	5585.33	2592.65	13674.02	7437.00	5585.99	2113.29	-91.79	479.59	372.47	1.29	PASS	
13916.00†	7422.00	5685.33	2592.78	13774.02	7437.00	5685.99	2113.43	-91.79	479.59	378.64	1.27	PASS	
14016.00†	7422.00	5785.33	2592.92	13874.02	7437.00	5785.99	2113.57	-91.79	479.59	384.80	1.25	PASS	
14116.00†	7422.00	5885.33	2593.05	13974.02	7437.00	5885.99	2113.70	-91.79	479.59	390.98	1.23	PASS	
14216.00†	7422.00	5985.33	2593.19	14074.02	7437.00	5985.99	2113.84	-91.79	479.59	397.16	1.21	PASS	
14316.00†	7422.00	6085.33	2593.32	14174.02	7437.00	6085.99	2113.98	-91.79	479.58	403.34	1.19	PASS	
14416.00†	7422.00	6185.33	2593.46	14274.02	7437.00	6185.99	2114.11	-91.79	479.58	409.53	1.17	PASS	
14516.00†	7422.00	6285.33	2593.59	14374.02	7437.00	6285.99	2114.25	-91.79	479.58	415.73	1.15	PASS	
14616.00†	7422.00	6385.33	2593.73	14474.02	7437.00	6385.99	2114.39	-91.79	479.58	421.92	1.14	PASS	
14716.00†	7422.00	6485.33	2593.86	14574.02	7437.00	6485.99	2114.52	-91.79	479.57	428.13	1.12	PASS	
14816.00†	7422.00	6585.33	2594.00	14674.02	7437.00	6585.99	2114.66	-91.79	479.57	434.34	1.10	PASS	
14916.00†	7422.00	6685.33	2594.13	14774.02	7437.00	6685.99	2114.80	-91.79	479.57	440.55	1.09	PASS	
15016.00†	7422.00	6785.33	2594.27	14874.02	7437.00	6785.99	2114.93	-91.79	479.57	446.76	1.07	PASS	
15116.00†	7422.00	6885.33	2594.40	14974.02	7437.00	6885.99	2115.07	-91.79	479.57	452.98	1.06	PASS	
15216.00†	7422.00	6985.33	2594.54	15074.02	7437.00	6985.99	2115.21	-91.79	479.56	459.20	1.04	PASS	
15316.00†	7422.00	7085.33	2594.67	15174.02	7437.00	7085.99	2115.35	-91.79	479.56	465.43	1.03	PASS	
15416.00†	7422.00	7185.33	2594.81	15274.02	7437.00	7185.99	2115.48	-91.79	479.56	471.66	1.02	PASS	
15516.00†	7422.00	7285.33	2594.94	15374.02	7437.00	7285.99	2115.62	-91.79	479.56	477.89	1.00	PASS	
15616.00†	7422.00	7385.33	2595.08	15474.02	7437.00	7385.99	2115.76	-91.79	479.56	484.12	0.99	FAIL	
15716.00†	7422.00	7485.33	2595.21	15574.02	7437.00	7485.99	2115.89	-91.79	479.55	490.36	0.98	FAIL	
15816.00†	7422.00	7585.33	2595.35	15674.02	7437.00	7585.99	2116.03	-91.79	479.55	496.60	0.97	FAIL	
15916.00†	7422.00	7685.33	2595.48	15774.02	7437.00	7685.99	2116.17	-91.79	479.55	502.85	0.95	FAIL	
16016.00†	7422.00	7785.33	2595.62	15874.02	7437.00	7785.99	2116.30	-91.79	479.55	509.09	0.94	FAIL	
16116.00†	7422.00	7885.33	2595.75	15974.02	7437.00	7885.99	2116.44	-91.79	479.55	515.34	0.93	FAIL	
16216.00†	7422.00	7985.33	2595.89	16074.02	7437.00	7985.99	2116.58	-91.79	479.54	521.59	0.92	FAIL	
16316.00†	7422.00	8085.33	2596.02	16174.02	7437.00	8085.99	2116.71	-91.79	479.54	527.84	0.91	FAIL	
16416.00†	7422.00	8185.33	2596.16	16274.02	7437.00	8185.99	2116.85	-91.79	479.54	534.10	0.90	FAIL	
16516.00†	7422.00	8285.33	2596.29	16374.02	7437.00	8285.99	2116.99	-91.79	479.54	540.36	0.89	FAIL	
16616.00†	7422.00	8385.33	2596.43	16474.02	7437.00	8385.99	2117.13	-91.79	479.54	546.62	0.88	FAIL	
16716.00†	7422.00	8485.33	2596.56	16574.02	7437.00	8485.99	2117.26	-91.79	479.53	552.88	0.87	FAIL	
16816.00†	7422.00	8585.33	2596.70	16674.02	7437.00	8585.99	2117.40	-91.79	479.53	559.14	0.86	FAIL	
16916.00†	7422.00	8685.33	2596.83	16774.02	7437.00	8685.99	2117.54	-91.79	479.53	565.41	0.85	FAIL	
17016.00†	7422.00	8785.33	2596.97	16874.02	7437.00	8785.99	2117.67	-91.79	479.53	571.67	0.84	FAIL	
17116.00†	7422.00	8885.33	2597.10	16974.02	7437.00	8885.99	2117.81	-91.79	479.53	577.94	0.83	FAIL	
17216.00†	7422.00	8985.33	2597.24	17074.02	7437.00	8985.99	2117.95	-91.79	479.52	584.21	0.82	FAIL	
17316.00†	7422.00	9085.33	2597.37	17174.02	7437.00	9085.99	2118.08	-91.79	479.52	590.48	0.81	FAIL	
17416.00†	7422.00	9185.33	2597.51	17274.02	7437.00	9185.99	2118.22	-91.79	479.52	596.76	0.80	FAIL	
17516.00†	7422.00	9285.33	2597.64	17374.02	7437.00	9285.99	2118.36	-91.79	479.52	603.03	0.79	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	
17616.00†	7422.00	9385.33	2597.78	17474.02	7437.00	9385.99	2118.49	-91.79	479.52	609.31	0.79	FAIL	
17716.00†	7422.00	9485.33	2597.91	17574.02	7437.00	9485.99	2118.63	-91.79	479.51	615.59	0.78	FAIL	
17816.00†	7422.00	9585.33	2598.05	17674.02	7437.00	9585.99	2118.77	-91.79	479.51	621.87	0.77	FAIL	
17916.00†	7422.00	9685.33	2598.18	17774.02	7437.00	9685.99	2118.91	-91.79	479.51	628.14	0.76	FAIL	
17930.98†	7422.00	9700.31	2598.20	17789.00	7437.00	9700.97	2118.93	-91.79	479.51	629.08	0.76	FAIL	
17935.33	7422.00	9704.65	2598.21	17789.00	7437.00	9700.97	2118.93	-91.79	479.53	627.99	0.76	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	-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	17790.00	16908.00	882.00	N/A	0.00	-18.80	N/A	N/A

## SURVEY PROGRAM - Offset Wellbore: 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 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	9172.37	2365.62	14.46	9472.52	25.57	384.99	PASS	
116.00†	116.00	0.00	0.00	71.47	101.47	9172.43	2365.64	14.46	9472.58	50.13	192.48	PASS	
216.00†	216.00	0.00	0.00	243.69	273.69	9172.00	2365.51	14.46	9472.31	49.97	192.42	PASS	
316.00†	316.00	0.00	0.00	380.74	410.73	9171.18	2364.86	14.46	9471.65	50.00	192.32	PASS	
416.00†	416.00	0.00	0.00	538.70	568.68	9169.36	2363.48	14.45	9470.29	50.04	192.13	PASS	
516.00†	516.00	0.00	0.00	704.13	734.07	9166.62	2361.33	14.45	9468.39	50.10	191.86	PASS	
616.00†	616.00	0.00	0.00	777.84	807.76	9165.28	2360.17	14.44	9466.23	50.15	191.62	PASS	
716.00†	716.00	0.00	0.00	875.98	905.87	9163.63	2358.78	14.44	9464.25	50.21	191.33	PASS	
816.00†	816.00	0.00	0.00	970.29	1000.16	9162.06	2357.32	14.43	9462.26	50.29	191.00	PASS	
916.00†	916.00	0.00	0.00	1070.79	1100.63	9160.48	2355.67	14.42	9460.33	50.14	190.71	PASS	
1016.00†	1016.00	0.00	0.00	1156.08	1185.91	9159.11	2354.48	14.42	9458.42	50.20	190.46	PASS	
1025.00	1025.00	0.00	0.00	1163.06	1192.89	9159.01	2354.39	14.42	9458.26	50.21	190.43	PASS	
1116.00†	1115.97	-0.46	2.12	1229.43	1259.24	9158.08	2353.57	-87.91	9456.67	50.26	190.18	PASS	
1216.00†	1215.68	-2.03	9.32	1297.11	1326.91	9157.34	2352.77	-88.00	9455.06	50.34	189.85	PASS	
1316.00†	1314.88	-4.70	21.62	1381.83	1411.63	9156.65	2351.75	-88.11	9453.52	50.44	189.43	PASS	
1416.00†	1413.27	-8.48	38.97	1474.72	1504.51	9156.02	2350.51	-88.26	9451.95	50.58	188.88	PASS	
1516.00†	1510.61	-13.34	61.33	1571.17	1600.95	9155.40	2349.18	-88.46	9450.30	50.76	188.17	PASS	
1616.00†	1606.61	-19.28	88.64	1665.97	1695.73	9154.78	2347.94	-88.67	9448.58	51.00	187.23	PASS	
1716.00†	1701.02	-26.27	120.82	1751.56	1781.31	9154.25	2346.79	-88.90	9446.88	51.32	186.02	PASS	
1816.00†	1793.58	-34.31	157.79	1839.05	1868.79	9153.82	2345.60	-89.15	9445.32	51.76	184.39	PASS	
1818.58	1795.94	-34.53	158.80	1841.58	1871.32	9153.81	2345.57	-89.16	9445.28	51.78	184.34	PASS	
1916.00†	1885.07	-42.89	197.23	1935.14	1964.88	9153.26	2344.50	-89.40	9443.86	52.33	182.36	PASS	
2016.00†	1976.56	-51.47	236.67	2026.98	2056.71	9152.65	2343.71	-89.62	9442.55	53.00	180.00	PASS	
2116.00†	2068.05	-60.05	276.12	2115.61	2145.34	9152.06	2342.91	-89.85	9441.43	53.75	177.42	PASS	
2216.00†	2159.54	-68.62	315.56	2198.95	2228.67	9151.58	2342.13	-90.05	9440.54	54.59	174.66	PASS	
2316.00†	2251.03	-77.20	355.01	2289.69	2319.41	9151.09	2341.25	-90.28	9439.88	55.50	171.74	PASS	
2416.00†	2342.53	-85.78	394.45	2438.63	2468.33	9149.84	2339.48	-90.65	9439.04	56.55	168.51	PASS	
2516.00†	2434.02	-94.36	433.89	2525.18	2554.87	9148.86	2338.43	-90.87	9438.17	57.61	165.37	PASS	
2616.00†	2525.51	-102.94	473.34	2591.65	2621.33	9148.25	2337.64	-91.04	9437.64	58.70	162.26	PASS	
2716.00†	2617.00	-111.51	512.78	2659.91	2689.59	9147.79	2336.81	-91.21	9437.53	59.84	159.14	PASS	
2816.00†	2708.49	-120.09	552.23	2740.38	2770.05	9147.44	2335.79	-91.41	9437.80	61.04	156.00	PASS	
2916.00†	2799.98	-128.67	591.67	2832.59	2862.25	9147.01	2334.74	-91.64	9438.24	62.29	152.84	PASS	
3016.00†	2891.47	-137.25	631.12	2914.92	2944.57	9146.65	2333.91	-91.85	9438.91	63.57	149.75	PASS	
3116.00†	2982.96	-145.82	670.56	2990.68	3020.33	9146.42	2333.10	-92.04	9439.88	64.87	146.73	PASS	
3216.00†	3074.45	-154.40	710.00	3079.68	3109.33	9146.24	2332.22	-92.26	9441.12	66.22	143.74	PASS	
3316.00†	3165.94	-162.98	749.45	3174.44	3204.08	9146.00	2331.47	-92.49	9442.53	67.60	140.79	PASS	
3416.00†	3257.43	-171.56	788.89	3255.92	3285.56	9145.82	2330.71	-92.70	9444.13	69.00	137.95	PASS	
3516.00†	3348.92	-180.14	828.34	3347.80	3377.43	9145.69	2330.08	-92.93	9446.01	70.43	135.16	PASS	
3616.00†	3440.42	-188.71	867.78	3445.72	3475.35	9145.45	2329.27	-93.17	9447.95	71.88	132.43	PASS	
3716.00†	3531.91	-197.29	907.23	3536.19	3565.81	9145.26	2328.45	-93.40	9450.09	73.35	129.78	PASS	
3816.00†	3623.40	-205.87	946.67	3629.27	3658.90	9145.02	2327.60	-93.63	9452.37	74.84	127.21	PASS	
3916.00†	3714.89	-214.45	986.11	3724.32	3753.94	9144.82	2326.78	-93.86	9454.88	76.35	124.72	PASS	
4016.00†	3806.38	-223.02	1025.56	3836.30	3865.91	9144.26	2325.47	-94.14	9457.24	77.90	122.25	PASS	
4116.00†	3897.87	-231.60	1065.00	3895.92	3925.52	9144.08	2324.80	-94.29	9459.98	79.39	119.97	PASS	
4216.00†	3989.36	-240.18	1104.45	4013.26	4042.86	9143.71	2323.73	-94.58	9462.92	80.97	117.64	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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†	4080.85	-248.76	1143.89	4110.74	4140.33	9143.22	2323.11	-94.82	9465.90	82.56	115.40	PASS	
4416.00†	4172.34	-257.33	1183.34	4230.32	4259.91	9142.25	2322.89	-95.12	9468.82	84.22	113.16	PASS	
4516.00†	4263.83	-265.91	1222.78	4320.57	4350.16	9141.45	2322.81	-95.34	9471.85	85.83	111.04	PASS	
4616.00†	4355.32	-274.49	1262.22	4427.65	4457.23	9140.37	2322.68	-95.60	9474.94	87.49	108.96	PASS	
4716.00†	4446.81	-283.07	1301.67	4527.38	4556.96	9139.25	2322.90	-95.84	9478.14	89.15	106.96	PASS	
4816.00†	4538.31	-291.65	1341.11	4749.84	4779.38	9135.13	2323.93	-96.37	9480.93	91.04	104.76	PASS	
4916.00†	4629.80	-300.22	1380.56	4859.33	4888.82	9132.12	2324.25	-96.63	9482.97	92.73	102.85	PASS	
5016.00†	4721.29	-308.80	1420.00	4963.62	4993.07	9129.19	2324.63	-96.88	9485.14	94.43	101.02	PASS	
5116.00†	4812.78	-317.38	1459.44	5046.41	5075.83	9126.76	2324.94	-97.08	9487.36	96.09	99.29	PASS	
5216.00†	4904.27	-325.96	1498.89	5112.49	5141.88	9125.01	2324.94	-97.24	9489.97	97.72	97.65	PASS	
5316.00†	4995.76	-334.53	1538.33	5174.81	5204.19	9123.55	2324.83	-97.39	9493.02	99.35	96.07	PASS	
5416.00†	5087.25	-343.11	1577.78	5235.15	5264.51	9122.32	2324.70	-97.53	9496.52	100.98	94.54	PASS	
5516.00†	5178.74	-351.69	1617.22	5294.17	5323.53	9121.33	2324.60	-97.68	9500.50	102.61	93.07	PASS	
5616.00†	5270.23	-360.27	1656.67	5363.34	5392.68	9120.37	2324.50	-97.84	9504.92	104.26	91.63	PASS	
5716.00†	5361.72	-368.85	1696.11	5434.11	5463.45	9119.54	2324.40	-98.01	9509.71	105.92	90.24	PASS	
5816.00†	5453.21	-377.42	1735.55	5504.57	5533.91	9118.86	2324.31	-98.18	9514.86	107.58	88.89	PASS	
5916.00†	5544.70	-386.00	1775.00	5564.67	5594.00	9118.45	2324.29	-98.33	9520.44	109.22	87.60	PASS	
6016.00†	5636.20	-394.58	1814.44	5636.88	5666.22	9118.18	2324.37	-98.50	9526.47	110.88	86.34	PASS	
6116.00†	5727.69	-403.16	1853.89	5732.42	5761.75	9117.87	2324.53	-98.73	9532.72	112.59	85.07	PASS	
6216.00†	5819.18	-411.73	1893.33	5839.92	5869.25	9117.38	2324.83	-98.99	9539.01	114.32	83.83	PASS	
6316.00†	5910.67	-420.31	1932.78	5926.44	5955.77	9116.89	2325.06	-99.19	9545.37	116.01	82.66	PASS	
6416.00†	6002.16	-428.89	1972.22	5989.76	6019.09	9116.67	2325.31	-99.34	9552.10	117.63	81.58	PASS	
6516.00†	6093.65	-437.47	2011.66	6039.68	6069.01	9116.67	2325.55	-99.46	9559.33	119.18	80.57	PASS	
6616.00†	6185.14	-446.05	2051.11	6086.96	6116.29	9116.90	2325.77	-99.57	9567.13	120.72	79.60	PASS	
6716.00†	6276.63	-454.62	2090.55	6173.64	6202.97	9117.59	2326.00	-99.78	9575.39	122.25	78.67	PASS	
6816.00†	6368.12	-463.20	2130.00	6331.63	6360.95	9118.15	2326.81	-100.15	9583.38	123.90	77.69	PASS	
6916.00†	6459.61	-471.78	2169.44	6409.64	6438.96	9118.27	2327.45	-100.33	9591.37	125.49	76.76	PASS	
7016.00†	6551.10	-480.36	2208.89	6520.39	6549.71	9118.38	2327.80	-100.60	9599.47	127.11	75.84	PASS	
7116.00†	6642.59	-488.93	2248.33	6614.20	6643.52	9118.37	2328.17	-100.82	9607.63	128.73	74.95	PASS	
7216.00†	6734.09	-497.51	2287.77	6700.27	6729.58	9118.38	2328.75	-101.02	9615.98	130.34	74.08	PASS	
7316.00†	6825.58	-506.09	2327.22	6772.81	6802.12	9118.48	2329.35	-101.19	9624.60	131.92	73.26	PASS	
7343.82	6851.03	-508.48	2338.19	6793.00	6822.31	9118.54	2329.53	-101.23	9627.06	132.36	73.03	PASS	
7416.00†	6917.25	-510.13	2366.75	6916.38	6945.68	9118.54	2331.31	-84.95	9628.77	133.64	72.34	PASS	
7516.00†	7008.21	-497.44	2405.99	7014.02	7043.30	9118.22	2333.06	-64.23	9616.00	135.46	71.27	PASS	
7616.00†	7095.75	-467.75	2443.79	7212.73	7241.98	9116.75	2336.34	-49.72	9586.22	137.58	69.97	PASS	
7716.00†	7177.23	-421.95	2478.98	7269.21	7298.45	9115.98	2337.36	-40.24	9539.74	139.18	68.80	PASS	
7816.00†	7250.15	-361.43	2510.51	7322.95	7352.18	9115.37	2338.09	-34.36	9478.91	140.56	67.70	PASS	
7916.00†	7312.31	-288.03	2537.42	7373.04	7402.26	9114.86	2338.54	-30.87	9405.43	141.65	66.65	PASS	
8016.00†	7361.82	-203.99	2558.88	7419.25	7448.47	9114.45	2338.77	-29.24	9321.44	142.48	65.67	PASS	
8116.00†	7397.17	-111.86	2574.25	7461.70	7490.91	9114.04	2339.02	-29.73	9229.37	143.07	64.75	PASS	
8216.00†	7417.29	-14.43	2583.06	7485.23	7514.44	9113.80	2339.18	-36.05	9132.00	143.41	63.92	PASS	
8292.72	7422.00	62.06	2585.19	7490.03	7519.24	9113.75	2339.22	-110.64	9055.55	143.51	63.33	PASS	
8316.00†	7422.00	85.34	2585.23	7489.73	7518.94	9113.75	2339.22	-110.58	9032.28	143.53	63.17	PASS	
8416.00†	7422.00	185.34	2585.36	7488.45	7517.66	9113.76	2339.21	-110.33	8932.33	143.59	62.44	PASS	
8516.00†	7422.00	285.34	2585.50	7487.17	7516.38	9113.78	2339.20	-110.08	8832.38	143.65	61.71	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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†	7422.00	385.34	2585.63	7485.90	7515.11	9113.79	2339.19	-109.83	8732.43	143.71	60.99	PASS	
8716.00†	7422.00	485.34	2585.77	7484.63	7513.84	9113.80	2339.18	-109.58	8632.48	143.78	60.26	PASS	
8816.00†	7422.00	585.34	2585.90	7483.37	7512.59	9113.82	2339.17	-109.33	8532.53	143.85	59.54	PASS	
8916.00†	7422.00	685.34	2586.04	7482.12	7511.33	9113.83	2339.16	-109.08	8432.58	143.92	58.81	PASS	
9016.00†	7422.00	785.34	2586.17	7480.87	7510.08	9113.84	2339.15	-108.83	8332.63	143.99	58.08	PASS	
9116.00†	7422.00	885.34	2586.31	7479.63	7508.84	9113.86	2339.14	-108.59	8232.69	144.06	57.36	PASS	
9216.00†	7422.00	985.34	2586.44	7478.40	7507.61	9113.87	2339.13	-108.34	8132.74	144.14	56.63	PASS	
9316.00†	7422.00	1085.34	2586.58	7477.16	7506.38	9113.88	2339.13	-108.09	8032.80	144.22	55.90	PASS	
9416.00†	7422.00	1185.34	2586.71	7475.94	7505.15	9113.89	2339.12	-107.85	7932.86	144.30	55.18	PASS	
9516.00†	7422.00	1285.34	2586.85	7474.72	7503.93	9113.91	2339.11	-107.60	7832.92	144.39	54.45	PASS	
9616.00†	7422.00	1385.34	2586.98	7473.51	7502.72	9113.92	2339.10	-107.35	7732.98	144.48	53.72	PASS	
9716.00†	7422.00	1485.34	2587.12	7472.30	7501.51	9113.93	2339.09	-107.11	7633.04	144.57	52.99	PASS	
9816.00†	7422.00	1585.34	2587.25	7471.09	7500.31	9113.94	2339.08	-106.86	7533.10	144.66	52.27	PASS	
9916.00†	7422.00	1685.34	2587.39	7469.90	7499.11	9113.96	2339.07	-106.62	7433.17	144.75	51.54	PASS	
10016.00†	7422.00	1785.34	2587.52	7468.70	7497.92	9113.97	2339.07	-106.38	7333.24	144.85	50.81	PASS	
10116.00†	7422.00	1885.34	2587.66	7467.52	7496.73	9113.98	2339.06	-106.13	7233.30	144.95	50.08	PASS	
10216.00†	7422.00	1985.34	2587.79	7466.34	7495.55	9113.99	2339.05	-105.89	7133.37	145.06	49.36	PASS	
10316.00†	7422.00	2085.34	2587.92	7465.16	7494.37	9114.00	2339.04	-105.65	7033.45	145.17	48.63	PASS	
10416.00†	7422.00	2185.34	2588.06	7463.99	7493.20	9114.02	2339.03	-105.41	6933.52	145.28	47.90	PASS	
10516.00†	7422.00	2285.34	2588.19	7462.82	7492.03	9114.03	2339.03	-105.17	6833.59	145.40	47.17	PASS	
10616.00†	7422.00	2385.34	2588.33	7461.66	7490.87	9114.04	2339.02	-104.93	6733.67	145.52	46.44	PASS	
10716.00†	7422.00	2485.34	2588.46	7460.51	7489.72	9114.05	2339.01	-104.69	6633.75	145.64	45.72	PASS	
10816.00†	7422.00	2585.34	2588.60	7459.35	7488.57	9114.06	2339.00	-104.45	6533.83	145.77	44.99	PASS	
10916.00†	7422.00	2685.34	2588.73	7458.21	7487.42	9114.07	2339.00	-104.21	6433.92	145.90	44.26	PASS	
11016.00†	7422.00	2785.34	2588.87	7457.07	7486.28	9114.09	2338.99	-103.97	6334.01	146.03	43.53	PASS	
11116.00†	7422.00	2885.34	2589.00	7455.93	7485.15	9114.10	2338.98	-103.73	6234.10	146.17	42.80	PASS	
11216.00†	7422.00	2985.34	2589.14	7454.80	7484.02	9114.11	2338.97	-103.49	6134.19	146.32	42.08	PASS	
11316.00†	7422.00	3085.34	2589.27	7453.68	7482.89	9114.12	2338.97	-103.26	6034.28	146.47	41.35	PASS	
11416.00†	7422.00	3185.34	2589.41	7452.56	7481.77	9114.13	2338.96	-103.02	5934.38	146.62	40.62	PASS	
11516.00†	7422.00	3285.34	2589.54	7451.44	7480.65	9114.14	2338.95	-102.79	5834.48	146.78	39.89	PASS	
11616.00†	7422.00	3385.34	2589.68	7450.33	7479.54	9114.15	2338.95	-102.55	5734.59	146.95	39.16	PASS	
11716.00†	7422.00	3485.34	2589.81	7449.22	7478.44	9114.16	2338.94	-102.32	5634.70	147.12	38.44	PASS	
11816.00†	7422.00	3585.34	2589.95	7448.12	7477.33	9114.17	2338.93	-102.08	5534.81	147.30	37.71	PASS	
11916.00†	7422.00	3685.34	2590.08	7447.02	7476.24	9114.18	2338.93	-101.85	5434.93	147.49	36.98	PASS	
12016.00†	7422.00	3785.33	2590.22	7445.93	7475.15	9114.19	2338.92	-101.62	5335.05	147.68	36.26	PASS	
12116.00†	7422.00	3885.33	2590.35	7444.84	7474.06	9114.20	2338.91	-101.39	5235.17	147.88	35.53	PASS	
12216.00†	7422.00	3985.33	2590.49	7443.76	7472.98	9114.22	2338.91	-101.16	5135.30	148.09	34.80	PASS	
12316.00†	7422.00	4085.33	2590.62	7442.68	7471.90	9114.23	2338.90	-100.93	5035.43	148.30	34.07	PASS	
12416.00†	7422.00	4185.33	2590.76	7441.61	7470.82	9114.24	2338.89	-100.70	4935.57	148.53	33.35	PASS	
12516.00†	7422.00	4285.33	2590.89	7440.54	7469.76	9114.25	2338.89	-100.47	4835.72	148.76	32.62	PASS	
12616.00†	7422.00	4385.33	2591.03	7439.48	7468.69	9114.26	2338.88	-100.24	4735.87	149.00	31.90	PASS	
12716.00†	7422.00	4485.33	2591.16	7438.42	7467.63	9114.27	2338.88	-100.01	4636.03	149.26	31.17	PASS	
12816.00†	7422.00	4585.33	2591.30	7437.36	7466.58	9114.28	2338.87	-99.78	4536.19	149.52	30.44	PASS	
12916.00†	7422.00	4685.33	2591.43	7436.31	7465.52	9114.29	2338.86	-99.56	4436.36	149.80	29.72	PASS	
13016.00†	7422.00	4785.33	2591.57	7435.26	7464.48	9114.30	2338.86	-99.33	4336.54	150.09	28.99	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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†	7422.00	4885.33	2591.70	7434.22	7463.44	9114.31	2338.85	-99.11	4236.73	150.39	28.27	PASS	
13216.00†	7422.00	4985.33	2591.84	7433.18	7462.40	9114.32	2338.85	-98.88	4136.92	150.71	27.54	PASS	
13316.00†	7422.00	5085.33	2591.97	7432.15	7461.36	9114.33	2338.84	-98.66	4037.13	151.04	26.82	PASS	
13416.00†	7422.00	5185.33	2592.11	7431.12	7460.34	9114.34	2338.84	-98.43	3937.34	151.39	26.10	PASS	
13516.00†	7422.00	5285.33	2592.24	7430.10	7459.31	9114.35	2338.83	-98.21	3837.57	151.76	25.37	PASS	
13616.00†	7422.00	5385.33	2592.38	7429.08	7458.29	9114.35	2338.82	-97.99	3737.81	152.15	24.65	PASS	
13716.00†	7422.00	5485.33	2592.51	7428.06	7457.27	9114.36	2338.82	-97.77	3638.06	152.56	23.93	PASS	
13816.00†	7422.00	5585.33	2592.65	7427.05	7456.26	9114.37	2338.81	-97.55	3538.32	152.99	23.21	PASS	
13916.00†	7422.00	5685.33	2592.78	7426.04	7455.25	9114.38	2338.81	-97.33	3438.60	153.44	22.49	PASS	
14016.00†	7422.00	5785.33	2592.92	7425.03	7454.25	9114.39	2338.80	-97.11	3338.90	153.93	21.76	PASS	
14116.00†	7422.00	5885.33	2593.05	7424.03	7453.25	9114.40	2338.80	-96.89	3239.21	154.44	21.04	PASS	
14216.00†	7422.00	5985.33	2593.19	7423.04	7452.25	9114.41	2338.79	-96.67	3139.55	154.99	20.32	PASS	
14316.00†	7422.00	6085.33	2593.32	7422.05	7451.26	9114.42	2338.79	-96.46	3039.90	155.57	19.61	PASS	
14416.00†	7422.00	6185.33	2593.46	7421.06	7450.27	9114.43	2338.78	-96.24	2940.28	156.19	18.89	PASS	
14516.00†	7422.00	6285.33	2593.59	7420.08	7449.29	9114.44	2338.78	-96.02	2840.69	156.85	18.17	PASS	
14616.00†	7422.00	6385.33	2593.73	7419.10	7448.31	9114.45	2338.77	-95.81	2741.12	157.57	17.45	PASS	
14716.00†	7422.00	6485.33	2593.86	7418.12	7447.34	9114.46	2338.77	-95.60	2641.59	158.33	16.74	PASS	
14816.00†	7422.00	6585.33	2594.00	7417.15	7446.36	9114.47	2338.76	-95.38	2542.10	159.16	16.02	PASS	
14916.00†	7422.00	6685.33	2594.13	7416.18	7445.40	9114.47	2338.76	-95.17	2442.64	160.06	15.31	PASS	
15016.00†	7422.00	6785.33	2594.27	7415.22	7444.43	9114.48	2338.75	-94.96	2343.23	161.03	14.60	PASS	
15116.00†	7422.00	6885.33	2594.40	7414.26	7443.47	9114.49	2338.75	-94.75	2243.87	162.09	13.89	PASS	
15216.00†	7422.00	6985.33	2594.54	7413.30	7442.52	9114.50	2338.74	-94.54	2144.58	163.25	13.18	PASS	
15316.00†	7422.00	7085.33	2594.67	7412.35	7441.56	9114.51	2338.74	-94.33	2045.35	164.53	12.47	PASS	
15416.00†	7422.00	7185.33	2594.81	7411.40	7440.62	9114.52	2338.74	-94.12	1946.20	165.94	11.76	PASS	
15516.00†	7422.00	7285.33	2594.94	7410.46	7439.67	9114.53	2338.73	-93.91	1847.13	167.50	11.06	PASS	
15616.00†	7422.00	7385.33	2595.08	7409.52	7438.73	9114.53	2338.73	-93.70	1748.18	169.24	10.36	PASS	
15716.00†	7422.00	7485.33	2595.21	7408.58	7437.79	9114.54	2338.72	-93.49	1649.35	171.20	9.66	PASS	
15816.00†	7422.00	7585.33	2595.35	7407.64	7436.86	9114.55	2338.72	-93.29	1550.67	173.41	8.97	PASS	
15916.00†	7422.00	7685.33	2595.48	7406.71	7435.93	9114.56	2338.71	-93.08	1452.18	175.93	8.28	PASS	
16016.00†	7422.00	7785.33	2595.62	7405.79	7435.00	9114.57	2338.71	-92.88	1353.90	178.82	7.59	PASS	
16116.00†	7422.00	7885.33	2595.75	7404.87	7434.08	9114.58	2338.71	-92.67	1255.89	182.17	6.91	PASS	
16216.00†	7422.00	7985.33	2595.89	7403.95	7433.16	9114.58	2338.70	-92.47	1158.22	186.09	6.24	PASS	
16316.00†	7422.00	8085.33	2596.02	7403.03	7432.25	9114.59	2338.70	-92.27	1060.99	190.73	5.58	PASS	
16416.00†	7422.00	8185.33	2596.16	7402.12	7431.34	9114.60	2338.69	-92.07	964.32	196.30	4.92	PASS	
16516.00†	7422.00	8285.33	2596.29	7401.21	7430.43	9114.61	2338.69	-91.87	868.41	203.08	4.28	PASS	
16616.00†	7422.00	8385.33	2596.43	7400.31	7429.52	9114.62	2338.69	-91.67	773.53	211.47	3.66	PASS	
16716.00†	7422.00	8485.33	2596.56	7399.44	7428.66	9114.62	2338.68	-91.47	680.11	222.02	3.07	PASS	
16816.00†	7422.00	8585.33	2596.70	7398.59	7427.81	9114.63	2338.68	-91.29	588.87	235.52	2.50	PASS	
16916.00†	7422.00	8685.33	2596.83	7397.73	7426.95	9114.64	2338.68	-91.10	500.97	252.98	1.98	PASS	
17016.00†	7422.00	8785.33	2596.97	7396.87	7426.09	9114.65	2338.67	-90.91	418.55	275.45	1.52	PASS	
17116.00†	7422.00	8885.33	2597.10	7396.01	7425.23	9114.65	2338.67	-90.72	345.52	302.65	1.14	PASS	
17216.00†	7422.00	8985.33	2597.24	7395.14	7424.36	9114.66	2338.66	-90.52	289.12	328.53	0.88	FAIL	
17316.00†	7422.00	9085.33	2597.37	7394.27	7423.49	9114.67	2338.66	-90.33	260.37	334.48	0.78	FAIL	
17345.36†	7422.00	9114.69	2597.41	7394.01	7423.23	9114.67	2338.66	-90.27	258.75	329.18	0.79	FAIL	
17416.00†	7422.00	9185.33	2597.51	7393.40	7422.62	9114.68	2338.66	-90.14	268.32	303.32	0.88	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	
17516.00†	7422.00	9285.33	2597.64	7392.52	7421.74	9114.69	2338.65	-89.94	310.15	251.31	1.23	PASS	
17616.00†	7422.00	9385.33	2597.78	7391.64	7420.85	9114.69	2338.65	-89.75	374.69	204.49	1.83	PASS	
17716.00†	7422.00	9485.33	2597.91	7390.75	7419.97	9114.70	2338.64	-89.55	452.32	171.01	2.65	PASS	
17816.00†	7422.00	9585.33	2598.05	7389.86	7419.08	9114.71	2338.64	-89.35	537.39	149.10	3.61	PASS	
17916.00†	7422.00	9685.33	2598.18	7388.97	7418.18	9114.72	2338.63	-89.16	626.88	135.39	4.64	PASS	
17935.33	7422.00	9704.65	2598.21	7388.79	7418.01	9114.72	2338.63	-89.12	644.53	133.43	4.85	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	5591.54	1441.82	5591.58	1441.83
8.625in Casing Surface	0.00	113.00	113.00	14.00	127.00	5591.54	1441.82	5591.58	1441.83
7.875in Open Hole	113.00	8237.00	8124.00	127.00	8250.10	5591.58	1441.83	5573.98	1434.71
4.5in Casing Production	0.00	8237.00	8237.00	14.00	8250.10	5591.54	1441.82	5573.98	1434.71

## 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 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	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	14.02	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	6.17	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	4.32	3.89	PASS	
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	14.02	90.00	14.02	4.94	3.28	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	1015.70	1015.70	-0.08	14.44	90.33	14.45	6.41	2.41	PASS	
1025.00	1025.00	0.00	0.00	1024.63	1024.63	-0.12	14.65	90.49	14.66	6.47	2.42	PASS	
1116.00†	1115.97	-0.46	2.12	1114.86	1114.74	-0.99	19.04	-10.45	16.98	7.27	2.48	PASS	
1216.00†	1215.68	-2.03	9.32	1213.90	1213.28	-2.89	28.66	-9.64	19.50	9.29	2.19	PASS	
1316.00†	1314.88	-4.70	21.62	1312.80	1311.05	-5.77	43.25	-9.29	21.99	11.15	2.04	PASS	
1416.00†	1413.27	-8.48	38.97	1411.59	1407.79	-9.63	62.76	-9.25	24.44	12.79	1.96	PASS	
1516.00†	1510.61	-13.34	61.33	1510.25	1503.27	-14.44	87.12	-9.45	26.83	14.32	1.92	PASS	
1616.00†	1606.61	-19.28	88.64	1608.79	1597.22	-20.19	116.24	-9.81	29.17	15.77	1.89	PASS	
1716.00†	1701.02	-26.27	120.82	1707.22	1689.41	-26.87	150.04	-10.31	31.45	17.18	1.87	PASS	
1816.00†	1793.58	-34.31	157.79	1805.75	1779.82	-34.46	188.46	-10.94	33.62	18.49	1.85	PASS	
1818.58	1795.94	-34.53	158.80	1808.33	1782.16	-34.67	189.51	-10.96	33.66	18.51	1.85	PASS	
1916.00†	1885.07	-42.89	197.23	1905.74	1870.77	-42.51	229.22	-11.81	35.04	19.33	1.84	PASS	
2016.00†	1976.56	-51.47	236.67	2005.73	1961.72	-50.56	269.98	-12.62	36.47	20.28	1.83	PASS	
2116.00†	2068.05	-60.05	276.12	2105.72	2052.67	-58.61	310.73	-13.36	37.91	21.33	1.80	PASS	
2216.00†	2159.54	-68.62	315.56	2205.71	2143.62	-66.66	351.49	-14.05	39.35	22.48	1.78	PASS	
2316.00†	2251.03	-77.20	355.01	2305.70	2234.57	-74.71	392.24	-14.70	40.79	23.70	1.74	PASS	
2416.00†	2342.53	-85.78	394.45	2406.69	2325.52	-82.76	433.00	-15.29	42.24	25.01	1.71	PASS	
2516.00†	2434.02	-94.36	433.89	2505.67	2416.47	-90.81	473.76	-15.85	43.70	26.38	1.67	PASS	
2616.00†	2525.51	-102.94	473.34	2605.66	2507.42	-98.86	514.51	-16.37	45.16	27.81	1.64	PASS	
2716.00†	2617.00	-111.51	512.78	2705.65	2598.37	-106.91	555.27	-16.86	46.62	29.30	1.61	PASS	
2816.00†	2708.49	-120.09	552.23	2805.64	2689.31	-114.96	596.03	-17.32	48.09	30.84	1.57	PASS	
2916.00†	2799.98	-128.67	591.67	2905.63	2780.26	-123.01	636.78	-17.76	49.56	32.42	1.54	PASS	
3016.00†	2891.47	-137.25	631.12	3005.62	2871.21	-131.07	677.54	-18.16	51.03	34.05	1.51	PASS	
3116.00†	2982.96	-145.82	670.56	3105.61	2962.16	-139.12	718.30	-18.55	52.50	35.70	1.48	PASS	
3216.00†	3074.45	-154.40	710.00	3205.59	3053.11	-147.17	759.05	-18.91	53.98	37.39	1.45	PASS	
3316.00†	3165.94	-162.98	749.45	3305.58	3144.06	-155.22	799.81	-19.26	55.45	39.11	1.43	PASS	
3416.00†	3257.43	-171.56	788.89	3405.57	3235.01	-163.27	840.57	-19.58	56.93	40.86	1.40	PASS	
3516.00†	3348.92	-180.14	828.34	3505.56	3325.96	-171.32	881.32	-19.89	58.42	42.63	1.38	PASS	
3616.00†	3440.42	-188.71	867.78	3605.55	3416.91	-179.37	922.08	-20.19	59.90	44.42	1.35	PASS	
3716.00†	3531.91	-197.29	907.23	3705.54	3507.86	-187.42	962.84	-20.47	61.38	46.23	1.33	PASS	
3816.00†	3623.40	-205.87	946.67	3805.52	3598.81	-195.47	1003.59	-20.74	62.87	48.06	1.31	PASS	
3916.00†	3714.89	-214.45	986.11	3905.51	3689.76	-203.52	1044.35	-20.99	64.36	49.91	1.29	PASS	
4016.00†	3806.38	-223.02	1025.56	4005.50	3780.71	-211.57	1085.10	-21.23	65.85	51.77	1.28	PASS	
4116.00†	3897.87	-231.60	1065.00	4105.49	3871.66	-219.62	1125.86	-21.47	67.34	53.64	1.26	PASS	
4216.00†	3989.36	-240.18	1104.45	4205.48	3962.61	-227.67	1166.62	-21.69	68.83	55.53	1.24	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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†	4080.85	-248.76	1143.89	4305.47	4053.56	-235.72	1207.37	-21.90	70.32	57.43	1.23	PASS	
4416.00†	4172.34	-257.33	1183.34	4405.46	4144.51	-243.77	1248.13	-22.11	71.81	59.35	1.21	PASS	
4516.00†	4263.83	-265.91	1222.78	4505.44	4235.46	-251.82	1288.89	-22.30	73.31	61.27	1.20	PASS	
4616.00†	4355.32	-274.49	1262.22	4605.43	4326.41	-259.87	1329.64	-22.49	74.80	63.20	1.19	PASS	
4716.00†	4446.81	-283.07	1301.67	4705.42	4417.35	-267.93	1370.40	-22.67	76.30	65.14	1.17	PASS	
4816.00†	4538.31	-291.65	1341.11	4805.41	4508.30	-275.98	1411.16	-22.84	77.79	67.09	1.16	PASS	
4916.00†	4629.80	-300.22	1380.56	4905.40	4599.25	-284.03	1451.91	-23.01	79.29	69.04	1.15	PASS	
5016.00†	4721.29	-308.80	1420.00	5005.39	4690.20	-292.08	1492.67	-23.17	80.79	71.01	1.14	PASS	
5116.00†	4812.78	-317.38	1459.44	5105.38	4781.15	-300.13	1533.43	-23.33	82.29	72.98	1.13	PASS	
5216.00†	4904.27	-325.96	1498.89	5205.36	4872.10	-308.18	1574.18	-23.48	83.78	74.96	1.12	PASS	
5316.00†	4995.76	-334.53	1538.33	5305.35	4963.05	-316.23	1614.94	-23.62	85.28	76.94	1.11	PASS	
5416.00†	5087.25	-343.11	1577.78	5405.34	5054.00	-324.28	1655.70	-23.76	86.78	78.93	1.10	PASS	
5516.00†	5178.74	-351.69	1617.22	5505.33	5144.95	-332.33	1696.45	-23.89	88.28	80.92	1.09	PASS	
5616.00†	5270.23	-360.27	1656.67	5605.32	5235.90	-340.38	1737.21	-24.02	89.78	82.92	1.08	PASS	
5716.00†	5361.72	-368.85	1696.11	5705.31	5326.85	-348.43	1777.96	-24.15	91.29	84.92	1.08	PASS	
5816.00†	5453.21	-377.42	1735.55	5805.30	5417.80	-356.48	1818.72	-24.27	92.79	86.93	1.07	PASS	
5916.00†	5544.70	-386.00	1775.00	5905.28	5508.75	-364.53	1859.48	-24.39	94.29	88.94	1.06	PASS	
6016.00†	5636.20	-394.58	1814.44	6005.27	5599.70	-372.58	1900.23	-24.50	95.79	90.96	1.05	PASS	
6116.00†	5727.69	-403.16	1853.89	6105.26	5690.65	-380.63	1940.99	-24.61	97.29	92.98	1.05	PASS	
6216.00†	5819.18	-411.73	1893.33	6205.25	5781.60	-388.68	1981.75	-24.72	98.80	95.00	1.04	PASS	
6316.00†	5910.67	-420.31	1932.78	6305.24	5872.55	-396.74	2022.50	-24.83	100.30	97.03	1.03	PASS	
6416.00†	6002.16	-428.89	1972.22	6405.23	5963.50	-404.79	2063.26	-24.93	101.80	99.06	1.03	PASS	
6516.00†	6093.65	-437.47	2011.66	6505.22	6054.44	-412.84	2104.02	-25.02	103.31	101.09	1.02	PASS	
6616.00†	6185.14	-446.05	2051.11	6605.20	6145.39	-420.89	2144.77	-25.12	104.81	103.13	1.02	PASS	
6716.00†	6276.63	-454.62	2090.55	6705.19	6236.34	-428.94	2185.53	-25.21	106.32	105.17	1.01	PASS	
6816.00†	6368.12	-463.20	2130.00	6805.18	6327.29	-436.99	2226.29	-25.30	107.82	107.21	1.01	PASS	
6916.00†	6459.61	-471.78	2169.44	6905.17	6418.24	-445.04	2267.04	-25.39	109.33	109.25	1.00	PASS	
7016.00†	6551.10	-480.36	2208.89	7005.16	6509.19	-453.09	2307.80	-25.47	110.83	111.30	1.00	FAIL	
7116.00†	6642.59	-488.93	2248.33	7105.15	6600.14	-461.14	2348.56	-25.56	112.34	113.35	0.99	FAIL	
7216.00†	6734.09	-497.51	2287.77	7205.13	6691.09	-469.19	2389.31	-25.64	113.84	115.40	0.99	FAIL	
7316.00†	6825.58	-506.09	2327.22	7305.12	6782.04	-477.24	2430.07	-25.72	115.35	117.45	0.98	FAIL	
7343.82	6851.03	-508.48	2338.19	7332.94	6807.35	-479.48	2441.41	-25.74	115.77	118.03	0.98	FAIL	
7416.00†	6917.25	-510.13	2366.75	7404.95	6872.84	-485.28	2470.76	-7.07	115.79	115.24	1.00	PASS	
7516.00†	7008.21	-497.44	2405.99	7502.66	6961.72	-493.15	2510.59	24.03	114.54	99.41	1.15	PASS	
7616.00†	7095.75	-467.75	2443.79	7595.30	7045.99	-500.61	2548.35	55.27	120.37	93.21	1.23	PASS	
7716.00†	7177.23	-421.95	2478.98	7680.07	7123.09	-507.43	2582.90	81.13	145.04	126.17	1.15	PASS	
7816.00†	7250.15	-361.43	2510.51	7775.11	7209.71	-509.59	2621.72	101.33	189.62	160.28	1.18	PASS	
7916.00†	7312.31	-288.03	2537.42	7889.44	7312.56	-491.67	2667.85	115.49	241.83	174.28	1.39	PASS	
8016.00†	7361.82	-203.99	2558.88	8029.48	7430.94	-439.90	2720.98	125.36	294.45	169.11	1.74	PASS	
8116.00†	7397.17	-111.86	2574.25	8208.51	7559.60	-330.85	2778.80	132.23	340.85	141.14	2.42	PASS	
8216.00†	7417.29	-14.43	2583.06	8437.72	7669.24	-137.51	2828.20	136.33	372.46	88.48	4.24	PASS	
8292.72	7422.00	62.06	2585.19	8640.61	7702.00	61.08	2843.15	137.35	380.71	61.05	6.30	PASS	
8316.00†	7422.00	85.34	2585.23	8664.52	7702.00	84.99	2843.18	137.35	380.71	61.15	6.23	PASS	
8416.00†	7422.00	185.34	2585.36	8764.52	7702.00	184.99	2843.32	137.35	380.71	61.47	6.25	PASS	
8516.00†	7422.00	285.34	2585.50	8864.52	7702.00	284.99	2843.45	137.35	380.71	62.18	6.18	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	
8616.00†	7422.00	385.34	2585.63	8964.52	7702.00	384.99	2843.59	137.35	380.71	63.23	6.08	PASS	
8716.00†	7422.00	485.34	2585.77	9064.52	7702.00	484.99	2843.72	137.35	380.71	64.61	5.95	PASS	
8816.00†	7422.00	585.34	2585.90	9164.52	7702.00	584.99	2843.85	137.35	380.71	70.74	5.43	PASS	
8916.00†	7422.00	685.34	2586.04	9264.52	7702.00	684.99	2843.99	137.35	380.71	68.24	5.63	PASS	
9016.00†	7422.00	785.34	2586.17	9364.52	7702.00	784.99	2844.12	137.35	380.71	70.45	5.45	PASS	
9116.00†	7422.00	885.34	2586.31	9464.52	7702.00	884.99	2844.26	137.35	380.71	72.89	5.26	PASS	
9216.00†	7422.00	985.34	2586.44	9564.52	7702.00	984.99	2844.39	137.35	380.71	75.54	5.08	PASS	
9316.00†	7422.00	1085.34	2586.58	9664.52	7702.00	1084.99	2844.52	137.35	380.71	78.38	4.89	PASS	
9416.00†	7422.00	1185.34	2586.71	9764.52	7702.00	1184.99	2844.66	137.35	380.71	81.39	4.71	PASS	
9516.00†	7422.00	1285.34	2586.85	9864.52	7702.00	1284.99	2844.79	137.35	380.70	84.54	4.53	PASS	
9616.00†	7422.00	1385.34	2586.98	9964.52	7702.00	1384.99	2844.92	137.35	380.70	87.83	4.36	PASS	
9716.00†	7422.00	1485.34	2587.12	10064.52	7702.00	1484.99	2845.06	137.35	380.70	91.24	4.20	PASS	
9816.00†	7422.00	1585.34	2587.25	10164.52	7702.00	1584.99	2845.19	137.35	380.70	94.75	4.04	PASS	
9916.00†	7422.00	1685.34	2587.39	10264.52	7702.00	1684.99	2845.33	137.35	380.70	98.36	3.89	PASS	
10016.00†	7422.00	1785.34	2587.52	10364.52	7702.00	1784.99	2845.46	137.35	380.70	102.05	3.75	PASS	
10116.00†	7422.00	1885.34	2587.66	10464.52	7702.00	1884.99	2845.59	137.35	380.70	105.82	3.62	PASS	
10216.00†	7422.00	1985.34	2587.79	10564.52	7702.00	1984.99	2845.73	137.35	380.70	109.65	3.49	PASS	
10316.00†	7422.00	2085.34	2587.92	10664.52	7702.00	2084.99	2845.86	137.35	380.70	113.55	3.37	PASS	
10416.00†	7422.00	2185.34	2588.06	10764.52	7702.00	2184.99	2846.00	137.35	380.70	117.50	3.25	PASS	
10516.00†	7422.00	2285.34	2588.19	10864.52	7702.00	2284.99	2846.13	137.35	380.70	121.49	3.15	PASS	
10616.00†	7422.00	2385.34	2588.33	10964.52	7702.00	2384.99	2846.26	137.35	380.70	125.54	3.04	PASS	
10716.00†	7422.00	2485.34	2588.46	11064.52	7702.00	2484.99	2846.40	137.35	380.70	129.62	2.95	PASS	
10816.00†	7422.00	2585.34	2588.60	11164.52	7702.00	2584.99	2846.53	137.35	380.70	133.74	2.86	PASS	
10916.00†	7422.00	2685.34	2588.73	11264.52	7702.00	2684.99	2846.67	137.35	380.69	137.90	2.77	PASS	
11016.00†	7422.00	2785.34	2588.87	11364.52	7702.00	2784.99	2846.80	137.35	380.69	142.08	2.69	PASS	
11116.00†	7422.00	2885.34	2589.00	11464.52	7702.00	2884.99	2846.93	137.35	380.69	146.30	2.61	PASS	
11216.00†	7422.00	2985.34	2589.14	11564.52	7702.00	2984.99	2847.07	137.35	380.69	150.53	2.54	PASS	
11316.00†	7422.00	3085.34	2589.27	11664.52	7702.00	3084.99	2847.20	137.35	380.69	154.80	2.47	PASS	
11416.00†	7422.00	3185.34	2589.41	11764.52	7702.00	3184.99	2847.34	137.35	380.69	159.08	2.40	PASS	
11516.00†	7422.00	3285.34	2589.54	11864.52	7702.00	3284.99	2847.47	137.35	380.69	163.38	2.34	PASS	
11616.00†	7422.00	3385.34	2589.68	11964.52	7702.00	3384.99	2847.60	137.35	380.69	167.70	2.28	PASS	
11716.00†	7422.00	3485.34	2589.81	12064.52	7702.00	3484.99	2847.74	137.35	380.69	172.04	2.22	PASS	
11816.00†	7422.00	3585.34	2589.95	12164.52	7702.00	3584.99	2847.87	137.35	380.69	176.39	2.16	PASS	
11916.00†	7422.00	3685.34	2590.08	12264.52	7702.00	3684.99	2848.00	137.35	380.69	180.76	2.11	PASS	
12016.00†	7422.00	3785.33	2590.22	12364.52	7702.00	3784.99	2848.14	137.35	380.69	185.14	2.06	PASS	
12116.00†	7422.00	3885.33	2590.35	12464.52	7702.00	3884.99	2848.27	137.35	380.69	189.53	2.01	PASS	
12216.00†	7422.00	3985.33	2590.49	12564.52	7702.00	3984.99	2848.41	137.35	380.69	193.94	1.97	PASS	
12316.00†	7422.00	4085.33	2590.62	12664.52	7702.00	4084.99	2848.54	137.35	380.68	198.36	1.92	PASS	
12416.00†	7422.00	4185.33	2590.76	12764.52	7702.00	4184.99	2848.67	137.35	380.68	202.78	1.88	PASS	
12516.00†	7422.00	4285.33	2590.89	12864.52	7702.00	4284.99	2848.81	137.35	380.68	207.22	1.84	PASS	
12616.00†	7422.00	4385.33	2591.03	12964.52	7702.00	4384.99	2848.94	137.35	380.68	211.66	1.80	PASS	
12716.00†	7422.00	4485.33	2591.16	13064.52	7702.00	4484.99	2849.08	137.35	380.68	216.12	1.76	PASS	
12816.00†	7422.00	4585.33	2591.30	13164.52	7702.00	4584.99	2849.21	137.35	380.68	220.58	1.73	PASS	
12916.00†	7422.00	4685.33	2591.43	13264.52	7702.00	4684.99	2849.34	137.35	380.68	225.05	1.69	PASS	
13016.00†	7422.00	4785.33	2591.57	13364.52	7702.00	4784.99	2849.48	137.35	380.68	229.52	1.66	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	
13116.00†	7422.00	4885.33	2591.70	13464.52	7702.00	4884.99	2849.61	137.35	380.68	234.00	1.63	PASS	
13216.00†	7422.00	4985.33	2591.84	13564.52	7702.00	4984.99	2849.75	137.35	380.68	238.49	1.60	PASS	
13316.00†	7422.00	5085.33	2591.97	13664.52	7702.00	5084.99	2849.88	137.35	380.68	242.99	1.57	PASS	
13416.00†	7422.00	5185.33	2592.11	13764.52	7702.00	5184.99	2850.01	137.35	380.68	247.48	1.54	PASS	
13516.00†	7422.00	5285.33	2592.24	13864.52	7702.00	5284.99	2850.15	137.35	380.68	251.99	1.51	PASS	
13616.00†	7422.00	5385.33	2592.38	13964.52	7702.00	5384.99	2850.28	137.35	380.68	256.50	1.49	PASS	
13716.00†	7422.00	5485.33	2592.51	14064.52	7702.00	5484.99	2850.41	137.35	380.68	261.01	1.46	PASS	
13816.00†	7422.00	5585.33	2592.65	14164.52	7702.00	5584.99	2850.55	137.35	380.67	265.53	1.43	PASS	
13916.00†	7422.00	5685.33	2592.78	14264.52	7702.00	5684.99	2850.68	137.35	380.67	270.05	1.41	PASS	
14016.00†	7422.00	5785.33	2592.92	14364.52	7702.00	5784.99	2850.82	137.35	380.67	274.58	1.39	PASS	
14116.00†	7422.00	5885.33	2593.05	14464.52	7702.00	5884.99	2850.95	137.35	380.67	279.11	1.36	PASS	
14216.00†	7422.00	5985.33	2593.19	14564.52	7702.00	5984.99	2851.08	137.35	380.67	283.65	1.34	PASS	
14316.00†	7422.00	6085.33	2593.32	14664.52	7702.00	6084.99	2851.22	137.35	380.67	288.18	1.32	PASS	
14416.00†	7422.00	6185.33	2593.46	14764.52	7702.00	6184.99	2851.35	137.35	380.67	292.73	1.30	PASS	
14516.00†	7422.00	6285.33	2593.59	14864.52	7702.00	6284.99	2851.49	137.35	380.67	297.27	1.28	PASS	
14616.00†	7422.00	6385.33	2593.73	14964.52	7702.00	6384.99	2851.62	137.35	380.67	301.82	1.26	PASS	
14716.00†	7422.00	6485.33	2593.86	15064.52	7702.00	6484.99	2851.75	137.35	380.67	306.37	1.24	PASS	
14816.00†	7422.00	6585.33	2594.00	15164.52	7702.00	6584.99	2851.89	137.35	380.67	310.92	1.22	PASS	
14916.00†	7422.00	6685.33	2594.13	15264.52	7702.00	6684.99	2852.02	137.35	380.67	315.48	1.21	PASS	
15016.00†	7422.00	6785.33	2594.27	15364.52	7702.00	6784.99	2852.16	137.35	380.67	320.03	1.19	PASS	
15116.00†	7422.00	6885.33	2594.40	15464.52	7702.00	6884.99	2852.29	137.35	380.67	324.59	1.17	PASS	
15216.00†	7422.00	6985.33	2594.54	15564.52	7702.00	6984.99	2852.42	137.35	380.66	329.16	1.16	PASS	
15316.00†	7422.00	7085.33	2594.67	15664.52	7702.00	7084.99	2852.56	137.35	380.66	333.72	1.14	PASS	
15416.00†	7422.00	7185.33	2594.81	15764.52	7702.00	7184.99	2852.69	137.35	380.66	338.29	1.13	PASS	
15516.00†	7422.00	7285.33	2594.94	15864.52	7702.00	7284.99	2852.82	137.36	380.66	342.86	1.11	PASS	
15616.00†	7422.00	7385.33	2595.08	15964.52	7702.00	7384.99	2852.96	137.36	380.66	347.43	1.10	PASS	
15716.00†	7422.00	7485.33	2595.21	16064.52	7702.00	7484.99	2853.09	137.36	380.66	352.00	1.08	PASS	
15816.00†	7422.00	7585.33	2595.35	16164.52	7702.00	7584.99	2853.23	137.36	380.66	356.57	1.07	PASS	
15916.00†	7422.00	7685.33	2595.48	16264.52	7702.00	7684.99	2853.36	137.36	380.66	361.15	1.05	PASS	
16016.00†	7422.00	7785.33	2595.62	16364.52	7702.00	7784.99	2853.49	137.36	380.66	365.73	1.04	PASS	
16116.00†	7422.00	7885.33	2595.75	16464.52	7702.00	7884.99	2853.63	137.36	380.66	370.31	1.03	PASS	
16216.00†	7422.00	7985.33	2595.89	16564.52	7702.00	7984.99	2853.76	137.36	380.66	374.89	1.02	PASS	
16316.00†	7422.00	8085.33	2596.02	16664.52	7702.00	8084.99	2853.90	137.36	380.66	379.47	1.00	PASS	
16416.00†	7422.00	8185.33	2596.16	16764.52	7702.00	8184.99	2854.03	137.36	380.66	384.06	0.99	FAIL	
16516.00†	7422.00	8285.33	2596.29	16864.52	7702.00	8284.99	2854.16	137.36	380.66	388.64	0.98	FAIL	
16616.00†	7422.00	8385.33	2596.43	16964.52	7702.00	8384.99	2854.30	137.36	380.65	393.23	0.97	FAIL	
16716.00†	7422.00	8485.33	2596.56	17064.52	7702.00	8484.99	2854.43	137.36	380.65	397.82	0.96	FAIL	
16816.00†	7422.00	8585.33	2596.70	17164.52	7702.00	8584.99	2854.57	137.36	380.65	402.41	0.95	FAIL	
16916.00†	7422.00	8685.33	2596.83	17264.52	7702.00	8684.99	2854.70	137.36	380.65	407.00	0.94	FAIL	
17016.00†	7422.00	8785.33	2596.97	17364.52	7702.00	8784.99	2854.83	137.36	380.65	411.59	0.92	FAIL	
17116.00†	7422.00	8885.33	2597.10	17464.52	7702.00	8884.99	2854.97	137.36	380.65	416.18	0.91	FAIL	
17216.00†	7422.00	8985.33	2597.24	17564.52	7702.00	8984.98	2855.10	137.36	380.65	420.77	0.90	FAIL	
17316.00†	7422.00	9085.33	2597.37	17664.52	7702.00	9084.98	2855.24	137.36	380.65	425.37	0.89	FAIL	
17416.00†	7422.00	9185.33	2597.51	17764.52	7702.00	9184.98	2855.37	137.36	380.65	429.96	0.89	FAIL	
17516.00†	7422.00	9285.33	2597.64	17864.52	7702.00	9284.98	2855.50	137.36	380.65	434.56	0.88	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	
17616.00†	7422.00	9385.33	2597.78	17964.52	7702.00	9384.98	2855.64	137.36	380.65	439.16	0.87	FAIL	
17716.00†	7422.00	9485.33	2597.91	18064.52	7702.00	9484.98	2855.77	137.36	380.65	443.76	0.86	FAIL	
17816.00†	7422.00	9585.33	2598.05	18164.52	7702.00	9584.98	2855.90	137.36	380.65	448.36	0.85	FAIL	
17916.00†	7422.00	9685.33	2598.18	18264.52	7702.00	9684.98	2856.04	137.36	380.65	452.96	0.84	FAIL	
17935.33	7422.00	9704.65	2598.21	18283.84	7702.00	9704.31	2856.06	137.36	380.65	453.84	0.84	FAIL	

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

## 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	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	18285.00	17403.00	882.00	N/A	0.00	8.55	N/A	N/A

## SURVEY PROGRAM - Offset Wellbore: BRIGHTON LAKES 20-17-2CDH PWB 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 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NAH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	16.00	16.00	0.00	-44.86	-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	6.26	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	7.75	PASS
1025.00	1025.00	0.00	0.00	1025.00	1025.00	0.00	-44.86	-90.00	44.86	6.43	7.72	PASS
1116.00†	1115.97	-0.46	2.12	1115.97	1115.97	0.00	-44.86	168.28	46.98	6.91	7.46	PASS
1216.00†	1215.68	-2.03	9.32	1216.83	1216.82	-0.13	-44.42	169.72	53.79	8.13	7.15	PASS
1316.00†	1314.88	-4.70	21.62	1319.53	1319.39	-1.56	-39.62	170.67	61.49	9.71	6.75	PASS
1416.00†	1413.27	-8.48	38.97	1422.67	1421.98	-4.57	-29.49	171.04	69.13	11.60	6.28	PASS
1516.00†	1510.61	-13.34	61.33	1526.24	1524.26	-9.18	-13.99	171.01	76.67	13.37	6.00	PASS
1616.00†	1606.61	-19.28	88.64	1630.22	1625.92	-15.39	6.89	170.69	84.09	14.97	5.85	PASS
1716.00†	1701.02	-26.27	120.82	1734.61	1726.64	-23.20	33.16	170.13	91.38	16.48	5.75	PASS
1816.00†	1793.58	-34.31	157.79	1837.86	1824.70	-32.39	64.09	169.44	98.75	17.86	5.72	PASS
1818.58	1795.94	-34.53	158.80	1840.42	1827.13	-32.63	64.89	169.43	98.97	17.89	5.72	PASS
1916.00†	1885.07	-42.89	197.23	1937.47	1918.88	-41.64	95.19	168.99	107.51	18.68	5.94	PASS
2016.00†	1976.56	-51.47	236.67	2037.08	2013.07	-50.88	126.28	168.61	116.27	19.69	6.09	PASS
2116.00†	2068.05	-60.05	276.12	2136.69	2107.25	-60.12	157.38	168.28	125.04	20.56	6.26	PASS
2216.00†	2159.54	-68.62	315.56	2236.31	2201.43	-69.37	188.47	167.99	133.82	21.60	6.37	PASS
2316.00†	2251.03	-77.20	355.01	2335.92	2295.61	-78.61	219.57	167.74	142.59	22.70	6.45	PASS
2416.00†	2342.53	-85.78	394.45	2435.53	2389.79	-87.86	250.66	167.52	151.37	23.85	6.51	PASS
2516.00†	2434.02	-94.36	433.89	2535.14	2483.98	-97.10	281.76	167.32	160.15	25.04	6.55	PASS
2616.00†	2525.51	-102.94	473.34	2634.75	2578.16	-106.35	312.85	167.15	168.94	26.27	6.58	PASS
2716.00†	2617.00	-111.51	512.78	2734.37	2672.34	-115.59	343.95	166.99	177.72	27.53	6.60	PASS
2816.00†	2708.49	-120.09	552.23	2833.98	2766.52	-124.83	375.04	166.84	186.51	28.82	6.61	PASS
2916.00†	2799.98	-128.67	591.67	2933.59	2860.70	-134.08	406.14	166.71	195.29	30.13	6.61	PASS
3016.00†	2891.47	-137.25	631.12	3033.20	2954.89	-143.32	437.23	166.59	204.08	31.47	6.61	PASS
3116.00†	2982.96	-145.82	670.56	3132.82	3049.07	-152.57	468.33	166.48	212.87	32.82	6.61	PASS
3216.00†	3074.45	-154.40	710.00	3232.43	3143.25	-161.81	499.42	166.38	221.66	34.19	6.60	PASS
3316.00†	3165.94	-162.98	749.45	3332.04	3237.43	-171.06	530.52	166.29	230.45	35.58	6.59	PASS
3416.00†	3257.43	-171.56	788.89	3431.65	3331.61	-180.30	561.61	166.20	239.24	36.98	6.58	PASS
3516.00†	3348.92	-180.14	828.34	3531.26	3425.80	-189.54	592.71	166.12	248.03	38.38	6.56	PASS
3616.00†	3440.42	-188.71	867.78	3630.88	3519.98	-198.79	623.80	166.05	256.82	39.80	6.55	PASS
3716.00†	3531.91	-197.29	907.23	3730.49	3614.16	-208.03	654.90	165.98	265.61	41.23	6.54	PASS
3816.00†	3623.40	-205.87	946.67	3830.10	3708.34	-217.28	685.99	165.91	274.40	42.67	6.52	PASS
3916.00†	3714.89	-214.45	986.11	3929.71	3802.52	-226.52	717.09	165.85	283.20	44.12	6.51	PASS
4016.00†	3806.38	-223.02	1025.56	4029.33	3896.71	-235.77	748.18	165.79	291.99	45.57	6.49	PASS
4116.00†	3897.87	-231.60	1065.00	4128.94	3990.89	-245.01	779.28	165.74	300.78	47.02	6.48	PASS
4216.00†	3989.36	-240.18	1104.45	4228.55	4085.07	-254.25	810.37	165.69	309.58	48.49	6.46	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NAH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
4316.00†	4080.85	-248.76	1143.89	4328.16	4179.25	-263.50	841.47	165.64	318.37	49.96	6.45	PASS	
4416.00†	4172.34	-257.33	1183.34	4427.78	4273.43	-272.74	872.57	165.59	327.18	51.43	6.44	PASS	
4516.00†	4263.83	-265.91	1222.78	4527.39	4367.62	-281.99	903.66	165.55	335.96	52.91	6.42	PASS	
4616.00†	4355.32	-274.49	1262.22	4627.00	4461.80	-291.23	934.76	165.51	344.75	54.39	6.41	PASS	
4716.00†	4446.81	-283.07	1301.67	4726.61	4555.98	-300.48	965.85	165.47	353.54	55.87	6.40	PASS	
4816.00†	4538.31	-291.65	1341.11	4826.22	4650.16	-309.72	996.95	165.43	362.34	57.36	6.38	PASS	
4916.00†	4629.80	-300.22	1380.56	4925.84	4744.34	-318.96	1028.04	165.40	371.13	58.85	6.37	PASS	
5016.00†	4721.29	-308.80	1420.00	5025.45	4838.53	-328.21	1059.14	165.36	379.93	60.35	6.36	PASS	
5116.00†	4812.78	-317.38	1459.44	5125.06	4932.71	-337.45	1090.23	165.33	388.72	61.85	6.35	PASS	
5216.00†	4904.27	-325.96	1498.89	5224.67	5026.89	-346.70	1121.33	165.30	397.52	63.35	6.33	PASS	
5316.00†	4995.76	-334.53	1538.33	5324.29	5121.07	-355.94	1152.42	165.27	406.31	64.85	6.32	PASS	
5416.00†	5087.25	-343.11	1577.78	5423.90	5215.25	-365.19	1183.52	165.24	415.11	66.35	6.31	PASS	
5516.00†	5178.74	-351.69	1617.22	5523.51	5309.44	-374.43	1214.61	165.21	423.90	67.86	6.30	PASS	
5616.00†	5270.23	-360.27	1656.67	5623.12	5403.62	-383.67	1245.71	165.19	432.70	69.37	6.29	PASS	
5716.00†	5361.72	-368.85	1696.11	5722.74	5497.80	-392.92	1276.80	165.16	441.49	70.88	6.28	PASS	
5816.00†	5453.21	-377.42	1735.55	5822.35	5591.98	-402.16	1307.90	165.14	450.29	72.39	6.27	PASS	
5916.00†	5544.70	-386.00	1775.00	5921.96	5686.16	-411.41	1338.99	165.11	459.08	73.90	6.26	PASS	
6016.00†	5636.20	-394.58	1814.44	6021.57	5780.34	-420.65	1370.09	165.09	467.88	75.42	6.25	PASS	
6116.00†	5727.69	-403.16	1853.89	6121.18	5874.53	-429.90	1401.18	165.07	476.67	76.93	6.24	PASS	
6216.00†	5819.18	-411.73	1893.33	6220.80	5968.71	-439.14	1432.28	165.05	485.47	78.45	6.24	PASS	
6316.00†	5910.67	-420.31	1932.78	6320.41	6062.89	-448.38	1463.37	165.03	494.27	79.97	6.23	PASS	
6416.00†	6002.16	-428.89	1972.22	6420.02	6157.07	-457.63	1494.47	165.01	503.06	81.49	6.22	PASS	
6516.00†	6093.65	-437.47	2011.66	6519.63	6251.25	-466.87	1525.56	164.99	511.86	83.01	6.21	PASS	
6616.00†	6185.14	-446.05	2051.11	6619.25	6345.44	-476.12	1556.66	164.98	520.65	84.53	6.20	PASS	
6716.00†	6276.63	-454.62	2090.55	6718.86	6439.62	-485.36	1587.75	164.96	529.45	86.05	6.20	PASS	
6816.00†	6368.12	-463.20	2130.00	6818.47	6533.80	-494.61	1618.85	164.94	538.25	87.58	6.19	PASS	
6916.00†	6459.61	-471.78	2169.44	6918.08	6627.98	-503.85	1649.94	164.92	547.04	89.10	6.18	PASS	
7016.00†	6551.10	-480.36	2208.89	7020.78	6725.24	-510.71	1682.06	165.19	555.69	90.30	6.19	PASS	
7116.00†	6642.59	-488.93	2248.33	7122.89	6821.64	-501.25	1713.91	167.08	563.75	89.44	6.35	PASS	
7216.00†	6734.09	-497.51	2287.77	7215.97	6906.88	-477.06	1742.10	170.30	572.74	87.34	6.60	PASS	
7316.00†	6825.58	-506.09	2327.22	7297.04	6977.25	-444.39	1765.39	174.14	585.21	85.35	6.91	PASS	
7343.82	6851.03	-508.48	2338.19	7317.36	6994.14	-434.58	1770.98	175.23	589.64	84.96	6.99	PASS	
7416.00†	6917.25	-510.13	2366.75	7367.94	7034.66	-407.49	1784.40	-164.21	602.87	84.36	7.20	PASS	
7516.00†	7008.21	-497.44	2405.99	7435.59	7085.02	-365.57	1801.09	-138.02	623.85	84.29	7.46	PASS	
7616.00†	7095.75	-467.75	2443.79	7501.11	7128.99	-319.29	1815.68	-118.22	646.27	84.47	7.71	PASS	
7716.00†	7177.23	-421.95	2478.98	7565.06	7166.79	-269.30	1828.23	-104.33	668.49	84.37	7.98	PASS	
7816.00†	7250.15	-361.43	2510.51	7627.84	7198.54	-216.21	1838.79	-94.59	689.17	83.88	8.28	PASS	
7916.00†	7312.31	-288.03	2537.42	7689.77	7224.27	-160.57	1847.37	-87.74	707.23	83.10	8.58	PASS	
8016.00†	7361.82	-203.99	2558.88	7751.08	7243.97	-102.92	1853.96	-83.00	721.82	82.29	8.84	PASS	
8116.00†	7397.17	-111.86	2574.25	7811.96	7257.64	-43.80	1858.55	-79.93	732.34	81.77	9.03	PASS	
8216.00†	7417.29	-14.43	2583.06	7872.59	7265.26	16.26	1861.15	-78.29	738.38	81.82	9.09	PASS	
8292.72	7422.00	62.06	2585.19	7919.44	7267.00	63.06	1861.79	-77.91	739.82	82.27	9.06	PASS	
8316.00†	7422.00	85.34	2585.23	7942.71	7267.00	86.34	1861.82	-77.91	739.82	82.38	9.05	PASS	
8416.00†	7422.00	185.34	2585.36	8042.71	7267.00	186.34	1861.96	-77.91	739.82	83.06	8.97	PASS	
8516.00†	7422.00	285.34	2585.50	8142.71	7267.00	286.34	1862.10	-77.91	739.82	84.33	8.84	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NAH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
8616.00†	7422.00	385.34	2585.63	8242.71	7267.00	386.34	1862.24	-77.91	739.81	86.03	8.66	PASS	
8716.00†	7422.00	485.34	2585.77	8342.71	7267.00	486.34	1862.37	-77.91	739.81	87.55	8.51	PASS	
8816.00†	7422.00	585.34	2585.90	8442.71	7267.00	586.34	1862.51	-77.91	739.81	90.65	8.22	PASS	
8916.00†	7422.00	685.34	2586.04	8542.71	7267.00	686.34	1862.65	-77.91	739.81	93.50	7.97	PASS	
9016.00†	7422.00	785.34	2586.17	8642.71	7267.00	786.34	1862.79	-77.91	739.80	96.67	7.70	PASS	
9116.00†	7422.00	885.34	2586.31	8742.71	7267.00	886.34	1862.93	-77.91	739.80	100.13	7.43	PASS	
9216.00†	7422.00	985.34	2586.44	8842.71	7267.00	986.34	1863.06	-77.91	739.80	103.85	7.17	PASS	
9316.00†	7422.00	1085.34	2586.58	8942.71	7267.00	1086.33	1863.20	-77.91	739.79	107.80	6.90	PASS	
9416.00†	7422.00	1185.34	2586.71	9042.71	7267.00	1186.33	1863.34	-77.91	739.79	111.96	6.64	PASS	
9516.00†	7422.00	1285.34	2586.85	9142.71	7267.00	1286.33	1863.48	-77.91	739.79	116.31	6.39	PASS	
9616.00†	7422.00	1385.34	2586.98	9242.71	7267.00	1386.33	1863.62	-77.91	739.79	120.82	6.15	PASS	
9716.00†	7422.00	1485.34	2587.12	9342.71	7267.00	1486.33	1863.75	-77.91	739.78	125.48	5.92	PASS	
9816.00†	7422.00	1585.34	2587.25	9442.71	7267.00	1586.33	1863.89	-77.91	739.78	130.27	5.70	PASS	
9916.00†	7422.00	1685.34	2587.39	9542.71	7267.00	1686.33	1864.03	-77.91	739.78	135.18	5.50	PASS	
10016.00†	7422.00	1785.34	2587.52	9642.71	7267.00	1786.33	1864.17	-77.91	739.77	140.20	5.30	PASS	
10116.00†	7422.00	1885.34	2587.66	9742.71	7267.00	1886.33	1864.30	-77.91	739.77	145.31	5.11	PASS	
10216.00†	7422.00	1985.34	2587.79	9842.71	7267.00	1986.33	1864.44	-77.91	739.77	150.50	4.93	PASS	
10316.00†	7422.00	2085.34	2587.92	9942.71	7267.00	2086.33	1864.58	-77.91	739.77	155.77	4.77	PASS	
10416.00†	7422.00	2185.34	2588.06	10042.71	7267.00	2186.33	1864.72	-77.91	739.76	161.11	4.61	PASS	
10516.00†	7422.00	2285.34	2588.19	10142.71	7267.00	2286.33	1864.86	-77.91	739.76	166.51	4.46	PASS	
10616.00†	7422.00	2385.34	2588.33	10242.71	7267.00	2386.33	1864.99	-77.91	739.76	171.96	4.32	PASS	
10716.00†	7422.00	2485.34	2588.46	10342.71	7267.00	2486.33	1865.13	-77.91	739.75	177.47	4.18	PASS	
10816.00†	7422.00	2585.34	2588.60	10442.71	7267.00	2586.33	1865.27	-77.91	739.75	183.03	4.05	PASS	
10916.00†	7422.00	2685.34	2588.73	10542.71	7267.00	2686.33	1865.41	-77.91	739.75	188.62	3.93	PASS	
11016.00†	7422.00	2785.34	2588.87	10642.71	7267.00	2786.33	1865.55	-77.91	739.75	194.26	3.82	PASS	
11116.00†	7422.00	2885.34	2589.00	10742.71	7267.00	2886.33	1865.68	-77.91	739.74	199.93	3.71	PASS	
11216.00†	7422.00	2985.34	2589.14	10842.71	7267.00	2986.33	1865.82	-77.91	739.74	205.63	3.61	PASS	
11316.00†	7422.00	3085.34	2589.27	10942.71	7267.00	3086.33	1865.96	-77.91	739.74	211.36	3.51	PASS	
11416.00†	7422.00	3185.34	2589.41	11042.71	7267.00	3186.33	1866.10	-77.91	739.73	217.12	3.41	PASS	
11516.00†	7422.00	3285.34	2589.54	11142.71	7267.00	3286.33	1866.24	-77.91	739.73	222.91	3.33	PASS	
11616.00†	7422.00	3385.34	2589.68	11242.71	7267.00	3386.33	1866.37	-77.91	739.73	228.72	3.24	PASS	
11716.00†	7422.00	3485.34	2589.81	11342.71	7267.00	3486.33	1866.51	-77.91	739.73	234.55	3.16	PASS	
11816.00†	7422.00	3585.34	2589.95	11442.71	7267.00	3586.33	1866.65	-77.91	739.72	240.40	3.08	PASS	
11916.00†	7422.00	3685.34	2590.08	11542.71	7267.00	3686.33	1866.79	-77.91	739.72	246.27	3.01	PASS	
12016.00†	7422.00	3785.33	2590.22	11642.71	7267.00	3786.33	1866.92	-77.91	739.72	252.15	2.94	PASS	
12116.00†	7422.00	3885.33	2590.35	11742.71	7267.00	3886.33	1867.06	-77.91	739.71	258.05	2.87	PASS	
12216.00†	7422.00	3985.33	2590.49	11842.71	7267.00	3986.33	1867.20	-77.91	739.71	263.97	2.81	PASS	
12316.00†	7422.00	4085.33	2590.62	11942.71	7267.00	4086.33	1867.34	-77.90	739.71	269.90	2.75	PASS	
12416.00†	7422.00	4185.33	2590.76	12042.71	7267.00	4186.33	1867.48	-77.90	739.70	275.85	2.69	PASS	
12516.00†	7422.00	4285.33	2590.89	12142.71	7267.00	4286.33	1867.61	-77.90	739.70	281.80	2.63	PASS	
12616.00†	7422.00	4385.33	2591.03	12242.71	7267.00	4386.33	1867.75	-77.90	739.70	287.77	2.57	PASS	
12716.00†	7422.00	4485.33	2591.16	12342.71	7267.00	4486.33	1867.89	-77.90	739.70	293.75	2.52	PASS	
12816.00†	7422.00	4585.33	2591.30	12442.71	7267.00	4586.33	1868.03	-77.90	739.69	299.74	2.47	PASS	
12916.00†	7422.00	4685.33	2591.43	12542.71	7267.00	4686.33	1868.17	-77.90	739.69	305.74	2.42	PASS	
13016.00†	7422.00	4785.33	2591.57	12642.71	7267.00	4786.33	1868.30	-77.90	739.69	311.74	2.38	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NAH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
13116.00†	7422.00	4885.33	2591.70	12742.71	7267.00	4886.33	1868.44	-77.90	739.68	317.76	2.33	PASS	
13216.00†	7422.00	4985.33	2591.84	12842.71	7267.00	4986.33	1868.58	-77.90	739.68	323.78	2.29	PASS	
13316.00†	7422.00	5085.33	2591.97	12942.71	7267.00	5086.33	1868.72	-77.90	739.68	329.82	2.25	PASS	
13416.00†	7422.00	5185.33	2592.11	13042.71	7267.00	5186.33	1868.86	-77.90	739.68	335.86	2.20	PASS	
13516.00†	7422.00	5285.33	2592.24	13142.71	7267.00	5286.33	1868.99	-77.90	739.67	341.90	2.17	PASS	
13616.00†	7422.00	5385.33	2592.38	13242.71	7267.00	5386.33	1869.13	-77.90	739.67	347.95	2.13	PASS	
13716.00†	7422.00	5485.33	2592.51	13342.71	7267.00	5486.33	1869.27	-77.90	739.67	354.01	2.09	PASS	
13816.00†	7422.00	5585.33	2592.65	13442.71	7267.00	5586.33	1869.41	-77.90	739.66	360.08	2.06	PASS	
13916.00†	7422.00	5685.33	2592.78	13542.71	7267.00	5686.33	1869.54	-77.90	739.66	366.15	2.02	PASS	
14016.00†	7422.00	5785.33	2592.92	13642.71	7267.00	5786.33	1869.68	-77.90	739.66	372.22	1.99	PASS	
14116.00†	7422.00	5885.33	2593.05	13742.71	7267.00	5886.33	1869.82	-77.90	739.66	378.30	1.96	PASS	
14216.00†	7422.00	5985.33	2593.19	13842.71	7267.00	5986.33	1869.96	-77.90	739.65	384.38	1.93	PASS	
14316.00†	7422.00	6085.33	2593.32	13942.71	7267.00	6086.33	1870.10	-77.90	739.65	390.47	1.90	PASS	
14416.00†	7422.00	6185.33	2593.46	14042.71	7267.00	6186.33	1870.23	-77.90	739.65	396.57	1.87	PASS	
14516.00†	7422.00	6285.33	2593.59	14142.71	7267.00	6286.33	1870.37	-77.90	739.64	402.66	1.84	PASS	
14616.00†	7422.00	6385.33	2593.73	14242.71	7267.00	6386.33	1870.51	-77.90	739.64	408.77	1.81	PASS	
14716.00†	7422.00	6485.33	2593.86	14342.71	7267.00	6486.33	1870.65	-77.90	739.64	414.87	1.78	PASS	
14816.00†	7422.00	6585.33	2594.00	14442.71	7267.00	6586.33	1870.79	-77.90	739.64	420.98	1.76	PASS	
14916.00†	7422.00	6685.33	2594.13	14542.71	7267.00	6686.33	1870.92	-77.90	739.63	427.09	1.73	PASS	
15016.00†	7422.00	6785.33	2594.27	14642.71	7267.00	6786.33	1871.06	-77.90	739.63	433.21	1.71	PASS	
15116.00†	7422.00	6885.33	2594.40	14742.71	7267.00	6886.33	1871.20	-77.90	739.63	439.33	1.68	PASS	
15216.00†	7422.00	6985.33	2594.54	14842.71	7267.00	6986.33	1871.34	-77.90	739.62	445.45	1.66	PASS	
15316.00†	7422.00	7085.33	2594.67	14942.71	7267.00	7086.33	1871.48	-77.90	739.62	451.57	1.64	PASS	
15416.00†	7422.00	7185.33	2594.81	15042.71	7267.00	7186.33	1871.61	-77.90	739.62	457.70	1.62	PASS	
15516.00†	7422.00	7285.33	2594.94	15142.71	7267.00	7286.33	1871.75	-77.90	739.61	463.83	1.60	PASS	
15616.00†	7422.00	7385.33	2595.08	15242.71	7267.00	7386.33	1871.89	-77.90	739.61	469.96	1.57	PASS	
15716.00†	7422.00	7485.33	2595.21	15342.71	7267.00	7486.33	1872.03	-77.90	739.61	476.10	1.55	PASS	
15816.00†	7422.00	7585.33	2595.35	15442.71	7267.00	7586.33	1872.17	-77.90	739.61	482.24	1.53	PASS	
15916.00†	7422.00	7685.33	2595.48	15542.71	7267.00	7686.33	1872.30	-77.90	739.60	488.38	1.52	PASS	
16016.00†	7422.00	7785.33	2595.62	15642.71	7267.00	7786.33	1872.44	-77.90	739.60	494.52	1.50	PASS	
16116.00†	7422.00	7885.33	2595.75	15742.71	7267.00	7886.33	1872.58	-77.90	739.60	500.66	1.48	PASS	
16216.00†	7422.00	7985.33	2595.89	15842.71	7267.00	7986.33	1872.72	-77.90	739.59	506.81	1.46	PASS	
16316.00†	7422.00	8085.33	2596.02	15942.71	7267.00	8086.33	1872.85	-77.90	739.59	512.96	1.44	PASS	
16416.00†	7422.00	8185.33	2596.16	16042.71	7267.00	8186.33	1872.99	-77.90	739.59	519.11	1.43	PASS	
16516.00†	7422.00	8285.33	2596.29	16142.71	7267.00	8286.33	1873.13	-77.90	739.59	525.26	1.41	PASS	
16616.00†	7422.00	8385.33	2596.43	16242.71	7267.00	8386.33	1873.27	-77.90	739.58	531.41	1.39	PASS	
16716.00†	7422.00	8485.33	2596.56	16342.71	7267.00	8486.33	1873.41	-77.90	739.58	537.57	1.38	PASS	
16816.00†	7422.00	8585.33	2596.70	16442.71	7267.00	8586.33	1873.54	-77.90	739.58	543.73	1.36	PASS	
16916.00†	7422.00	8685.33	2596.83	16542.71	7267.00	8686.33	1873.68	-77.90	739.57	549.88	1.35	PASS	
17016.00†	7422.00	8785.33	2596.97	16642.71	7267.00	8786.33	1873.82	-77.90	739.57	556.04	1.33	PASS	
17116.00†	7422.00	8885.33	2597.10	16742.71	7267.00	8886.33	1873.96	-77.90	739.57	562.21	1.32	PASS	
17216.00†	7422.00	8985.33	2597.24	16842.71	7267.00	8986.33	1874.10	-77.90	739.57	568.37	1.30	PASS	
17316.00†	7422.00	9085.33	2597.37	16942.71	7267.00	9086.33	1874.23	-77.90	739.56	574.53	1.29	PASS	
17416.00†	7422.00	9185.33	2597.51	17042.71	7267.00	9186.33	1874.37	-77.90	739.56	580.70	1.27	PASS	
17516.00†	7422.00	9285.33	2597.64	17142.71	7267.00	9286.33	1874.51	-77.90	739.56	586.87	1.26	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#04 BRIGHTON LAKES 20-17-1NAH (400'FSL & 1919'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NAH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
17616.00†	7422.00	9385.33	2597.78	17242.71	7267.00	9386.33	1874.65	-77.90	739.55	593.04	1.25	PASS	
17716.00†	7422.00	9485.33	2597.91	17342.71	7267.00	9486.33	1874.79	-77.90	739.55	599.21	1.23	PASS	
17816.00†	7422.00	9585.33	2598.05	17442.71	7267.00	9586.33	1874.92	-77.90	739.55	605.38	1.22	PASS	
17916.00†	7422.00	9685.33	2598.18	17542.71	7267.00	9686.33	1875.06	-77.90	739.55	611.55	1.21	PASS	
17930.62†	7422.00	9699.95	2598.20	17557.33	7267.00	9700.94	1875.08	-77.90	739.54	612.45	1.21	PASS	
17935.33	7422.00	9704.65	2598.21	17557.33	7267.00	9700.95	1875.08	-77.90	739.56	611.77	1.21	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

## POSITIONAL UNCERTAINTY - Offset Wellbore: BRIGHTON LAKES 20-17-1NAH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A 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 20-17-1NAH PWB Offset 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	-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	17558.00	16676.00	882.00	N/A	0.00	-27.35	N/A	N/A

## SURVEY PROGRAM - Offset Wellbore: Offset 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

## OFFSET WELLPATH REFERENCE - Offset Wellbore: BRIGHTON LAKES 20-17-1NAH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NAH (REV-A.0,NIO A 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 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	-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	62.25	PASS			
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-58.88	-90.00	58.88	2.47	38.42	PASS			
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-58.88	-90.00	58.88	3.08	27.40	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	4.31	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	1016.00	1016.00	0.00	-58.88	-90.00	58.88	6.40	10.22	PASS			
1025.00	1025.00	0.00	0.00	1025.00	1025.00	0.00	-58.88	-90.00	58.88	6.43	10.17	PASS			
1116.00†	1115.97	-0.46	2.12	1115.97	1115.97	0.00	-58.88	168.15	61.00	6.91	9.72	PASS			
1216.00†	1215.68	-2.03	9.32	1215.68	1215.68	0.00	-58.88	169.38	68.24	8.12	9.11	PASS			
1316.00†	1314.88	-4.70	21.62	1318.62	1318.58	-0.73	-56.71	170.59	78.52	9.55	8.80	PASS			
1416.00†	1413.27	-8.48	38.97	1422.47	1422.12	-3.25	-49.21	171.12	88.78	11.38	8.25	PASS			
1516.00†	1510.61	-13.34	61.33	1526.91	1525.65	-7.59	-36.31	171.16	98.97	13.16	7.89	PASS			
1616.00†	1606.61	-19.28	88.64	1631.92	1628.85	-13.77	-17.95	170.84	109.03	14.80	7.68	PASS			
1716.00†	1701.02	-26.27	120.82	1737.50	1731.37	-21.79	5.90	170.25	118.94	16.32	7.58	PASS			
1816.00†	1793.58	-34.31	157.79	1839.46	1829.19	-30.96	33.15	169.60	129.67	17.57	7.65	PASS			
1818.58	1795.94	-34.53	158.80	1842.02	1831.64	-31.19	33.84	169.59	130.01	17.60	7.66	PASS			
1916.00†	1885.07	-42.89	197.23	1938.61	1924.19	-40.01	60.05	169.27	142.68	18.38	8.03	PASS			
2016.00†	1976.56	-51.47	236.67	2037.76	2019.19	-49.06	86.95	169.00	155.69	19.32	8.33	PASS			
2116.00†	2068.05	-60.05	276.12	2136.90	2114.19	-58.11	113.85	168.77	168.71	20.23	8.60	PASS			
2216.00†	2159.54	-68.62	315.56	2236.05	2209.19	-67.16	140.75	168.57	181.73	21.24	8.81	PASS			
2316.00†	2251.03	-77.20	355.01	2335.20	2304.18	-76.21	167.65	168.40	194.75	22.31	8.98	PASS			
2416.00†	2342.53	-85.78	394.45	2434.34	2399.18	-85.26	194.56	168.25	207.77	23.42	9.12	PASS			
2516.00†	2434.02	-94.36	433.89	2533.49	2494.18	-94.31	221.46	168.11	220.79	24.57	9.22	PASS			
2616.00†	2525.51	-102.94	473.34	2632.64	2589.18	-103.36	248.36	167.99	233.82	25.75	9.31	PASS			
2716.00†	2617.00	-111.51	512.78	2731.79	2684.17	-112.41	275.26	167.89	246.84	26.96	9.38	PASS			
2816.00†	2708.49	-120.09	552.23	2830.93	2779.17	-121.46	302.16	167.79	259.87	28.19	9.43	PASS			
2916.00†	2799.98	-128.67	591.67	2930.08	2874.17	-130.51	329.06	167.71	272.89	29.45	9.47	PASS			
3016.00†	2891.47	-137.25	631.12	3029.23	2969.17	-139.56	355.97	167.63	285.92	30.72	9.50	PASS			
3116.00†	2982.96	-145.82	670.56	3128.37	3064.17	-148.61	382.87	167.56	298.95	32.01	9.53	PASS			
3216.00†	3074.45	-154.40	710.00	3227.52	3159.16	-157.66	409.77	167.49	311.97	33.32	9.55	PASS			
3316.00†	3165.94	-162.98	749.45	3326.67	3254.16	-166.71	436.67	167.43	325.00	34.64	9.56	PASS			
3416.00†	3257.43	-171.56	788.89	3425.82	3349.16	-175.76	463.57	167.38	338.03	35.97	9.57	PASS			
3516.00†	3348.92	-180.14	828.34	3524.96	3444.16	-184.81	490.47	167.33	351.06	37.31	9.57	PASS			
3616.00†	3440.42	-188.71	867.78	3624.11	3539.15	-193.86	517.37	167.28	364.09	38.66	9.58	PASS			
3716.00†	3531.91	-197.29	907.23	3723.26	3634.15	-202.91	544.28	167.24	377.12	40.01	9.58	PASS			
3816.00†	3623.40	-205.87	946.67	3822.40	3729.15	-211.96	571.18	167.19	390.15	41.38	9.58	PASS			
3916.00†	3714.89	-214.45	986.11	3921.55	3824.15	-221.01	598.08	167.16	403.18	42.75	9.57	PASS			
4016.00†	3806.38	-223.02	1025.56	4020.70	3919.14	-230.06	624.98	167.12	416.21	44.13	9.57	PASS			
4116.00†	3897.87	-231.60	1065.00	4119.85	4014.14	-239.11	651.88	167.09	429.24	45.51	9.56	PASS			
4216.00†	3989.36	-240.18	1104.45	4218.99	4109.14	-248.16	678.78	167.05	442.27	46.90	9.56	PASS			

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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 MSD [ft]	Sep Ratio	ACR Status										
4316.00†	4080.85	-248.76	1143.89	4318.14	4204.14	-257.21	705.69	167.02		455.30	48.29	9.55	PASS										
4416.00†	4172.34	-257.33	1183.34	4417.29	4299.14	-266.26	732.59	166.99		468.33	49.69	9.55	PASS										
4516.00†	4263.83	-265.91	1222.78	4516.43	4394.13	-275.30	759.49	166.97		481.36	51.09	9.54	PASS										
4616.00†	4355.32	-274.49	1262.22	4615.58	4489.13	-284.35	786.39	166.94		494.39	52.50	9.53	PASS										
4716.00†	4446.81	-283.07	1301.67	4714.73	4584.13	-293.40	813.29	166.92		507.42	53.90	9.53	PASS										
4816.00†	4538.31	-291.65	1341.11	4813.88	4679.13	-302.45	840.19	166.89		520.45	55.32	9.52	PASS										
4916.00†	4629.80	-300.22	1380.56	4913.02	4774.12	-311.50	867.09	166.87		533.48	56.73	9.51	PASS										
5016.00†	4721.29	-308.80	1420.00	5012.17	4869.12	-320.55	894.00	166.85		546.51	58.15	9.50	PASS										
5116.00†	4812.78	-317.38	1459.44	5111.32	4964.12	-329.60	920.90	166.83		559.54	59.56	9.49	PASS										
5216.00†	4904.27	-325.96	1498.89	5210.47	5059.12	-338.65	947.80	166.81		572.57	60.99	9.49	PASS										
5316.00†	4995.76	-334.53	1538.33	5309.61	5154.11	-347.70	974.70	166.79		585.60	62.41	9.48	PASS										
5416.00†	5087.25	-343.11	1577.78	5408.76	5249.11	-356.75	1001.60	166.78		598.63	63.83	9.47	PASS										
5516.00†	5178.74	-351.69	1617.22	5507.91	5344.11	-365.80	1028.50	166.76		611.67	65.26	9.46	PASS										
5616.00†	5270.23	-360.27	1656.67	5607.05	5439.11	-374.85	1055.41	166.74		624.70	66.69	9.46	PASS										
5716.00†	5361.72	-368.85	1696.11	5706.20	5534.11	-383.90	1082.31	166.73		637.73	68.12	9.45	PASS										
5816.00†	5453.21	-377.42	1735.55	5805.35	5629.10	-392.95	1109.21	166.71		650.76	69.55	9.44	PASS										
5916.00†	5544.70	-386.00	1775.00	5904.50	5724.10	-402.00	1136.11	166.70		663.79	70.98	9.44	PASS										
6016.00†	5636.20	-394.58	1814.44	6003.64	5819.10	-411.05	1163.01	166.69		676.82	72.42	9.43	PASS										
6116.00†	5727.69	-403.16	1853.89	6102.79	5914.10	-420.10	1189.91	166.67		689.85	73.86	9.42	PASS										
6216.00†	5819.18	-411.73	1893.33	6201.94	6009.09	-429.15	1216.81	166.66		702.88	75.29	9.41	PASS										
6316.00†	5910.67	-420.31	1932.78	6301.08	6104.09	-438.20	1243.72	166.65		715.92	76.73	9.41	PASS										
6416.00†	6002.16	-428.89	1972.22	6400.23	6199.09	-447.25	1270.62	166.64		728.95	78.17	9.40	PASS										
6516.00†	6093.65	-437.47	2011.66	6499.38	6294.09	-456.30	1297.52	166.63		741.98	79.61	9.39	PASS										
6616.00†	6185.14	-446.05	2051.11	6598.53	6389.09	-465.35	1324.42	166.62		755.01	81.05	9.39	PASS										
6716.00†	6276.63	-454.62	2090.55	6697.67	6484.08	-474.40	1351.32	166.61		768.04	82.49	9.38	PASS										
6816.00†	6368.12	-463.20	2130.00	6796.82	6579.08	-483.45	1378.22	166.60		781.07	83.93	9.38	PASS										
6916.00†	6459.61	-471.78	2169.44	6895.97	6674.08	-492.50	1405.13	166.59		794.11	85.38	9.37	PASS										
7016.00†	6551.10	-480.36	2208.89	6995.11	6769.08	-501.55	1432.03	166.58		807.14	86.82	9.36	PASS										
7116.00†	6642.59	-488.93	2248.33	7095.26	6865.07	-510.13	1459.21	166.61		820.15	88.22	9.36	PASS										
7216.00†	6734.09	-497.51	2287.77	7196.55	6962.31	-505.94	1486.77	167.53		832.93	88.58	9.47	PASS										
7316.00†	6825.58	-506.09	2327.22	7290.60	7050.68	-486.18	1511.83	169.42		846.12	87.86	9.70	PASS										
7343.82	6851.03	-508.48	2338.19	7314.93	7072.93	-478.64	1518.14	170.07		850.06	87.58	9.78	PASS										
7416.00†	6917.25	-510.13	2366.75	7375.73	7127.00	-455.56	1533.50	-170.64		860.98	86.87	9.98	PASS										
7516.00†	7008.21	-497.44	2405.99	7456.63	7194.75	-415.88	1552.74	-146.08		877.20	86.29	10.24	PASS										
7616.00†	7095.75	-467.75	2443.79	7534.49	7254.24	-368.69	1569.67	-127.72		893.88	86.12	10.46	PASS										
7716.00†	7177.23	-421.95	2478.98	7610.03	7305.57	-315.30	1584.28	-115.01		910.13	86.16	10.64	PASS										
7816.00†	7250.15	-361.43	2510.51	7683.82	7348.76	-256.82	1596.60	-106.20		925.15	86.29	10.80	PASS										
7916.00†	7312.31	-288.03	2537.42	7756.28	7383.80	-194.24	1606.61	-100.03		938.25	86.49	10.93	PASS										
8016.00†	7361.82	-203.99	2558.88	7827.78	7410.65	-128.48	1614.31	-95.78		948.84	86.74	11.02	PASS										
8116.00†	7397.17	-111.86	2574.25	7898.62	7429.28	-60.39	1619.68	-93.02		956.49	87.12	11.06	PASS										
8216.00†	7417.29	-14.43	2583.06	7969.04	7439.65	9.15	1622.72	-91.54		960.89	87.68	11.04	PASS										
8292.72	7422.00	62.06	2585.19	8023.36	7442.00	63.40	1623.46	-91.19		961.94	88.22	10.98	PASS										
8316.00†	7422.00	85.34	2585.23	8046.64	7442.00	86.67	1623.49	-91.19		961.94	88.38	10.96	PASS										
8416.00†	7422.00	185.34	2585.36	8146.64	7442.00	186.67	1623.63	-91.19		961.94	89.32	10.85	PASS										
8516.00†	7422.00	285.34	2585.50	8246.64	7442.00	286.67	1623.77	-91.19		961.94	90.81	10.67	PASS										

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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†	7422.00	385.34	2585.63	8346.64	7442.00	386.67	1623.91	-91.19	961.93	92.72	10.45	PASS	
8716.00†	7422.00	485.34	2585.77	8446.64	7442.00	486.67	1624.05	-91.19	961.93	94.15	10.28	PASS	
8816.00†	7422.00	585.34	2585.90	8546.64	7442.00	586.67	1624.19	-91.19	961.92	97.67	9.91	PASS	
8916.00†	7422.00	685.34	2586.04	8646.64	7442.00	686.67	1624.32	-91.19	961.92	100.67	9.62	PASS	
9016.00†	7422.00	785.34	2586.17	8746.64	7442.00	786.67	1624.46	-91.19	961.92	103.97	9.31	PASS	
9116.00†	7422.00	885.34	2586.31	8846.64	7442.00	886.67	1624.60	-91.19	961.91	107.54	9.00	PASS	
9216.00†	7422.00	985.34	2586.44	8946.64	7442.00	986.67	1624.74	-91.19	961.91	111.36	8.69	PASS	
9316.00†	7422.00	1085.34	2586.58	9046.64	7442.00	1086.67	1624.88	-91.19	961.90	115.41	8.38	PASS	
9416.00†	7422.00	1185.34	2586.71	9146.64	7442.00	1186.67	1625.02	-91.19	961.90	119.66	8.08	PASS	
9516.00†	7422.00	1285.34	2586.85	9246.64	7442.00	1286.67	1625.16	-91.19	961.90	124.08	7.79	PASS	
9616.00†	7422.00	1385.34	2586.98	9346.64	7442.00	1386.67	1625.30	-91.19	961.89	128.67	7.51	PASS	
9716.00†	7422.00	1485.34	2587.12	9446.64	7442.00	1486.67	1625.44	-91.19	961.89	133.41	7.24	PASS	
9816.00†	7422.00	1585.34	2587.25	9546.64	7442.00	1586.67	1625.57	-91.19	961.88	138.27	6.96	PASS	
9916.00†	7422.00	1685.34	2587.39	9646.64	7442.00	1686.67	1625.71	-91.19	961.88	143.25	6.74	PASS	
10016.00†	7422.00	1785.34	2587.52	9746.64	7442.00	1786.67	1625.85	-91.19	961.88	148.34	6.51	PASS	
10116.00†	7422.00	1885.34	2587.66	9846.64	7442.00	1886.67	1625.99	-91.19	961.87	153.52	6.29	PASS	
10216.00†	7422.00	1985.34	2587.79	9946.64	7442.00	1986.67	1626.13	-91.19	961.87	158.78	6.08	PASS	
10316.00†	7422.00	2085.34	2587.92	10046.64	7442.00	2086.67	1626.27	-91.19	961.86	164.13	5.88	PASS	
10416.00†	7422.00	2185.34	2588.06	10146.64	7442.00	2186.67	1626.41	-91.19	961.86	169.54	5.69	PASS	
10516.00†	7422.00	2285.34	2588.19	10246.64	7442.00	2286.67	1626.55	-91.19	961.86	175.01	5.51	PASS	
10616.00†	7422.00	2385.34	2588.33	10346.64	7442.00	2386.67	1626.69	-91.19	961.85	180.54	5.34	PASS	
10716.00†	7422.00	2485.34	2588.46	10446.64	7442.00	2486.67	1626.82	-91.19	961.85	186.13	5.18	PASS	
10816.00†	7422.00	2585.34	2588.60	10546.64	7442.00	2586.67	1626.96	-91.19	961.85	191.76	5.03	PASS	
10916.00†	7422.00	2685.34	2588.73	10646.64	7442.00	2686.67	1627.10	-91.19	961.84	197.43	4.89	PASS	
11016.00†	7422.00	2785.34	2588.87	10746.64	7442.00	2786.67	1627.24	-91.19	961.84	203.15	4.75	PASS	
11116.00†	7422.00	2885.34	2589.00	10846.64	7442.00	2886.67	1627.38	-91.19	961.83	208.90	4.62	PASS	
11216.00†	7422.00	2985.34	2589.14	10946.64	7442.00	2986.67	1627.52	-91.19	961.83	214.69	4.49	PASS	
11316.00†	7422.00	3085.34	2589.27	11046.64	7442.00	3086.67	1627.66	-91.19	961.83	220.50	4.37	PASS	
11416.00†	7422.00	3185.34	2589.41	11146.64	7442.00	3186.67	1627.80	-91.19	961.82	226.35	4.26	PASS	
11516.00†	7422.00	3285.34	2589.54	11246.64	7442.00	3286.67	1627.94	-91.19	961.82	232.22	4.15	PASS	
11616.00†	7422.00	3385.34	2589.68	11346.64	7442.00	3386.67	1628.07	-91.19	961.81	238.12	4.05	PASS	
11716.00†	7422.00	3485.34	2589.81	11446.64	7442.00	3486.67	1628.21	-91.19	961.81	244.04	3.95	PASS	
11816.00†	7422.00	3585.34	2589.95	11546.64	7442.00	3586.67	1628.35	-91.19	961.81	249.98	3.86	PASS	
11916.00†	7422.00	3685.34	2590.08	11646.64	7442.00	3686.67	1628.49	-91.19	961.80	255.94	3.77	PASS	
12016.00†	7422.00	3785.33	2590.22	11746.64	7442.00	3786.67	1628.63	-91.19	961.80	261.91	3.68	PASS	
12116.00†	7422.00	3885.33	2590.35	11846.64	7442.00	3886.67	1628.77	-91.19	961.79	267.91	3.60	PASS	
12216.00†	7422.00	3985.33	2590.49	11946.64	7442.00	3986.67	1628.91	-91.19	961.79	273.92	3.52	PASS	
12316.00†	7422.00	4085.33	2590.62	12046.64	7442.00	4086.67	1629.05	-91.19	961.79	279.94	3.44	PASS	
12416.00†	7422.00	4185.33	2590.76	12146.64	7442.00	4186.67	1629.19	-91.19	961.78	285.98	3.37	PASS	
12516.00†	7422.00	4285.33	2590.89	12246.64	7442.00	4286.67	1629.32	-91.19	961.78	292.04	3.30	PASS	
12616.00†	7422.00	4385.33	2591.03	12346.64	7442.00	4386.67	1629.46	-91.19	961.77	298.10	3.23	PASS	
12716.00†	7422.00	4485.33	2591.16	12446.64	7442.00	4486.67	1629.60	-91.19	961.77	304.18	3.17	PASS	
12816.00†	7422.00	4585.33	2591.30	12546.64	7442.00	4586.67	1629.74	-91.19	961.77	310.27	3.10	PASS	
12916.00†	7422.00	4685.33	2591.43	12646.64	7442.00	4686.67	1629.88	-91.19	961.76	316.36	3.04	PASS	
13016.00†	7422.00	4785.33	2591.57	12746.64	7442.00	4786.67	1630.02	-91.19	961.76	322.47	2.98	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft





# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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†	7422.00	4885.33	2591.70	12846.64	7442.00	4886.67	1630.16	-91.19	961.76	328.59	2.93	PASS	
13216.00†	7422.00	4985.33	2591.84	12946.64	7442.00	4986.67	1630.30	-91.19	961.75	334.71	2.88	PASS	
13316.00†	7422.00	5085.33	2591.97	13046.64	7442.00	5086.67	1630.43	-91.19	961.75	340.85	2.83	PASS	
13416.00†	7422.00	5185.33	2592.11	13146.64	7442.00	5186.67	1630.57	-91.19	961.74	346.99	2.78	PASS	
13516.00†	7422.00	5285.33	2592.24	13246.64	7442.00	5286.67	1630.71	-91.19	961.74	353.14	2.73	PASS	
13616.00†	7422.00	5385.33	2592.38	13346.64	7442.00	5386.67	1630.85	-91.19	961.74	359.29	2.68	PASS	
13716.00†	7422.00	5485.33	2592.51	13446.64	7442.00	5486.67	1630.99	-91.19	961.73	365.45	2.63	PASS	
13816.00†	7422.00	5585.33	2592.65	13546.64	7442.00	5586.67	1631.13	-91.19	961.73	371.62	2.59	PASS	
13916.00†	7422.00	5685.33	2592.78	13646.64	7442.00	5686.67	1631.27	-91.19	961.72	377.80	2.55	PASS	
14016.00†	7422.00	5785.33	2592.92	13746.64	7442.00	5786.67	1631.41	-91.19	961.72	383.98	2.51	PASS	
14116.00†	7422.00	5885.33	2593.05	13846.64	7442.00	5886.67	1631.55	-91.19	961.72	390.16	2.47	PASS	
14216.00†	7422.00	5985.33	2593.19	13946.64	7442.00	5986.67	1631.68	-91.19	961.71	396.35	2.43	PASS	
14316.00†	7422.00	6085.33	2593.32	14046.64	7442.00	6086.67	1631.82	-91.19	961.71	402.55	2.39	PASS	
14416.00†	7422.00	6185.33	2593.46	14146.64	7442.00	6186.67	1631.96	-91.19	961.70	408.75	2.36	PASS	
14516.00†	7422.00	6285.33	2593.59	14246.64	7442.00	6286.67	1632.10	-91.19	961.70	414.95	2.32	PASS	
14616.00†	7422.00	6385.33	2593.73	14346.64	7442.00	6386.67	1632.24	-91.19	961.70	421.16	2.29	PASS	
14716.00†	7422.00	6485.33	2593.86	14446.64	7442.00	6486.67	1632.38	-91.19	961.69	427.37	2.25	PASS	
14816.00†	7422.00	6585.33	2594.00	14546.64	7442.00	6586.67	1632.52	-91.19	961.69	433.59	2.22	PASS	
14916.00†	7422.00	6685.33	2594.13	14646.64	7442.00	6686.67	1632.66	-91.19	961.68	439.81	2.19	PASS	
15016.00†	7422.00	6785.33	2594.27	14746.64	7442.00	6786.67	1632.80	-91.19	961.68	446.03	2.16	PASS	
15116.00†	7422.00	6885.33	2594.40	14846.64	7442.00	6886.67	1632.93	-91.19	961.68	452.26	2.13	PASS	
15216.00†	7422.00	6985.33	2594.54	14946.64	7442.00	6986.67	1633.07	-91.19	961.67	458.49	2.10	PASS	
15316.00†	7422.00	7085.33	2594.67	15046.64	7442.00	7086.67	1633.21	-91.19	961.67	464.73	2.07	PASS	
15416.00†	7422.00	7185.33	2594.81	15146.64	7442.00	7186.67	1633.35	-91.19	961.66	470.96	2.04	PASS	
15516.00†	7422.00	7285.33	2594.94	15246.64	7442.00	7286.67	1633.49	-91.19	961.66	477.20	2.02	PASS	
15616.00†	7422.00	7385.33	2595.08	15346.64	7442.00	7386.67	1633.63	-91.19	961.66	483.45	1.99	PASS	
15716.00†	7422.00	7485.33	2595.21	15446.64	7442.00	7486.67	1633.77	-91.19	961.65	489.69	1.97	PASS	
15816.00†	7422.00	7585.33	2595.35	15546.64	7442.00	7586.67	1633.91	-91.19	961.65	495.94	1.94	PASS	
15916.00†	7422.00	7685.33	2595.48	15646.64	7442.00	7686.67	1634.05	-91.19	961.65	502.19	1.92	PASS	
16016.00†	7422.00	7785.33	2595.62	15746.64	7442.00	7786.67	1634.18	-91.19	961.64	508.44	1.89	PASS	
16116.00†	7422.00	7885.33	2595.75	15846.64	7442.00	7886.67	1634.32	-91.19	961.64	514.70	1.87	PASS	
16216.00†	7422.00	7985.33	2595.89	15946.64	7442.00	7986.67	1634.46	-91.19	961.63	520.96	1.85	PASS	
16316.00†	7422.00	8085.33	2596.02	16046.64	7442.00	8086.67	1634.60	-91.19	961.63	527.22	1.83	PASS	
16416.00†	7422.00	8185.33	2596.16	16146.64	7442.00	8186.67	1634.74	-91.19	961.63	533.48	1.80	PASS	
16516.00†	7422.00	8285.33	2596.29	16246.64	7442.00	8286.67	1634.88	-91.19	961.62	539.74	1.78	PASS	
16616.00†	7422.00	8385.33	2596.43	16346.64	7442.00	8386.67	1635.02	-91.19	961.62	546.01	1.76	PASS	
16716.00†	7422.00	8485.33	2596.56	16446.64	7442.00	8486.67	1635.16	-91.19	961.61	552.28	1.74	PASS	
16816.00†	7422.00	8585.33	2596.70	16546.64	7442.00	8586.67	1635.29	-91.19	961.61	558.55	1.72	PASS	
16916.00†	7422.00	8685.33	2596.83	16646.64	7442.00	8686.67	1635.43	-91.19	961.61	564.82	1.70	PASS	
17016.00†	7422.00	8785.33	2596.97	16746.64	7442.00	8786.67	1635.57	-91.19	961.60	571.09	1.68	PASS	
17116.00†	7422.00	8885.33	2597.10	16846.64	7442.00	8886.67	1635.71	-91.19	961.60	577.37	1.67	PASS	
17216.00†	7422.00	8985.33	2597.24	16946.64	7442.00	8986.67	1635.85	-91.19	961.59	583.64	1.65	PASS	
17316.00†	7422.00	9085.33	2597.37	17046.64	7442.00	9086.67	1635.99	-91.19	961.59	589.92	1.63	PASS	
17416.00†	7422.00	9185.33	2597.51	17146.64	7442.00	9186.67	1636.13	-91.19	961.59	596.20	1.61	PASS	
17516.00†	7422.00	9285.33	2597.64	17246.64	7442.00	9286.67	1636.27	-91.19	961.58	602.48	1.60	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	
17616.00†	7422.00	9385.33	2597.78	17346.64	7442.00	9386.66	1636.41	-91.19	961.58	608.76	1.58	PASS	
17716.00†	7422.00	9485.33	2597.91	17446.64	7442.00	9486.66	1636.54	-91.19	961.57	615.05	1.56	PASS	
17816.00†	7422.00	9585.33	2598.05	17546.64	7442.00	9586.66	1636.68	-91.19	961.57	621.33	1.55	PASS	
17916.00†	7422.00	9685.33	2598.18	17646.64	7442.00	9686.66	1636.82	-91.19	961.57	627.61	1.53	PASS	
17930.27†	7422.00	9699.60	2598.20	17660.90	7442.00	9700.92	1636.84	-91.19	961.57	628.51	1.53	PASS	
17935.33	7422.00	9704.65	2598.21	17660.90	7442.00	9700.93	1636.84	-91.19	961.58	628.02	1.53	PASS	

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	-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	17661.00	16779.00	882.00	N/A	0.00	-35.89	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 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	-75.71	-90.00	75.71	1.56	124.57	PASS	
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	-75.71	-90.00	75.71	1.89	80.35	PASS	
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-75.71	-90.00	75.71	2.47	49.60	PASS	
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-75.71	-90.00	75.71	3.08	35.37	PASS	
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	-75.71	-90.00	75.71	3.69	27.38	PASS	
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	-75.71	-90.00	75.71	4.31	22.31	PASS	
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	-75.71	-90.00	75.71	4.94	18.81	PASS	
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	-75.71	-90.00	75.71	5.56	16.26	PASS	
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	-75.71	-90.00	75.71	6.19	14.31	PASS	
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	-75.71	-90.00	75.71	6.26	13.52	PASS	
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	-75.71	-90.00	75.71	6.40	13.19	PASS	
1025.00	1025.00	0.00	0.00	1025.00	1025.00	0.00	-75.71	-90.00	75.71	6.42	13.13	PASS	
1116.00†	1115.97	-0.46	2.12	1115.97	1115.97	0.00	-75.71	168.06	77.82	6.90	12.46	PASS	
1216.00†	1215.68	-2.03	9.32	1215.68	1215.68	0.00	-75.71	169.04	85.05	8.10	11.41	PASS	
1316.00†	1314.88	-4.70	21.62	1316.90	1316.89	-0.17	-75.28	170.33	97.03	9.37	11.12	PASS	
1416.00†	1413.27	-8.48	38.97	1421.43	1421.29	-2.03	-70.48	171.05	109.93	10.88	10.73	PASS	
1516.00†	1510.61	-13.34	61.33	1526.71	1525.99	-6.00	-60.27	171.18	122.79	12.67	10.21	PASS	
1616.00†	1606.61	-19.28	88.64	1632.73	1630.64	-12.10	-44.57	170.89	135.55	14.42	9.83	PASS	
1716.00†	1701.02	-26.27	120.82	1739.45	1734.89	-20.36	-23.33	170.27	148.19	15.98	9.66	PASS	
1816.00†	1793.58	-34.31	157.79	1839.87	1832.12	-29.45	0.05	169.65	162.45	17.16	9.83	PASS	
1818.58	1795.94	-34.53	158.80	1842.41	1834.58	-29.68	0.64	169.64	162.88	17.19	9.84	PASS	
1916.00†	1885.07	-42.89	197.23	1938.43	1927.54	-38.41	23.09	169.36	179.30	17.97	10.35	PASS	
2016.00†	1976.56	-51.47	236.67	2037.00	2022.95	-47.37	46.12	169.12	196.16	18.85	10.77	PASS	
2116.00†	2068.05	-60.05	276.12	2135.57	2118.37	-56.32	69.16	168.92	213.02	19.66	11.08	PASS	
2216.00†	2159.54	-68.62	315.56	2234.13	2213.79	-65.28	92.20	168.75	229.88	20.80	11.41	PASS	
2316.00†	2251.03	-77.20	355.01	2332.70	2309.20	-74.24	115.24	168.60	246.74	21.84	11.64	PASS	
2416.00†	2342.53	-85.78	394.45	2431.26	2404.62	-83.19	138.27	168.48	263.61	22.93	11.83	PASS	
2516.00†	2434.02	-94.36	433.89	2529.83	2500.04	-92.15	161.31	168.36	280.47	24.05	11.98	PASS	
2616.00†	2525.51	-102.94	473.34	2628.40	2595.45	-101.11	184.35	168.26	297.34	25.21	12.11	PASS	
2716.00†	2617.00	-111.51	512.78	2726.96	2690.87	-110.07	207.39	168.17	314.21	26.38	12.21	PASS	
2816.00†	2708.49	-120.09	552.23	2825.53	2786.29	-119.02	230.42	168.09	331.08	27.59	12.29	PASS	
2916.00†	2799.98	-128.67	591.67	2924.09	2881.70	-127.98	253.46	168.02	347.95	28.81	12.36	PASS	
3016.00†	2891.47	-137.25	631.12	3022.66	2977.12	-136.94	276.50	167.95	364.81	30.05	12.41	PASS	
3116.00†	2982.96	-145.82	670.56	3121.23	3072.53	-145.89	299.54	167.89	381.68	31.30	12.45	PASS	
3216.00†	3074.45	-154.40	710.00	3219.79	3167.95	-154.85	322.57	167.84	398.55	32.57	12.49	PASS	
3316.00†	3165.94	-162.98	749.45	3318.36	3263.37	-163.81	345.61	167.79	415.43	33.85	12.51	PASS	
3416.00†	3257.43	-171.56	788.89	3416.92	3358.78	-172.76	368.65	167.74	432.30	35.14	12.53	PASS	
3516.00†	3348.92	-180.14	828.34	3515.49	3454.20	-181.72	391.68	167.70	449.17	36.44	12.55	PASS	
3616.00†	3440.42	-188.71	867.78	3614.06	3549.62	-190.68	414.72	167.66	466.04	37.75	12.56	PASS	
3716.00†	3531.91	-197.29	907.23	3712.62	3645.03	-199.63	437.76	167.62	482.91	39.07	12.57	PASS	
3816.00†	3623.40	-205.87	946.67	3811.19	3740.45	-208.59	460.80	167.59	499.78	40.39	12.58	PASS	
3916.00†	3714.89	-214.45	986.11	3909.75	3835.87	-217.55	483.83	167.55	516.65	41.72	12.58	PASS	
4016.00†	3806.38	-223.02	1025.56	4008.32	3931.28	-226.50	506.87	167.52	533.53	43.05	12.58	PASS	
4116.00†	3897.87	-231.60	1065.00	4106.89	4026.70	-235.46	529.91	167.49	550.40	44.39	12.58	PASS	
4216.00†	3989.36	-240.18	1104.45	4205.45	4122.12	-244.42	552.95	167.47	567.27	45.74	12.58	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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†	4080.85	-248.76	1143.89	4304.02	4217.53	-253.37	575.98	167.44	584.14	47.09	12.58	PASS
4416.00†	4172.34	-257.33	1183.34	4402.58	4312.95	-262.33	599.02	167.42	601.02	48.44	12.58	PASS
4516.00†	4263.83	-265.91	1222.78	4501.15	4408.37	-271.29	622.06	167.40	617.89	49.80	12.57	PASS
4616.00†	4355.32	-274.49	1262.22	4599.72	4503.78	-280.25	645.09	167.37	634.76	51.16	12.57	PASS
4716.00†	4446.81	-283.07	1301.67	4698.28	4599.20	-289.20	668.13	167.35	651.63	52.52	12.56	PASS
4816.00†	4538.31	-291.65	1341.11	4796.85	4694.62	-298.16	691.17	167.33	668.51	53.89	12.56	PASS
4916.00†	4629.80	-300.22	1380.56	4895.41	4790.03	-307.12	714.21	167.32	685.38	55.26	12.55	PASS
5016.00†	4721.29	-308.80	1420.00	4993.98	4885.45	-316.07	737.24	167.30	702.25	56.63	12.55	PASS
5116.00†	4812.78	-317.38	1459.44	5092.55	4980.87	-325.03	760.28	167.28	719.13	58.00	12.54	PASS
5216.00†	4904.27	-325.96	1498.89	5191.11	5076.28	-333.99	783.32	167.27	736.00	59.38	12.53	PASS
5316.00†	4995.76	-334.53	1538.33	5289.68	5171.70	-342.94	806.36	167.25	752.87	60.76	12.53	PASS
5416.00†	5087.25	-343.11	1577.78	5388.24	5267.11	-351.90	829.39	167.24	769.75	62.14	12.52	PASS
5516.00†	5178.74	-351.69	1617.22	5486.81	5362.53	-360.86	852.43	167.22	786.62	63.52	12.51	PASS
5616.00†	5270.23	-360.27	1656.67	5585.38	5457.95	-369.81	875.47	167.21	803.49	64.90	12.51	PASS
5716.00†	5361.72	-368.85	1696.11	5683.94	5553.36	-378.77	898.51	167.20	820.36	66.28	12.50	PASS
5816.00†	5453.21	-377.42	1735.55	5782.51	5648.78	-387.73	921.54	167.19	837.24	67.67	12.49	PASS
5916.00†	5544.70	-386.00	1775.00	5881.07	5744.20	-396.68	944.58	167.17	854.11	69.06	12.49	PASS
6016.00†	5636.20	-394.58	1814.44	5979.64	5839.61	-405.64	967.62	167.16	870.99	70.44	12.48	PASS
6116.00†	5727.69	-403.16	1853.89	6078.21	5935.03	-414.60	990.65	167.15	887.86	71.83	12.47	PASS
6216.00†	5819.18	-411.73	1893.33	6176.77	6030.45	-423.56	1013.69	167.14	904.73	73.22	12.47	PASS
6316.00†	5910.67	-420.31	1932.78	6275.34	6125.86	-432.51	1036.73	167.13	921.61	74.61	12.46	PASS
6416.00†	6002.16	-428.89	1972.22	6373.90	6221.28	-441.47	1059.77	167.12	938.48	76.01	12.45	PASS
6516.00†	6093.65	-437.47	2011.66	6472.47	6316.70	-450.43	1082.80	167.11	955.35	77.40	12.45	PASS
6616.00†	6185.14	-446.05	2051.11	6571.04	6412.11	-459.38	1105.84	167.10	972.23	78.80	12.44	PASS
6716.00†	6276.63	-454.62	2090.55	6669.60	6507.53	-468.34	1128.88	167.09	989.10	80.19	12.44	PASS

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	-46.15	0.00	-46.15
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	-46.15	0.00	-46.15
8.5in Open Hole	882.00	17698.07	16816.07	882.00	7542.00	0.00	-46.15	2955.73	401.52



**Clearance Report**  
BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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**REFERENCE WELLPATH IDENTIFICATION**

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH PWB
Facility	SEC.20-T01S-R66W		

**SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: 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 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	-89.72	-90.00	89.72	1.56	147.94	PASS	
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	-89.72	-90.00	89.72	1.89	95.46	PASS	
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-89.72	-90.00	89.72	2.47	58.93	PASS	
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-89.72	-90.00	89.72	3.08	42.02	PASS	
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	-89.72	-90.00	89.72	3.69	32.53	PASS	
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	-89.72	-90.00	89.72	4.31	26.50	PASS	
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	-89.72	-90.00	89.72	4.94	22.34	PASS	
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	-89.72	-90.00	89.72	5.56	19.31	PASS	
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	-89.72	-90.00	89.72	6.19	17.00	PASS	
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	-89.72	-90.00	89.72	6.82	16.05	PASS	
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	-89.72	-90.00	89.72	7.45	15.64	PASS	
1025.00	1025.00	0.00	0.00	1025.00	1025.00	0.00	-89.72	-90.00	89.72	6.43	15.57	PASS	
1116.00†	1115.97	-0.46	2.12	1115.97	1115.97	0.00	-89.72	168.01	91.84	6.91	14.70	PASS	
1216.00†	1215.68	-2.03	9.32	1215.68	1215.68	0.00	-89.72	168.85	99.07	8.11	13.28	PASS	
1316.00†	1314.88	-4.70	21.62	1314.88	1314.88	0.00	-89.72	170.04	111.45	9.37	12.78	PASS	
1416.00†	1413.27	-8.48	38.97	1419.13	1419.09	-0.98	-87.62	171.02	126.95	10.74	12.58	PASS	
1516.00†	1510.61	-13.34	61.33	1524.86	1524.49	-4.40	-80.25	171.28	142.54	12.46	12.07	PASS	
1616.00†	1606.61	-19.28	88.64	1631.45	1630.14	-10.33	-67.47	171.00	158.13	14.21	11.66	PASS	
1716.00†	1701.02	-26.27	120.82	1738.66	1735.44	-18.79	-49.25	170.33	173.68	15.76	11.49	PASS	
1816.00†	1793.58	-34.31	157.79	1836.97	1831.47	-27.63	-30.21	169.74	191.89	16.89	11.82	PASS	
1818.58	1795.94	-34.53	158.80	1839.49	1833.93	-27.86	-29.72	169.73	192.43	16.92	11.83	PASS	
1916.00†	1885.07	-42.89	197.23	1934.76	1927.01	-36.43	-11.26	169.48	212.77	17.71	12.48	PASS	
2016.00†	1976.56	-51.47	236.67	2032.55	2022.54	-45.22	7.68	169.27	233.65	18.58	13.03	PASS	
2116.00†	2068.05	-60.05	276.12	2130.35	2118.08	-54.02	26.62	169.09	254.53	19.54	13.48	PASS	
2216.00†	2159.54	-68.62	315.56	2228.14	2213.62	-62.82	45.57	168.93	275.42	20.53	13.86	PASS	
2316.00†	2251.03	-77.20	355.01	2325.93	2309.15	-71.61	64.51	168.80	296.30	21.54	14.19	PASS	
2416.00†	2342.53	-85.78	394.45	2423.72	2404.69	-80.41	83.46	168.69	317.19	22.61	14.45	PASS	
2516.00†	2434.02	-94.36	433.89	2521.51	2500.22	-89.20	102.40	168.59	338.08	23.72	14.66	PASS	
2616.00†	2525.51	-102.94	473.34	2619.31	2595.76	-98.00	121.34	168.50	358.97	24.85	14.84	PASS	
2716.00†	2617.00	-111.51	512.78	2717.10	2691.30	-106.80	140.29	168.42	379.86	26.01	14.99	PASS	
2816.00†	2708.49	-120.09	552.23	2814.89	2786.83	-115.59	159.23	168.35	400.75	27.18	15.11	PASS	
2916.00†	2799.98	-128.67	591.67	2912.68	2882.37	-124.39	178.18	168.29	421.64	28.38	15.21	PASS	
3016.00†	2891.47	-137.25	631.12	3010.48	2977.90	-133.18	197.12	168.23	442.54	29.60	15.29	PASS	
3116.00†	2982.96	-145.82	670.56	3108.27	3073.44	-141.98	216.07	168.18	463.43	30.82	15.36	PASS	
3216.00†	3074.45	-154.40	710.00	3206.06	3168.97	-150.78	235.01	168.13	484.32	32.06	15.42	PASS	
3316.00†	3165.94	-162.98	749.45	3303.85	3264.51	-159.57	253.95	168.09	505.21	33.32	15.47	PASS	
3416.00†	3257.43	-171.56	788.89	3401.65	3360.05	-168.37	272.90	168.05	526.11	34.58	15.51	PASS	
3516.00†	3348.92	-180.14	828.34	3499.44	3455.58	-177.16	291.84	168.01	547.00	35.85	15.55	PASS	
3616.00†	3440.42	-188.71	867.78	3597.23	3551.12	-185.96	310.79	167.98	567.89	37.13	15.57	PASS	
3716.00†	3531.91	-197.29	907.23	3695.02	3646.65	-194.75	329.73	167.95	588.79	38.42	15.60	PASS	
3816.00†	3623.40	-205.87	946.67	3792.82	3742.19	-203.55	348.68	167.92	609.68	39.71	15.61	PASS	
3916.00†	3714.89	-214.45	986.11	3890.61	3837.73	-212.35	367.62	167.89	630.58	41.01	15.63	PASS	
4016.00†	3806.38	-223.02	1025.56	3988.40	3933.26	-221.14	386.56	167.86	651.47	42.31	15.64	PASS	
4116.00†	3897.87	-231.60	1065.00	4086.19	4028.80	-229.94	405.51	167.84	672.37	43.62	15.65	PASS	
4216.00†	3989.36	-240.18	1104.45	4183.98	4124.33	-238.73	424.45	167.82	693.26	44.93	15.66	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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†	4080.85	-248.76	1143.89	4281.78	4219.87	-247.53	443.40	167.79	714.16	46.25	15.67	PASS
4416.00†	4172.34	-257.33	1183.34	4379.57	4315.40	-256.33	462.34	167.77	735.05	47.57	15.67	PASS
4516.00†	4263.83	-265.91	1222.78	4477.36	4410.94	-265.12	481.29	167.76	755.95	48.90	15.67	PASS
4616.00†	4355.32	-274.49	1262.22	4575.15	4506.48	-273.92	500.23	167.74	776.84	50.22	15.67	PASS
4716.00†	4446.81	-283.07	1301.67	4672.95	4602.01	-282.71	519.17	167.72	797.74	51.56	15.67	PASS
4816.00†	4538.31	-291.65	1341.11	4770.74	4697.55	-291.51	538.12	167.70	818.63	52.89	15.67	PASS
4916.00†	4629.80	-300.22	1380.56	4868.53	4793.08	-300.30	557.06	167.69	839.53	54.22	15.67	PASS
5016.00†	4721.29	-308.80	1420.00	4966.32	4888.62	-309.10	576.01	167.67	860.42	55.56	15.67	PASS
5116.00†	4812.78	-317.38	1459.44	5064.12	4984.15	-317.90	594.95	167.66	881.32	56.90	15.67	PASS
5216.00†	4904.27	-325.96	1498.89	5161.91	5079.69	-326.69	613.90	167.65	902.21	58.25	15.67	PASS
5316.00†	4995.76	-334.53	1538.33	5259.70	5175.23	-335.49	632.84	167.63	923.11	59.59	15.67	PASS
5416.00†	5087.25	-343.11	1577.78	5357.49	5270.76	-344.28	651.78	167.62	944.00	60.94	15.66	PASS
5516.00†	5178.74	-351.69	1617.22	5455.28	5366.30	-353.08	670.73	167.61	964.90	62.28	15.66	PASS
5616.00†	5270.23	-360.27	1656.67	5553.08	5461.83	-361.88	689.67	167.60	985.79	63.63	15.66	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	-54.70	0.00	-54.70
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	-54.70	0.00	-54.70
8.5in Open Hole	882.00	17814.81	16932.81	882.00	7707.00	0.00	-54.70	2955.72	322.07

## SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: 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 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	-856.08	-8.15	6042.10	25.57	245.56	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	-521.80	3646.40	-521.46
8.625in Casing Surface	0.00	158.00	158.00	18.00	175.99	3646.11	-521.80	3646.40	-521.46
7.875in Open Hole	158.00	8210.00	8052.00	175.99	8226.90	3646.40	-521.46	3641.73	-536.88
4.5in Casing Production	0.00	8210.00	8210.00	18.00	8226.90	3646.11	-521.80	3641.73	-536.88

## 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 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH 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	-441.29	-27.81	945.98	25.57	38.41	PASS	
116.00†	116.00	0.00	0.00	104.75	127.75	836.45	-440.42	-27.77	945.39	50.13	19.19	PASS	
216.00†	216.00	0.00	0.00	210.78	233.78	835.51	-438.59	-27.70	943.80	49.98	19.16	PASS	
316.00†	316.00	0.00	0.00	311.35	334.30	834.05	-437.18	-27.66	941.86	50.00	19.11	PASS	
416.00†	416.00	0.00	0.00	407.52	430.46	832.38	-436.77	-27.69	940.12	50.04	19.06	PASS	
516.00†	516.00	0.00	0.00	504.71	527.63	830.46	-437.52	-27.78	938.74	50.09	19.01	PASS	
616.00†	616.00	0.00	0.00	603.64	626.51	828.17	-439.36	-27.95	937.56	50.13	18.97	PASS	
716.00†	716.00	0.00	0.00	703.96	726.77	825.60	-441.74	-28.15	936.41	50.18	18.93	PASS	
816.00†	816.00	0.00	0.00	797.84	820.60	823.45	-444.10	-28.34	935.59	50.24	18.89	PASS	
916.00†	916.00	0.00	0.00	897.17	919.88	821.61	-446.58	-28.53	935.14	50.08	18.87	PASS	
1016.00†	1016.00	0.00	0.00	995.31	1017.98	820.07	-448.76	-28.69	934.83	50.12	18.85	PASS	
1025.00	1025.00	0.00	0.00	1003.92	1026.59	819.95	-448.94	-28.70	934.81	50.12	18.84	PASS	
1027.84†	1027.84	0.00	0.00	1008.13	1030.79	819.90	-449.02	-130.98	934.81	50.12	18.84	PASS	
1054.08†	1054.08	-0.05	0.22	1030.90	1053.56	819.64	-449.47	-131.02	934.94	50.14	18.84	PASS	
1116.00†	1115.97	-0.46	2.12	1088.30	1110.95	819.27	-450.50	-131.13	936.40	50.17	18.86	PASS	
1216.00†	1215.68	-2.03	9.32	1185.86	1208.50	819.24	-451.93	-131.41	941.96	50.27	18.93	PASS	
1316.00†	1314.88	-4.70	21.62	1295.09	1317.73	818.96	-453.10	-131.91	950.68	50.42	19.05	PASS	
1416.00†	1413.27	-8.48	38.97	1393.09	1415.71	818.08	-454.01	-132.50	962.41	50.60	19.22	PASS	
1516.00†	1510.61	-13.34	61.33	1489.91	1512.52	817.13	-455.16	-133.21	977.98	50.80	19.45	PASS	
1616.00†	1606.61	-19.28	88.64	1586.61	1609.21	816.04	-456.47	-134.04	997.45	51.04	19.74	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	-269.01	509.94	-268.61
8.625in Casing Surface	0.00	132.00	132.00	7.00	138.99	510.08	-269.01	509.94	-268.61
7.875in Open Hole	132.00	8231.00	8099.00	138.99	8236.91	509.94	-268.61	499.15	-287.16
4.5in Casing Production	0.00	8231.00	8231.00	7.00	8236.91	510.08	-269.01	499.15	-287.16

## 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 Genenc 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



**Clearance Report**  
BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-3NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-3NBH PWB
Facility	SEC.20-T01S-R66W		

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