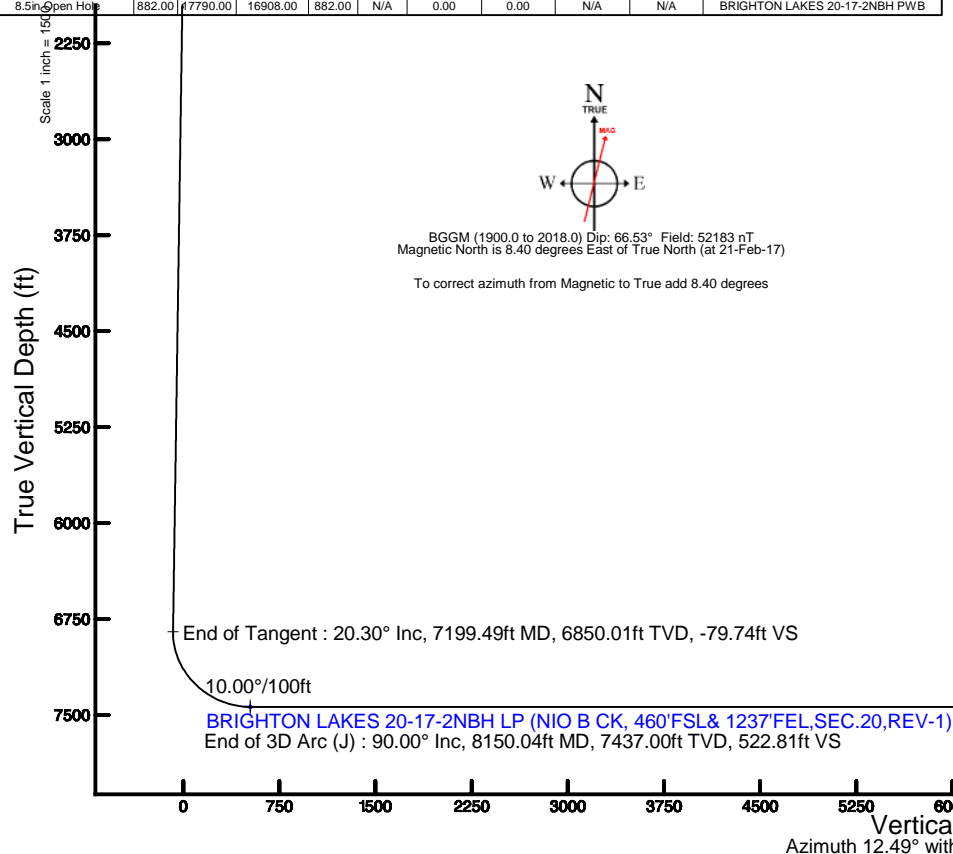


Location:	COLORADO	Slot:	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Field:	ADAMS COUNTY (NAD83/ TRUE NORTH)	Well:	BRIGHTON LAKES 20-17-2NBH
Facility:	SEC.20-T01S-R66W	Wellbore:	BRIGHTON LAKES 20-17-2NBH PWB

Plot reference wellpath is BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PW/P	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to RIG (16RKB) (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to RIG (16RKB) (RKB)	North Reference: True north
RIG (16RKB) (RKB) to Mean Sea Level: 5063 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC 20)); 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdanm on 2017-02-23
	Database: WA_Denver

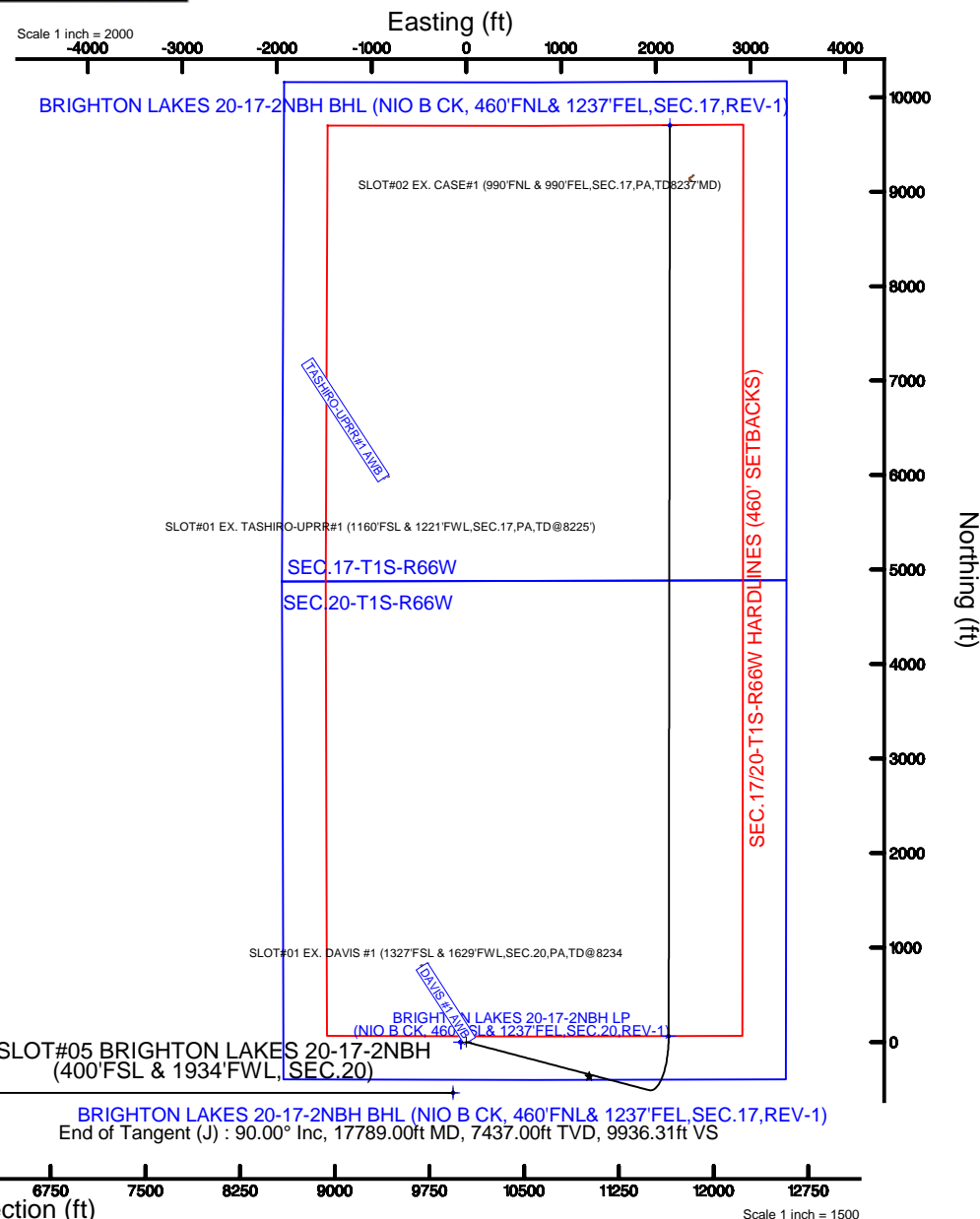
Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC.20-T01S-R66W			3195665.301	1223370.474	39°56'39.912"N	104°48'07.704"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SLOT#05 BRIGHTON LAKES 20-17-2NBH (400FSL & 1934FWL, SEC.20)	0.00	58.88	3195724.179	1223370.938	39°56'39.912"N	104°48'06.948"W
RIG (16'RXB) (RKB) to Mud line (At Slot: SLOT#05 BRIGHTON LAKES 20-17-2NBH (400FSL & 1934FWL, SEC.20))					5063ft	
Mean Sea Level to Mud line (At Slot: SLOT#05 BRIGHTON LAKES 20-17-2NBH (400FSL & 1934FWL, SEC.20))					0ft	
RIG (16'RXB) (RKB) to Mean Sea Level					5063ft	

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 20-17-2NBH 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 20-17-2NBH PWB
8.5in Open Hole	882.00	7779.00	16908.00	882.00	N/A	0.00	0.00	N/A	N/A	BRIGHTON LAKES 20-17-2NBH PWB



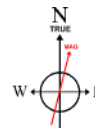
Design Comment	MB (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	16.00	0.000	104.790	16.00	0.00	0.00	0.00	0.00
End of Tangent	1125.00	0.000	104.790	1125.00	0.00	0.00	0.00	0.00
End of Build	1801.81	20.304	104.790	1787.74	-30.29	114.74	3.00	-4.75
End of Tangent	7199.49	20.304	104.790	6850.01	-508.42	1925.72	0.00	-79.74
End of 3D Arc (J)	8150.04	90.000	0.078	7437.00	62.02	2136.57	10.00	522.81
End of Tangent (J)	17789.00	90.000	0.078	7437.00	9700.97	2149.76	0.00	9936.31

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



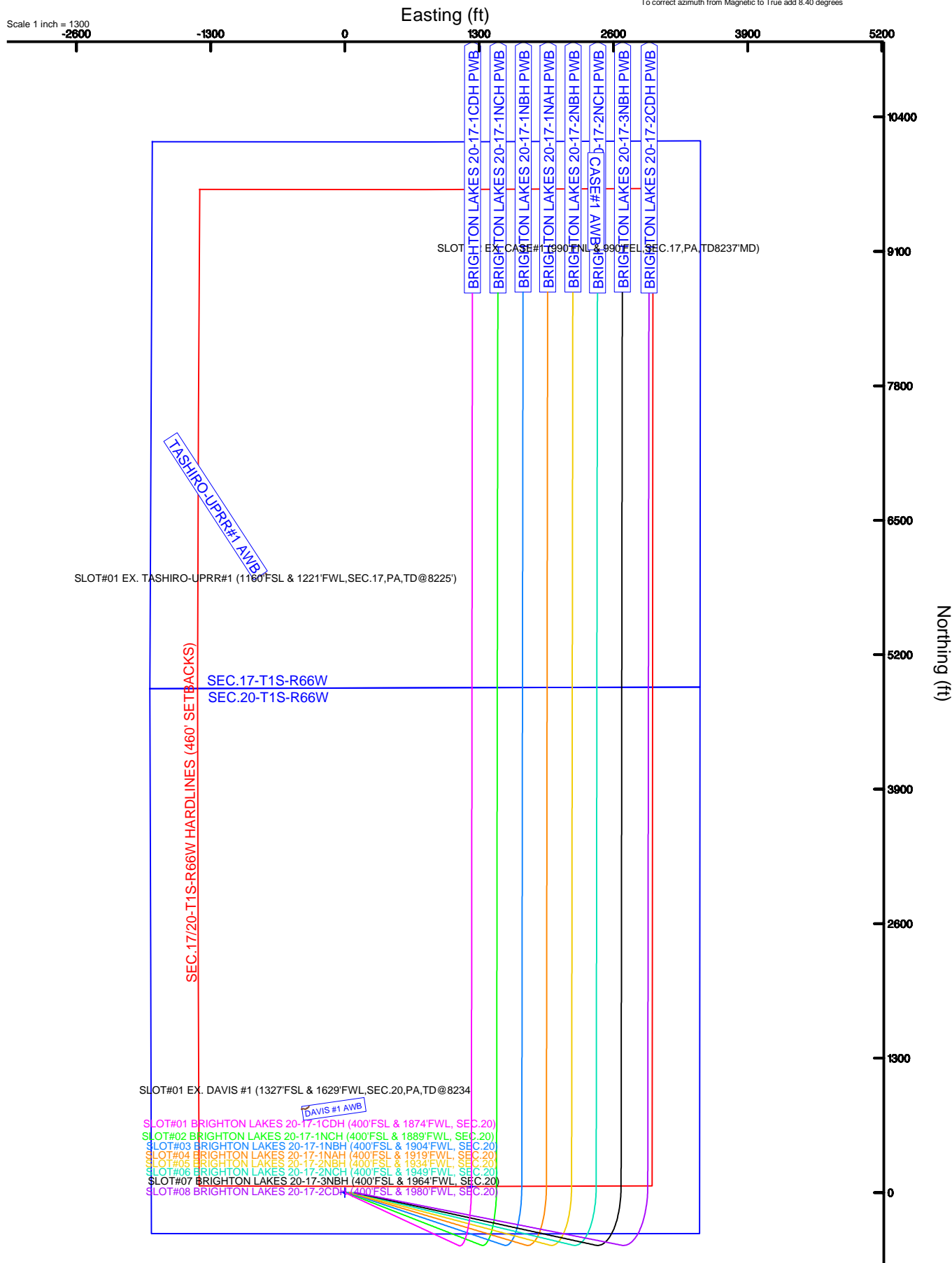
# PETROSHARE

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

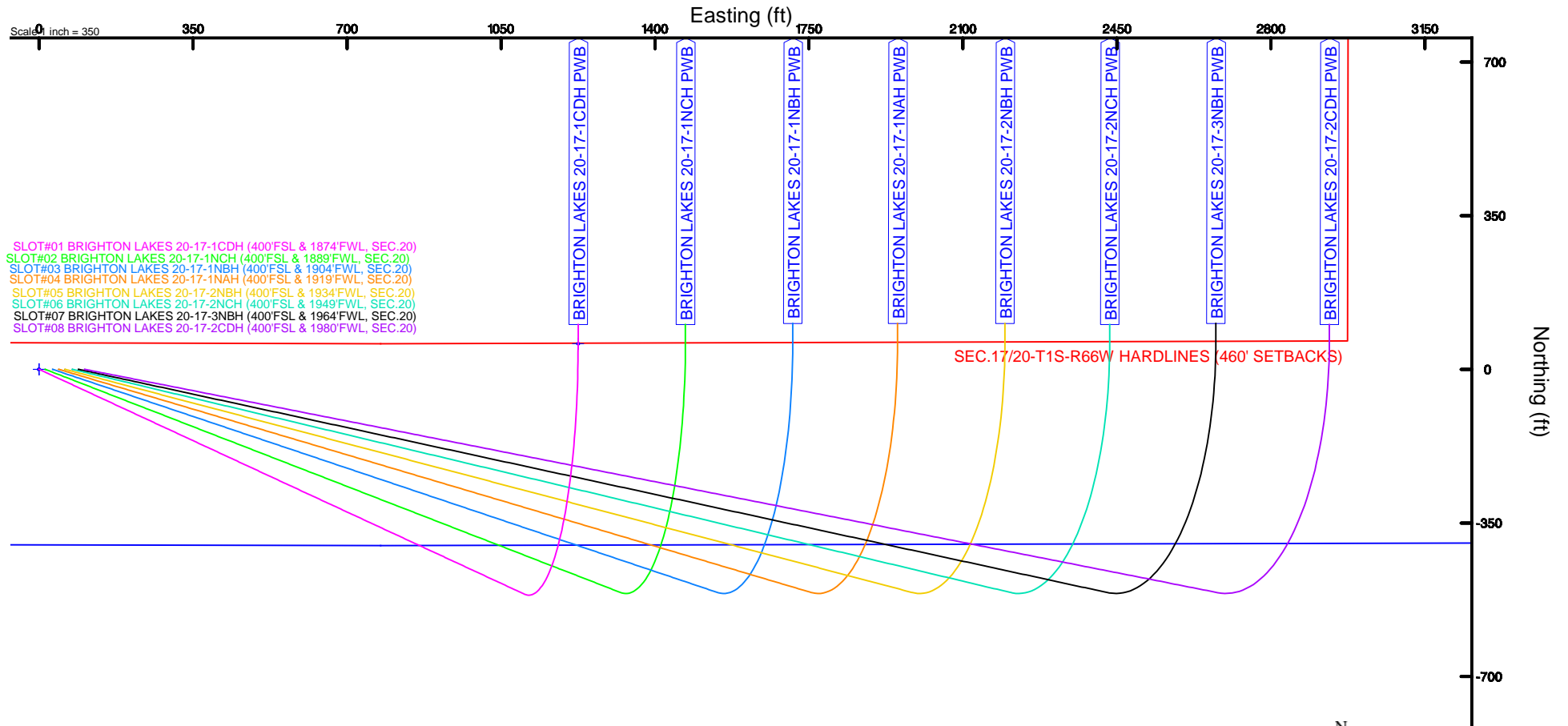


# PETROSHARE

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 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Page 1 of 7



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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 10:15:06 AM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/BRIGHTON_LAKES_20-17-2NBH_NIO_B_CK_REV-A.0_PWP.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	58.88	3195724.18	1223370.94	39°56'39.912"N	104°48'06.948"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#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'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	12.49°



# Planned Wellpath Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Page 2 of 7



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH DATA (190 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	104.790	0.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.948"W	0.00	
16.00	0.000	104.790	16.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.948"W	0.00	Tie On
116.00†	0.000	104.790	116.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.948"W	0.00	
216.00†	0.000	104.790	216.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.948"W	0.00	
316.00†	0.000	104.790	316.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.948"W	0.00	
416.00†	0.000	104.790	416.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.948"W	0.00	
516.00†	0.000	104.790	516.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.948"W	0.00	
616.00†	0.000	104.790	616.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.948"W	0.00	
716.00†	0.000	104.790	716.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.948"W	0.00	
816.00†	0.000	104.790	816.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.948"W	0.00	
882.00†	0.000	104.790	882.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.948"W	0.00	Fox Hills (Surface Csg)
916.00†	0.000	104.790	916.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.948"W	0.00	
1016.00†	0.000	104.790	1016.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.948"W	0.00	
1116.00†	0.000	104.790	1116.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.948"W	0.00	
1125.00	0.000	104.790	1125.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.948"W	0.00	End of Tangent
1216.00†	2.730	104.790	1215.97	-0.09	-0.55	2.10	39°56'39.907"N	104°48'06.921"W	3.00	
1316.00†	5.730	104.790	1315.68	-0.38	-2.44	9.23	39°56'39.888"N	104°48'06.830"W	3.00	
1416.00†	8.730	104.790	1414.88	-0.89	-5.65	21.39	39°56'39.856"N	104°48'06.673"W	3.00	
1516.00†	11.730	104.790	1513.27	-1.60	-10.18	38.56	39°56'39.811"N	104°48'06.453"W	3.00	
1616.00†	14.730	104.790	1610.61	-2.51	-16.02	60.69	39°56'39.754"N	104°48'06.169"W	3.00	
1716.00†	17.730	104.790	1706.61	-3.63	-23.16	87.71	39°56'39.683"N	104°48'05.822"W	3.00	
1801.81	20.304	104.790	1787.74	-4.75	-30.29	114.74	39°56'39.613"N	104°48'05.475"W	3.00	End of Build
1816.00†	20.304	104.790	1801.04	-4.95	-31.55	119.50	39°56'39.600"N	104°48'05.414"W	0.00	
1916.00†	20.304	104.790	1894.83	-6.34	-40.41	153.05	39°56'39.513"N	104°48'04.983"W	0.00	
2016.00†	20.304	104.790	1988.61	-7.73	-49.27	186.60	39°56'39.425"N	104°48'04.552"W	0.00	
2116.00†	20.304	104.790	2082.40	-9.12	-58.12	220.16	39°56'39.338"N	104°48'04.121"W	0.00	
2216.00†	20.304	104.790	2176.19	-10.51	-66.98	253.71	39°56'39.250"N	104°48'03.691"W	0.00	
2316.00†	20.304	104.790	2269.97	-11.89	-75.84	287.26	39°56'39.162"N	104°48'03.260"W	0.00	
2416.00†	20.304	104.790	2363.76	-13.28	-84.70	320.81	39°56'39.075"N	104°48'02.829"W	0.00	
2516.00†	20.304	104.790	2457.54	-14.67	-93.56	354.36	39°56'38.987"N	104°48'02.398"W	0.00	
2616.00†	20.304	104.790	2551.33	-16.06	-102.41	387.91	39°56'38.900"N	104°48'01.968"W	0.00	
2716.00†	20.304	104.790	2645.12	-17.45	-111.27	421.46	39°56'38.812"N	104°48'01.537"W	0.00	
2816.00†	20.304	104.790	2738.90	-18.84	-120.13	455.01	39°56'38.725"N	104°48'01.106"W	0.00	
2916.00†	20.304	104.790	2832.69	-20.23	-128.99	488.57	39°56'38.637"N	104°48'00.675"W	0.00	
3016.00†	20.304	104.790	2926.48	-21.62	-137.85	522.12	39°56'38.550"N	104°48'00.244"W	0.00	
3116.00†	20.304	104.790	3020.26	-23.01	-146.70	555.67	39°56'38.462"N	104°47'59.814"W	0.00	
3216.00†	20.304	104.790	3114.05	-24.40	-155.56	589.22	39°56'38.375"N	104°47'59.383"W	0.00	
3316.00†	20.304	104.790	3207.83	-25.79	-164.42	622.77	39°56'38.287"N	104°47'58.952"W	0.00	
3416.00†	20.304	104.790	3301.62	-27.18	-173.28	656.32	39°56'38.200"N	104°47'58.521"W	0.00	
3516.00†	20.304	104.790	3395.41	-28.57	-182.14	689.87	39°56'38.112"N	104°47'58.091"W	0.00	
3616.00†	20.304	104.790	3489.19	-29.96	-190.99	723.42	39°56'38.024"N	104°47'57.660"W	0.00	
3716.00†	20.304	104.790	3582.98	-31.35	-199.85	756.97	39°56'37.937"N	104°47'57.229"W	0.00	
3816.00†	20.304	104.790	3676.77	-32.73	-208.71	790.53	39°56'37.849"N	104°47'56.798"W	0.00	
3916.00†	20.304	104.790	3770.55	-34.12	-217.57	824.08	39°56'37.762"N	104°47'56.368"W	0.00	
4016.00†	20.304	104.790	3864.34	-35.51	-226.43	857.63	39°56'37.674"N	104°47'55.937"W	0.00	



# Planned Wellpath Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Page 3 of 7



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH DATA (190 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4116.00†	20.304	104.790	3958.12	-36.90	-235.29	891.18	39°56'37.587"N	104°47'55.506"W	0.00	
4216.00†	20.304	104.790	4051.91	-38.29	-244.14	924.73	39°56'37.499"N	104°47'55.075"W	0.00	
4316.00†	20.304	104.790	4145.70	-39.68	-253.00	958.28	39°56'37.412"N	104°47'54.645"W	0.00	
4416.00†	20.304	104.790	4239.48	-41.07	-261.86	991.83	39°56'37.324"N	104°47'54.214"W	0.00	
4516.00†	20.304	104.790	4333.27	-42.46	-270.72	1025.38	39°56'37.236"N	104°47'53.783"W	0.00	
4616.00†	20.304	104.790	4427.06	-43.85	-279.58	1058.93	39°56'37.149"N	104°47'53.352"W	0.00	
4716.00†	20.304	104.790	4520.84	-45.24	-288.43	1092.49	39°56'37.061"N	104°47'52.921"W	0.00	
4816.00†	20.304	104.790	4614.63	-46.63	-297.29	1126.04	39°56'36.974"N	104°47'52.491"W	0.00	
4916.00†	20.304	104.790	4708.41	-48.02	-306.15	1159.59	39°56'36.886"N	104°47'52.060"W	0.00	
5016.00†	20.304	104.790	4802.20	-49.41	-315.01	1193.14	39°56'36.799"N	104°47'51.629"W	0.00	
5058.44†	20.304	104.790	4842.00	-50.00	-318.77	1207.38	39°56'36.762"N	104°47'51.446"W	0.00	Sussex / Shannon
5116.00†	20.304	104.790	4895.99	-50.80	-323.87	1226.69	39°56'36.711"N	104°47'51.198"W	0.00	
5216.00†	20.304	104.790	4989.77	-52.18	-332.72	1260.24	39°56'36.624"N	104°47'50.768"W	0.00	
5316.00†	20.304	104.790	5083.56	-53.57	-341.58	1293.79	39°56'36.536"N	104°47'50.337"W	0.00	
5416.00†	20.304	104.790	5177.34	-54.96	-350.44	1327.34	39°56'36.448"N	104°47'49.906"W	0.00	
5516.00†	20.304	104.790	5271.13	-56.35	-359.30	1360.90	39°56'36.361"N	104°47'49.475"W	0.00	
5616.00†	20.304	104.790	5364.92	-57.74	-368.16	1394.45	39°56'36.273"N	104°47'49.045"W	0.00	
5716.00†	20.304	104.790	5458.70	-59.13	-377.01	1428.00	39°56'36.186"N	104°47'48.614"W	0.00	
5816.00†	20.304	104.790	5552.49	-60.52	-385.87	1461.55	39°56'36.098"N	104°47'48.183"W	0.00	
5916.00†	20.304	104.790	5646.28	-61.91	-394.73	1495.10	39°56'36.011"N	104°47'47.752"W	0.00	
6016.00†	20.304	104.790	5740.06	-63.30	-403.59	1528.65	39°56'35.923"N	104°47'47.322"W	0.00	
6116.00†	20.304	104.790	5833.85	-64.69	-412.45	1562.20	39°56'35.836"N	104°47'46.891"W	0.00	
6216.00†	20.304	104.790	5927.63	-66.08	-421.30	1595.75	39°56'35.748"N	104°47'46.460"W	0.00	
6316.00†	20.304	104.790	6021.42	-67.47	-430.16	1629.30	39°56'35.660"N	104°47'46.029"W	0.00	
6416.00†	20.304	104.790	6115.21	-68.86	-439.02	1662.86	39°56'35.573"N	104°47'45.599"W	0.00	
6516.00†	20.304	104.790	6208.99	-70.25	-447.88	1696.41	39°56'35.485"N	104°47'45.168"W	0.00	
6616.00†	20.304	104.790	6302.78	-71.64	-456.74	1729.96	39°56'35.398"N	104°47'44.737"W	0.00	
6716.00†	20.304	104.790	6396.57	-73.02	-465.59	1763.51	39°56'35.310"N	104°47'44.306"W	0.00	
6816.00†	20.304	104.790	6490.35	-74.41	-474.45	1797.06	39°56'35.223"N	104°47'43.876"W	0.00	
6916.00†	20.304	104.790	6584.14	-75.80	-483.31	1830.61	39°56'35.135"N	104°47'43.445"W	0.00	
7016.00†	20.304	104.790	6677.92	-77.19	-492.17	1864.16	39°56'35.048"N	104°47'43.014"W	0.00	
7116.00†	20.304	104.790	6771.71	-78.58	-501.03	1897.71	39°56'34.960"N	104°47'42.583"W	0.00	
7199.49	20.304	104.790	6850.01	-79.74	-508.42	1925.72	39°56'34.887"N	104°47'42.224"W	0.00	End of Tangent
7216.00†	19.971	100.090	6865.51	-79.74	-509.65	1931.27	39°56'34.875"N	104°47'42.152"W	10.00	
7316.00†	20.724	71.137	6959.51	-69.79	-506.91	1964.91	39°56'34.902"N	104°47'41.721"W	10.00	
7416.00†	25.537	48.585	7051.62	-43.09	-486.88	1997.91	39°56'35.100"N	104°47'41.297"W	10.00	
7516.00†	32.659	34.018	7139.06	-0.47	-450.16	2029.25	39°56'35.462"N	104°47'40.895"W	10.00	
7616.00†	40.895	24.485	7219.15	56.80	-397.88	2057.98	39°56'35.979"N	104°47'40.526"W	10.00	
7682.29†	46.681	19.801	7267.00	101.99	-355.39	2075.16	39°56'36.399"N	104°47'40.305"W	10.00	Niobrara A Chalk
7716.00†	49.687	17.754	7289.47	126.96	-331.61	2083.24	39°56'36.634"N	104°47'40.201"W	10.00	
7760.41†	53.698	15.321	7317.00	161.71	-298.21	2093.13	39°56'36.964"N	104°47'40.074"W	10.00	Niobrara A Marl
7816.00†	58.779	12.606	7347.89	207.89	-253.37	2104.25	39°56'37.407"N	104°47'39.931"W	10.00	
7916.00†	68.038	8.376	7392.62	297.13	-165.54	2120.38	39°56'38.275"N	104°47'39.724"W	10.00	
8016.00†	77.393	4.669	7422.30	391.96	-70.79	2131.13	39°56'39.211"N	104°47'39.586"W	10.00	
8116.00†	86.795	1.227	7436.05	489.51	28.00	2136.18	39°56'40.188"N	104°47'39.521"W	10.00	



# Planned Wellpath Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Page 4 of 7



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH DATA (190 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8150.00†	89.996	0.080	7437.00	522.77	61.98	2136.57	39°56'40.524"N	104°47'39.516"W	10.00	Niobrara B Chalk (Landing Zone)
8150.04	90.000	0.078	7437.00†	522.81	62.02	2136.57	39°56'40.524"N	104°47'39.516"W	10.00	End of 3D Arc (J)
8216.00†	90.000	0.078	7437.00	587.22	127.98	2136.66	39°56'41.176"N	104°47'39.515"W	0.00	
8316.00†	90.000	0.078	7437.00	684.88	227.98	2136.80	39°56'42.164"N	104°47'39.513"W	0.00	
8416.00†	90.000	0.078	7437.00	782.54	327.98	2136.93	39°56'43.152"N	104°47'39.511"W	0.00	
8516.00†	90.000	0.078	7437.00	880.21	427.98	2137.07	39°56'44.141"N	104°47'39.509"W	0.00	
8616.00†	90.000	0.078	7437.00	977.87	527.98	2137.21	39°56'45.129"N	104°47'39.507"W	0.00	
8716.00†	90.000	0.078	7437.00	1075.53	627.98	2137.35	39°56'46.117"N	104°47'39.505"W	0.00	
8816.00†	90.000	0.078	7437.00	1173.19	727.98	2137.48	39°56'47.105"N	104°47'39.504"W	0.00	
8916.00†	90.000	0.078	7437.00	1270.85	827.98	2137.62	39°56'48.094"N	104°47'39.502"W	0.00	
9016.00†	90.000	0.078	7437.00	1368.51	927.98	2137.76	39°56'49.082"N	104°47'39.500"W	0.00	
9116.00†	90.000	0.078	7437.00	1466.17	1027.98	2137.89	39°56'50.070"N	104°47'39.498"W	0.00	
9216.00†	90.000	0.078	7437.00	1563.83	1127.98	2138.03	39°56'51.058"N	104°47'39.496"W	0.00	
9316.00†	90.000	0.078	7437.00	1661.49	1227.98	2138.17	39°56'52.046"N	104°47'39.494"W	0.00	
9416.00†	90.000	0.078	7437.00	1759.15	1327.98	2138.30	39°56'53.035"N	104°47'39.492"W	0.00	
9516.00†	90.000	0.078	7437.00	1856.82	1427.98	2138.44	39°56'54.023"N	104°47'39.491"W	0.00	
9616.00†	90.000	0.078	7437.00	1954.48	1527.98	2138.58	39°56'55.011"N	104°47'39.489"W	0.00	
9716.00†	90.000	0.078	7437.00	2052.14	1627.98	2138.71	39°56'55.999"N	104°47'39.487"W	0.00	
9816.00†	90.000	0.078	7437.00	2149.80	1727.98	2138.85	39°56'56.988"N	104°47'39.485"W	0.00	
9916.00†	90.000	0.078	7437.00	2247.46	1827.98	2138.99	39°56'57.976"N	104°47'39.483"W	0.00	
10016.00†	90.000	0.078	7437.00	2345.12	1927.98	2139.12	39°56'58.964"N	104°47'39.481"W	0.00	
10116.00†	90.000	0.078	7437.00	2442.78	2027.98	2139.26	39°56'59.952"N	104°47'39.479"W	0.00	
10216.00†	90.000	0.078	7437.00	2540.44	2127.98	2139.40	39°57'00.941"N	104°47'39.477"W	0.00	
10316.00†	90.000	0.078	7437.00	2638.10	2227.98	2139.53	39°57'01.929"N	104°47'39.476"W	0.00	
10416.00†	90.000	0.078	7437.00	2735.76	2327.98	2139.67	39°57'02.917"N	104°47'39.474"W	0.00	
10516.00†	90.000	0.078	7437.00	2833.43	2427.98	2139.81	39°57'03.905"N	104°47'39.472"W	0.00	
10616.00†	90.000	0.078	7437.00	2931.09	2527.98	2139.94	39°57'04.894"N	104°47'39.470"W	0.00	
10716.00†	90.000	0.078	7437.00	3028.75	2627.98	2140.08	39°57'05.882"N	104°47'39.468"W	0.00	
10816.00†	90.000	0.078	7437.00	3126.41	2727.98	2140.22	39°57'06.870"N	104°47'39.466"W	0.00	
10916.00†	90.000	0.078	7437.00	3224.07	2827.98	2140.35	39°57'07.858"N	104°47'39.464"W	0.00	
11016.00†	90.000	0.078	7437.00	3321.73	2927.98	2140.49	39°57'08.847"N	104°47'39.462"W	0.00	
11116.00†	90.000	0.078	7437.00	3419.39	3027.98	2140.63	39°57'09.835"N	104°47'39.461"W	0.00	
11216.00†	90.000	0.078	7437.00	3517.05	3127.98	2140.77	39°57'10.823"N	104°47'39.459"W	0.00	
11316.00†	90.000	0.078	7437.00	3614.71	3227.98	2140.90	39°57'11.811"N	104°47'39.457"W	0.00	
11416.00†	90.000	0.078	7437.00	3712.37	3327.98	2141.04	39°57'12.800"N	104°47'39.455"W	0.00	
11516.00†	90.000	0.078	7437.00	3810.04	3427.98	2141.18	39°57'13.788"N	104°47'39.453"W	0.00	
11616.00†	90.000	0.078	7437.00	3907.70	3527.98	2141.31	39°57'14.776"N	104°47'39.451"W	0.00	
11716.00†	90.000	0.078	7437.00	4005.36	3627.98	2141.45	39°57'15.764"N	104°47'39.449"W	0.00	
11816.00†	90.000	0.078	7437.00	4103.02	3727.98	2141.59	39°57'16.752"N	104°47'39.448"W	0.00	
11916.00†	90.000	0.078	7437.00	4200.68	3827.98	2141.72	39°57'17.741"N	104°47'39.446"W	0.00	
12016.00†	90.000	0.078	7437.00	4298.34	3927.98	2141.86	39°57'18.729"N	104°47'39.444"W	0.00	
12116.00†	90.000	0.078	7437.00	4396.00	4027.98	2142.00	39°57'19.717"N	104°47'39.442"W	0.00	
12216.00†	90.000	0.078	7437.00	4493.66	4127.98	2142.13	39°57'20.705"N	104°47'39.440"W	0.00	
12316.00†	90.000	0.078	7437.00	4591.32	4227.98	2142.27	39°57'21.694"N	104°47'39.438"W	0.00	
12416.00†	90.000	0.078	7437.00	4688.98	4327.98	2142.41	39°57'22.682"N	104°47'39.436"W	0.00	



# Planned Wellpath Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Page 5 of 7



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH DATA (190 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12516.00†	90.000	0.078	7437.00	4786.65	4427.98	2142.54	39°57'23.670"N	104°47'39.434"W	0.00	
12616.00†	90.000	0.078	7437.00	4884.31	4527.98	2142.68	39°57'24.658"N	104°47'39.433"W	0.00	
12716.00†	90.000	0.078	7437.00	4981.97	4627.97	2142.82	39°57'25.647"N	104°47'39.431"W	0.00	
12816.00†	90.000	0.078	7437.00	5079.63	4727.97	2142.95	39°57'26.635"N	104°47'39.429"W	0.00	
12916.00†	90.000	0.078	7437.00	5177.29	4827.97	2143.09	39°57'27.623"N	104°47'39.427"W	0.00	
12969.52†	90.000	0.078	7437.00	5229.56	4881.49	2143.16	39°57'28.152"N	104°47'39.426"W	0.00	Niobrara B Chalk (Landing Zone)
13016.00†	90.000	0.078	7437.00	5274.95	4927.97	2143.23	39°57'28.611"N	104°47'39.425"W	0.00	
13116.00†	90.000	0.078	7437.00	5372.61	5027.97	2143.36	39°57'29.600"N	104°47'39.423"W	0.00	
13216.00†	90.000	0.078	7437.00	5470.27	5127.97	2143.50	39°57'30.588"N	104°47'39.421"W	0.00	
13316.00†	90.000	0.078	7437.00	5567.93	5227.97	2143.64	39°57'31.576"N	104°47'39.420"W	0.00	
13416.00†	90.000	0.078	7437.00	5665.59	5327.97	2143.77	39°57'32.564"N	104°47'39.418"W	0.00	
13516.00†	90.000	0.078	7437.00	5763.26	5427.97	2143.91	39°57'33.553"N	104°47'39.416"W	0.00	
13616.00†	90.000	0.078	7437.00	5860.92	5527.97	2144.05	39°57'34.541"N	104°47'39.414"W	0.00	
13716.00†	90.000	0.078	7437.00	5958.58	5627.97	2144.18	39°57'35.529"N	104°47'39.412"W	0.00	
13816.00†	90.000	0.078	7437.00	6056.24	5727.97	2144.32	39°57'36.517"N	104°47'39.410"W	0.00	
13916.00†	90.000	0.078	7437.00	6153.90	5827.97	2144.46	39°57'37.506"N	104°47'39.408"W	0.00	
14016.00†	90.000	0.078	7437.00	6251.56	5927.97	2144.60	39°57'38.494"N	104°47'39.406"W	0.00	
14116.00†	90.000	0.078	7437.00	6349.22	6027.97	2144.73	39°57'39.482"N	104°47'39.405"W	0.00	
14216.00†	90.000	0.078	7437.00	6446.88	6127.97	2144.87	39°57'40.470"N	104°47'39.403"W	0.00	
14316.00†	90.000	0.078	7437.00	6544.54	6227.97	2145.01	39°57'41.458"N	104°47'39.401"W	0.00	
14416.00†	90.000	0.078	7437.00	6642.21	6327.97	2145.14	39°57'42.447"N	104°47'39.399"W	0.00	
14516.00†	90.000	0.078	7437.00	6739.87	6427.97	2145.28	39°57'43.435"N	104°47'39.397"W	0.00	
14616.00†	90.000	0.078	7437.00	6837.53	6527.97	2145.42	39°57'44.423"N	104°47'39.395"W	0.00	
14716.00†	90.000	0.078	7437.00	6935.19	6627.97	2145.55	39°57'45.411"N	104°47'39.393"W	0.00	
14816.00†	90.000	0.078	7437.00	7032.85	6727.97	2145.69	39°57'46.400"N	104°47'39.392"W	0.00	
14916.00†	90.000	0.078	7437.00	7130.51	6827.97	2145.83	39°57'47.388"N	104°47'39.390"W	0.00	
15016.00†	90.000	0.078	7437.00	7228.17	6927.97	2145.96	39°57'48.376"N	104°47'39.388"W	0.00	
15116.00†	90.000	0.078	7437.00	7325.83	7027.97	2146.10	39°57'49.364"N	104°47'39.386"W	0.00	
15216.00†	90.000	0.078	7437.00	7423.49	7127.97	2146.24	39°57'50.353"N	104°47'39.384"W	0.00	
15316.00†	90.000	0.078	7437.00	7521.15	7227.97	2146.37	39°57'51.341"N	104°47'39.382"W	0.00	
15416.00†	90.000	0.078	7437.00	7618.82	7327.97	2146.51	39°57'52.329"N	104°47'39.380"W	0.00	
15516.00†	90.000	0.078	7437.00	7716.48	7427.97	2146.65	39°57'53.317"N	104°47'39.378"W	0.00	
15616.00†	90.000	0.078	7437.00	7814.14	7527.97	2146.78	39°57'54.306"N	104°47'39.377"W	0.00	
15716.00†	90.000	0.078	7437.00	7911.80	7627.97	2146.92	39°57'55.294"N	104°47'39.375"W	0.00	
15816.00†	90.000	0.078	7437.00	8009.46	7727.97	2147.06	39°57'56.282"N	104°47'39.373"W	0.00	
15916.00†	90.000	0.078	7437.00	8107.12	7827.97	2147.19	39°57'57.270"N	104°47'39.371"W	0.00	
16016.00†	90.000	0.078	7437.00	8204.78	7927.97	2147.33	39°57'58.259"N	104°47'39.369"W	0.00	
16116.00†	90.000	0.078	7437.00	8302.44	8027.97	2147.47	39°57'59.247"N	104°47'39.367"W	0.00	
16216.00†	90.000	0.078	7437.00	8400.10	8127.97	2147.60	39°58'00.235"N	104°47'39.365"W	0.00	
16316.00†	90.000	0.078	7437.00	8497.76	8227.97	2147.74	39°58'01.223"N	104°47'39.364"W	0.00	
16416.00†	90.000	0.078	7437.00	8595.43	8327.97	2147.88	39°58'02.211"N	104°47'39.362"W	0.00	
16516.00†	90.000	0.078	7437.00	8693.09	8427.97	2148.02	39°58'03.200"N	104°47'39.360"W	0.00	
16616.00†	90.000	0.078	7437.00	8790.75	8527.97	2148.15	39°58'04.188"N	104°47'39.358"W	0.00	
16716.00†	90.000	0.078	7437.00	8888.41	8627.97	2148.29	39°58'05.176"N	104°47'39.356"W	0.00	
16816.00†	90.000	0.078	7437.00	8986.07	8727.97	2148.43	39°58'06.164"N	104°47'39.354"W	0.00	



# Planned Wellpath Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Page 6 of 7



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH DATA (190 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
16916.00†	90.000	0.078	7437.00	9083.73	8827.97	2148.56	39°58'07.153"N	104°47'39.352"W	0.00	
17016.00†	90.000	0.078	7437.00	9181.39	8927.97	2148.70	39°58'08.141"N	104°47'39.350"W	0.00	
17116.00†	90.000	0.078	7437.00	9279.05	9027.97	2148.84	39°58'09.129"N	104°47'39.349"W	0.00	
17216.00†	90.000	0.078	7437.00	9376.71	9127.97	2148.97	39°58'10.117"N	104°47'39.347"W	0.00	
17316.00†	90.000	0.078	7437.00	9474.37	9227.97	2149.11	39°58'11.106"N	104°47'39.345"W	0.00	
17416.00†	90.000	0.078	7437.00	9572.04	9327.97	2149.25	39°58'12.094"N	104°47'39.343"W	0.00	
17516.00†	90.000	0.078	7437.00	9669.70	9427.97	2149.38	39°58'13.082"N	104°47'39.341"W	0.00	
17616.00†	90.000	0.078	7437.00	9767.36	9527.97	2149.52	39°58'14.070"N	104°47'39.339"W	0.00	
17716.00†	90.000	0.078	7437.00	9865.02	9627.97	2149.66	39°58'15.059"N	104°47'39.337"W	0.00	
17789.00	90.000	0.078	7437.00 <sup>2</sup>	9936.31	9700.97	2149.76	39°58'15.780"N	104°47'39.336"W	0.00	End of Tangent (J)

## HOLE & CASING SECTIONS

- Ref Wellbore: BRIGHTON LAKES 20-17-2NBH PWB Ref 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	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	17790.00	16908.00	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	-58.88	3195665.30	1223370.47	39°56'39.912"N	104°48'07.704"W	polygon
SEC.20-T1S-R66W		0.00	0.00	-58.88	3195665.30	1223370.47	39°56'39.912"N	104°48'07.704"W	polygon
2) BRIGHTON LAKES 20-17-2NBH BHL (NIO B CK, 460'FNL& 1237'FEL,SEC.17,REV-1)	17789.00	7437.00	9700.97	2149.76	3197797.44	1233088.23	39°58'15.780"N	104°47'39.336"W	point
1) BRIGHTON LAKES 20-17-2NBH LP (NIO B CK, 460'FSL& 1237'FEL,SEC.20,REV-1)	8150.04	7437.00	62.02	2136.57	3197860.13	1223449.77	39°56'40.524"N	104°47'39.516"W	point

## SURVEY PROGRAM -

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



# Planned Wellpath Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Page 7 of 7



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
882.00	0.000	104.790	882.00	Fox Hills (Surface Csg)
5058.44	20.304	104.790	4842.00	Sussex / Shannon
7682.29	46.681	19.801	7267.00	Niobrara A Chalk
7760.41	53.698	15.321	7317.00	Niobrara A Marl
8150.00	89.996	0.080	7437.00	Niobrara B Chalk (Landing Zone)
12969.52	90.000	0.078	7437.00	Niobrara B 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	17789.00	:STOP MD
STEP	.ft	0.0	:STEP (non-uniform increment)
NULL	.	-999.99	:NULL
COMP	.	PETROSHARE	:OPERATOR
WELL	.	BRIGHTON LAKES 20-17-2NBH	:WELL
FLD	.	ADAMS COUNTY (NAD83/ TRUE NORTH)	:FIELD
LOC	.	COLORADO	:AREA (aka: Location)
CNTY	.	N/A	:COUNTY
STAT	.	N/A	:STATE
CTRY	.	N/A	:COUNTRY
SRVC	.	Baker Hughes	:CONTRACTOR
DATE	.	02/21/2017	:LOG REV DATE
API	.		:API NUMBER

~OTHER INFORMATION

#Software: WellArchitect(R) Version 5.0

#MNEM	.UNITS	DATA	:DESCRIPTION
#----	.-----	----	:-----
WPTYPE	.	PLANNED WELLPATH	:WELLPATH TYPE
FACILITY	.	SEC.20-T01S-R66W	:FACILITY
SLOT	.	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20):SLOT	:SLOT
WELLBORE	.	BRIGHTON LAKES 20-17-2NBH PWB	:WELLBORE
WELLPATH	.	BRIGHTON LAKES 20-17-2NBH (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	12.49	: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
AZI	.deg	:AZIMUTH

PETROSHARE\_BRIGHTON\_LAKES\_20-17-2NBH\_\_NIO\_B\_CK\_\_REV-A.0\_\_PWP\_02-22-17.1as

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	104.79	0.00	0.00	0.00	0.00	39.9444200	-104.8019300	0.00
16.00	0.00	104.79	16.00	0.00	0.00	0.00	39.9444200	-104.8019300	0.00
116.00	0.00	104.79	116.00	0.00	0.00	0.00	39.9444200	-104.8019300	0.00
216.00	0.00	104.79	216.00	0.00	0.00	0.00	39.9444200	-104.8019300	0.00
316.00	0.00	104.79	316.00	0.00	0.00	0.00	39.9444200	-104.8019300	0.00
416.00	0.00	104.79	416.00	0.00	0.00	0.00	39.9444200	-104.8019300	0.00
516.00	0.00	104.79	516.00	0.00	0.00	0.00	39.9444200	-104.8019300	0.00
616.00	0.00	104.79	616.00	0.00	0.00	0.00	39.9444200	-104.8019300	0.00
716.00	0.00	104.79	716.00	0.00	0.00	0.00	39.9444200	-104.8019300	0.00
816.00	0.00	104.79	816.00	0.00	0.00	0.00	39.9444200	-104.8019300	0.00
916.00	0.00	104.79	916.00	0.00	0.00	0.00	39.9444200	-104.8019300	0.00
1016.00	0.00	104.79	1016.00	0.00	0.00	0.00	39.9444200	-104.8019300	0.00
1116.00	0.00	104.79	1116.00	0.00	0.00	0.00	39.9444200	-104.8019300	0.00
1125.00	0.00	104.79	1125.00	0.00	0.00	0.00	39.9444200	-104.8019300	0.00
1216.00	2.73	104.79	1215.97	-0.09	-0.55	2.10	39.9444185	-104.8019225	3.00
1316.00	5.73	104.79	1315.68	-0.38	-2.44	9.23	39.9444133	-104.8018971	3.00
1416.00	8.73	104.79	1414.88	-0.89	-5.65	21.39	39.9444045	-104.8018537	3.00
1516.00	11.73	104.79	1513.27	-1.60	-10.18	38.56	39.9443921	-104.8017925	3.00
1616.00	14.73	104.79	1610.61	-2.51	-16.02	60.69	39.9443760	-104.8017136	3.00
1716.00	17.73	104.79	1706.61	-3.63	-23.16	87.71	39.9443564	-104.8016172	3.00
1801.81	20.30	104.79	1787.74	-4.75	-30.29	114.74	39.9443368	-104.8015208	3.00
1816.00	20.30	104.79	1801.04	-4.95	-31.55	119.50	39.9443334	-104.8015038	0.00
1916.00	20.30	104.79	1894.83	-6.34	-40.41	153.05	39.9443091	-104.8013841	0.00
2016.00	20.30	104.79	1988.61	-7.73	-49.27	186.60	39.9442848	-104.8012645	0.00
2116.00	20.30	104.79	2082.40	-9.12	-58.12	220.16	39.9442604	-104.8011448	0.00
2216.00	20.30	104.79	2176.19	-10.51	-66.98	253.71	39.9442361	-104.8010252	0.00
2316.00	20.30	104.79	2269.97	-11.89	-75.84	287.26	39.9442118	-104.8009055	0.00
2416.00	20.30	104.79	2363.76	-13.28	-84.70	320.81	39.9441875	-104.8007859	0.00
2516.00	20.30	104.79	2457.54	-14.67	-93.56	354.36	39.9441632	-104.8006662	0.00
2616.00	20.30	104.79	2551.33	-16.06	-102.41	387.91	39.9441389	-104.8005465	0.00
2716.00	20.30	104.79	2645.12	-17.45	-111.27	421.46	39.9441145	-104.8004269	0.00
2816.00	20.30	104.79	2738.90	-18.84	-120.13	455.01	39.9440902	-104.8003072	0.00
2916.00	20.30	104.79	2832.69	-20.23	-128.99	488.57	39.9440659	-104.8001876	0.00
3016.00	20.30	104.79	2926.48	-21.62	-137.85	522.12	39.9440416	-104.8000679	0.00
3116.00	20.30	104.79	3020.26	-23.01	-146.70	555.67	39.9440173	-104.7999482	0.00

PETROSHARE_BRIGHTON_LAKES_20-17-2NBH__NIO_B_CK__REV-A.0__PWP_02-22-17.1as									
3216.00	20.30	104.79	3114.05	-24.40	-155.56	589.22	39.9439929	-104.7998286	0.00
3316.00	20.30	104.79	3207.83	-25.79	-164.42	622.77	39.9439686	-104.7997089	0.00
3416.00	20.30	104.79	3301.62	-27.18	-173.28	656.32	39.9439443	-104.7995893	0.00
3516.00	20.30	104.79	3395.41	-28.57	-182.14	689.87	39.9439200	-104.7994696	0.00
3616.00	20.30	104.79	3489.19	-29.96	-190.99	723.42	39.9438957	-104.7993500	0.00
3716.00	20.30	104.79	3582.98	-31.35	-199.85	756.97	39.9438713	-104.7992303	0.00
3816.00	20.30	104.79	3676.77	-32.73	-208.71	790.53	39.9438470	-104.7991107	0.00
3916.00	20.30	104.79	3770.55	-34.12	-217.57	824.08	39.9438227	-104.7989910	0.00
4016.00	20.30	104.79	3864.34	-35.51	-226.43	857.63	39.9437984	-104.7988713	0.00
4116.00	20.30	104.79	3958.12	-36.90	-235.29	891.18	39.9437741	-104.7987517	0.00
4216.00	20.30	104.79	4051.91	-38.29	-244.14	924.73	39.9437498	-104.7986320	0.00
4316.00	20.30	104.79	4145.70	-39.68	-253.00	958.28	39.9437254	-104.7985124	0.00
4416.00	20.30	104.79	4239.48	-41.07	-261.86	991.83	39.9437011	-104.7983927	0.00
4516.00	20.30	104.79	4333.27	-42.46	-270.72	1025.38	39.9436768	-104.7982731	0.00
4616.00	20.30	104.79	4427.06	-43.85	-279.58	1058.93	39.9436525	-104.7981534	0.00
4716.00	20.30	104.79	4520.84	-45.24	-288.43	1092.49	39.9436282	-104.7980337	0.00
4816.00	20.30	104.79	4614.63	-46.63	-297.29	1126.04	39.9436038	-104.7979141	0.00
4916.00	20.30	104.79	4708.41	-48.02	-306.15	1159.59	39.9435795	-104.7977944	0.00
5016.00	20.30	104.79	4802.20	-49.41	-315.01	1193.14	39.9435552	-104.7976748	0.00
5116.00	20.30	104.79	4895.99	-50.80	-323.87	1226.69	39.9435309	-104.7975551	0.00
5216.00	20.30	104.79	4989.77	-52.18	-332.72	1260.24	39.9435065	-104.7974355	0.00
5316.00	20.30	104.79	5083.56	-53.57	-341.58	1293.79	39.9434822	-104.7973158	0.00
5416.00	20.30	104.79	5177.34	-54.96	-350.44	1327.34	39.9434579	-104.7971962	0.00
5516.00	20.30	104.79	5271.13	-56.35	-359.30	1360.90	39.9434336	-104.7970765	0.00
5616.00	20.30	104.79	5364.92	-57.74	-368.16	1394.45	39.9434093	-104.7969568	0.00
5716.00	20.30	104.79	5458.70	-59.13	-377.01	1428.00	39.9433849	-104.7968372	0.00
5816.00	20.30	104.79	5552.49	-60.52	-385.87	1461.55	39.9433606	-104.7967175	0.00
5916.00	20.30	104.79	5646.28	-61.91	-394.73	1495.10	39.9433363	-104.7965979	0.00
6016.00	20.30	104.79	5740.06	-63.30	-403.59	1528.65	39.9433120	-104.7964782	0.00
6116.00	20.30	104.79	5833.85	-64.69	-412.45	1562.20	39.9432877	-104.7963586	0.00
6216.00	20.30	104.79	5927.63	-66.08	-421.30	1595.75	39.9432633	-104.7962389	0.00
6316.00	20.30	104.79	6021.42	-67.47	-430.16	1629.30	39.9432390	-104.7961193	0.00
6416.00	20.30	104.79	6115.21	-68.86	-439.02	1662.86	39.9432147	-104.7959996	0.00
6516.00	20.30	104.79	6208.99	-70.25	-447.88	1696.41	39.9431904	-104.7958800	0.00
6616.00	20.30	104.79	6302.78	-71.64	-456.74	1729.96	39.9431660	-104.7957603	0.00
6716.00	20.30	104.79	6396.57	-73.02	-465.59	1763.51	39.9431417	-104.7956406	0.00
6816.00	20.30	104.79	6490.35	-74.41	-474.45	1797.06	39.9431174	-104.7955210	0.00
6916.00	20.30	104.79	6584.14	-75.80	-483.31	1830.61	39.9430931	-104.7954013	0.00
7016.00	20.30	104.79	6677.92	-77.19	-492.17	1864.16	39.9430688	-104.7952817	0.00
7116.00	20.30	104.79	6771.71	-78.58	-501.03	1897.71	39.9430444	-104.7951620	0.00
7199.49	20.30	104.79	6850.01	-79.74	-508.42	1925.72	39.9430241	-104.7950621	0.00
7216.00	19.97	100.09	6865.51	-79.74	-509.65	1931.27	39.9430208	-104.7950424	10.00
7316.00	20.72	71.14	6959.51	-69.79	-506.91	1964.91	39.9430283	-104.7949224	10.00
7416.00	25.54	48.59	7051.62	-43.09	-486.88	1997.91	39.9430832	-104.7948047	10.00

PETROSHARE_BRIGHTON_LAKES_20-17-2NBH_NIO_B_CK_REV-A.0_PWP_02-22-17.1as									
7516.00	32.66	34.02	7139.06	-0.47	-450.16	2029.25	39.9431840	-104.7946929	10.00
7616.00	40.90	24.49	7219.15	56.80	-397.88	2057.98	39.9433275	-104.7945904	10.00
7716.00	49.69	17.75	7289.47	126.96	-331.61	2083.24	39.9435095	-104.7945003	10.00
7816.00	58.78	12.61	7347.89	207.89	-253.37	2104.25	39.9437242	-104.7944254	10.00
7916.00	68.04	8.38	7392.62	297.13	-165.54	2120.38	39.9439653	-104.7943678	10.00
8016.00	77.39	4.67	7422.30	391.96	-70.79	2131.13	39.9442254	-104.7943294	10.00
8116.00	86.80	1.23	7436.05	489.51	28.00	2136.18	39.9444966	-104.7943114	10.00
8150.04	90.00	0.08	7437.00	522.81	62.02	2136.57	39.9445900	-104.7943100	10.00
8216.00	90.00	0.08	7437.00	587.22	127.98	2136.66	39.9447711	-104.7943097	0.00
8316.00	90.00	0.08	7437.00	684.88	227.98	2136.80	39.9450456	-104.7943091	0.00
8416.00	90.00	0.08	7437.00	782.54	327.98	2136.93	39.9453201	-104.7943086	0.00
8516.00	90.00	0.08	7437.00	880.21	427.98	2137.07	39.9455946	-104.7943081	0.00
8616.00	90.00	0.08	7437.00	977.87	527.98	2137.21	39.9458691	-104.7943076	0.00
8716.00	90.00	0.08	7437.00	1075.53	627.98	2137.35	39.9461436	-104.7943071	0.00
8816.00	90.00	0.08	7437.00	1173.19	727.98	2137.48	39.9464181	-104.7943065	0.00
8916.00	90.00	0.08	7437.00	1270.85	827.98	2137.62	39.9466926	-104.7943060	0.00
9016.00	90.00	0.08	7437.00	1368.51	927.98	2137.76	39.9469672	-104.7943055	0.00
9116.00	90.00	0.08	7437.00	1466.17	1027.98	2137.89	39.9472417	-104.7943050	0.00
9216.00	90.00	0.08	7437.00	1563.83	1127.98	2138.03	39.9475162	-104.7943045	0.00
9316.00	90.00	0.08	7437.00	1661.49	1227.98	2138.17	39.9477907	-104.7943040	0.00
9416.00	90.00	0.08	7437.00	1759.15	1327.98	2138.30	39.9480652	-104.7943034	0.00
9516.00	90.00	0.08	7437.00	1856.82	1427.98	2138.44	39.9483397	-104.7943029	0.00
9616.00	90.00	0.08	7437.00	1954.48	1527.98	2138.58	39.9486142	-104.7943024	0.00
9716.00	90.00	0.08	7437.00	2052.14	1627.98	2138.71	39.9488887	-104.7943019	0.00
9816.00	90.00	0.08	7437.00	2149.80	1727.98	2138.85	39.9491632	-104.7943014	0.00
9916.00	90.00	0.08	7437.00	2247.46	1827.98	2138.99	39.9494378	-104.7943008	0.00
10016.00	90.00	0.08	7437.00	2345.12	1927.98	2139.12	39.9497123	-104.7943003	0.00
10116.00	90.00	0.08	7437.00	2442.78	2027.98	2139.26	39.9499868	-104.7942998	0.00
10216.00	90.00	0.08	7437.00	2540.44	2127.98	2139.40	39.9502613	-104.7942993	0.00
10316.00	90.00	0.08	7437.00	2638.10	2227.98	2139.53	39.9505358	-104.7942988	0.00
10416.00	90.00	0.08	7437.00	2735.76	2327.98	2139.67	39.9508103	-104.7942982	0.00
10516.00	90.00	0.08	7437.00	2833.43	2427.98	2139.81	39.9510848	-104.7942977	0.00
10616.00	90.00	0.08	7437.00	2931.09	2527.98	2139.94	39.9513593	-104.7942972	0.00
10716.00	90.00	0.08	7437.00	3028.75	2627.98	2140.08	39.9516338	-104.7942967	0.00
10816.00	90.00	0.08	7437.00	3126.41	2727.98	2140.22	39.9519084	-104.7942962	0.00
10916.00	90.00	0.08	7437.00	3224.07	2827.98	2140.35	39.9521829	-104.7942957	0.00
11016.00	90.00	0.08	7437.00	3321.73	2927.98	2140.49	39.9524574	-104.7942951	0.00
11116.00	90.00	0.08	7437.00	3419.39	3027.98	2140.63	39.9527319	-104.7942946	0.00
11216.00	90.00	0.08	7437.00	3517.05	3127.98	2140.77	39.9530064	-104.7942941	0.00
11316.00	90.00	0.08	7437.00	3614.71	3227.98	2140.90	39.9532809	-104.7942936	0.00
11416.00	90.00	0.08	7437.00	3712.37	3327.98	2141.04	39.9535554	-104.7942931	0.00
11516.00	90.00	0.08	7437.00	3810.04	3427.98	2141.18	39.9538299	-104.7942925	0.00
11616.00	90.00	0.08	7437.00	3907.70	3527.98	2141.31	39.9541044	-104.7942920	0.00
11716.00	90.00	0.08	7437.00	4005.36	3627.98	2141.45	39.9543790	-104.7942915	0.00

PETROSHARE_BRIGHTON_LAKES_20-17-2NBH_NIO_B_CK_REV-A.0_PWP_02-22-17.1as									
11816.00	90.00	0.08	7437.00	4103.02	3727.98	2141.59	39.9546535	-104.7942910	0.00
11916.00	90.00	0.08	7437.00	4200.68	3827.98	2141.72	39.9549280	-104.7942905	0.00
12016.00	90.00	0.08	7437.00	4298.34	3927.98	2141.86	39.9552025	-104.7942900	0.00
12116.00	90.00	0.08	7437.00	4396.00	4027.98	2142.00	39.9554770	-104.7942894	0.00
12216.00	90.00	0.08	7437.00	4493.66	4127.98	2142.13	39.9557515	-104.7942889	0.00
12316.00	90.00	0.08	7437.00	4591.32	4227.98	2142.27	39.9560260	-104.7942884	0.00
12416.00	90.00	0.08	7437.00	4688.98	4327.98	2142.41	39.9563005	-104.7942879	0.00
12516.00	90.00	0.08	7437.00	4786.65	4427.98	2142.54	39.9565750	-104.7942874	0.00
12616.00	90.00	0.08	7437.00	4884.31	4527.98	2142.68	39.9568496	-104.7942868	0.00
12716.00	90.00	0.08	7437.00	4981.97	4627.97	2142.82	39.9571241	-104.7942863	0.00
12816.00	90.00	0.08	7437.00	5079.63	4727.97	2142.95	39.9573986	-104.7942858	0.00
12916.00	90.00	0.08	7437.00	5177.29	4827.97	2143.09	39.9576731	-104.7942853	0.00
13016.00	90.00	0.08	7437.00	5274.95	4927.97	2143.23	39.9579476	-104.7942848	0.00
13116.00	90.00	0.08	7437.00	5372.61	5027.97	2143.36	39.9582221	-104.7942842	0.00
13216.00	90.00	0.08	7437.00	5470.27	5127.97	2143.50	39.9584966	-104.7942837	0.00
13316.00	90.00	0.08	7437.00	5567.93	5227.97	2143.64	39.9587711	-104.7942832	0.00
13416.00	90.00	0.08	7437.00	5665.59	5327.97	2143.77	39.9590456	-104.7942827	0.00
13516.00	90.00	0.08	7437.00	5763.26	5427.97	2143.91	39.9593202	-104.7942822	0.00
13616.00	90.00	0.08	7437.00	5860.92	5527.97	2144.05	39.9595947	-104.7942817	0.00
13716.00	90.00	0.08	7437.00	5958.58	5627.97	2144.18	39.9598692	-104.7942811	0.00
13816.00	90.00	0.08	7437.00	6056.24	5727.97	2144.32	39.9601437	-104.7942806	0.00
13916.00	90.00	0.08	7437.00	6153.90	5827.97	2144.46	39.9604182	-104.7942801	0.00
14016.00	90.00	0.08	7437.00	6251.56	5927.97	2144.60	39.9606927	-104.7942796	0.00
14116.00	90.00	0.08	7437.00	6349.22	6027.97	2144.73	39.9609672	-104.7942791	0.00
14216.00	90.00	0.08	7437.00	6446.88	6127.97	2144.87	39.9612417	-104.7942785	0.00
14316.00	90.00	0.08	7437.00	6544.54	6227.97	2145.01	39.9615162	-104.7942780	0.00
14416.00	90.00	0.08	7437.00	6642.21	6327.97	2145.14	39.9617908	-104.7942775	0.00
14516.00	90.00	0.08	7437.00	6739.87	6427.97	2145.28	39.9620653	-104.7942770	0.00
14616.00	90.00	0.08	7437.00	6837.53	6527.97	2145.42	39.9623398	-104.7942765	0.00
14716.00	90.00	0.08	7437.00	6935.19	6627.97	2145.55	39.9626143	-104.7942759	0.00
14816.00	90.00	0.08	7437.00	7032.85	6727.97	2145.69	39.9628888	-104.7942754	0.00
14916.00	90.00	0.08	7437.00	7130.51	6827.97	2145.83	39.9631633	-104.7942749	0.00
15016.00	90.00	0.08	7437.00	7228.17	6927.97	2145.96	39.9634378	-104.7942744	0.00
15116.00	90.00	0.08	7437.00	7325.83	7027.97	2146.10	39.9637123	-104.7942739	0.00
15216.00	90.00	0.08	7437.00	7423.49	7127.97	2146.24	39.9639868	-104.7942734	0.00
15316.00	90.00	0.08	7437.00	7521.15	7227.97	2146.37	39.9642614	-104.7942728	0.00
15416.00	90.00	0.08	7437.00	7618.82	7327.97	2146.51	39.9645359	-104.7942723	0.00
15516.00	90.00	0.08	7437.00	7716.48	7427.97	2146.65	39.9648104	-104.7942718	0.00
15616.00	90.00	0.08	7437.00	7814.14	7527.97	2146.78	39.9650849	-104.7942713	0.00
15716.00	90.00	0.08	7437.00	7911.80	7627.97	2146.92	39.9653594	-104.7942708	0.00
15816.00	90.00	0.08	7437.00	8009.46	7727.97	2147.06	39.9656339	-104.7942702	0.00
15916.00	90.00	0.08	7437.00	8107.12	7827.97	2147.19	39.9659084	-104.7942697	0.00
16016.00	90.00	0.08	7437.00	8204.78	7927.97	2147.33	39.9661829	-104.7942692	0.00
16116.00	90.00	0.08	7437.00	8302.44	8027.97	2147.47	39.9664574	-104.7942687	0.00

PETROSHARE_BRIGHTON_LAKES_20-17-2NBH__NIO_B_CK__REV-A.0__PWP_02-22-17.1as									
16216.00	90.00	0.08	7437.00	8400.10	8127.97	2147.60	39.9667319	-104.7942682	0.00
16316.00	90.00	0.08	7437.00	8497.76	8227.97	2147.74	39.9670065	-104.7942676	0.00
16416.00	90.00	0.08	7437.00	8595.43	8327.97	2147.88	39.9672810	-104.7942671	0.00
16516.00	90.00	0.08	7437.00	8693.09	8427.97	2148.02	39.9675555	-104.7942666	0.00
16616.00	90.00	0.08	7437.00	8790.75	8527.97	2148.15	39.9678300	-104.7942661	0.00
16716.00	90.00	0.08	7437.00	8888.41	8627.97	2148.29	39.9681045	-104.7942656	0.00
16816.00	90.00	0.08	7437.00	8986.07	8727.97	2148.43	39.9683790	-104.7942650	0.00
16916.00	90.00	0.08	7437.00	9083.73	8827.97	2148.56	39.9686535	-104.7942645	0.00
17016.00	90.00	0.08	7437.00	9181.39	8927.97	2148.70	39.9689280	-104.7942640	0.00
17116.00	90.00	0.08	7437.00	9279.05	9027.97	2148.84	39.9692025	-104.7942635	0.00
17216.00	90.00	0.08	7437.00	9376.71	9127.97	2148.97	39.9694771	-104.7942630	0.00
17316.00	90.00	0.08	7437.00	9474.37	9227.97	2149.11	39.9697516	-104.7942625	0.00
17416.00	90.00	0.08	7437.00	9572.04	9327.97	2149.25	39.9700261	-104.7942619	0.00
17516.00	90.00	0.08	7437.00	9669.70	9427.97	2149.38	39.9703006	-104.7942614	0.00
17616.00	90.00	0.08	7437.00	9767.36	9527.97	2149.52	39.9705751	-104.7942609	0.00
17716.00	90.00	0.08	7437.00	9865.02	9627.97	2149.66	39.9708496	-104.7942604	0.00
17789.00	90.00	0.08	7437.00	9936.31	9700.97	2149.76	39.9710500	-104.7942600	0.00



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 1 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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 3:11:46 PM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/BRIGHTON_LAKES_20-17-2NBH_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	58.88	3195724.18	1223370.94	39°56'39.912"N	104°48'06.948"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#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'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 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 2 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

## HOLE & CASING SECTIONS - Ref Wellbore: BRIGHTON LAKES 20-17-2NBH PWB Ref 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	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	17790.00	16908.00	882.00	N/A	0.00	0.00	N/A	N/A

## SURVEY PROGRAM - Ref Wellbore: BRIGHTON LAKES 20-17-2NBH PWB Ref 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

## CALCULATION RANGE & CUTOFF

From: 16.00ft MD	To: 17789.00ft 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	16.82	17789.00	17789.00	0.44	17789.00	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	14.02	17789.00	17789.00	0.56	17789.00	FAIL
SEC.17-T01S-R66W	SLOT#02 EX. CASE#1 (990'FNL & 990'FEL, SEC.17, PA, TD@8237' MD)	CASE#1	CASE#1 AWB	CASE#1 AWP	17202.48	220.60	17202.48	17226.54	0.66	17226.54	FAIL
SEC.20-T01S-R66W	SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)	BRIGHTON LAKES 20-17-3NBH	BRIGHTON LAKES 20-17-3NBH PWB	BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP	16.00	30.84	17789.00	17789.00	0.76	17789.00	FAIL
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	28.04	17788.29	17788.29	0.77	17788.29	FAIL
SEC.20-T01S-R66W	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)	BRIGHTON LAKES 20-17-1NCH	BRIGHTON LAKES 20-17-1NCH PWB	BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP	16.00	44.86	17784.29	17784.29	1.17	17784.29	PASS
SEC.20-T01S-R66W	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)	BRIGHTON LAKES 20-17-2CDH	BRIGHTON LAKES 20-17-2CDH PWB	BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP	16.00	44.86	17789.00	17789.00	1.33	17789.00	PASS
SEC.20-T01S-R66W	SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20)	BRIGHTON LAKES 20-17-1CDH	BRIGHTON LAKES 20-17-1CDH PWB	BRIGHTON LAKES 20-17-1CDH (REV-A.0, CODELL) PWP	16.00	58.88	1125.00	17784.21	1.65	17784.21	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	14053.50	3019.01	14053.50	14300.62	13.03	14300.62	PASS
SEC.20-T01S-R66W	SLOT#01 EX. DAVIS #1 (1327'FSL & 1629'FWL, SEC.20, PA, TD@8234)	DAVIS #1	DAVIS #1 AWB	DAVIS #1 AWP	1065.22	920.36	8916.00	1142.82	18.54	9416.00	PASS



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 3 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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	16.82	90.00	16.82	1.56	26.43	PASS
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	16.82	90.00	16.82	1.89	17.04	PASS
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	16.82	90.00	16.82	2.47	10.52	PASS
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	16.82	90.00	16.82	3.08	7.50	PASS
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	16.82	90.00	16.82	3.69	5.81	PASS
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	16.82	90.00	16.82	4.32	4.73	PASS
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	16.82	90.00	16.82	4.94	3.99	PASS
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	16.82	90.00	16.82	5.56	3.45	PASS
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	16.82	90.00	16.82	6.19	3.04	PASS
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	16.82	90.00	16.82	6.26	2.90	PASS
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	16.82	90.00	16.82	6.40	2.83	PASS
1116.00†	1116.00	0.00	0.00	1115.65	1115.64	-0.10	17.24	90.33	17.25	6.74	2.74	PASS
1125.00†	1125.00	0.00	0.00	1124.56	1124.56	-0.15	17.45	90.49	17.46	6.80	2.75	PASS
1216.00†	1215.97	-0.55	2.10	1214.68	1214.55	-1.18	21.79	-12.93	19.75	7.70	2.72	PASS
1316.00†	1315.68	-2.44	9.23	1313.58	1312.96	-3.45	31.30	-12.07	22.26	9.72	2.39	PASS
1416.00†	1414.88	-5.65	21.39	1412.35	1410.60	-6.89	45.73	-11.69	24.74	11.59	2.21	PASS
1516.00†	1513.27	-10.18	38.56	1511.00	1507.22	-11.49	65.02	-11.65	27.18	13.24	2.11	PASS
1616.00†	1610.61	-16.02	60.69	1609.53	1602.58	-17.24	89.11	-11.88	29.56	14.77	2.05	PASS
1716.00†	1706.61	-23.16	87.71	1707.95	1696.43	-24.10	117.92	-12.31	31.89	16.23	2.01	PASS
1801.81	1787.74	-30.29	114.74	1792.32	1775.57	-30.88	146.32	-12.80	33.85	17.36	1.99	PASS
1816.00†	1801.04	-31.55	119.50	1806.40	1788.66	-32.08	151.38	-12.88	34.20	17.51	1.99	PASS
1916.00†	1894.83	-40.41	153.05	1906.36	1881.54	-40.65	187.33	-13.40	36.76	18.32	2.05	PASS
2016.00†	1988.61	-49.27	186.60	2006.33	1974.43	-49.22	223.27	-13.84	39.32	19.22	2.09	PASS
2116.00†	2082.40	-58.12	220.16	2106.30	2067.31	-57.79	259.22	-14.23	41.88	20.18	2.11	PASS
2216.00†	2176.19	-66.98	253.71	2206.26	2160.20	-66.36	295.17	-14.58	44.44	21.21	2.13	PASS
2316.00†	2269.97	-75.84	287.26	2306.23	2253.08	-74.94	331.11	-14.89	47.00	22.31	2.14	PASS
2416.00†	2363.76	-84.70	320.81	2406.20	2345.97	-83.51	367.06	-15.16	49.57	23.46	2.15	PASS
2516.00†	2457.54	-93.56	354.36	2506.16	2438.86	-92.08	403.01	-15.41	52.13	24.65	2.15	PASS
2616.00†	2551.33	-102.41	387.91	2606.13	2531.74	-100.65	438.95	-15.64	54.70	25.88	2.14	PASS
2716.00†	2645.12	-111.27	421.46	2706.10	2624.63	-109.22	474.90	-15.84	57.27	27.14	2.14	PASS
2816.00†	2738.90	-120.13	455.01	2806.06	2717.51	-117.79	510.85	-16.03	59.84	28.44	2.13	PASS
2916.00†	2832.69	-128.99	488.57	2906.03	2810.40	-126.36	546.79	-16.20	62.40	29.76	2.12	PASS
3016.00†	2926.48	-137.85	522.12	3006.00	2903.28	-134.93	582.74	-16.36	64.97	31.10	2.11	PASS
3116.00†	3020.26	-146.70	555.67	3105.96	2996.17	-143.50	618.69	-16.51	67.54	32.47	2.10	PASS
3216.00†	3114.05	-155.56	589.22	3205.93	3089.05	-152.07	654.63	-16.64	70.11	33.85	2.09	PASS
3316.00†	3207.83	-164.42	622.77	3305.90	3181.94	-160.64	690.58	-16.77	72.68	35.24	2.08	PASS
3416.00†	3301.62	-173.28	656.32	3405.87	3274.83	-169.21	726.53	-16.89	75.26	36.65	2.07	PASS
3516.00†	3395.41	-182.14	689.87	3505.83	3367.71	-177.78	762.47	-17.00	77.83	38.07	2.06	PASS
3616.00†	3489.19	-190.99	723.42	3605.80	3460.60	-186.35	798.42	-17.10	80.40	39.51	2.05	PASS
3716.00†	3582.98	-199.85	756.97	3705.77	3553.48	-194.93	834.37	-17.20	82.97	40.95	2.04	PASS
3816.00†	3676.77	-208.71	790.53	3805.73	3646.37	-203.50	870.31	-17.29	85.54	42.40	2.03	PASS
3916.00†	3770.55	-217.57	824.08	3905.70	3739.25	-212.07	906.26	-17.37	88.11	43.86	2.03	PASS
4016.00†	3864.34	-226.43	857.63	4005.67	3832.14	-220.64	942.21	-17.45	90.69	45.33	2.02	PASS
4116.00†	3958.12	-235.29	891.18	4105.63	3925.03	-229.21	978.15	-17.53	93.26	46.80	2.01	PASS
4216.00†	4051.91	-244.14	924.73	4205.60	4017.91	-237.78	1014.10	-17.60	95.83	48.28	2.00	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 4 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	4145.70	-253.00	958.28	4305.57	4110.80	-246.35	1050.05	-17.67	98.40	49.77	1.99	PASS	
4416.00†	4239.48	-261.86	991.83	4405.53	4203.68	-254.92	1085.99	-17.73	100.98	51.26	1.98	PASS	
4516.00†	4333.27	-270.72	1025.38	4505.50	4296.57	-263.49	1121.94	-17.79	103.55	52.75	1.98	PASS	
4616.00†	4427.06	-279.58	1058.93	4605.47	4389.45	-272.06	1157.89	-17.85	106.12	54.25	1.97	PASS	
4716.00†	4520.84	-288.43	1092.49	4705.43	4482.34	-280.63	1193.84	-17.91	108.70	55.76	1.96	PASS	
4816.00†	4614.63	-297.29	1126.04	4805.40	4575.22	-289.20	1229.78	-17.96	111.27	57.26	1.95	PASS	
4916.00†	4708.41	-306.15	1159.59	4905.37	4668.11	-297.77	1265.73	-18.01	113.84	58.77	1.95	PASS	
5016.00†	4802.20	-315.01	1193.14	5005.33	4761.00	-306.34	1301.68	-18.06	116.42	60.29	1.94	PASS	
5116.00†	4895.99	-323.87	1226.69	5105.30	4853.88	-314.92	1337.62	-18.11	118.99	61.80	1.94	PASS	
5216.00†	4989.77	-332.72	1260.24	5205.27	4946.77	-323.49	1373.57	-18.15	121.56	63.32	1.93	PASS	
5316.00†	5083.56	-341.58	1293.79	5305.23	5039.65	-332.06	1409.52	-18.20	124.14	64.85	1.92	PASS	
5416.00†	5177.34	-350.44	1327.34	5405.20	5132.54	-340.63	1445.46	-18.24	126.71	66.37	1.92	PASS	
5516.00†	5271.13	-359.30	1360.90	5505.17	5225.42	-349.20	1481.41	-18.28	129.29	67.90	1.91	PASS	
5616.00†	5364.92	-368.16	1394.45	5605.14	5318.31	-357.77	1517.36	-18.31	131.86	69.42	1.91	PASS	
5716.00†	5458.70	-377.01	1428.00	5705.10	5411.20	-366.34	1553.30	-18.35	134.43	70.95	1.90	PASS	
5816.00†	5552.49	-385.87	1461.55	5805.07	5504.08	-374.91	1589.25	-18.38	137.01	72.48	1.90	PASS	
5916.00†	5646.28	-394.73	1495.10	5905.04	5596.97	-383.48	1625.20	-18.42	139.58	74.02	1.89	PASS	
6016.00†	5740.06	-403.59	1528.65	6005.00	5689.85	-392.05	1661.14	-18.45	142.16	75.55	1.89	PASS	
6116.00†	5833.85	-412.45	1562.20	6104.97	5782.74	-400.62	1697.09	-18.48	144.73	77.09	1.89	PASS	
6216.00†	5927.63	-421.30	1595.75	6204.94	5875.62	-409.19	1733.04	-18.51	147.30	78.63	1.88	PASS	
6316.00†	6021.42	-430.16	1629.30	6304.90	5968.51	-417.76	1768.98	-18.54	149.88	80.17	1.88	PASS	
6416.00†	6115.21	-439.02	1662.86	6404.87	6061.39	-426.33	1804.93	-18.57	152.45	81.71	1.87	PASS	
6516.00†	6208.99	-447.88	1696.41	6504.84	6154.28	-434.91	1840.88	-18.60	155.03	83.25	1.87	PASS	
6616.00†	6302.78	-456.74	1729.96	6604.80	6247.17	-443.48	1876.82	-18.62	157.60	84.79	1.87	PASS	
6716.00†	6396.57	-465.59	1763.51	6704.77	6340.05	-452.05	1912.77	-18.65	160.18	86.34	1.86	PASS	
6816.00†	6490.35	-474.45	1797.06	6804.74	6432.94	-460.62	1948.72	-18.67	162.75	87.88	1.86	PASS	
6916.00†	6584.14	-483.31	1830.61	6904.70	6525.82	-469.19	1984.66	-18.70	165.32	89.43	1.86	PASS	
7016.00†	6677.92	-492.17	1864.16	7004.67	6618.71	-477.76	2020.61	-18.72	167.90	90.97	1.85	PASS	
7116.00†	6771.71	-501.03	1897.71	7104.64	6711.59	-486.33	2056.56	-18.74	170.47	92.52	1.85	PASS	
7199.49	6850.01	-508.42	1925.72	7188.10	6789.14	-493.49	2086.57	-18.76	172.62	93.81	1.85	PASS	
7216.00†	6865.51	-509.65	1931.27	7204.60	6804.48	-494.90	2092.50	-14.31	173.03	93.97	1.85	PASS	
7316.00†	6959.51	-506.91	1964.91	7303.80	6896.65	-503.41	2128.17	16.43	174.98	91.09	1.93	PASS	
7416.00†	7051.62	-486.88	1997.91	7401.10	6987.13	-510.52	2163.19	45.35	178.99	85.67	2.10	PASS	
7516.00†	7139.06	-450.16	2029.25	7503.27	7082.05	-503.49	2199.95	66.65	187.70	86.67	2.18	PASS	
7616.00†	7219.15	-397.88	2057.98	7611.83	7179.91	-476.38	2237.87	81.87	200.15	92.42	2.17	PASS	
7716.00†	7289.47	-331.61	2083.24	7727.64	7277.04	-426.23	2275.54	92.94	214.68	96.98	2.22	PASS	
7816.00†	7347.89	-253.37	2104.25	7851.25	7368.07	-350.83	2310.88	100.96	229.35	96.57	2.39	PASS	
7916.00†	7392.62	-165.54	2120.38	7982.58	7445.88	-249.83	2341.14	106.55	242.24	90.83	2.68	PASS	
8016.00†	7422.30	-70.79	2131.13	8120.57	7502.32	-126.23	2363.16	110.05	251.62	82.61	3.06	PASS	
8116.00†	7436.05	28.00	2136.18	8262.98	7530.01	12.67	2374.07	111.62	256.23	77.50	3.33	PASS	
8150.04	7437.00	62.02	2136.57	8311.92	7532.00	61.55	2374.90	111.73	256.57	77.40	3.34	PASS	
8216.00†	7437.00	127.98	2136.66	8378.03	7532.00	127.66	2374.99	111.73	256.57	77.62	3.33	PASS	
8316.00†	7437.00	227.98	2136.80	8478.03	7532.00	227.66	2375.13	111.73	256.57	78.38	3.29	PASS	
8416.00†	7437.00	327.98	2136.93	8578.03	7532.00	327.66	2375.26	111.73	256.56	79.64	3.24	PASS	
8516.00†	7437.00	427.98	2137.07	8678.03	7532.00	427.66	2375.40	111.73	256.56	81.32	3.17	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 5 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	7437.00	527.98	2137.21	8778.03	7532.00	527.66	2375.53	111.73	256.56	84.85	3.04	PASS			
8716.00†	7437.00	627.98	2137.35	8878.03	7532.00	627.65	2375.67	111.73	256.56	85.84	3.01	PASS			
8816.00†	7437.00	727.98	2137.48	8978.03	7532.00	727.65	2375.81	111.73	256.56	86.83	2.91	PASS			
8916.00†	7437.00	827.98	2137.62	9078.03	7532.00	827.65	2375.94	111.73	256.56	87.82	2.81	PASS			
9016.00†	7437.00	927.98	2137.76	9178.03	7532.00	927.65	2376.08	111.73	256.56	88.81	2.71	PASS			
9116.00†	7437.00	1027.98	2137.89	9278.03	7532.00	1027.65	2376.21	111.73	256.56	89.80	2.61	PASS			
9216.00†	7437.00	1127.98	2138.03	9378.03	7532.00	1127.65	2376.35	111.73	256.56	90.79	2.51	PASS			
9316.00†	7437.00	1227.98	2138.17	9478.03	7532.00	1227.65	2376.49	111.73	256.56	91.78	2.42	PASS			
9416.00†	7437.00	1327.98	2138.30	9578.03	7532.00	1327.65	2376.62	111.73	256.56	92.77	2.32	PASS			
9516.00†	7437.00	1427.98	2138.44	9678.03	7532.00	1427.65	2376.76	111.73	256.56	93.76	2.24	PASS			
9616.00†	7437.00	1527.98	2138.58	9778.03	7532.00	1527.65	2376.89	111.73	256.55	94.75	2.15	PASS			
9716.00†	7437.00	1627.98	2138.71	9878.03	7532.00	1627.65	2377.03	111.73	256.55	95.74	2.07	PASS			
9816.00†	7437.00	1727.98	2138.85	9978.03	7532.00	1727.65	2377.16	111.73	256.55	96.73	1.99	PASS			
9916.00†	7437.00	1827.98	2138.99	10078.03	7532.00	1827.65	2377.30	111.73	256.55	97.72	1.92	PASS			
10016.00†	7437.00	1927.98	2139.12	10178.03	7532.00	1927.65	2377.44	111.73	256.55	98.71	1.85	PASS			
10116.00†	7437.00	2027.98	2139.26	10278.03	7532.00	2027.65	2377.57	111.73	256.55	99.70	1.79	PASS			
10216.00†	7437.00	2127.98	2139.40	10378.03	7532.00	2127.65	2377.71	111.73	256.55	100.69	1.73	PASS			
10316.00†	7437.00	2227.98	2139.53	10478.03	7532.00	2227.65	2377.84	111.73	256.55	101.68	1.67	PASS			
10416.00†	7437.00	2327.98	2139.67	10578.03	7532.00	2327.65	2377.98	111.73	256.55	102.67	1.61	PASS			
10516.00†	7437.00	2427.98	2139.81	10678.03	7532.00	2427.65	2378.12	111.73	256.55	103.66	1.56	PASS			
10616.00†	7437.00	2527.98	2139.94	10778.03	7532.00	2527.65	2378.25	111.73	256.55	104.65	1.51	PASS			
10716.00†	7437.00	2627.98	2140.08	10878.03	7532.00	2627.65	2378.39	111.74	256.54	105.64	1.47	PASS			
10816.00†	7437.00	2727.98	2140.22	10978.03	7532.00	2727.65	2378.52	111.74	256.54	106.63	1.42	PASS			
10916.00†	7437.00	2827.98	2140.35	11078.03	7532.00	2827.65	2378.66	111.74	256.54	107.62	1.38	PASS			
11016.00†	7437.00	2927.98	2140.49	11178.03	7532.00	2927.65	2378.79	111.74	256.54	108.61	1.34	PASS			
11116.00†	7437.00	3027.98	2140.63	11278.03	7532.00	3027.65	2378.93	111.74	256.54	109.60	1.30	PASS			
11216.00†	7437.00	3127.98	2140.77	11378.03	7532.00	3127.65	2379.07	111.74	256.54	110.59	1.27	PASS			
11316.00†	7437.00	3227.98	2140.90	11478.03	7532.00	3227.65	2379.20	111.74	256.54	111.58	1.24	PASS			
11416.00†	7437.00	3327.98	2141.04	11578.03	7532.00	3327.65	2379.34	111.74	256.54	112.57	1.20	PASS			
11516.00†	7437.00	3427.98	2141.18	11678.03	7532.00	3427.65	2379.47	111.74	256.54	113.56	1.17	PASS			
11616.00†	7437.00	3527.98	2141.31	11778.03	7532.00	3527.65	2379.61	111.74	256.54	114.55	1.14	PASS			
11716.00†	7437.00	3627.98	2141.45	11878.03	7532.00	3627.65	2379.75	111.74	256.54	115.54	1.12	PASS			
11816.00†	7437.00	3727.98	2141.59	11978.03	7532.00	3727.65	2379.88	111.74	256.53	116.53	1.09	PASS			
11916.00†	7437.00	3827.98	2141.72	12078.03	7532.00	3827.65	2380.02	111.74	256.53	117.52	1.06	PASS			
12016.00†	7437.00	3927.98	2141.86	12178.03	7532.00	3927.65	2380.15	111.74	256.53	118.51	1.04	PASS			
12116.00†	7437.00	4027.98	2142.00	12278.03	7532.00	4027.65	2380.29	111.74	256.53	119.50	1.02	PASS			
12216.00†	7437.00	4127.98	2142.13	12378.03	7532.00	4127.65	2380.43	111.74	256.53	120.49	0.99	FAIL			
12316.00†	7437.00	4227.98	2142.27	12478.03	7532.00	4227.65	2380.56	111.74	256.53	121.48	0.97	FAIL			
12416.00†	7437.00	4327.98	2142.41	12578.03	7532.00	4327.65	2380.70	111.74	256.53	122.47	0.95	FAIL			
12516.00†	7437.00	4427.98	2142.54	12678.03	7532.00	4427.65	2380.83	111.74	256.53	123.46	0.93	FAIL			
12616.00†	7437.00	4527.98	2142.68	12778.03	7532.00	4527.65	2380.97	111.74	256.53	124.45	0.91	FAIL			
12716.00†	7437.00	4627.97	2142.82	12878.03	7532.00	4627.65	2381.10	111.74	256.53	125.44	0.89	FAIL			
12816.00†	7437.00	4727.97	2142.95	12978.03	7532.00	4727.65	2381.24	111.74	256.53	126.43	0.88	FAIL			
12916.00†	7437.00	4827.97	2143.09	13078.03	7532.00	4827.65	2381.38	111.74	256.52	127.42	0.86	FAIL			
13016.00†	7437.00	4927.97	2143.23	13178.03	7532.00	4927.65	2381.51	111.74	256.52	128.41	0.84	FAIL			

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 6 of 43



REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-2NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NBH (REV-A.0, NIO C CK)													
Facility: SEC.20-T01S-R66W		Slot: SLOT#06 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1949'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†	7437.00	5027.97	2143.36	13278.03	7532.00	5027.65	2381.65	111.74	256.52	310.09	0.83	FAIL	
13216.00†	7437.00	5127.97	2143.50	13378.03	7532.00	5127.65	2381.78	111.74	256.52	315.87	0.81	FAIL	
13316.00†	7437.00	5227.97	2143.64	13478.03	7532.00	5227.65	2381.92	111.74	256.52	321.66	0.80	FAIL	
13416.00†	7437.00	5327.97	2143.77	13578.03	7532.00	5327.65	2382.06	111.74	256.52	327.45	0.78	FAIL	
13516.00†	7437.00	5427.97	2143.91	13678.03	7532.00	5427.65	2382.19	111.74	256.52	333.25	0.77	FAIL	
13616.00†	7437.00	5527.97	2144.05	13778.03	7532.00	5527.65	2382.33	111.74	256.52	339.06	0.76	FAIL	
13716.00†	7437.00	5627.97	2144.18	13878.03	7532.00	5627.65	2382.46	111.74	256.52	344.87	0.74	FAIL	
13816.00†	7437.00	5727.97	2144.32	13978.03	7532.00	5727.65	2382.60	111.74	256.52	350.68	0.73	FAIL	
13916.00†	7437.00	5827.97	2144.46	14078.03	7532.00	5827.65	2382.73	111.74	256.52	356.51	0.72	FAIL	
14016.00†	7437.00	5927.97	2144.60	14178.03	7532.00	5927.65	2382.87	111.74	256.51	362.33	0.71	FAIL	
14116.00†	7437.00	6027.97	2144.73	14278.03	7532.00	6027.65	2383.01	111.74	256.51	368.16	0.70	FAIL	
14216.00†	7437.00	6127.97	2144.87	14378.03	7532.00	6127.65	2383.14	111.74	256.51	374.00	0.69	FAIL	
14316.00†	7437.00	6227.97	2145.01	14478.03	7532.00	6227.65	2383.28	111.74	256.51	379.83	0.67	FAIL	
14416.00†	7437.00	6327.97	2145.14	14578.03	7532.00	6327.65	2383.41	111.74	256.51	385.68	0.66	FAIL	
14516.00†	7437.00	6427.97	2145.28	14678.03	7532.00	6427.65	2383.55	111.74	256.51	391.52	0.65	FAIL	
14616.00†	7437.00	6527.97	2145.42	14778.03	7532.00	6527.65	2383.69	111.74	256.51	397.37	0.64	FAIL	
14716.00†	7437.00	6627.97	2145.55	14878.03	7532.00	6627.65	2383.82	111.74	256.51	403.22	0.64	FAIL	
14816.00†	7437.00	6727.97	2145.69	14978.03	7532.00	6727.65	2383.96	111.74	256.51	409.08	0.63	FAIL	
14916.00†	7437.00	6827.97	2145.83	15078.03	7532.00	6827.65	2384.09	111.74	256.51	414.94	0.62	FAIL	
15016.00†	7437.00	6927.97	2145.96	15178.03	7532.00	6927.65	2384.23	111.74	256.51	420.80	0.61	FAIL	
15116.00†	7437.00	7027.97	2146.10	15278.03	7532.00	7027.65	2384.36	111.74	256.51	426.67	0.60	FAIL	
15216.00†	7437.00	7127.97	2146.24	15378.03	7532.00	7127.65	2384.50	111.74	256.50	432.53	0.59	FAIL	
15316.00†	7437.00	7227.97	2146.37	15478.03	7532.00	7227.65	2384.64	111.74	256.50	438.40	0.58	FAIL	
15416.00†	7437.00	7327.97	2146.51	15578.03	7532.00	7327.65	2384.77	111.74	256.50	444.28	0.58	FAIL	
15516.00†	7437.00	7427.97	2146.65	15678.03	7532.00	7427.65	2384.91	111.74	256.50	450.15	0.57	FAIL	
15616.00†	7437.00	7527.97	2146.78	15778.03	7532.00	7527.65	2385.04	111.74	256.50	456.03	0.56	FAIL	
15716.00†	7437.00	7627.97	2146.92	15878.03	7532.00	7627.65	2385.18	111.74	256.50	461.91	0.55	FAIL	
15816.00†	7437.00	7727.97	2147.06	15978.03	7532.00	7727.65	2385.32	111.74	256.50	467.79	0.55	FAIL	
15916.00†	7437.00	7827.97	2147.19	16078.03	7532.00	7827.65	2385.45	111.74	256.50	473.67	0.54	FAIL	
16016.00†	7437.00	7927.97	2147.33	16178.03	7532.00	7927.65	2385.59	111.74	256.50	479.56	0.53	FAIL	
16116.00†	7437.00	8027.97	2147.47	16278.03	7532.00	8027.65	2385.72	111.74	256.50	485.44	0.53	FAIL	
16216.00†	7437.00	8127.97	2147.60	16378.03	7532.00	8127.65	2385.86	111.74	256.50	491.33	0.52	FAIL	
16316.00†	7437.00	8227.97	2147.74	16478.03	7532.00	8227.65	2385.99	111.74	256.49	497.22	0.52	FAIL	
16416.00†	7437.00	8327.97	2147.88	16578.03	7532.00	8327.65	2386.13	111.74	256.49	503.12	0.51	FAIL	
16516.00†	7437.00	8427.97	2148.02	16678.03	7532.00	8427.65	2386.27	111.74	256.49	509.01	0.50	FAIL	
16616.00†	7437.00	8527.97	2148.15	16778.03	7532.00	8527.65	2386.40	111.74	256.49	514.91	0.50	FAIL	
16716.00†	7437.00	8627.97	2148.29	16878.03	7532.00	8627.65	2386.54	111.74	256.49	520.80	0.49	FAIL	
16816.00†	7437.00	8727.97	2148.43	16978.03	7532.00	8727.65	2386.67	111.74	256.49	526.70	0.49	FAIL	
16916.00†	7437.00	8827.97	2148.56	17078.03	7532.00	8827.65	2386.81	111.74	256.49	532.60	0.48	FAIL	
17016.00†	7437.00	8927.97	2148.70	17178.03	7532.00	8927.65	2386.95	111.74	256.49	538.50	0.48	FAIL	
17116.00†	7437.00	9027.97	2148.84	17278.03	7532.00	9027.65	2387.08	111.74	256.49	544.41	0.47	FAIL	
17216.00†	7437.00	9127.97	2148.97	17378.03	7532.00	9127.65	2387.22	111.74	256.49	550.31	0.47	FAIL	
17316.00†	7437.00	9227.97	2149.11	17478.03	7532.00	9227.65	2387.35	111.74	256.49	556.22	0.46	FAIL	
17416.00†	7437.00	9327.97	2149.25	17578.03	7532.00	9327.65	2387.49	111.74	256.48	562.12	0.46	FAIL	
17516.00†	7437.00	9427.97	2149.38	17678.03	7532.00	9427.65	2387.62	111.74	256.48	568.03	0.45	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 7 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#06 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1949'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†	7437.00	9527.97	2149.52	17778.03	7532.00	9527.65	2387.76	111.74	256.48	573.94	0.45	FAIL	
17716.00†	7437.00	9627.97	2149.66	17878.03	7532.00	9627.65	2387.90	111.74	256.48	579.85	0.44	FAIL	
17789.00	7437.00	9700.97	2149.76	17951.03	7532.00	9700.65	2388.00	111.74	256.48	584.16	0.44	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 (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 20-17-2NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NBH (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	10.26	0.00	10.26
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	10.26	0.00	10.26
8.5in Open Hole	882.00	17952.00	17070.00	882.00	N/A	0.00	10.26	N/A	N/A

## SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: BRIGHTON LAKES 20-17-2NBH (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 20-17-2NBH PWB
882.00	17951.38	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 (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 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 8 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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	-14.02	-90.00	14.02	1.56	21.76	PASS	
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	-14.02	-90.00	14.02	1.89	14.03	PASS	
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-14.02	-90.00	14.02	2.47	8.66	PASS	
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-14.02	-90.00	14.02	3.08	6.18	PASS	
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	-14.02	-90.00	14.02	3.69	4.78	PASS	
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	-14.02	-90.00	14.02	4.31	3.90	PASS	
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	-14.02	-90.00	14.02	4.94	3.29	PASS	
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	-14.02	-90.00	14.02	5.56	2.84	PASS	
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	-14.02	-90.00	14.02	6.19	2.50	PASS	
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	-14.02	-90.00	14.02	6.26	2.40	PASS	
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	-14.02	-90.00	14.02	6.40	2.34	PASS	
1116.00†	1116.00	0.00	0.00	1116.00	1116.00	0.00	-14.02	-90.00	14.02	6.73	2.21	PASS	
1125.00	1125.00	0.00	0.00	1125.00	1125.00	0.00	-14.02	-90.00	14.02	6.77	2.20	PASS	
1216.00†	1215.97	-0.55	2.10	1216.30	1216.29	-0.13	-13.59	166.77	15.70	7.38	2.25	PASS	
1316.00†	1315.68	-2.44	9.23	1317.13	1317.00	-1.51	-8.95	168.17	18.25	8.96	2.13	PASS	
1416.00†	1414.88	-5.65	21.39	1418.10	1417.45	-4.40	0.79	168.75	20.80	10.96	1.96	PASS	
1516.00†	1513.27	-10.18	38.56	1519.21	1517.35	-8.82	15.63	168.79	23.33	12.74	1.88	PASS	
1616.00†	1610.61	-16.02	60.69	1620.45	1616.42	-14.74	35.56	168.45	25.83	14.36	1.84	PASS	
1716.00†	1706.61	-23.16	87.71	1721.81	1714.37	-22.15	60.50	167.81	28.31	15.88	1.82	PASS	
1801.81	1787.74	-30.29	114.74	1808.89	1797.32	-29.70	85.89	167.09	30.41	17.06	1.82	PASS	
1816.00†	1801.04	-31.55	119.50	1823.08	1810.73	-31.02	90.32	166.96	30.75	17.20	1.82	PASS	
1916.00†	1894.83	-40.41	153.05	1923.04	1905.25	-40.30	121.53	166.16	33.20	18.00	1.88	PASS	
2016.00†	1988.61	-49.27	186.60	2023.01	1999.77	-49.57	152.73	165.47	35.66	18.93	1.92	PASS	
2116.00†	2082.40	-58.12	220.16	2122.98	2094.29	-58.85	183.94	164.87	38.12	19.87	1.95	PASS	
2216.00†	2176.19	-66.98	253.71	2222.95	2188.80	-68.13	215.15	164.34	40.59	20.91	1.97	PASS	
2316.00†	2269.97	-75.84	287.26	2322.92	2283.32	-77.41	246.35	163.88	43.06	22.03	1.99	PASS	
2416.00†	2363.76	-84.70	320.81	2422.89	2377.84	-86.68	277.56	163.46	45.53	23.20	1.99	PASS	
2516.00†	2457.54	-93.56	354.36	2522.86	2472.36	-95.96	308.77	163.08	48.00	24.41	2.00	PASS	
2616.00†	2551.33	-102.41	387.91	2622.83	2566.88	-105.24	339.97	162.75	50.48	25.67	1.99	PASS	
2716.00†	2645.12	-111.27	421.46	2722.80	2661.40	-114.52	371.18	162.44	52.95	26.96	1.99	PASS	
2816.00†	2738.90	-120.13	455.01	2822.77	2755.92	-123.79	402.39	162.16	55.43	28.29	1.98	PASS	
2916.00†	2832.69	-128.99	488.57	2922.73	2850.44	-133.07	433.59	161.91	57.91	29.64	1.98	PASS	
3016.00†	2926.48	-137.85	522.12	3022.70	2944.96	-142.35	464.80	161.67	60.39	31.02	1.97	PASS	
3116.00†	3020.26	-146.70	555.67	3122.67	3039.48	-151.62	496.00	161.46	62.87	32.42	1.96	PASS	
3216.00†	3114.05	-155.56	589.22	3222.64	3134.00	-160.90	527.21	161.26	65.36	33.83	1.95	PASS	
3316.00†	3207.83	-164.42	622.77	3322.61	3228.52	-170.18	558.42	161.08	67.84	35.26	1.94	PASS	
3416.00†	3301.62	-173.28	656.32	3422.58	3323.03	-179.46	589.62	160.90	70.32	36.71	1.93	PASS	
3516.00†	3395.41	-182.14	689.87	3522.55	3417.55	-188.73	620.83	160.74	72.81	38.17	1.92	PASS	
3616.00†	3489.19	-190.99	723.42	3622.52	3512.07	-198.01	652.04	160.60	75.29	39.64	1.92	PASS	
3716.00†	3582.98	-199.85	756.97	3722.49	3606.59	-207.29	683.24	160.46	77.78	41.13	1.91	PASS	
3816.00†	3676.77	-208.71	790.53	3822.45	3701.11	-216.57	714.45	160.33	80.26	42.62	1.90	PASS	
3916.00†	3770.55	-217.57	824.08	3922.42	3795.63	-225.84	745.66	160.20	82.75	44.12	1.89	PASS	
4016.00†	3864.34	-226.43	857.63	4022.39	3890.15	-235.12	776.86	160.09	85.23	45.63	1.88	PASS	
4116.00†	3958.12	-235.29	891.18	4122.36	3984.67	-244.40	808.07	159.98	87.72	47.14	1.87	PASS	
4216.00†	4051.91	-244.14	924.73	4222.33	4079.19	-253.68	839.28	159.87	90.21	48.66	1.87	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 9 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	4145.70	-253.00	958.28	4322.30	4173.71	-262.95	870.48	159.78	92.69	50.19	1.86	PASS	
4416.00†	4239.48	-261.86	991.83	4422.27	4268.23	-272.23	901.69	159.68	95.18	51.72	1.85	PASS	
4516.00†	4333.27	-270.72	1025.38	4522.24	4362.75	-281.51	932.90	159.60	97.67	53.26	1.85	PASS	
4616.00†	4427.06	-279.58	1058.93	4622.21	4457.26	-290.79	964.10	159.51	100.16	54.80	1.84	PASS	
4716.00†	4520.84	-288.43	1092.49	4722.17	4551.78	-300.06	995.31	159.43	102.65	56.35	1.83	PASS	
4816.00†	4614.63	-297.29	1126.04	4822.14	4646.30	-309.34	1026.52	159.36	105.13	57.89	1.83	PASS	
4916.00†	4708.41	-306.15	1159.59	4922.11	4740.82	-318.62	1057.72	159.28	107.62	59.45	1.82	PASS	
5016.00†	4802.20	-315.01	1193.14	5022.08	4835.34	-327.89	1088.93	159.22	110.11	61.00	1.81	PASS	
5116.00†	4895.99	-323.87	1226.69	5122.05	4929.86	-337.17	1120.13	159.15	112.60	62.56	1.81	PASS	
5216.00†	4989.77	-332.72	1260.24	5222.02	5024.38	-346.45	1151.34	159.09	115.09	64.12	1.80	PASS	
5316.00†	5083.56	-341.58	1293.79	5321.99	5118.90	-355.73	1182.55	159.03	117.58	65.69	1.80	PASS	
5416.00†	5177.34	-350.44	1327.34	5421.96	5213.42	-365.00	1213.75	158.97	120.07	67.25	1.79	PASS	
5516.00†	5271.13	-359.30	1360.90	5521.93	5307.94	-374.28	1244.96	158.91	122.56	68.82	1.79	PASS	
5616.00†	5364.92	-368.16	1394.45	5621.90	5402.46	-383.56	1276.17	158.86	125.05	70.39	1.78	PASS	
5716.00†	5458.70	-377.01	1428.00	5721.86	5496.98	-392.84	1307.37	158.81	127.54	71.97	1.78	PASS	
5816.00†	5552.49	-385.87	1461.55	5821.83	5591.49	-402.11	1338.58	158.76	130.02	73.54	1.78	PASS	
5916.00†	5646.28	-394.73	1495.10	5921.80	5686.01	-411.39	1369.79	158.71	132.51	75.12	1.77	PASS	
6016.00†	5740.06	-403.59	1528.65	6021.77	5780.53	-420.67	1400.99	158.67	135.00	76.70	1.77	PASS	
6116.00†	5833.85	-412.45	1562.20	6121.74	5875.05	-429.95	1432.20	158.62	137.49	78.27	1.76	PASS	
6216.00†	5927.63	-421.30	1595.75	6221.71	5969.57	-439.22	1463.41	158.58	139.98	79.86	1.76	PASS	
6316.00†	6021.42	-430.16	1629.30	6321.68	6064.09	-448.50	1494.61	158.54	142.47	81.44	1.76	PASS	
6416.00†	6115.21	-439.02	1662.86	6421.65	6158.61	-457.78	1525.82	158.50	144.96	83.02	1.75	PASS	
6516.00†	6208.99	-447.88	1696.41	6521.62	6253.13	-467.06	1557.03	158.46	147.45	84.61	1.75	PASS	
6616.00†	6302.78	-456.74	1729.96	6621.58	6347.65	-476.33	1588.23	158.42	149.94	86.19	1.75	PASS	
6716.00†	6396.57	-465.59	1763.51	6721.55	6442.17	-485.61	1619.44	158.39	152.44	87.78	1.74	PASS	
6816.00†	6490.35	-474.45	1797.06	6821.52	6536.69	-494.89	1650.65	158.35	154.93	89.37	1.74	PASS	
6916.00†	6584.14	-483.31	1830.61	6921.49	6631.21	-504.16	1681.85	158.32	157.42	90.96	1.74	PASS	
7016.00†	6677.92	-492.17	1864.16	7023.46	6727.78	-510.69	1713.74	159.33	159.55	91.33	1.75	PASS	
7116.00†	6771.71	-501.03	1897.71	7123.52	6822.23	-501.13	1744.95	165.93	160.90	85.96	1.88	PASS	
7199.49	6850.01	-508.42	1925.72	7200.47	6892.96	-482.09	1768.34	174.87	165.25	81.10	2.05	PASS	
7216.00†	6865.51	-509.65	1931.27	7214.87	6905.90	-477.43	1772.62	-178.64	166.85	80.66	2.08	PASS	
7316.00†	6959.51	-506.91	1964.91	7299.52	6979.32	-443.22	1796.92	-139.98	180.75	81.86	2.22	PASS	
7416.00†	7051.62	-486.88	1997.91	7380.43	7044.32	-400.22	1818.44	-109.92	199.43	85.04	2.36	PASS	
7516.00†	7139.06	-450.16	2029.25	7458.45	7100.93	-350.02	1837.21	-90.00	219.91	86.14	2.57	PASS	
7616.00†	7219.15	-397.88	2057.98	7534.20	7149.22	-293.97	1853.24	-76.96	240.01	84.49	2.86	PASS	
7716.00†	7289.47	-331.61	2083.24	7608.22	7189.22	-233.19	1866.53	-68.25	258.26	80.78	3.22	PASS	
7816.00†	7347.89	-253.37	2104.25	7680.93	7220.95	-168.68	1877.10	-62.37	273.64	76.07	3.62	PASS	
7916.00†	7392.62	-165.54	2120.38	7752.69	7244.41	-101.37	1884.95	-58.52	285.50	71.47	4.02	PASS	
8016.00†	7422.30	-70.79	2131.13	7823.81	7259.61	-32.13	1890.06	-56.21	293.39	68.12	4.34	PASS	
8116.00†	7436.05	28.00	2136.18	7894.57	7266.53	38.20	1892.44	-55.20	297.07	66.91	4.48	PASS	
8150.04	7437.00	62.02	2136.57	7918.73	7267.00	62.36	1892.63	-55.13	297.33	66.95	4.48	PASS	
8216.00†	7437.00	127.98	2136.66	7984.69	7267.00	128.32	1892.72	-55.13	297.33	67.10	4.47	PASS	
8316.00†	7437.00	227.98	2136.80	8084.69	7267.00	228.32	1892.86	-55.13	297.33	67.74	4.43	PASS	
8416.00†	7437.00	327.98	2136.93	8184.69	7267.00	328.32	1893.00	-55.13	297.33	68.83	4.35	PASS	
8516.00†	7437.00	427.98	2137.07	8284.69	7267.00	428.31	1893.14	-55.13	297.33	70.33	4.26	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 10 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	7437.00	527.98	2137.21	8384.69	7267.00	528.31	1893.27	-55.13	297.33	73.11	4.10	PASS	
8716.00†	7437.00	627.98	2137.35	8484.69	7267.00	628.31	1893.41	-55.13	297.33	74.43	4.02	PASS	
8816.00†	7437.00	727.98	2137.48	8584.69	7267.00	728.31	1893.55	-55.13	297.33	76.97	3.89	PASS	
8916.00†	7437.00	827.98	2137.62	8684.69	7267.00	828.31	1893.69	-55.13	297.33	79.79	3.75	PASS	
9016.00†	7437.00	927.98	2137.76	8784.69	7267.00	928.31	1893.83	-55.13	297.32	82.87	3.61	PASS	
9116.00†	7437.00	1027.98	2137.89	8884.69	7267.00	1028.31	1893.96	-55.13	297.32	86.17	3.47	PASS	
9216.00†	7437.00	1127.98	2138.03	8984.69	7267.00	1128.31	1894.10	-55.13	297.32	89.68	3.33	PASS	
9316.00†	7437.00	1227.98	2138.17	9084.69	7267.00	1228.31	1894.24	-55.13	297.32	93.37	3.20	PASS	
9416.00†	7437.00	1327.98	2138.30	9184.69	7267.00	1328.31	1894.38	-55.13	297.32	97.22	3.07	PASS	
9516.00†	7437.00	1427.98	2138.44	9284.69	7267.00	1428.31	1894.51	-55.13	297.32	101.21	2.95	PASS	
9616.00†	7437.00	1527.98	2138.58	9384.69	7267.00	1528.31	1894.65	-55.13	297.32	105.33	2.84	PASS	
9716.00†	7437.00	1627.98	2138.71	9484.69	7267.00	1628.31	1894.79	-55.13	297.32	109.55	2.73	PASS	
9816.00†	7437.00	1727.98	2138.85	9584.69	7267.00	1728.31	1894.93	-55.13	297.32	113.88	2.62	PASS	
9916.00†	7437.00	1827.98	2138.99	9684.69	7267.00	1828.31	1895.07	-55.13	297.32	118.29	2.52	PASS	
10016.00†	7437.00	1927.98	2139.12	9784.69	7267.00	1928.31	1895.20	-55.13	297.32	122.78	2.43	PASS	
10116.00†	7437.00	2027.98	2139.26	9884.69	7267.00	2028.31	1895.34	-55.13	297.32	127.34	2.34	PASS	
10216.00†	7437.00	2127.98	2139.40	9984.69	7267.00	2128.31	1895.48	-55.13	297.32	131.96	2.26	PASS	
10316.00†	7437.00	2227.98	2139.53	10084.69	7267.00	2228.31	1895.62	-55.13	297.31	136.64	2.18	PASS	
10416.00†	7437.00	2327.98	2139.67	10184.69	7267.00	2328.31	1895.75	-55.13	297.31	141.36	2.11	PASS	
10516.00†	7437.00	2427.98	2139.81	10284.69	7267.00	2428.31	1895.89	-55.13	297.31	146.14	2.04	PASS	
10616.00†	7437.00	2527.98	2139.94	10384.69	7267.00	2528.31	1896.03	-55.13	297.31	150.95	1.97	PASS	
10716.00†	7437.00	2627.98	2140.08	10484.69	7267.00	2628.31	1896.17	-55.13	297.31	155.80	1.91	PASS	
10816.00†	7437.00	2727.98	2140.22	10584.69	7267.00	2728.31	1896.31	-55.13	297.31	160.69	1.85	PASS	
10916.00†	7437.00	2827.98	2140.35	10684.69	7267.00	2828.31	1896.44	-55.13	297.31	165.61	1.80	PASS	
11016.00†	7437.00	2927.98	2140.49	10784.69	7267.00	2928.31	1896.58	-55.12	297.31	170.55	1.75	PASS	
11116.00†	7437.00	3027.98	2140.63	10884.69	7267.00	3028.31	1896.72	-55.12	297.31	175.52	1.70	PASS	
11216.00†	7437.00	3127.98	2140.77	10984.69	7267.00	3128.31	1896.86	-55.12	297.31	180.52	1.65	PASS	
11316.00†	7437.00	3227.98	2140.90	11084.69	7267.00	3228.31	1896.99	-55.12	297.31	185.54	1.60	PASS	
11416.00†	7437.00	3327.98	2141.04	11184.69	7267.00	3328.31	1897.13	-55.12	297.31	190.57	1.56	PASS	
11516.00†	7437.00	3427.98	2141.18	11284.69	7267.00	3428.31	1897.27	-55.12	297.30	195.63	1.52	PASS	
11616.00†	7437.00	3527.98	2141.31	11384.69	7267.00	3528.31	1897.41	-55.12	297.30	200.70	1.48	PASS	
11716.00†	7437.00	3627.98	2141.45	11484.69	7267.00	3628.31	1897.55	-55.12	297.30	205.79	1.45	PASS	
11816.00†	7437.00	3727.98	2141.59	11584.69	7267.00	3728.31	1897.68	-55.12	297.30	210.89	1.41	PASS	
11916.00†	7437.00	3827.98	2141.72	11684.69	7267.00	3828.31	1897.82	-55.12	297.30	216.01	1.38	PASS	
12016.00†	7437.00	3927.98	2141.86	11784.69	7267.00	3928.31	1897.96	-55.12	297.30	221.14	1.35	PASS	
12116.00†	7437.00	4027.98	2142.00	11884.69	7267.00	4028.31	1898.10	-55.12	297.30	226.28	1.31	PASS	
12216.00†	7437.00	4127.98	2142.13	11984.69	7267.00	4128.31	1898.23	-55.12	297.30	231.43	1.29	PASS	
12316.00†	7437.00	4227.98	2142.27	12084.69	7267.00	4228.31	1898.37	-55.12	297.30	236.60	1.26	PASS	
12416.00†	7437.00	4327.98	2142.41	12184.69	7267.00	4328.31	1898.51	-55.12	297.30	241.77	1.23	PASS	
12516.00†	7437.00	4427.98	2142.54	12284.69	7267.00	4428.31	1898.65	-55.12	297.30	246.95	1.20	PASS	
12616.00†	7437.00	4527.98	2142.68	12384.69	7267.00	4528.31	1898.79	-55.12	297.30	252.14	1.18	PASS	
12716.00†	7437.00	4627.97	2142.82	12484.69	7267.00	4628.31	1898.92	-55.12	297.30	257.34	1.16	PASS	
12816.00†	7437.00	4727.97	2142.95	12584.69	7267.00	4728.31	1899.06	-55.12	297.29	262.54	1.13	PASS	
12916.00†	7437.00	4827.97	2143.09	12684.69	7267.00	4828.31	1899.20	-55.12	297.29	267.75	1.11	PASS	
13016.00†	7437.00	4927.97	2143.23	12784.69	7267.00	4928.31	1899.34	-55.12	297.29	272.97	1.09	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 11 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	7437.00	5027.97	2143.36	12884.69	7267.00	5028.31	1899.47	-55.12	297.29	278.20	1.07	PASS	
13216.00†	7437.00	5127.97	2143.50	12984.69	7267.00	5128.31	1899.61	-55.12	297.29	283.43	1.05	PASS	
13316.00†	7437.00	5227.97	2143.64	13084.69	7267.00	5228.31	1899.75	-55.12	297.29	288.66	1.03	PASS	
13416.00†	7437.00	5327.97	2143.77	13184.69	7267.00	5328.31	1899.89	-55.12	297.29	293.91	1.01	PASS	
13516.00†	7437.00	5427.97	2143.91	13284.69	7267.00	5428.31	1900.03	-55.12	297.29	299.15	0.99	FAIL	
13616.00†	7437.00	5527.97	2144.05	13384.69	7267.00	5528.31	1900.16	-55.12	297.29	304.40	0.98	FAIL	
13716.00†	7437.00	5627.97	2144.18	13484.69	7267.00	5628.31	1900.30	-55.12	297.29	309.66	0.96	FAIL	
13816.00†	7437.00	5727.97	2144.32	13584.69	7267.00	5728.31	1900.44	-55.12	297.29	314.92	0.94	FAIL	
13916.00†	7437.00	5827.97	2144.46	13684.69	7267.00	5828.31	1900.58	-55.12	297.29	320.19	0.93	FAIL	
14016.00†	7437.00	5927.97	2144.60	13784.69	7267.00	5928.31	1900.71	-55.12	297.28	325.45	0.91	FAIL	
14116.00†	7437.00	6027.97	2144.73	13884.69	7267.00	6028.31	1900.85	-55.12	297.28	330.73	0.90	FAIL	
14216.00†	7437.00	6127.97	2144.87	13984.69	7267.00	6128.31	1900.99	-55.12	297.28	336.00	0.88	FAIL	
14316.00†	7437.00	6227.97	2145.01	14084.69	7267.00	6228.31	1901.13	-55.12	297.28	341.28	0.87	FAIL	
14416.00†	7437.00	6327.97	2145.14	14184.69	7267.00	6328.31	1901.27	-55.12	297.28	346.56	0.86	FAIL	
14516.00†	7437.00	6427.97	2145.28	14284.69	7267.00	6428.31	1901.40	-55.12	297.28	351.85	0.84	FAIL	
14616.00†	7437.00	6527.97	2145.42	14384.69	7267.00	6528.31	1901.54	-55.12	297.28	357.13	0.83	FAIL	
14716.00†	7437.00	6627.97	2145.55	14484.69	7267.00	6628.31	1901.68	-55.12	297.28	362.43	0.82	FAIL	
14816.00†	7437.00	6727.97	2145.69	14584.69	7267.00	6728.31	1901.82	-55.12	297.28	367.72	0.81	FAIL	
14916.00†	7437.00	6827.97	2145.83	14684.69	7267.00	6828.31	1901.95	-55.12	297.28	373.01	0.80	FAIL	
15016.00†	7437.00	6927.97	2145.96	14784.69	7267.00	6928.31	1902.09	-55.12	297.28	378.31	0.79	FAIL	
15116.00†	7437.00	7027.97	2146.10	14884.69	7267.00	7028.31	1902.23	-55.12	297.28	383.61	0.77	FAIL	
15216.00†	7437.00	7127.97	2146.24	14984.69	7267.00	7128.31	1902.37	-55.12	297.27	388.92	0.76	FAIL	
15316.00†	7437.00	7227.97	2146.37	15084.69	7267.00	7228.31	1902.51	-55.12	297.27	394.22	0.75	FAIL	
15416.00†	7437.00	7327.97	2146.51	15184.69	7267.00	7328.31	1902.64	-55.12	297.27	399.53	0.74	FAIL	
15516.00†	7437.00	7427.97	2146.65	15284.69	7267.00	7428.31	1902.78	-55.12	297.27	404.84	0.73	FAIL	
15616.00†	7437.00	7527.97	2146.78	15384.69	7267.00	7528.31	1902.92	-55.12	297.27	410.15	0.72	FAIL	
15716.00†	7437.00	7627.97	2146.92	15484.69	7267.00	7628.31	1903.06	-55.12	297.27	415.46	0.72	FAIL	
15816.00†	7437.00	7727.97	2147.06	15584.69	7267.00	7728.31	1903.19	-55.12	297.27	420.78	0.71	FAIL	
15916.00†	7437.00	7827.97	2147.19	15684.69	7267.00	7828.31	1903.33	-55.12	297.27	426.09	0.70	FAIL	
16016.00†	7437.00	7927.97	2147.33	15784.69	7267.00	7928.31	1903.47	-55.12	297.27	431.41	0.69	FAIL	
16116.00†	7437.00	8027.97	2147.47	15884.69	7267.00	8028.31	1903.61	-55.12	297.27	436.73	0.68	FAIL	
16216.00†	7437.00	8127.97	2147.60	15984.69	7267.00	8128.31	1903.75	-55.12	297.27	442.05	0.67	FAIL	
16316.00†	7437.00	8227.97	2147.74	16084.69	7267.00	8228.31	1903.88	-55.12	297.27	447.37	0.66	FAIL	
16416.00†	7437.00	8327.97	2147.88	16184.69	7267.00	8328.31	1904.02	-55.12	297.27	452.70	0.66	FAIL	
16516.00†	7437.00	8427.97	2148.02	16284.69	7267.00	8428.31	1904.16	-55.12	297.26	458.02	0.65	FAIL	
16616.00†	7437.00	8527.97	2148.15	16384.69	7267.00	8528.31	1904.30	-55.12	297.26	463.35	0.64	FAIL	
16716.00†	7437.00	8627.97	2148.29	16484.69	7267.00	8628.31	1904.43	-55.12	297.26	468.68	0.63	FAIL	
16816.00†	7437.00	8727.97	2148.43	16584.69	7267.00	8728.31	1904.57	-55.12	297.26	474.01	0.63	FAIL	
16916.00†	7437.00	8827.97	2148.56	16684.69	7267.00	8828.31	1904.71	-55.12	297.26	479.34	0.62	FAIL	
17016.00†	7437.00	8927.97	2148.70	16784.69	7267.00	8928.31	1904.85	-55.12	297.26	484.67	0.61	FAIL	
17116.00†	7437.00	9027.97	2148.84	16884.69	7267.00	9028.31	1904.99	-55.12	297.26	490.00	0.61	FAIL	
17216.00†	7437.00	9127.97	2148.97	16984.69	7267.00	9128.31	1905.12	-55.12	297.26	495.33	0.60	FAIL	
17316.00†	7437.00	9227.97	2149.11	17084.69	7267.00	9228.31	1905.26	-55.12	297.26	500.67	0.59	FAIL	
17416.00†	7437.00	9327.97	2149.25	17184.69	7267.00	9328.31	1905.40	-55.12	297.26	506.00	0.59	FAIL	
17516.00†	7437.00	9427.97	2149.38	17284.69	7267.00	9428.31	1905.54	-55.12	297.26	511.34	0.58	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 12 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	7437.00	9527.97	2149.52	17384.69	7267.00	9528.31	1905.67	-55.12	297.26	516.68	0.57	FAIL	
17716.00†	7437.00	9627.97	2149.66	17484.69	7267.00	9628.31	1905.81	-55.12	297.25	522.02	0.57	FAIL	
17789.00	7437.00	9700.97	2149.76	17557.33	7267.00	9700.95	1905.91	-55.12	297.25	525.77	0.56	FAIL	

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	-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	17558.00	16676.00	882.00	N/A	0.00	-8.55	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 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 13 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.17-T01S-R66W Slot: SLOT#02 EX. CASE#1 (990'FNL & 990'FEL, SEC.17, PA, TD8237'MD) Well: CASE#1 Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
16.00	16.00	0.00	0.00	-14.00	16.00	9172.38	2396.46	14.64	9480.27	25.57	385.31	PASS	
116.00†	116.00	0.00	0.00	71.46	101.46	9172.43	2396.47	14.64	9480.33	50.13	192.64	PASS	
216.00†	216.00	0.00	0.00	243.77	273.77	9172.01	2396.34	14.64	9480.06	49.97	192.58	PASS	
316.00†	316.00	0.00	0.00	381.17	411.16	9171.18	2395.69	14.64	9479.40	50.00	192.48	PASS	
416.00†	416.00	0.00	0.00	539.13	569.11	9169.35	2394.30	14.63	9478.04	50.04	192.29	PASS	
516.00†	516.00	0.00	0.00	704.52	734.46	9166.62	2392.16	14.63	9476.13	50.10	192.02	PASS	
616.00†	616.00	0.00	0.00	778.17	808.09	9165.27	2391.00	14.62	9473.96	50.15	191.78	PASS	
716.00†	716.00	0.00	0.00	876.47	906.36	9163.62	2389.61	14.62	9471.98	50.21	191.48	PASS	
816.00†	816.00	0.00	0.00	970.75	1000.62	9162.06	2388.15	14.61	9469.99	50.29	191.16	PASS	
916.00†	916.00	0.00	0.00	1071.28	1101.13	9160.48	2386.50	14.60	9468.05	50.14	190.87	PASS	
1016.00†	1016.00	0.00	0.00	1156.40	1186.22	9159.11	2385.31	14.60	9466.15	50.20	190.61	PASS	
1116.00†	1116.00	0.00	0.00	1229.71	1259.53	9158.08	2384.39	14.59	9464.48	50.27	190.33	PASS	
1125.00	1125.00	0.00	0.00	1235.83	1265.64	9158.00	2384.32	14.59	9464.34	50.27	190.30	PASS	
1216.00†	1215.97	-0.55	2.10	1297.59	1327.40	9157.34	2383.60	-90.25	9463.14	50.34	190.02	PASS	
1316.00†	1315.68	-2.44	9.23	1382.99	1412.78	9156.64	2382.56	-90.32	9462.07	50.44	189.63	PASS	
1416.00†	1414.88	-5.65	21.39	1476.91	1506.69	9156.00	2381.31	-90.43	9461.16	50.56	189.15	PASS	
1516.00†	1513.27	-10.18	38.56	1574.54	1604.31	9155.38	2379.96	-90.56	9460.34	50.71	188.56	PASS	
1616.00†	1610.61	-16.02	60.69	1670.65	1700.41	9154.75	2378.71	-90.72	9459.62	50.91	187.82	PASS	
1716.00†	1706.61	-23.16	87.71	1757.15	1786.90	9154.23	2377.55	-90.89	9459.08	51.15	186.89	PASS	
1801.81	1787.74	-30.29	114.74	1833.75	1863.50	9153.85	2376.50	-91.06	9458.85	51.43	185.85	PASS	
1816.00†	1801.04	-31.55	119.50	1848.02	1877.76	9153.78	2376.32	-91.09	9458.83	51.49	185.66	PASS	
1916.00†	1894.83	-40.41	153.05	1945.76	1975.50	9153.20	2375.23	-91.30	9458.70	51.91	184.13	PASS	
2016.00†	1988.61	-49.27	186.60	2039.52	2069.25	9152.56	2374.44	-91.50	9458.69	52.41	182.35	PASS	
2116.00†	2082.40	-58.12	220.16	2129.46	2159.19	9151.98	2373.62	-91.69	9458.82	52.97	180.39	PASS	
2216.00†	2176.19	-66.98	253.71	2216.31	2246.03	9151.48	2372.80	-91.88	9459.15	53.59	178.29	PASS	
2316.00†	2269.97	-75.84	287.26	2321.42	2351.13	9150.92	2371.75	-92.10	9459.64	54.29	175.98	PASS	
2416.00†	2363.76	-84.70	320.81	2463.03	2492.72	9149.57	2370.01	-92.41	9459.79	55.09	173.40	PASS	
2516.00†	2457.54	-93.56	354.36	2543.30	2572.99	9148.68	2369.05	-92.58	9459.98	55.88	170.93	PASS	
2616.00†	2551.33	-102.41	387.91	2611.88	2641.55	9148.10	2368.23	-92.73	9460.54	56.71	168.44	PASS	
2716.00†	2645.12	-111.27	421.46	2682.24	2711.91	9147.68	2367.36	-92.88	9461.46	57.57	165.90	PASS	
2816.00†	2738.90	-120.13	455.01	2774.54	2804.20	9147.29	2366.21	-93.08	9462.67	58.49	163.28	PASS	
2916.00†	2832.69	-128.99	488.57	2863.96	2893.61	9146.87	2365.24	-93.27	9463.99	59.45	160.64	PASS	
3016.00†	2926.48	-137.85	522.12	2945.27	2974.92	9146.54	2364.43	-93.45	9465.53	60.44	158.03	PASS	
3116.00†	3020.26	-146.70	555.67	3027.49	3057.13	9146.36	2363.52	-93.62	9467.35	61.45	155.43	PASS	
3216.00†	3114.05	-155.56	589.22	3121.43	3151.07	9146.14	2362.75	-93.83	9469.34	62.50	152.82	PASS	
3316.00†	3207.83	-164.42	622.77	3215.95	3245.59	9145.90	2361.90	-94.03	9471.44	63.59	150.22	PASS	
3416.00†	3301.62	-173.28	656.32	3293.81	3323.45	9145.77	2361.27	-94.19	9473.75	64.67	147.72	PASS	
3516.00†	3395.41	-182.14	689.87	3405.36	3434.99	9145.56	2360.46	-94.43	9476.19	65.82	145.15	PASS	
3616.00†	3489.19	-190.99	723.42	3492.75	3522.38	9145.35	2359.68	-94.62	9478.70	66.97	142.69	PASS	
3716.00†	3582.98	-199.85	756.97	3594.04	3623.67	9145.12	2358.75	-94.84	9481.34	68.15	140.24	PASS	
3816.00†	3676.77	-208.71	790.53	3678.02	3707.64	9144.92	2358.01	-95.02	9484.11	69.32	137.88	PASS	
3916.00†	3770.55	-217.57	824.08	3814.75	3844.36	9144.38	2356.57	-95.31	9486.83	70.59	135.43	PASS	
4016.00†	3864.34	-226.43	857.63	3875.66	3905.27	9144.12	2355.85	-95.44	9489.65	71.77	133.22	PASS	
4116.00†	3958.12	-235.29	891.18	3977.42	4007.03	9143.87	2354.86	-95.66	9492.80	73.02	130.96	PASS	
4216.00†	4051.91	-244.14	924.73	4078.95	4108.55	9143.39	2354.11	-95.87	9495.90	74.30	128.73	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 14 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	4145.70	-253.00	958.28	4205.55	4235.15	9142.49	2353.73	-96.14	9498.97	75.65	126.46	PASS	
4416.00†	4239.48	-261.86	991.83	4292.99	4322.58	9141.69	2353.68	-96.32	9502.02	76.96	124.33	PASS	
4516.00†	4333.27	-270.72	1025.38	4405.81	4435.40	9140.61	2353.53	-96.55	9505.13	78.33	122.18	PASS	
4616.00†	4427.06	-279.58	1058.93	4498.82	4528.40	9139.59	2353.63	-96.75	9508.27	79.67	120.15	PASS	
4716.00†	4520.84	-288.43	1092.49	4717.44	4746.99	9135.96	2354.56	-97.19	9511.21	81.26	117.83	PASS	
4816.00†	4614.63	-297.29	1126.04	4843.88	4873.38	9132.55	2355.03	-97.45	9513.12	82.69	115.80	PASS	
4916.00†	4708.41	-306.15	1159.59	4945.54	4975.00	9129.71	2355.39	-97.66	9515.07	84.08	113.89	PASS	
5016.00†	4802.20	-315.01	1193.14	5038.13	5067.54	9127.00	2355.76	-97.84	9517.01	85.47	112.06	PASS	
5116.00†	4895.99	-323.87	1226.69	5107.12	5136.51	9125.15	2355.78	-97.98	9519.27	86.82	110.33	PASS	
5216.00†	4989.77	-332.72	1260.24	5171.13	5200.51	9123.63	2355.67	-98.12	9521.92	88.18	108.67	PASS	
5316.00†	5083.56	-341.58	1293.79	5233.16	5262.52	9122.36	2355.53	-98.24	9525.00	89.50	107.06	PASS	
5416.00†	5177.34	-350.44	1327.34	5293.56	5322.91	9121.34	2355.43	-98.37	9528.52	90.85	105.51	PASS	
5516.00†	5271.13	-359.30	1360.90	5364.37	5393.71	9120.36	2355.33	-98.52	9532.46	92.22	103.97	PASS	
5616.00†	5364.92	-368.16	1394.45	5436.94	5466.28	9119.51	2355.23	-98.67	9536.73	93.60	102.48	PASS	
5716.00†	5458.70	-377.01	1428.00	5508.40	5537.74	9118.83	2355.14	-98.81	9541.33	94.98	101.03	PASS	
5816.00†	5552.49	-385.87	1461.55	5569.67	5599.01	9118.43	2355.12	-98.94	9546.33	96.34	99.65	PASS	
5916.00†	5646.28	-394.73	1495.10	5646.22	5675.55	9118.15	2355.21	-99.10	9551.73	97.73	98.28	PASS	
6016.00†	5740.06	-403.59	1528.65	5746.28	5775.81	9117.82	2355.40	-99.30	9557.30	99.17	96.90	PASS	
6116.00†	5833.85	-412.45	1562.20	5855.33	5884.66	9117.29	2355.70	-99.52	9562.85	100.64	95.53	PASS	
6216.00†	5927.63	-421.30	1595.75	5937.29	5966.62	9116.84	2355.93	-99.69	9568.47	102.03	94.27	PASS	
6316.00†	6021.42	-430.16	1629.30	6001.33	6030.66	9116.65	2356.20	-99.82	9574.45	103.38	93.10	PASS	
6416.00†	6115.21	-439.02	1662.86	6049.89	6079.22	9116.71	2356.43	-99.92	9580.93	104.65	92.03	PASS	
6516.00†	6208.99	-447.88	1696.41	6098.39	6127.72	9116.99	2356.65	-100.02	9587.97	105.91	90.99	PASS	
6616.00†	6302.78	-456.74	1729.96	6208.26	6237.59	9117.85	2356.82	-100.24	9595.31	107.18	89.97	PASS	
6716.00†	6396.57	-465.59	1763.51	6351.89	6381.21	9118.17	2357.83	-100.53	9602.19	108.56	88.89	PASS	
6816.00†	6490.35	-474.45	1797.06	6446.18	6475.50	9118.33	2358.47	-100.72	9609.21	109.90	87.86	PASS	
6916.00†	6584.14	-483.31	1830.61	6553.30	6582.62	9118.38	2358.71	-100.93	9616.20	111.26	86.85	PASS	
7016.00†	6677.92	-492.17	1864.16	6644.81	6674.13	9118.37	2359.19	-101.12	9623.28	112.61	85.87	PASS	
7116.00†	6771.71	-501.03	1897.71	6727.31	6756.63	9118.40	2359.80	-101.28	9630.53	113.95	84.92	PASS	
7199.49	6850.01	-508.42	1925.72	6789.03	6818.34	9118.53	2360.32	-101.40	9636.81	115.05	84.15	PASS	
7216.00†	6865.51	-509.65	1931.27	6803.40	6832.71	9118.57	2360.45	-97.02	9637.84	115.27	84.00	PASS	
7316.00†	6959.51	-506.91	1964.91	6953.39	6982.68	9118.43	2362.82	-70.08	9633.59	116.81	82.85	PASS	
7416.00†	7051.62	-486.88	1997.91	7051.22	7080.49	9118.09	2364.48	-49.39	9612.01	118.54	81.45	PASS	
7516.00†	7139.06	-450.16	2029.25	7236.86	7266.10	9116.41	2367.64	-36.85	9573.40	120.34	79.91	PASS	
7616.00†	7219.15	-397.88	2057.98	7293.76	7322.99	9115.66	2368.56	-29.11	9519.20	121.67	78.58	PASS	
7716.00†	7289.47	-331.61	2083.24	7351.45	7380.67	9115.08	2369.21	-24.19	9451.45	122.76	77.33	PASS	
7816.00†	7347.89	-253.37	2104.25	7400.13	7429.35	9114.62	2369.52	-20.81	9372.10	123.58	76.17	PASS	
7916.00†	7392.62	-165.54	2120.38	7453.04	7482.25	9114.13	2369.79	-18.18	9283.46	124.17	75.09	PASS	
8016.00†	7422.30	-70.79	2131.13	7487.62	7516.83	9113.78	2370.03	-14.94	9188.16	124.51	74.11	PASS	
8116.00†	7436.05	28.00	2136.18	7503.80	7533.01	9113.60	2370.16	5.48	9089.13	124.63	73.24	PASS	
8150.04	7437.00	62.02	2136.57	7504.72	7533.93	9113.59	2370.17	113.66	9055.11	124.62	72.97	PASS	
8216.00†	7437.00	127.98	2136.66	7503.59	7532.80	9113.61	2370.16	113.42	8989.17	124.58	72.46	PASS	
8316.00†	7437.00	227.98	2136.80	7501.90	7531.11	9113.62	2370.15	113.05	8889.21	124.53	71.69	PASS	
8416.00†	7437.00	327.98	2136.93	7500.22	7529.43	9113.64	2370.13	112.68	8789.24	124.47	70.92	PASS	
8516.00†	7437.00	427.98	2137.07	7498.90	7528.11	9113.66	2370.12	112.39	8689.28	124.41	70.14	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 15 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	7437.00	527.98	2137.21	7497.63	7526.84	9113.67	2370.11	112.11	8589.32	124.36	69.37	PASS	
8716.00†	7437.00	627.98	2137.35	7496.37	7525.58	9113.68	2370.10	111.83	8489.36	124.30	68.59	PASS	
8816.00†	7437.00	727.98	2137.48	7495.12	7524.33	9113.70	2370.09	111.55	8389.40	124.24	67.82	PASS	
8916.00†	7437.00	827.98	2137.62	7493.87	7523.08	9113.71	2370.08	111.27	8289.44	124.18	67.04	PASS	
9016.00†	7437.00	927.98	2137.76	7492.63	7521.84	9113.72	2370.07	110.99	8189.48	124.12	66.26	PASS	
9116.00†	7437.00	1027.98	2137.89	7491.39	7520.60	9113.74	2370.06	110.71	8089.52	124.06	65.49	PASS	
9216.00†	7437.00	1127.98	2138.03	7490.16	7519.37	9113.75	2370.05	110.43	7989.57	124.00	64.71	PASS	
9316.00†	7437.00	1227.98	2138.17	7488.93	7518.14	9113.76	2370.04	110.15	7889.61	123.94	63.93	PASS	
9416.00†	7437.00	1327.98	2138.30	7487.71	7516.92	9113.78	2370.03	109.87	7789.66	123.87	63.16	PASS	
9516.00†	7437.00	1427.98	2138.44	7486.49	7515.70	9113.79	2370.03	109.60	7689.70	123.81	62.38	PASS	
9616.00†	7437.00	1527.98	2138.58	7485.28	7514.49	9113.80	2370.02	109.32	7589.75	123.74	61.60	PASS	
9716.00†	7437.00	1627.98	2138.71	7484.08	7513.29	9113.81	2370.01	109.04	7489.80	123.67	60.82	PASS	
9816.00†	7437.00	1727.98	2138.85	7482.88	7512.09	9113.83	2370.00	108.76	7389.85	123.60	60.05	PASS	
9916.00†	7437.00	1827.98	2138.99	7481.68	7510.89	9113.84	2369.99	108.49	7289.90	123.53	59.27	PASS	
10016.00†	7437.00	1927.98	2139.12	7480.49	7509.70	9113.85	2369.98	108.21	7189.95	123.46	58.49	PASS	
10116.00†	7437.00	2027.98	2139.26	7479.31	7508.52	9113.86	2369.97	107.93	7090.00	123.39	57.71	PASS	
10216.00†	7437.00	2127.98	2139.40	7478.13	7507.34	9113.88	2369.96	107.66	6990.06	123.31	56.93	PASS	
10316.00†	7437.00	2227.98	2139.53	7476.96	7506.17	9113.89	2369.96	107.38	6890.11	123.24	56.15	PASS	
10416.00†	7437.00	2327.98	2139.67	7475.79	7505.00	9113.90	2369.95	107.10	6790.17	123.16	55.37	PASS	
10516.00†	7437.00	2427.98	2139.81	7474.62	7503.84	9113.91	2369.94	106.83	6690.23	123.08	54.59	PASS	
10616.00†	7437.00	2527.98	2139.94	7473.47	7502.68	9113.92	2369.93	106.55	6590.29	123.00	53.81	PASS	
10716.00†	7437.00	2627.98	2140.08	7472.31	7501.52	9113.93	2369.92	106.28	6490.35	122.91	53.03	PASS	
10816.00†	7437.00	2727.98	2140.22	7471.16	7500.37	9113.95	2369.91	106.00	6390.41	122.82	52.25	PASS	
10916.00†	7437.00	2827.98	2140.35	7470.02	7499.23	9113.96	2369.91	105.73	6290.48	122.74	51.48	PASS	
11016.00†	7437.00	2927.98	2140.49	7468.88	7498.09	9113.97	2369.90	105.46	6190.55	122.64	50.70	PASS	
11116.00†	7437.00	3027.98	2140.63	7467.75	7496.96	9113.98	2369.89	105.18	6090.62	122.55	49.92	PASS	
11216.00†	7437.00	3127.98	2140.77	7466.62	7495.83	9113.99	2369.88	104.91	5990.69	122.45	49.14	PASS	
11316.00†	7437.00	3227.98	2140.90	7465.49	7494.70	9114.00	2369.88	104.64	5890.76	122.35	48.36	PASS	
11416.00†	7437.00	3327.98	2141.04	7464.37	7493.58	9114.02	2369.87	104.37	5790.84	122.25	47.58	PASS	
11516.00†	7437.00	3427.98	2141.18	7463.26	7492.47	9114.03	2369.86	104.10	5690.92	122.14	46.80	PASS	
11616.00†	7437.00	3527.98	2141.31	7462.15	7491.36	9114.04	2369.85	103.83	5591.00	122.03	46.02	PASS	
11716.00†	7437.00	3627.98	2141.45	7461.04	7490.25	9114.05	2369.85	103.56	5491.08	121.91	45.24	PASS	
11816.00†	7437.00	3727.98	2141.59	7459.94	7489.15	9114.06	2369.84	103.29	5391.17	121.80	44.46	PASS	
11916.00†	7437.00	3827.98	2141.72	7458.85	7488.06	9114.07	2369.83	103.02	5291.26	121.67	43.68	PASS	
12016.00†	7437.00	3927.98	2141.86	7457.75	7486.97	9114.08	2369.82	102.75	5191.35	121.55	42.90	PASS	
12116.00†	7437.00	4027.98	2142.00	7456.67	7485.88	9114.09	2369.82	102.48	5091.45	121.41	42.12	PASS	
12216.00†	7437.00	4127.98	2142.13	7455.58	7484.80	9114.10	2369.81	102.21	4991.55	121.28	41.34	PASS	
12316.00†	7437.00	4227.98	2142.27	7454.51	7483.72	9114.11	2369.80	101.94	4891.66	121.13	40.56	PASS	
12416.00†	7437.00	4327.98	2142.41	7453.43	7482.65	9114.12	2369.80	101.68	4791.76	120.98	39.78	PASS	
12516.00†	7437.00	4427.98	2142.54	7452.36	7481.58	9114.13	2369.79	101.41	4691.88	120.83	39.00	PASS	
12616.00†	7437.00	4527.98	2142.68	7451.30	7480.51	9114.14	2369.78	101.15	4592.00	120.67	38.22	PASS	
12716.00†	7437.00	4627.97	2142.82	7450.24	7479.45	9114.16	2369.78	100.88	4492.12	120.50	37.44	PASS	
12816.00†	7437.00	4727.97	2142.95	7449.18	7478.40	9114.17	2369.77	100.62	4392.25	120.32	36.66	PASS	
12916.00†	7437.00	4827.97	2143.09	7448.13	7477.34	9114.18	2369.76	100.35	4292.38	120.14	35.89	PASS	
13016.00†	7437.00	4927.97	2143.23	7447.08	7476.30	9114.19	2369.76	100.09	4192.52	119.95	35.11	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 16 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	7437.00	5027.97	2143.36	7446.04	7475.25	9114.20	2369.75	99.83	4092.67	119.74	34.33	PASS	
13216.00†	7437.00	5127.97	2143.50	7445.00	7474.22	9114.21	2369.75	99.57	3992.82	119.53	33.55	PASS	
13316.00†	7437.00	5227.97	2143.64	7443.97	7473.18	9114.22	2369.74	99.31	3892.98	119.31	32.77	PASS	
13416.00†	7437.00	5327.97	2143.77	7442.94	7472.15	9114.23	2369.73	99.05	3793.15	119.08	32.00	PASS	
13516.00†	7437.00	5427.97	2143.91	7441.91	7471.13	9114.24	2369.73	98.79	3693.33	118.83	31.22	PASS	
13616.00†	7437.00	5527.97	2144.05	7440.89	7470.10	9114.25	2369.72	98.53	3593.52	118.57	30.44	PASS	
13716.00†	7437.00	5627.97	2144.18	7439.87	7469.09	9114.26	2369.72	98.27	3493.72	118.30	29.66	PASS	
13816.00†	7437.00	5727.97	2144.32	7438.86	7468.07	9114.27	2369.71	98.01	3393.93	118.01	28.89	PASS	
13916.00†	7437.00	5827.97	2144.46	7437.85	7467.06	9114.27	2369.70	97.76	3294.15	117.71	28.11	PASS	
14016.00†	7437.00	5927.97	2144.60	7436.84	7466.06	9114.28	2369.70	97.50	3194.38	117.38	27.33	PASS	
14116.00†	7437.00	6027.97	2144.73	7435.84	7465.06	9114.29	2369.69	97.24	3094.64	117.04	26.56	PASS	
14216.00†	7437.00	6127.97	2144.87	7434.84	7464.06	9114.30	2369.69	96.99	2994.90	116.68	25.78	PASS	
14316.00†	7437.00	6227.97	2145.01	7433.85	7463.07	9114.31	2369.68	96.74	2895.19	116.29	25.01	PASS	
14416.00†	7437.00	6327.97	2145.14	7432.86	7462.08	9114.32	2369.68	96.48	2795.49	115.88	24.23	PASS	
14516.00†	7437.00	6427.97	2145.28	7431.88	7461.09	9114.33	2369.67	96.23	2695.82	115.45	23.46	PASS	
14616.00†	7437.00	6527.97	2145.42	7430.89	7460.11	9114.34	2369.67	95.98	2596.17	114.98	22.68	PASS	
14716.00†	7437.00	6627.97	2145.55	7429.92	7459.13	9114.35	2369.66	95.73	2496.55	114.49	21.91	PASS	
14816.00†	7437.00	6727.97	2145.69	7428.94	7458.16	9114.36	2369.66	95.48	2396.97	113.96	21.13	PASS	
14916.00†	7437.00	6827.97	2145.83	7427.97	7457.19	9114.37	2369.65	95.23	2297.41	113.39	20.35	PASS	
15016.00†	7437.00	6927.97	2145.96	7427.01	7456.22	9114.38	2369.65	94.98	2197.90	112.78	19.58	PASS	
15116.00†	7437.00	7027.97	2146.10	7426.04	7455.26	9114.39	2369.64	94.73	2098.43	112.13	18.80	PASS	
15216.00†	7437.00	7127.97	2146.24	7425.09	7454.30	9114.39	2369.64	94.48	1999.02	111.43	18.02	PASS	
15316.00†	7437.00	7227.97	2146.37	7424.13	7453.35	9114.40	2369.63	94.24	1899.67	110.68	17.24	PASS	
15416.00†	7437.00	7327.97	2146.51	7423.18	7452.40	9114.41	2369.63	93.99	1800.38	109.88	16.46	PASS	
15516.00†	7437.00	7427.97	2146.65	7422.23	7451.45	9114.42	2369.62	93.75	1701.19	109.03	15.68	PASS	
15616.00†	7437.00	7527.97	2146.78	7421.29	7450.50	9114.43	2369.62	93.50	1602.09	108.12	14.89	PASS	
15716.00†	7437.00	7627.97	2146.92	7420.35	7449.56	9114.44	2369.61	93.26	1503.11	107.17	14.09	PASS	
15816.00†	7437.00	7727.97	2147.06	7419.41	7448.63	9114.45	2369.61	93.02	1404.27	106.18	13.29	PASS	
15916.00†	7437.00	7827.97	2147.19	7418.48	7447.70	9114.46	2369.60	92.78	1305.61	105.19	12.47	PASS	
16016.00†	7437.00	7927.97	2147.33	7417.55	7446.77	9114.46	2369.60	92.53	1207.17	104.22	11.64	PASS	
16116.00†	7437.00	8027.97	2147.47	7416.63	7445.84	9114.47	2369.59	92.30	1109.01	103.38	10.78	PASS	
16216.00†	7437.00	8127.97	2147.60	7415.70	7444.92	9114.48	2369.59	92.06	1011.21	102.80	9.88	PASS	
16316.00†	7437.00	8227.97	2147.74	7414.79	7444.00	9114.49	2369.58	91.82	913.88	102.74	8.94	PASS	
16416.00†	7437.00	8327.97	2147.88	7413.87	7443.09	9114.50	2369.58	91.58	817.20	103.66	7.92	PASS	
16516.00†	7437.00	8427.97	2148.02	7412.96	7442.17	9114.51	2369.58	91.34	721.42	106.32	6.81	PASS	
16616.00†	7437.00	8527.97	2148.15	7412.05	7441.27	9114.51	2369.57	91.11	626.96	112.01	5.62	PASS	
16716.00†	7437.00	8627.97	2148.29	7411.15	7440.36	9114.52	2369.57	90.87	534.52	122.76	4.37	PASS	
16816.00†	7437.00	8727.97	2148.43	7410.25	7439.46	9114.53	2369.56	90.64	445.35	141.65	3.15	PASS	
16916.00†	7437.00	8827.97	2148.56	7409.35	7438.56	9114.54	2369.56	90.41	361.89	173.10	2.09	PASS	
17016.00†	7437.00	8927.97	2148.70	7408.45	7437.67	9114.55	2369.55	90.17	289.12	222.02	1.30	PASS	
17116.00†	7437.00	9027.97	2148.84	7407.56	7436.78	9114.55	2369.55	89.94	237.09	285.58	0.83	FAIL	
17202.48†	7437.00	9114.46	2148.95	7406.59	7435.80	9114.57	2369.54	89.43	220.60	328.73	0.67	FAIL	
17216.00†	7437.00	9127.97	2148.97	7406.68	7435.89	9114.58	2369.55	89.71	220.98	332.22	0.66	FAIL	
17226.54†	7437.00	9138.51	2148.99	7406.58	7435.80	9114.56	2369.55	89.69	221.86	334.24	0.66	FAIL	
17316.00†	7437.00	9227.97	2149.11	7405.79	7435.01	9114.57	2369.54	89.48	247.90	328.33	0.75	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 17 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.17-T01S-R66W Slot: SLOT#02 EX. CASE#1 (990'FNL & 990'FEL, SEC.17, PA, TD8237'MD) Well: CASE#1 Threshold Value=1.00 † = Interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
17416.00†	7437.00	9327.97	2149.25	7404.91	7434.13	9114.58	2369.54	89.25	306.71	296.98	1.03	PASS	
17516.00†	7437.00	9427.97	2149.38	7404.03	7433.25	9114.59	2369.53	89.03	383.00	265.87	1.44	PASS	
17616.00†	7437.00	9527.97	2149.52	7403.16	7432.38	9114.59	2369.53	88.80	468.30	241.72	1.94	PASS	
17716.00†	7437.00	9627.97	2149.66	7402.29	7431.50	9114.60	2369.53	88.57	558.50	223.77	2.50	PASS	
17789.00	7437.00	9700.97	2149.76	7401.66	7430.87	9114.61	2369.52	88.41	626.22	213.60	2.94	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	1460.61	5591.58	1460.62
8.625in Casing Surface	0.00	113.00	113.00	14.00	127.00	5591.54	1460.61	5591.58	1460.62
7.875in Open Hole	113.00	8237.00	8124.00	127.00	8250.10	5591.58	1460.62	5573.99	1453.50
4.5in Casing Production	0.00	8237.00	8237.00	14.00	8250.10	5591.54	1460.61	5573.99	1453.50

## 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 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 18 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-3NBH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
16.00	16.00	0.00	0.00	16.00	16.00	0.00	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	
1116.00†	1116.00	0.00	0.00	1114.52	1114.49	-0.45	32.89	90.78	32.93	6.91	5.19	PASS	
1125.00	1125.00	0.00	0.00	1123.36	1123.32	-0.54	33.32	90.93	33.36	7.01	5.18	PASS	
1216.00†	1215.97	-0.55	2.10	1212.60	1212.30	-1.96	39.84	-12.62	37.95	8.27	4.93	PASS	
1316.00†	1315.68	-2.44	9.23	1310.44	1309.37	-4.52	51.65	-11.85	42.94	10.20	4.45	PASS	
1416.00†	1414.88	-5.65	21.39	1408.02	1405.46	-8.13	68.25	-11.53	47.86	11.95	4.20	PASS	
1516.00†	1513.27	-10.18	38.56	1505.38	1500.33	-12.77	89.57	-11.53	52.68	13.55	4.05	PASS	
1616.00†	1610.61	-16.02	60.69	1602.50	1593.74	-18.41	115.51	-11.76	57.41	15.04	3.96	PASS	
1716.00†	1706.61	-23.16	87.71	1699.40	1685.47	-25.04	145.99	-12.16	62.03	16.46	3.89	PASS	
1801.81	1787.74	-30.29	114.74	1782.39	1762.69	-31.50	175.68	-12.63	65.89	17.60	3.86	PASS	
1816.00†	1801.04	-31.55	119.50	1796.09	1775.31	-32.63	180.89	-12.71	66.57	17.76	3.86	PASS	
1916.00†	1894.83	-40.41	153.05	1895.12	1865.97	-41.10	219.84	-13.04	72.76	18.53	4.04	PASS	
2016.00†	1988.61	-49.27	186.60	1994.92	1957.28	-49.66	259.20	-13.30	79.07	19.53	4.16	PASS	
2116.00†	2082.40	-58.12	220.16	2094.72	2048.58	-58.22	298.57	-13.52	85.39	20.45	4.29	PASS	
2216.00†	2176.19	-66.98	253.71	2194.52	2139.89	-66.78	337.93	-13.71	91.71	21.47	4.38	PASS	
2316.00†	2269.97	-75.84	287.26	2294.32	2231.20	-75.34	377.30	-13.88	98.03	22.55	4.46	PASS	
2416.00†	2363.76	-84.70	320.81	2394.12	2322.51	-83.90	416.66	-14.02	104.36	23.68	4.51	PASS	
2516.00†	2457.54	-93.56	354.36	2493.92	2413.82	-92.46	456.03	-14.15	110.68	24.84	4.56	PASS	
2616.00†	2551.33	-102.41	387.91	2593.72	2505.12	-101.02	495.39	-14.27	117.00	26.05	4.59	PASS	
2716.00†	2645.12	-111.27	421.46	2693.52	2596.43	-109.58	534.76	-14.37	123.33	27.29	4.61	PASS	
2816.00†	2738.90	-120.13	455.01	2793.32	2687.74	-118.14	574.12	-14.47	129.65	28.55	4.63	PASS	
2916.00†	2832.69	-128.99	488.57	2893.12	2779.05	-126.70	613.49	-14.55	135.97	29.84	4.64	PASS	
3016.00†	2926.48	-137.85	522.12	2992.92	2870.35	-135.27	652.85	-14.63	142.30	31.15	4.65	PASS	
3116.00†	3020.26	-146.70	555.67	3092.72	2961.66	-143.83	692.22	-14.70	148.62	32.48	4.66	PASS	
3216.00†	3114.05	-155.56	589.22	3192.52	3052.97	-152.39	731.59	-14.77	154.95	33.82	4.66	PASS	
3316.00†	3207.83	-164.42	622.77	3292.32	3144.28	-160.95	770.95	-14.83	161.27	35.18	4.66	PASS	
3416.00†	3301.62	-173.28	656.32	3392.12	3235.58	-169.51	810.32	-14.88	167.60	36.55	4.66	PASS	
3516.00†	3395.41	-182.14	689.87	3491.92	3326.89	-178.07	849.68	-14.93	173.93	37.93	4.65	PASS	
3616.00†	3489.19	-190.99	723.42	3591.72	3418.20	-186.63	889.05	-14.98	180.25	39.32	4.65	PASS	
3716.00†	3582.98	-199.85	756.97	3691.52	3509.51	-195.19	928.41	-15.03	186.58	40.72	4.65	PASS	
3816.00†	3676.77	-208.71	790.53	3791.32	3600.81	-203.75	967.78	-15.07	192.90	42.13	4.64	PASS	
3916.00†	3770.55	-217.57	824.08	3891.12	3692.12	-212.31	1007.14	-15.11	199.23	43.55	4.63	PASS	
4016.00†	3864.34	-226.43	857.63	3990.91	3783.43	-220.87	1046.51	-15.14	205.55	44.97	4.63	PASS	
4116.00†	3958.12	-235.29	891.18	4090.71	3874.74	-229.43	1085.87	-15.18	211.88	46.40	4.62	PASS	
4216.00†	4051.91	-244.14	924.73	4190.51	3966.04	-237.99	1125.24	-15.21	218.21	47.83	4.62	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 19 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-3NBH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
4316.00†	4145.70	-253.00	958.28	4290.31	4057.35	-246.55	1164.60	-15.24	224.53	49.27	4.61	PASS	
4416.00†	4239.48	-261.86	991.83	4390.11	4148.66	-255.11	1203.97	-15.27	230.86	50.71	4.60	PASS	
4516.00†	4333.27	-270.72	1025.38	4489.91	4239.97	-263.67	1243.33	-15.30	237.19	52.16	4.60	PASS	
4616.00†	4427.06	-279.58	1058.93	4589.71	4331.27	-272.23	1282.70	-15.32	243.51	53.61	4.59	PASS	
4716.00†	4520.84	-288.43	1092.49	4689.51	4422.58	-280.79	1322.06	-15.35	249.84	55.07	4.58	PASS	
4816.00†	4614.63	-297.29	1126.04	4789.31	4513.89	-289.36	1361.43	-15.37	256.17	56.53	4.58	PASS	
4916.00†	4708.41	-306.15	1159.59	4889.11	4605.20	-297.92	1400.79	-15.39	262.49	57.99	4.57	PASS	
5016.00†	4802.20	-315.01	1193.14	4988.91	4696.50	-306.48	1440.16	-15.41	268.82	59.45	4.56	PASS	
5116.00†	4895.99	-323.87	1226.69	5088.71	4787.81	-315.04	1479.52	-15.43	275.15	60.92	4.56	PASS	
5216.00†	4989.77	-332.72	1260.24	5188.51	4879.12	-323.60	1518.89	-15.45	281.47	62.39	4.55	PASS	
5316.00†	5083.56	-341.58	1293.79	5288.31	4970.43	-332.16	1558.25	-15.47	287.80	63.86	4.55	PASS	
5416.00†	5177.34	-350.44	1327.34	5388.11	5061.73	-340.72	1597.62	-15.49	294.13	65.33	4.54	PASS	
5516.00†	5271.13	-359.30	1360.90	5487.91	5153.04	-349.28	1636.98	-15.51	300.45	66.81	4.53	PASS	
5616.00†	5364.92	-368.16	1394.45	5587.71	5244.35	-357.84	1676.35	-15.52	306.78	68.29	4.53	PASS	
5716.00†	5458.70	-377.01	1428.00	5687.51	5335.66	-366.40	1715.72	-15.54	313.11	69.76	4.52	PASS	
5816.00†	5552.49	-385.87	1461.55	5787.31	5426.96	-374.96	1755.08	-15.55	319.43	71.25	4.52	PASS	
5916.00†	5646.28	-394.73	1495.10	5887.11	5518.27	-383.52	1794.45	-15.57	325.76	72.73	4.51	PASS	
6016.00†	5740.06	-403.59	1528.65	5986.91	5609.58	-392.08	1833.81	-15.58	332.09	74.21	4.51	PASS	
6116.00†	5833.85	-412.45	1562.20	6086.71	5700.89	-400.64	1873.18	-15.60	338.41	75.70	4.50	PASS	
6216.00†	5927.63	-421.30	1595.75	6186.51	5792.19	-409.20	1912.54	-15.61	344.74	77.18	4.50	PASS	
6316.00†	6021.42	-430.16	1629.30	6286.31	5883.50	-417.76	1951.91	-15.62	351.07	78.67	4.49	PASS	
6416.00†	6115.21	-439.02	1662.86	6386.11	5974.81	-426.32	1991.27	-15.63	357.39	80.16	4.49	PASS	
6516.00†	6208.99	-447.88	1696.41	6485.91	6066.12	-434.88	2030.64	-15.64	363.72	81.65	4.49	PASS	
6616.00†	6302.78	-456.74	1729.96	6585.70	6157.42	-443.44	2070.00	-15.66	370.05	83.14	4.48	PASS	
6716.00†	6396.57	-465.59	1763.51	6685.50	6248.73	-452.01	2109.37	-15.67	376.37	84.63	4.48	PASS	
6816.00†	6490.35	-474.45	1797.06	6785.30	6340.04	-460.57	2148.73	-15.68	382.70	86.12	4.47	PASS	
6916.00†	6584.14	-483.31	1830.61	6885.10	6431.35	-469.13	2188.10	-15.69	389.03	87.62	4.47	PASS	
7016.00†	6677.92	-492.17	1864.16	6984.90	6522.65	-477.69	2227.46	-15.70	395.36	89.11	4.46	PASS	
7116.00†	6771.71	-501.03	1897.71	7084.70	6613.96	-486.25	2266.83	-15.71	401.68	90.60	4.46	PASS	
7199.49	6850.01	-508.42	1925.72	7168.02	6690.19	-493.39	2299.69	-15.71	406.96	91.85	4.46	PASS	
7216.00†	6865.51	-509.65	1931.27	7184.50	6705.27	-494.81	2306.19	-11.37	408.00	92.06	4.46	PASS	
7316.00†	6959.51	-506.91	1964.91	7283.53	6795.87	-503.30	2345.26	16.81	414.07	91.60	4.55	PASS	
7416.00†	7051.62	-486.88	1997.91	7380.61	6884.76	-510.45	2383.58	40.55	420.88	89.25	4.75	PASS	
7516.00†	7139.06	-450.16	2029.25	7482.50	6977.98	-503.61	2423.79	56.59	429.50	88.00	4.91	PASS	
7616.00†	7219.15	-397.88	2057.98	7590.82	7074.18	-476.78	2465.31	67.36	439.50	88.53	5.00	PASS	
7716.00†	7289.47	-331.61	2083.24	7706.46	7169.79	-426.97	2506.61	74.98	450.18	90.01	5.03	PASS	
7816.00†	7347.89	-253.37	2104.25	7830.01	7259.56	-351.87	2545.43	80.50	460.59	91.16	5.08	PASS	
7916.00†	7392.62	-165.54	2120.38	7961.45	7336.48	-251.01	2578.74	84.43	469.63	91.22	5.18	PASS	
8016.00†	7422.30	-70.79	2131.13	8099.74	7392.44	-127.27	2603.03	86.96	476.21	90.61	5.29	PASS	
8116.00†	7436.05	28.00	2136.18	8242.61	7419.99	12.01	2615.10	88.12	479.45	90.69	5.32	PASS	
8150.04	7437.00	62.02	2136.57	8291.73	7422.00	61.07	2616.04	88.21	479.70	91.07	5.30	PASS	
8216.00†	7437.00	127.98	2136.66	8357.99	7422.00	127.33	2616.13	88.21	479.70	91.57	5.27	PASS	
8316.00†	7437.00	227.98	2136.80	8457.99	7422.00	227.33	2616.26	88.21	479.70	92.73	5.21	PASS	
8416.00†	7437.00	327.98	2136.93	8557.99	7422.00	327.33	2616.40	88.21	479.70	94.36	5.11	PASS	
8516.00†	7437.00	427.98	2137.07	8657.99	7422.00	427.33	2616.53	88.21	479.69	96.39	5.01	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 20 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-3NBH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
8616.00†	7437.00	527.98	2137.21	8757.99	7422.00	527.33	2616.66	88.21	479.69	98.79	4.88	PASS	
8716.00†	7437.00	627.98	2137.35	8857.99	7422.00	627.33	2616.80	88.21	479.69	100.28	4.81	PASS	
8816.00†	7437.00	727.98	2137.48	8957.99	7422.00	727.33	2616.93	88.21	479.69	104.59	4.61	PASS	
8916.00†	7437.00	827.98	2137.62	9057.99	7422.00	827.33	2617.07	88.21	479.69	107.93	4.47	PASS	
9016.00†	7437.00	927.98	2137.76	9157.99	7422.00	927.33	2617.20	88.21	479.68	111.54	4.32	PASS	
9116.00†	7437.00	1027.98	2137.89	9257.99	7422.00	1027.33	2617.34	88.21	479.68	115.39	4.18	PASS	
9216.00†	7437.00	1127.98	2138.03	9357.99	7422.00	1127.33	2617.47	88.21	479.68	119.45	4.03	PASS	
9316.00†	7437.00	1227.98	2138.17	9457.99	7422.00	1227.33	2617.61	88.21	479.68	123.71	3.89	PASS	
9416.00†	7437.00	1327.98	2138.30	9557.99	7422.00	1327.33	2617.74	88.21	479.68	128.14	3.76	PASS	
9516.00†	7437.00	1427.98	2138.44	9657.99	7422.00	1427.33	2617.88	88.21	479.67	132.72	3.63	PASS	
9616.00†	7437.00	1527.98	2138.58	9757.99	7422.00	1527.33	2618.01	88.21	479.67	137.45	3.50	PASS	
9716.00†	7437.00	1627.98	2138.71	9857.99	7422.00	1627.33	2618.15	88.21	479.67	142.30	3.38	PASS	
9816.00†	7437.00	1727.98	2138.85	9957.99	7422.00	1727.33	2618.28	88.21	479.67	147.27	3.27	PASS	
9916.00†	7437.00	1827.98	2138.99	10057.99	7422.00	1827.33	2618.42	88.21	479.67	152.34	3.16	PASS	
10016.00†	7437.00	1927.98	2139.12	10157.99	7422.00	1927.33	2618.55	88.21	479.66	157.50	3.05	PASS	
10116.00†	7437.00	2027.98	2139.26	10257.99	7422.00	2027.33	2618.69	88.21	479.66	162.75	2.96	PASS	
10216.00†	7437.00	2127.98	2139.40	10357.99	7422.00	2127.33	2618.82	88.21	479.66	168.07	2.86	PASS	
10316.00†	7437.00	2227.98	2139.53	10457.99	7422.00	2227.33	2618.96	88.21	479.66	173.47	2.77	PASS	
10416.00†	7437.00	2327.98	2139.67	10557.99	7422.00	2327.33	2619.09	88.21	479.66	178.92	2.69	PASS	
10516.00†	7437.00	2427.98	2139.81	10657.99	7422.00	2427.33	2619.23	88.21	479.65	184.43	2.61	PASS	
10616.00†	7437.00	2527.98	2139.94	10757.99	7422.00	2527.33	2619.36	88.21	479.65	190.00	2.53	PASS	
10716.00†	7437.00	2627.98	2140.08	10857.99	7422.00	2627.33	2619.50	88.21	479.65	195.61	2.46	PASS	
10816.00†	7437.00	2727.98	2140.22	10957.99	7422.00	2727.33	2619.63	88.21	479.65	201.27	2.39	PASS	
10916.00†	7437.00	2827.98	2140.35	11057.99	7422.00	2827.33	2619.77	88.21	479.65	206.96	2.32	PASS	
11016.00†	7437.00	2927.98	2140.49	11157.99	7422.00	2927.33	2619.90	88.21	479.64	212.70	2.26	PASS	
11116.00†	7437.00	3027.98	2140.63	11257.99	7422.00	3027.33	2620.04	88.21	479.64	218.46	2.20	PASS	
11216.00†	7437.00	3127.98	2140.77	11357.99	7422.00	3127.33	2620.17	88.21	479.64	224.26	2.14	PASS	
11316.00†	7437.00	3227.98	2140.90	11457.99	7422.00	3227.33	2620.30	88.21	479.64	230.09	2.09	PASS	
11416.00†	7437.00	3327.98	2141.04	11557.99	7422.00	3327.33	2620.44	88.21	479.64	235.95	2.04	PASS	
11516.00†	7437.00	3427.98	2141.18	11657.99	7422.00	3427.33	2620.57	88.21	479.63	241.83	1.99	PASS	
11616.00†	7437.00	3527.98	2141.31	11757.99	7422.00	3527.33	2620.71	88.21	479.63	247.73	1.94	PASS	
11716.00†	7437.00	3627.98	2141.45	11857.99	7422.00	3627.33	2620.84	88.21	479.63	253.65	1.89	PASS	
11816.00†	7437.00	3727.98	2141.59	11957.99	7422.00	3727.33	2620.98	88.21	479.63	259.60	1.85	PASS	
11916.00†	7437.00	3827.98	2141.72	12057.99	7422.00	3827.33	2621.11	88.21	479.63	265.56	1.81	PASS	
12016.00†	7437.00	3927.98	2141.86	12157.99	7422.00	3927.33	2621.25	88.21	479.62	271.54	1.77	PASS	
12116.00†	7437.00	4027.98	2142.00	12257.99	7422.00	4027.33	2621.38	88.21	479.62	277.54	1.73	PASS	
12216.00†	7437.00	4127.98	2142.13	12357.99	7422.00	4127.33	2621.52	88.21	479.62	283.55	1.69	PASS	
12316.00†	7437.00	4227.98	2142.27	12457.99	7422.00	4227.33	2621.65	88.21	479.62	289.57	1.66	PASS	
12416.00†	7437.00	4327.98	2142.41	12557.99	7422.00	4327.33	2621.79	88.21	479.62	295.61	1.62	PASS	
12516.00†	7437.00	4427.98	2142.54	12657.99	7422.00	4427.33	2621.92	88.21	479.61	301.67	1.59	PASS	
12616.00†	7437.00	4527.98	2142.68	12757.99	7422.00	4527.33	2622.06	88.21	479.61	307.73	1.56	PASS	
12716.00†	7437.00	4627.97	2142.82	12857.99	7422.00	4627.33	2622.19	88.21	479.61	313.81	1.53	PASS	
12816.00†	7437.00	4727.97	2142.95	12957.99	7422.00	4727.33	2622.33	88.21	479.61	319.89	1.50	PASS	
12916.00†	7437.00	4827.97	2143.09	13057.99	7422.00	4827.33	2622.46	88.21	479.61	325.99	1.47	PASS	
13016.00†	7437.00	4927.97	2143.23	13157.99	7422.00	4927.33	2622.60	88.21	479.60	332.09	1.45	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 21 of 43



REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-3NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-3NBH (NIO B CK, REV-A.0) PWP													
Facility: SEC.20-T01S-R66W		Slot: SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20)				Well: BRIGHTON LAKES 20-17-3NBH				Threshold Value=1.00 † = interpolated/extrapolated station			
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
13116.00†	7437.00	5027.97	2143.36	13257.99	7422.00	5027.33	2622.73	88.21	479.60	338.21	1.42	PASS	
13216.00†	7437.00	5127.97	2143.50	13357.99	7422.00	5127.33	2622.87	88.21	479.60	344.33	1.39	PASS	
13316.00†	7437.00	5227.97	2143.64	13457.99	7422.00	5227.33	2623.00	88.21	479.60	350.46	1.37	PASS	
13416.00†	7437.00	5327.97	2143.77	13557.99	7422.00	5327.33	2623.14	88.21	479.60	356.60	1.35	PASS	
13516.00†	7437.00	5427.97	2143.91	13657.99	7422.00	5427.33	2623.27	88.21	479.59	362.75	1.32	PASS	
13616.00†	7437.00	5527.97	2144.05	13757.99	7422.00	5527.33	2623.41	88.21	479.59	368.90	1.30	PASS	
13716.00†	7437.00	5627.97	2144.18	13857.99	7422.00	5627.33	2623.54	88.21	479.59	375.06	1.28	PASS	
13816.00†	7437.00	5727.97	2144.32	13957.99	7422.00	5727.33	2623.68	88.21	479.59	381.22	1.26	PASS	
13916.00†	7437.00	5827.97	2144.46	14057.99	7422.00	5827.33	2623.81	88.21	479.59	387.39	1.24	PASS	
14016.00†	7437.00	5927.97	2144.60	14157.99	7422.00	5927.33	2623.94	88.21	479.58	393.57	1.22	PASS	
14116.00†	7437.00	6027.97	2144.73	14257.99	7422.00	6027.33	2624.08	88.21	479.58	399.75	1.20	PASS	
14216.00†	7437.00	6127.97	2144.87	14357.99	7422.00	6127.33	2624.21	88.21	479.58	405.94	1.18	PASS	
14316.00†	7437.00	6227.97	2145.01	14457.99	7422.00	6227.33	2624.35	88.21	479.58	412.13	1.16	PASS	
14416.00†	7437.00	6327.97	2145.14	14557.99	7422.00	6327.33	2624.48	88.21	479.58	418.33	1.15	PASS	
14516.00†	7437.00	6427.97	2145.28	14657.99	7422.00	6427.33	2624.62	88.21	479.57	424.53	1.13	PASS	
14616.00†	7437.00	6527.97	2145.42	14757.99	7422.00	6527.33	2624.75	88.21	479.57	430.73	1.11	PASS	
14716.00†	7437.00	6627.97	2145.55	14857.99	7422.00	6627.33	2624.89	88.21	479.57	436.94	1.10	PASS	
14816.00†	7437.00	6727.97	2145.69	14957.99	7422.00	6727.33	2625.02	88.21	479.57	443.15	1.08	PASS	
14916.00†	7437.00	6827.97	2145.83	15057.99	7422.00	6827.33	2625.16	88.21	479.57	449.37	1.07	PASS	
15016.00†	7437.00	6927.97	2145.96	15157.99	7422.00	6927.33	2625.29	88.21	479.56	455.59	1.05	PASS	
15116.00†	7437.00	7027.97	2146.10	15257.99	7422.00	7027.33	2625.43	88.21	479.56	461.81	1.04	PASS	
15216.00†	7437.00	7127.97	2146.24	15357.99	7422.00	7127.33	2625.56	88.21	479.56	468.04	1.02	PASS	
15316.00†	7437.00	7227.97	2146.37	15457.99	7422.00	7227.33	2625.70	88.21	479.56	474.27	1.01	PASS	
15416.00†	7437.00	7327.97	2146.51	15557.99	7422.00	7327.33	2625.83	88.21	479.56	480.50	1.00	FAIL	
15516.00†	7437.00	7427.97	2146.65	15657.99	7422.00	7427.33	2625.97	88.21	479.55	486.74	0.99	FAIL	
15616.00†	7437.00	7527.97	2146.78	15757.99	7422.00	7527.33	2626.10	88.21	479.55	492.98	0.97	FAIL	
15716.00†	7437.00	7627.97	2146.92	15857.99	7422.00	7627.33	2626.24	88.21	479.55	499.22	0.96	FAIL	
15816.00†	7437.00	7727.97	2147.06	15957.99	7422.00	7727.33	2626.37	88.21	479.55	505.47	0.95	FAIL	
15916.00†	7437.00	7827.97	2147.19	16057.99	7422.00	7827.33	2626.51	88.21	479.55	511.71	0.94	FAIL	
16016.00†	7437.00	7927.97	2147.33	16157.99	7422.00	7927.33	2626.64	88.21	479.54	517.96	0.93	FAIL	
16116.00†	7437.00	8027.97	2147.47	16257.99	7422.00	8027.33	2626.78	88.21	479.54	524.21	0.91	FAIL	
16216.00†	7437.00	8127.97	2147.60	16357.99	7422.00	8127.33	2626.91	88.21	479.54	530.47	0.90	FAIL	
16316.00†	7437.00	8227.97	2147.74	16457.99	7422.00	8227.33	2627.05	88.21	479.54	536.72	0.89	FAIL	
16416.00†	7437.00	8327.97	2147.88	16557.99	7422.00	8327.33	2627.18	88.21	479.54	542.98	0.88	FAIL	
16516.00†	7437.00	8427.97	2148.02	16657.99	7422.00	8427.33	2627.32	88.21	479.53	549.24	0.87	FAIL	
16616.00†	7437.00	8527.97	2148.15	16757.99	7422.00	8527.33	2627.45	88.21	479.53	555.50	0.86	FAIL	
16716.00†	7437.00	8627.97	2148.29	16857.99	7422.00	8627.33	2627.58	88.21	479.53	561.77	0.85	FAIL	
16816.00†	7437.00	8727.97	2148.43	16957.99	7422.00	8727.33	2627.72	88.21	479.53	568.03	0.84	FAIL	
16916.00†	7437.00	8827.97	2148.56	17057.99	7422.00	8827.33	2627.85	88.21	479.53	574.30	0.83	FAIL	
17016.00†	7437.00	8927.97	2148.70	17157.99	7422.00	8927.33	2627.99	88.21	479.53	580.57	0.83	FAIL	
17116.00†	7437.00	9027.97	2148.84	17257.99	7422.00	9027.33	2628.12	88.21	479.52	586.84	0.82	FAIL	
17216.00†	7437.00	9127.97	2148.97	17357.99	7422.00	9127.33	2628.26	88.21	479.52	593.11	0.81	FAIL	
17316.00†	7437.00	9227.97	2149.11	17457.99	7422.00	9227.33	2628.39	88.21	479.52	599.39	0.80	FAIL	
17416.00†	7437.00	9327.97	2149.25	17557.99	7422.00	9327.33	2628.53	88.21	479.52	605.66	0.79	FAIL	
17516.00†	7437.00	9427.97	2149.38	17657.99	7422.00	9427.33	2628.66	88.21	479.52	611.94	0.78	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 22 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-3NBH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
17616.00†	7437.00	9527.97	2149.52	17757.99	7422.00	9527.32	2628.80	88.21	479.51	618.22	0.78	FAIL	
17716.00†	7437.00	9627.97	2149.66	17857.99	7422.00	9627.32	2628.93	88.21	479.51	624.50	0.77	FAIL	
17789.00	7437.00	9700.97	2149.76	17930.99	7422.00	9700.32	2629.03	88.21	479.51	629.08	0.76	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

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

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	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	17936.00	17054.00	882.00	N/A	0.00	18.80	N/A	N/A

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

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

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

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



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 23 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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	-28.04	-90.00	28.04	1.56	45.13	PASS	
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	-28.04	-90.00	28.04	1.89	29.10	PASS	
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-28.04	-90.00	28.04	2.47	17.97	PASS	
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-28.04	-90.00	28.04	3.08	12.81	PASS	
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	-28.04	-90.00	28.04	3.69	9.92	PASS	
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	-28.04	-90.00	28.04	4.31	8.08	PASS	
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	-28.04	-90.00	28.04	4.94	6.81	PASS	
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	-28.04	-90.00	28.04	5.56	5.89	PASS	
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	-28.04	-90.00	28.04	6.19	5.18	PASS	
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	-28.04	-90.00	28.04	6.26	4.93	PASS	
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	-28.04	-90.00	28.04	6.40	4.80	PASS	
1116.00†	1116.00	0.00	0.00	1116.00	1116.00	0.00	-28.04	-90.00	28.04	6.73	4.54	PASS	
1125.00	1125.00	0.00	0.00	1125.00	1125.00	0.00	-28.04	-90.00	28.04	6.77	4.51	PASS	
1216.00†	1215.97	-0.55	2.10	1215.97	1215.97	0.00	-28.04	166.25	30.14	7.38	4.41	PASS	
1316.00†	1315.68	-2.44	9.23	1317.36	1317.32	-0.71	-25.92	168.02	35.23	8.81	4.26	PASS	
1416.00†	1414.88	-5.65	21.39	1419.17	1418.83	-3.14	-18.69	168.83	40.36	10.73	3.95	PASS	
1516.00†	1513.27	-10.18	38.56	1521.25	1520.07	-7.31	-6.30	168.98	45.47	12.55	3.78	PASS	
1616.00†	1610.61	-16.02	60.69	1623.61	1620.72	-13.22	11.24	168.68	50.55	14.21	3.69	PASS	
1716.00†	1706.61	-23.16	87.71	1726.23	1720.50	-20.85	33.94	168.05	55.58	15.73	3.65	PASS	
1801.81	1787.74	-30.29	114.74	1813.45	1804.27	-28.58	56.93	167.39	60.15	16.81	3.69	PASS	
1816.00†	1801.04	-31.55	119.50	1827.60	1817.83	-29.88	60.77	167.33	61.11	16.94	3.72	PASS	
1916.00†	1894.83	-40.41	153.05	1927.38	1913.43	-38.98	87.84	166.96	67.83	17.73	3.94	PASS	
2016.00†	1988.61	-49.27	186.60	2027.15	2009.03	-48.09	114.92	166.66	74.55	18.64	4.12	PASS	
2116.00†	2082.40	-58.12	220.16	2126.92	2104.62	-57.20	141.99	166.41	81.27	19.56	4.27	PASS	
2216.00†	2176.19	-66.98	253.71	2226.69	2200.22	-66.30	169.06	166.19	88.00	20.55	4.40	PASS	
2316.00†	2269.97	-75.84	287.26	2326.47	2295.82	-75.41	196.13	166.01	94.72	21.61	4.50	PASS	
2416.00†	2363.76	-84.70	320.81	2426.24	2391.42	-84.52	223.20	165.85	101.45	22.70	4.58	PASS	
2516.00†	2457.54	-93.56	354.36	2526.01	2487.01	-93.63	250.27	165.71	108.18	23.83	4.65	PASS	
2616.00†	2551.33	-102.41	387.91	2625.79	2582.61	-102.73	277.34	165.59	114.91	24.99	4.70	PASS	
2716.00†	2645.12	-111.27	421.46	2725.56	2678.21	-111.84	304.41	165.48	121.64	26.18	4.75	PASS	
2816.00†	2738.90	-120.13	455.01	2825.33	2773.81	-120.95	331.49	165.38	128.37	27.39	4.78	PASS	
2916.00†	2832.69	-128.99	488.57	2925.11	2869.40	-130.05	358.56	165.30	135.10	28.62	4.81	PASS	
3016.00†	2926.48	-137.85	522.12	3024.88	2965.00	-139.16	385.63	165.22	141.83	29.87	4.84	PASS	
3116.00†	3020.26	-146.70	555.67	3124.65	3060.60	-148.27	412.70	165.14	148.56	31.14	4.86	PASS	
3216.00†	3114.05	-155.56	589.22	3224.43	3156.20	-157.37	439.77	165.08	155.29	32.42	4.87	PASS	
3316.00†	3207.83	-164.42	622.77	3324.20	3251.79	-166.48	466.84	165.02	162.02	33.71	4.89	PASS	
3416.00†	3301.62	-173.28	656.32	3423.97	3347.39	-175.59	493.91	164.96	168.75	35.01	4.90	PASS	
3516.00†	3395.41	-182.14	689.87	3523.74	3442.99	-184.69	520.99	164.91	175.48	36.33	4.91	PASS	
3616.00†	3489.19	-190.99	723.42	3623.52	3538.59	-193.80	548.06	164.86	182.21	37.65	4.91	PASS	
3716.00†	3582.98	-199.85	756.97	3723.29	3634.18	-202.91	575.13	164.82	188.94	38.98	4.92	PASS	
3816.00†	3676.77	-208.71	790.53	3823.06	3729.78	-212.02	602.20	164.78	195.67	40.31	4.92	PASS	
3916.00†	3770.55	-217.57	824.08	3922.84	3825.38	-221.12	629.27	164.74	202.40	41.65	4.93	PASS	
4016.00†	3864.34	-226.43	857.63	4022.61	3920.98	-230.23	656.34	164.70	209.14	43.00	4.93	PASS	
4116.00†	3958.12	-235.29	891.18	4122.38	4016.57	-239.34	683.41	164.67	215.87	44.36	4.93	PASS	
4216.00†	4051.91	-244.14	924.73	4222.16	4112.17	-248.44	710.49	164.64	222.60	45.71	4.93	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 24 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NBH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
4316.00†	4145.70	-253.00	958.28	4321.93	4207.77	-257.55	737.56	164.61	229.33	47.08	4.93	PASS	
4416.00†	4239.48	-261.86	991.83	4421.70	4303.37	-266.66	764.63	164.58	236.06	48.44	4.93	PASS	
4516.00†	4333.27	-270.72	1025.38	4521.48	4398.96	-275.76	791.70	164.55	242.80	49.81	4.93	PASS	
4616.00†	4427.06	-279.58	1058.93	4621.25	4494.56	-284.87	818.77	164.53	249.53	51.18	4.93	PASS	
4716.00†	4520.84	-288.43	1092.49	4721.02	4590.16	-293.98	845.84	164.50	256.26	52.56	4.93	PASS	
4816.00†	4614.63	-297.29	1126.04	4820.80	4685.76	-303.08	872.91	164.48	262.99	53.94	4.93	PASS	
4916.00†	4708.41	-306.15	1159.59	4920.57	4781.35	-312.19	899.99	164.46	269.72	55.32	4.93	PASS	
5016.00†	4802.20	-315.01	1193.14	5020.34	4876.95	-321.30	927.06	164.44	276.45	56.70	4.92	PASS	
5116.00†	4895.99	-323.87	1226.69	5120.11	4972.55	-330.41	954.13	164.42	283.19	58.09	4.92	PASS	
5216.00†	4989.77	-332.72	1260.24	5219.89	5068.15	-339.51	981.20	164.40	289.92	59.48	4.92	PASS	
5316.00†	5083.56	-341.58	1293.79	5319.66	5163.74	-348.62	1008.27	164.38	296.65	60.87	4.92	PASS	
5416.00†	5177.34	-350.44	1327.34	5419.43	5259.34	-357.73	1035.34	164.36	303.38	62.26	4.92	PASS	
5516.00†	5271.13	-359.30	1360.90	5519.21	5354.94	-366.83	1062.41	164.35	310.12	63.65	4.92	PASS	
5616.00†	5364.92	-368.16	1394.45	5618.98	5450.54	-375.94	1089.48	164.33	316.85	65.05	4.91	PASS	
5716.00†	5458.70	-377.01	1428.00	5718.75	5546.13	-385.05	1116.56	164.32	323.58	66.44	4.91	PASS	
5816.00†	5552.49	-385.87	1461.55	5818.53	5641.73	-394.15	1143.63	164.30	330.31	67.84	4.91	PASS	
5916.00†	5646.28	-394.73	1495.10	5918.30	5737.33	-403.26	1170.70	164.29	337.04	69.24	4.91	PASS	
6016.00†	5740.06	-403.59	1528.65	6018.07	5832.92	-412.37	1197.77	164.28	343.78	70.64	4.91	PASS	
6116.00†	5833.85	-412.45	1562.20	6117.85	5928.52	-421.48	1224.84	164.26	350.51	72.04	4.90	PASS	
6216.00†	5927.63	-421.30	1595.75	6217.62	6024.12	-430.58	1251.91	164.25	357.24	73.45	4.90	PASS	
6316.00†	6021.42	-430.16	1629.30	6317.39	6119.72	-439.69	1278.98	164.24	363.97	74.85	4.90	PASS	
6416.00†	6115.21	-439.02	1662.86	6417.16	6215.31	-448.80	1306.06	164.23	370.71	76.25	4.90	PASS	
6516.00†	6208.99	-447.88	1696.41	6516.94	6310.91	-457.90	1333.13	164.22	377.44	77.66	4.90	PASS	
6616.00†	6302.78	-456.74	1729.96	6616.71	6406.51	-467.01	1360.20	164.21	384.17	79.07	4.89	PASS	
6716.00†	6396.57	-465.59	1763.51	6716.48	6502.11	-476.12	1387.27	164.20	390.90	80.47	4.89	PASS	
6816.00†	6490.35	-474.45	1797.06	6816.26	6597.70	-485.22	1414.34	164.19	397.64	81.88	4.89	PASS	
6916.00†	6584.14	-483.31	1830.61	6916.03	6693.30	-494.33	1441.41	164.18	404.37	83.29	4.89	PASS	
7016.00†	6677.92	-492.17	1864.16	7015.80	6788.90	-503.44	1468.48	164.17	411.10	84.70	4.89	PASS	
7116.00†	6771.71	-501.03	1897.71	7116.46	6885.46	-510.73	1495.83	164.42	417.78	85.86	4.90	PASS	
7199.49	6850.01	-508.42	1925.72	7199.45	6965.08	-505.55	1518.40	166.13	423.28	85.41	4.99	PASS	
7216.00†	6865.51	-509.65	1931.27	7215.41	6980.26	-503.19	1522.70	171.14	424.43	85.21	5.01	PASS	
7316.00†	6959.51	-506.91	1964.91	7310.04	7068.48	-480.23	1547.72	-158.17	432.01	84.21	5.17	PASS	
7416.00†	7051.62	-486.88	1997.91	7401.66	7149.30	-443.93	1570.67	-134.14	440.36	83.68	5.30	PASS	
7516.00†	7139.06	-450.16	2029.25	7490.76	7221.59	-396.22	1591.22	-118.47	448.99	83.53	5.41	PASS	
7616.00†	7219.15	-397.88	2057.98	7577.78	7284.49	-338.95	1609.12	-108.26	457.40	83.61	5.51	PASS	
7716.00†	7289.47	-331.61	2083.24	7663.13	7337.39	-273.79	1624.20	-101.37	465.14	83.78	5.59	PASS	
7816.00†	7347.89	-253.37	2104.25	7747.17	7379.81	-202.35	1636.32	-96.64	471.79	83.97	5.66	PASS	
7916.00†	7392.62	-165.54	2120.38	7830.24	7411.43	-126.16	1645.38	-93.46	477.00	84.21	5.70	PASS	
8016.00†	7422.30	-70.79	2131.13	7912.63	7432.00	-46.67	1651.32	-91.52	480.52	84.58	5.72	PASS	
8116.00†	7436.05	28.00	2136.18	7994.64	7441.37	34.69	1654.09	-90.66	482.17	85.13	5.70	PASS	
8150.04	7437.00	62.02	2136.57	8022.65	7442.00	62.69	1654.30	-90.59	482.30	85.33	5.69	PASS	
8216.00†	7437.00	127.98	2136.66	8088.61	7442.00	128.65	1654.39	-90.59	482.29	85.81	5.66	PASS	
8316.00†	7437.00	227.98	2136.80	8188.61	7442.00	228.65	1654.53	-90.59	482.29	87.02	5.58	PASS	
8416.00†	7437.00	327.98	2136.93	8288.61	7442.00	328.65	1654.67	-90.59	482.29	88.72	5.47	PASS	
8516.00†	7437.00	427.98	2137.07	8388.61	7442.00	428.65	1654.81	-90.59	482.29	90.84	5.34	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 25 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	7437.00	527.98	2137.21	8488.61	7442.00	528.65	1654.95	-90.59	482.29	94.23	5.15	PASS	
8716.00†	7437.00	627.98	2137.35	8588.61	7442.00	628.65	1655.09	-90.59	482.29	96.21	5.04	PASS	
8816.00†	7437.00	727.98	2137.48	8688.61	7442.00	728.65	1655.23	-90.59	482.28	99.39	4.88	PASS	
8916.00†	7437.00	827.98	2137.62	8788.61	7442.00	828.65	1655.36	-90.59	482.28	102.88	4.71	PASS	
9016.00†	7437.00	927.98	2137.76	8888.61	7442.00	928.65	1655.50	-90.59	482.28	106.63	4.55	PASS	
9116.00†	7437.00	1027.98	2137.89	8988.61	7442.00	1028.65	1655.64	-90.59	482.28	110.62	4.38	PASS	
9216.00†	7437.00	1127.98	2138.03	9088.61	7442.00	1128.65	1655.78	-90.59	482.28	114.82	4.22	PASS	
9316.00†	7437.00	1227.98	2138.17	9188.61	7442.00	1228.65	1655.92	-90.59	482.27	119.22	4.06	PASS	
9416.00†	7437.00	1327.98	2138.30	9288.61	7442.00	1328.65	1656.06	-90.59	482.27	123.78	3.91	PASS	
9516.00†	7437.00	1427.98	2138.44	9388.61	7442.00	1428.65	1656.20	-90.59	482.27	128.50	3.77	PASS	
9616.00†	7437.00	1527.98	2138.58	9488.61	7442.00	1528.65	1656.34	-90.59	482.27	133.36	3.63	PASS	
9716.00†	7437.00	1627.98	2138.71	9588.61	7442.00	1628.65	1656.47	-90.59	482.27	138.33	3.50	PASS	
9816.00†	7437.00	1727.98	2138.85	9688.61	7442.00	1728.65	1656.61	-90.59	482.26	143.42	3.37	PASS	
9916.00†	7437.00	1827.98	2138.99	9788.61	7442.00	1828.65	1656.75	-90.59	482.26	148.60	3.26	PASS	
10016.00†	7437.00	1927.98	2139.12	9888.61	7442.00	1928.65	1656.89	-90.59	482.26	153.87	3.14	PASS	
10116.00†	7437.00	2027.98	2139.26	9988.61	7442.00	2028.65	1657.03	-90.59	482.26	159.22	3.04	PASS	
10216.00†	7437.00	2127.98	2139.40	10088.61	7442.00	2128.65	1657.17	-90.59	482.26	164.64	2.94	PASS	
10316.00†	7437.00	2227.98	2139.53	10188.61	7442.00	2228.65	1657.31	-90.59	482.25	170.13	2.84	PASS	
10416.00†	7437.00	2327.98	2139.67	10288.61	7442.00	2328.65	1657.45	-90.59	482.25	175.67	2.75	PASS	
10516.00†	7437.00	2427.98	2139.81	10388.61	7442.00	2428.65	1657.58	-90.59	482.25	181.27	2.67	PASS	
10616.00†	7437.00	2527.98	2139.94	10488.61	7442.00	2528.65	1657.72	-90.59	482.25	186.91	2.59	PASS	
10716.00†	7437.00	2627.98	2140.08	10588.61	7442.00	2628.65	1657.86	-90.59	482.25	192.60	2.51	PASS	
10816.00†	7437.00	2727.98	2140.22	10688.61	7442.00	2728.65	1658.00	-90.59	482.24	198.33	2.44	PASS	
10916.00†	7437.00	2827.98	2140.35	10788.61	7442.00	2828.65	1658.14	-90.59	482.24	204.10	2.37	PASS	
11016.00†	7437.00	2927.98	2140.49	10888.61	7442.00	2928.65	1658.28	-90.59	482.24	209.90	2.30	PASS	
11116.00†	7437.00	3027.98	2140.63	10988.61	7442.00	3028.65	1658.42	-90.59	482.24	215.73	2.24	PASS	
11216.00†	7437.00	3127.98	2140.77	11088.61	7442.00	3128.65	1658.55	-90.59	482.24	221.59	2.18	PASS	
11316.00†	7437.00	3227.98	2140.90	11188.61	7442.00	3228.65	1658.69	-90.59	482.23	227.47	2.12	PASS	
11416.00†	7437.00	3327.98	2141.04	11288.61	7442.00	3328.65	1658.83	-90.59	482.23	233.38	2.07	PASS	
11516.00†	7437.00	3427.98	2141.18	11388.61	7442.00	3428.65	1658.97	-90.59	482.23	239.32	2.02	PASS	
11616.00†	7437.00	3527.98	2141.31	11488.61	7442.00	3528.64	1659.11	-90.59	482.23	245.27	1.97	PASS	
11716.00†	7437.00	3627.98	2141.45	11588.61	7442.00	3628.64	1659.25	-90.59	482.23	251.24	1.92	PASS	
11816.00†	7437.00	3727.98	2141.59	11688.61	7442.00	3728.64	1659.39	-90.59	482.22	257.23	1.88	PASS	
11916.00†	7437.00	3827.98	2141.72	11788.61	7442.00	3828.64	1659.53	-90.59	482.22	263.24	1.83	PASS	
12016.00†	7437.00	3927.98	2141.86	11888.61	7442.00	3928.64	1659.66	-90.59	482.22	269.27	1.79	PASS	
12116.00†	7437.00	4027.98	2142.00	11988.61	7442.00	4028.64	1659.80	-90.59	482.22	275.30	1.75	PASS	
12216.00†	7437.00	4127.98	2142.13	12088.61	7442.00	4128.64	1659.94	-90.59	482.22	281.36	1.72	PASS	
12316.00†	7437.00	4227.98	2142.27	12188.61	7442.00	4228.64	1660.08	-90.59	482.22	287.42	1.68	PASS	
12416.00†	7437.00	4327.98	2142.41	12288.61	7442.00	4328.64	1660.22	-90.59	482.21	293.50	1.64	PASS	
12516.00†	7437.00	4427.98	2142.54	12388.61	7442.00	4428.64	1660.36	-90.59	482.21	299.59	1.61	PASS	
12616.00†	7437.00	4527.98	2142.68	12488.61	7442.00	4528.64	1660.50	-90.59	482.21	305.68	1.58	PASS	
12716.00†	7437.00	4627.97	2142.82	12588.61	7442.00	4628.64	1660.64	-90.59	482.21	311.79	1.55	PASS	
12816.00†	7437.00	4727.97	2142.95	12688.61	7442.00	4728.64	1660.77	-90.59	482.21	317.91	1.52	PASS	
12916.00†	7437.00	4827.97	2143.09	12788.61	7442.00	4828.64	1660.91	-90.59	482.20	324.04	1.49	PASS	
13016.00†	7437.00	4927.97	2143.23	12888.61	7442.00	4928.64	1661.05	-90.59	482.20	330.17	1.46	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 26 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	7437.00	5027.97	2143.36	12988.61	7442.00	5028.64	1661.19	-90.59	482.20	336.32	1.43	PASS	
13216.00†	7437.00	5127.97	2143.50	13088.61	7442.00	5128.64	1661.33	-90.59	482.20	342.47	1.41	PASS	
13316.00†	7437.00	5227.97	2143.64	13188.61	7442.00	5228.64	1661.47	-90.59	482.20	348.63	1.38	PASS	
13416.00†	7437.00	5327.97	2143.77	13288.61	7442.00	5328.64	1661.61	-90.59	482.19	354.79	1.36	PASS	
13516.00†	7437.00	5427.97	2143.91	13388.61	7442.00	5428.64	1661.75	-90.59	482.19	360.96	1.34	PASS	
13616.00†	7437.00	5527.97	2144.05	13488.61	7442.00	5528.64	1661.88	-90.59	482.19	367.14	1.31	PASS	
13716.00†	7437.00	5627.97	2144.18	13588.61	7442.00	5628.64	1662.02	-90.59	482.19	373.32	1.29	PASS	
13816.00†	7437.00	5727.97	2144.32	13688.61	7442.00	5728.64	1662.16	-90.59	482.19	379.51	1.27	PASS	
13916.00†	7437.00	5827.97	2144.46	13788.61	7442.00	5828.64	1662.30	-90.59	482.18	385.70	1.25	PASS	
14016.00†	7437.00	5927.97	2144.60	13888.61	7442.00	5928.64	1662.44	-90.59	482.18	391.90	1.23	PASS	
14116.00†	7437.00	6027.97	2144.73	13988.61	7442.00	6028.64	1662.58	-90.59	482.18	398.11	1.21	PASS	
14216.00†	7437.00	6127.97	2144.87	14088.61	7442.00	6128.64	1662.72	-90.59	482.18	404.31	1.19	PASS	
14316.00†	7437.00	6227.97	2145.01	14188.61	7442.00	6228.64	1662.86	-90.59	482.18	410.53	1.17	PASS	
14416.00†	7437.00	6327.97	2145.14	14288.61	7442.00	6328.64	1662.99	-90.59	482.17	416.74	1.16	PASS	
14516.00†	7437.00	6427.97	2145.28	14388.61	7442.00	6428.64	1663.13	-90.59	482.17	422.96	1.14	PASS	
14616.00†	7437.00	6527.97	2145.42	14488.61	7442.00	6528.64	1663.27	-90.59	482.17	429.19	1.12	PASS	
14716.00†	7437.00	6627.97	2145.55	14588.61	7442.00	6628.64	1663.41	-90.59	482.17	435.41	1.11	PASS	
14816.00†	7437.00	6727.97	2145.69	14688.61	7442.00	6728.64	1663.55	-90.59	482.17	441.64	1.09	PASS	
14916.00†	7437.00	6827.97	2145.83	14788.61	7442.00	6828.64	1663.69	-90.59	482.16	447.88	1.08	PASS	
15016.00†	7437.00	6927.97	2145.96	14888.61	7442.00	6928.64	1663.83	-90.59	482.16	454.12	1.06	PASS	
15116.00†	7437.00	7027.97	2146.10	14988.61	7442.00	7028.64	1663.97	-90.59	482.16	460.36	1.05	PASS	
15216.00†	7437.00	7127.97	2146.24	15088.61	7442.00	7128.64	1664.10	-90.59	482.16	466.60	1.03	PASS	
15316.00†	7437.00	7227.97	2146.37	15188.61	7442.00	7228.64	1664.24	-90.59	482.16	472.85	1.02	PASS	
15416.00†	7437.00	7327.97	2146.51	15288.61	7442.00	7328.64	1664.38	-90.59	482.16	479.10	1.01	PASS	
15516.00†	7437.00	7427.97	2146.65	15388.61	7442.00	7428.64	1664.52	-90.59	482.15	485.35	0.99	FAIL	
15616.00†	7437.00	7527.97	2146.78	15488.61	7442.00	7528.64	1664.66	-90.59	482.15	491.60	0.98	FAIL	
15716.00†	7437.00	7627.97	2146.92	15588.61	7442.00	7628.64	1664.80	-90.59	482.15	497.86	0.97	FAIL	
15816.00†	7437.00	7727.97	2147.06	15688.61	7442.00	7728.64	1664.94	-90.59	482.15	504.12	0.96	FAIL	
15916.00†	7437.00	7827.97	2147.19	15788.61	7442.00	7828.64	1665.08	-90.59	482.15	510.38	0.94	FAIL	
16016.00†	7437.00	7927.97	2147.33	15888.61	7442.00	7928.64	1665.21	-90.59	482.14	516.64	0.93	FAIL	
16116.00†	7437.00	8027.97	2147.47	15988.61	7442.00	8028.64	1665.35	-90.59	482.14	522.90	0.92	FAIL	
16216.00†	7437.00	8127.97	2147.60	16088.61	7442.00	8128.64	1665.49	-90.59	482.14	529.18	0.91	FAIL	
16316.00†	7437.00	8227.97	2147.74	16188.61	7442.00	8228.64	1665.63	-90.59	482.14	535.44	0.90	FAIL	
16416.00†	7437.00	8327.97	2147.88	16288.61	7442.00	8328.64	1665.77	-90.59	482.14	541.72	0.89	FAIL	
16516.00†	7437.00	8427.97	2148.02	16388.61	7442.00	8428.64	1665.91	-90.59	482.13	547.99	0.88	FAIL	
16616.00†	7437.00	8527.97	2148.15	16488.61	7442.00	8528.64	1666.05	-90.59	482.13	554.26	0.87	FAIL	
16716.00†	7437.00	8627.97	2148.29	16588.61	7442.00	8628.64	1666.19	-90.59	482.13	560.54	0.86	FAIL	
16816.00†	7437.00	8727.97	2148.43	16688.61	7442.00	8728.64	1666.32	-90.59	482.13	566.82	0.85	FAIL	
16916.00†	7437.00	8827.97	2148.56	16788.61	7442.00	8828.64	1666.46	-90.59	482.13	573.10	0.84	FAIL	
17016.00†	7437.00	8927.97	2148.70	16888.61	7442.00	8928.64	1666.60	-90.59	482.12	579.38	0.83	FAIL	
17116.00†	7437.00	9027.97	2148.84	16988.61	7442.00	9028.64	1666.74	-90.59	482.12	585.66	0.82	FAIL	
17216.00†	7437.00	9127.97	2148.97	17088.61	7442.00	9128.64	1666.88	-90.59	482.12	591.94	0.81	FAIL	
17316.00†	7437.00	9227.97	2149.11	17188.61	7442.00	9228.64	1667.02	-90.59	482.12	598.23	0.81	FAIL	
17416.00†	7437.00	9327.97	2149.25	17288.61	7442.00	9328.64	1667.16	-90.59	482.12	604.52	0.80	FAIL	
17516.00†	7437.00	9427.97	2149.38	17388.61	7442.00	9428.64	1667.30	-90.59	482.11	610.80	0.79	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 27 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	7437.00	9527.97	2149.52	17488.61	7442.00	9528.64	1667.43	-90.59	482.11	617.09	0.78	FAIL
17716.00†	7437.00	9627.97	2149.66	17588.61	7442.00	9628.64	1667.57	-90.59	482.11	623.38	0.77	FAIL
17788.29†	7437.00	9700.26	2149.76	17660.90	7442.00	9700.93	1667.67	-90.59	482.11	627.93	0.77	FAIL
17789.00	7437.00	9700.97	2149.76	17660.90	7442.00	9700.93	1667.67	-90.59	482.11	627.79	0.77	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

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

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	-17.09	0.00	-17.09
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	-17.09	0.00	-17.09
8.5in Open Hole	882.00	17661.00	16779.00	882.00	N/A	0.00	-17.09	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 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 28 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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	-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	47.20	PASS
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-44.86	-90.00	44.86	2.47	29.14	PASS
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-44.86	-90.00	44.86	3.08	20.78	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	6.25	7.96	PASS
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	-44.86	-90.00	44.86	6.40	7.76	PASS
1116.00†	1116.00	0.00	0.00	1116.00	1116.00	0.00	-44.86	-90.00	44.86	6.72	7.35	PASS
1125.00	1125.00	0.00	0.00	1125.00	1125.00	0.00	-44.86	-90.00	44.86	6.76	7.30	PASS
1216.00†	1215.97	-0.55	2.10	1215.97	1215.97	0.00	-44.86	165.87	46.96	7.36	6.95	PASS
1316.00†	1315.68	-2.44	9.23	1316.80	1316.79	-0.17	-44.44	167.60	53.72	8.64	6.68	PASS
1416.00†	1414.88	-5.65	21.39	1419.43	1419.30	-1.98	-39.77	168.64	61.44	10.24	6.37	PASS
1516.00†	1513.27	-10.18	38.56	1522.49	1521.80	-5.80	-29.94	168.92	69.17	12.09	6.01	PASS
1616.00†	1610.61	-16.02	60.69	1625.97	1624.00	-11.65	-14.89	168.66	76.88	13.84	5.80	PASS
1716.00†	1706.61	-23.16	87.71	1729.85	1725.56	-19.53	5.38	168.01	84.56	15.40	5.71	PASS
1801.81	1787.74	-30.29	114.74	1816.58	1809.57	-27.34	25.43	167.41	91.97	16.41	5.81	PASS
1816.00†	1801.04	-31.55	119.50	1830.68	1823.23	-28.62	28.75	167.36	93.47	16.54	5.86	PASS
1916.00†	1894.83	-40.41	153.05	1930.12	1919.49	-37.65	51.99	167.08	104.07	17.34	6.21	PASS
2016.00†	1988.61	-49.27	186.60	2029.56	2015.75	-46.69	75.23	166.85	114.66	18.22	6.51	PASS
2116.00†	2082.40	-58.12	220.16	2128.99	2112.00	-55.73	98.47	166.66	125.26	19.19	6.74	PASS
2216.00†	2176.19	-66.98	253.71	2228.43	2208.26	-64.76	121.71	166.50	135.86	20.14	6.96	PASS
2316.00†	2269.97	-75.84	287.26	2327.86	2304.52	-73.80	144.95	166.36	146.46	21.17	7.12	PASS
2416.00†	2363.76	-84.70	320.81	2427.30	2400.78	-82.83	168.19	166.24	157.06	22.24	7.26	PASS
2516.00†	2457.54	-93.56	354.36	2526.74	2497.04	-91.87	191.43	166.13	167.66	23.35	7.37	PASS
2616.00†	2551.33	-102.41	387.91	2626.17	2593.30	-100.91	214.67	166.04	178.26	24.48	7.47	PASS
2716.00†	2645.12	-111.27	421.46	2725.61	2689.56	-109.94	237.91	165.96	188.86	25.64	7.55	PASS
2816.00†	2738.90	-120.13	455.01	2825.04	2785.82	-118.98	261.15	165.88	199.46	26.82	7.61	PASS
2916.00†	2832.69	-128.99	488.57	2924.48	2882.08	-128.01	284.39	165.82	210.06	28.02	7.66	PASS
3016.00†	2926.48	-137.85	522.12	3023.92	2978.33	-137.05	307.63	165.76	220.66	29.24	7.71	PASS
3116.00†	3020.26	-146.70	555.67	3123.35	3074.59	-146.09	330.88	165.70	231.27	30.47	7.75	PASS
3216.00†	3114.05	-155.56	589.22	3222.79	3170.85	-155.12	354.12	165.66	241.87	31.71	7.78	PASS
3316.00†	3207.83	-164.42	622.77	3322.23	3267.11	-164.16	377.36	165.61	252.47	32.96	7.81	PASS
3416.00†	3301.62	-173.28	656.32	3421.66	3363.37	-173.19	400.60	165.57	263.07	34.23	7.83	PASS
3516.00†	3395.41	-182.14	689.87	3521.10	3459.63	-182.23	423.84	165.53	273.68	35.50	7.85	PASS
3616.00†	3489.19	-190.99	723.42	3620.53	3555.89	-191.26	447.08	165.49	284.28	36.78	7.86	PASS
3716.00†	3582.98	-199.85	756.97	3719.97	3652.15	-200.30	470.32	165.46	294.88	38.07	7.87	PASS
3816.00†	3676.77	-208.71	790.53	3819.41	3748.41	-209.34	493.56	165.43	305.49	39.36	7.89	PASS
3916.00†	3770.55	-217.57	824.08	3918.84	3844.66	-218.37	516.80	165.40	316.09	40.66	7.89	PASS
4016.00†	3864.34	-226.43	857.63	4018.28	3940.92	-227.41	540.04	165.38	326.69	41.96	7.90	PASS
4116.00†	3958.12	-235.29	891.18	4117.71	4037.18	-236.44	563.28	165.35	337.29	43.27	7.91	PASS
4216.00†	4051.91	-244.14	924.73	4217.15	4133.44	-245.48	586.52	165.33	347.90	44.59	7.91	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 29 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	4145.70	-253.00	958.28	4316.59	4229.70	-254.52	609.76	165.31	358.50	45.90	7.92	PASS	
4416.00†	4239.48	-261.86	991.83	4416.02	4325.96	-263.55	633.00	165.28	369.11	47.22	7.92	PASS	
4516.00†	4333.27	-270.72	1025.38	4515.46	4422.22	-272.59	656.25	165.26	379.71	48.55	7.92	PASS	
4616.00†	4427.06	-279.58	1058.93	4614.90	4518.48	-281.62	679.49	165.25	390.31	49.88	7.92	PASS	
4716.00†	4520.84	-288.43	1092.49	4714.33	4614.74	-290.66	702.73	165.23	400.92	51.21	7.93	PASS	
4816.00†	4614.63	-297.29	1126.04	4813.77	4710.99	-299.70	725.97	165.21	411.52	52.54	7.93	PASS	
4916.00†	4708.41	-306.15	1159.59	4913.20	4807.25	-308.73	749.21	165.20	422.12	53.88	7.93	PASS	
5016.00†	4802.20	-315.01	1193.14	5012.64	4903.51	-317.77	772.45	165.18	432.73	55.21	7.93	PASS	
5116.00†	4895.99	-323.87	1226.69	5112.08	4999.77	-326.80	795.69	165.17	443.33	56.55	7.93	PASS	
5216.00†	4989.77	-332.72	1260.24	5211.51	5096.03	-335.84	818.93	165.15	453.93	57.89	7.93	PASS	
5316.00†	5083.56	-341.58	1293.79	5310.95	5192.29	-344.88	842.17	165.14	464.54	59.24	7.92	PASS	
5416.00†	5177.34	-350.44	1327.34	5410.38	5288.55	-353.91	865.41	165.13	475.14	60.58	7.92	PASS	
5516.00†	5271.13	-359.30	1360.90	5509.82	5384.81	-362.95	888.65	165.12	485.75	61.93	7.92	PASS	
5616.00†	5364.92	-368.16	1394.45	5609.26	5481.07	-371.98	911.89	165.10	496.35	63.28	7.92	PASS	
5716.00†	5458.70	-377.01	1428.00	5708.69	5577.32	-381.02	935.13	165.09	506.95	64.63	7.92	PASS	
5816.00†	5552.49	-385.87	1461.55	5808.13	5673.58	-390.05	958.37	165.08	517.56	65.98	7.92	PASS	
5916.00†	5646.28	-394.73	1495.10	5907.57	5769.84	-399.09	981.62	165.07	528.16	67.33	7.92	PASS	
6016.00†	5740.06	-403.59	1528.65	6007.00	5866.10	-408.13	1004.86	165.06	538.77	68.68	7.92	PASS	
6116.00†	5833.85	-412.45	1562.20	6106.44	5962.36	-417.16	1028.10	165.05	549.37	70.04	7.91	PASS	
6216.00†	5927.63	-421.30	1595.75	6205.87	6058.62	-426.20	1051.34	165.04	559.97	71.39	7.91	PASS	
6316.00†	6021.42	-430.16	1629.30	6305.31	6154.88	-435.23	1074.58	165.04	570.58	72.75	7.91	PASS	
6416.00†	6115.21	-439.02	1662.86	6404.75	6251.14	-444.27	1097.82	165.03	581.18	74.10	7.91	PASS	
6516.00†	6208.99	-447.88	1696.41	6504.18	6347.40	-453.31	1121.06	165.02	591.78	75.46	7.91	PASS	
6616.00†	6302.78	-456.74	1729.96	6603.62	6443.65	-462.34	1144.30	165.01	602.39	76.82	7.91	PASS	
6716.00†	6396.57	-465.59	1763.51	6703.05	6539.91	-471.38	1167.54	165.00	612.99	78.18	7.90	PASS	
6816.00†	6490.35	-474.45	1797.06	6802.49	6636.17	-480.41	1190.78	165.00	623.60	79.54	7.90	PASS	
6916.00†	6584.14	-483.31	1830.61	6901.93	6732.43	-489.45	1214.02	164.99	634.20	80.90	7.90	PASS	
7016.00†	6677.92	-492.17	1864.16	7001.36	6828.69	-498.49	1237.26	164.98	644.80	82.26	7.90	PASS	
7116.00†	6771.71	-501.03	1897.71	7100.80	6924.95	-507.52	1260.50	164.98	655.41	83.63	7.90	PASS	
7199.49	6850.01	-508.42	1925.72	7184.39	7006.08	-510.40	1280.10	165.38	664.22	84.17	7.95	PASS	
7216.00†	6865.51	-509.65	1931.27	7200.73	7021.95	-509.56	1283.93	170.15	665.97	84.37	7.95	PASS	
7316.00†	6959.51	-506.91	1964.91	7298.49	7115.77	-494.84	1306.62	-160.53	676.69	84.65	8.05	PASS	
7416.00†	7051.62	-486.88	1997.91	7394.36	7204.11	-464.70	1328.00	-137.73	687.40	84.36	8.21	PASS	
7516.00†	7139.06	-450.16	2029.25	7488.60	7285.00	-420.72	1347.60	-123.12	697.71	84.59	8.31	PASS	
7616.00†	7219.15	-397.88	2057.98	7581.46	7356.79	-364.62	1365.02	-113.81	707.28	84.47	8.44	PASS	
7716.00†	7289.47	-331.61	2083.24	7673.19	7418.15	-298.22	1379.94	-107.65	715.75	84.42	8.54	PASS	
7816.00†	7347.89	-253.37	2104.25	7764.03	7468.00	-223.38	1392.09	-103.48	722.84	84.50	8.62	PASS	
7916.00†	7392.62	-165.54	2120.38	7854.19	7505.51	-142.01	1401.26	-100.71	728.30	84.74	8.66	PASS	
8016.00†	7422.30	-70.79	2131.13	7943.88	7530.06	-56.05	1407.31	-99.03	731.94	85.18	8.66	PASS	
8116.00†	7436.05	28.00	2136.18	8033.30	7541.26	32.52	1410.14	-98.28	733.64	85.83	8.61	PASS	
8150.04	7437.00	62.02	2136.57	8063.82	7542.00	63.04	1410.36	-98.23	733.76	86.06	8.59	PASS	
8216.00†	7437.00	127.98	2136.66	8129.78	7542.00	128.99	1410.45	-98.23	733.76	86.65	8.53	PASS	
8316.00†	7437.00	227.98	2136.80	8229.78	7542.00	228.99	1410.59	-98.23	733.76	87.99	8.40	PASS	
8416.00†	7437.00	327.98	2136.93	8329.78	7542.00	328.99	1410.73	-98.23	733.75	89.81	8.23	PASS	
8516.00†	7437.00	427.98	2137.07	8429.78	7542.00	428.99	1410.87	-98.23	733.75	91.76	8.05	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 30 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NCH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
8616.00†	7437.00	527.98	2137.21	8529.78	7542.00	528.99	1411.01	-98.23	733.75	94.62	7.81	PASS	
8716.00†	7437.00	627.98	2137.35	8629.78	7542.00	628.99	1411.15	-98.23	733.74	97.55	7.57	PASS	
8816.00†	7437.00	727.98	2137.48	8729.78	7542.00	728.99	1411.29	-98.23	733.74	100.79	7.32	PASS	
8916.00†	7437.00	827.98	2137.62	8829.78	7542.00	828.99	1411.43	-98.23	733.74	104.31	7.08	PASS	
9016.00†	7437.00	927.98	2137.76	8929.78	7542.00	928.99	1411.57	-98.23	733.74	108.09	6.83	PASS	
9116.00†	7437.00	1027.98	2137.89	9029.78	7542.00	1028.99	1411.71	-98.23	733.73	112.09	6.58	PASS	
9216.00†	7437.00	1127.98	2138.03	9129.78	7542.00	1128.99	1411.85	-98.23	733.73	116.30	6.34	PASS	
9316.00†	7437.00	1227.98	2138.17	9229.78	7542.00	1228.99	1411.99	-98.23	733.73	120.69	6.11	PASS	
9416.00†	7437.00	1327.98	2138.30	9329.78	7542.00	1328.99	1412.13	-98.23	733.72	125.24	5.89	PASS	
9516.00†	7437.00	1427.98	2138.44	9429.78	7542.00	1428.99	1412.27	-98.23	733.72	129.94	5.67	PASS	
9616.00†	7437.00	1527.98	2138.58	9529.78	7542.00	1528.99	1412.41	-98.23	733.72	134.77	5.47	PASS	
9716.00†	7437.00	1627.98	2138.71	9629.78	7542.00	1628.99	1412.55	-98.23	733.71	139.72	5.27	PASS	
9816.00†	7437.00	1727.98	2138.85	9729.78	7542.00	1728.99	1412.69	-98.23	733.71	144.77	5.09	PASS	
9916.00†	7437.00	1827.98	2138.99	9829.78	7542.00	1828.99	1412.83	-98.23	733.71	149.92	4.91	PASS	
10016.00†	7437.00	1927.98	2139.12	9929.78	7542.00	1928.99	1412.97	-98.23	733.71	155.15	4.75	PASS	
10116.00†	7437.00	2027.98	2139.26	10029.78	7542.00	2028.99	1413.11	-98.23	733.70	160.46	4.59	PASS	
10216.00†	7437.00	2127.98	2139.40	10129.78	7542.00	2128.99	1413.25	-98.23	733.70	165.84	4.44	PASS	
10316.00†	7437.00	2227.98	2139.53	10229.78	7542.00	2228.99	1413.39	-98.23	733.70	171.28	4.30	PASS	
10416.00†	7437.00	2327.98	2139.67	10329.78	7542.00	2328.99	1413.53	-98.23	733.69	176.78	4.16	PASS	
10516.00†	7437.00	2427.98	2139.81	10429.78	7542.00	2428.99	1413.67	-98.23	733.69	182.32	4.04	PASS	
10616.00†	7437.00	2527.98	2139.94	10529.78	7542.00	2528.99	1413.81	-98.23	733.69	187.92	3.92	PASS	
10716.00†	7437.00	2627.98	2140.08	10629.78	7542.00	2628.99	1413.95	-98.23	733.68	193.56	3.80	PASS	
10816.00†	7437.00	2727.98	2140.22	10729.78	7542.00	2728.99	1414.09	-98.23	733.68	199.24	3.69	PASS	
10916.00†	7437.00	2827.98	2140.35	10829.78	7542.00	2828.99	1414.23	-98.23	733.68	204.95	3.59	PASS	
11016.00†	7437.00	2927.98	2140.49	10929.78	7542.00	2928.99	1414.37	-98.23	733.68	210.70	3.49	PASS	
11116.00†	7437.00	3027.98	2140.63	11029.78	7542.00	3028.99	1414.51	-98.23	733.67	216.48	3.40	PASS	
11216.00†	7437.00	3127.98	2140.77	11129.78	7542.00	3128.99	1414.65	-98.23	733.67	222.28	3.31	PASS	
11316.00†	7437.00	3227.98	2140.90	11229.78	7542.00	3228.99	1414.79	-98.23	733.67	228.12	3.22	PASS	
11416.00†	7437.00	3327.98	2141.04	11329.78	7542.00	3328.99	1414.93	-98.23	733.66	233.97	3.14	PASS	
11516.00†	7437.00	3427.98	2141.18	11429.78	7542.00	3428.99	1415.07	-98.23	733.66	239.85	3.06	PASS	
11616.00†	7437.00	3527.98	2141.31	11529.78	7542.00	3528.99	1415.21	-98.23	733.66	245.75	2.99	PASS	
11716.00†	7437.00	3627.98	2141.45	11629.78	7542.00	3628.99	1415.35	-98.23	733.66	251.67	2.92	PASS	
11816.00†	7437.00	3727.98	2141.59	11729.78	7542.00	3728.99	1415.49	-98.23	733.65	257.60	2.85	PASS	
11916.00†	7437.00	3827.98	2141.72	11829.78	7542.00	3828.99	1415.63	-98.23	733.65	263.55	2.79	PASS	
12016.00†	7437.00	3927.98	2141.86	11929.78	7542.00	3928.99	1415.77	-98.23	733.65	269.52	2.73	PASS	
12116.00†	7437.00	4027.98	2142.00	12029.78	7542.00	4028.99	1415.91	-98.23	733.64	275.50	2.67	PASS	
12216.00†	7437.00	4127.98	2142.13	12129.78	7542.00	4128.99	1416.05	-98.23	733.64	281.50	2.61	PASS	
12316.00†	7437.00	4227.98	2142.27	12229.78	7542.00	4228.99	1416.19	-98.23	733.64	287.51	2.56	PASS	
12416.00†	7437.00	4327.98	2142.41	12329.78	7542.00	4328.99	1416.33	-98.23	733.63	293.53	2.50	PASS	
12516.00†	7437.00	4427.98	2142.54	12429.78	7542.00	4428.99	1416.47	-98.23	733.63	299.56	2.45	PASS	
12616.00†	7437.00	4527.98	2142.68	12529.78	7542.00	4528.99	1416.60	-98.23	733.63	305.61	2.40	PASS	
12716.00†	7437.00	4627.97	2142.82	12629.78	7542.00	4628.99	1416.74	-98.23	733.63	311.66	2.36	PASS	
12816.00†	7437.00	4727.97	2142.95	12729.78	7542.00	4728.99	1416.88	-98.23	733.62	317.72	2.31	PASS	
12916.00†	7437.00	4827.97	2143.09	12829.78	7542.00	4828.99	1417.02	-98.23	733.62	323.79	2.27	PASS	
13016.00†	7437.00	4927.97	2143.23	12929.78	7542.00	4928.99	1417.16	-98.23	733.62	329.87	2.23	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 31 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NCH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
13116.00†	7437.00	5027.97	2143.36	13029.78	7542.00	5028.99	1417.30	-98.23	733.61	335.96	2.19	PASS	
13216.00†	7437.00	5127.97	2143.50	13129.78	7542.00	5128.99	1417.44	-98.23	733.61	342.05	2.15	PASS	
13316.00†	7437.00	5227.97	2143.64	13229.78	7542.00	5228.99	1417.58	-98.23	733.61	348.15	2.11	PASS	
13416.00†	7437.00	5327.97	2143.77	13329.78	7542.00	5328.99	1417.72	-98.23	733.61	354.26	2.07	PASS	
13516.00†	7437.00	5427.97	2143.91	13429.78	7542.00	5428.99	1417.86	-98.23	733.60	360.38	2.04	PASS	
13616.00†	7437.00	5527.97	2144.05	13529.78	7542.00	5528.99	1418.00	-98.23	733.60	366.50	2.00	PASS	
13716.00†	7437.00	5627.97	2144.18	13629.78	7542.00	5628.99	1418.14	-98.23	733.60	372.63	1.97	PASS	
13816.00†	7437.00	5727.97	2144.32	13729.78	7542.00	5728.99	1418.28	-98.23	733.59	378.76	1.94	PASS	
13916.00†	7437.00	5827.97	2144.46	13829.78	7542.00	5828.99	1418.42	-98.23	733.59	384.89	1.91	PASS	
14016.00†	7437.00	5927.97	2144.60	13929.78	7542.00	5928.99	1418.56	-98.23	733.59	391.04	1.88	PASS	
14116.00†	7437.00	6027.97	2144.73	14029.78	7542.00	6028.99	1418.70	-98.23	733.58	397.18	1.85	PASS	
14216.00†	7437.00	6127.97	2144.87	14129.78	7542.00	6128.99	1418.84	-98.23	733.58	403.34	1.82	PASS	
14316.00†	7437.00	6227.97	2145.01	14229.78	7542.00	6228.99	1418.98	-98.23	733.58	409.49	1.79	PASS	
14416.00†	7437.00	6327.97	2145.14	14329.78	7542.00	6328.99	1419.12	-98.23	733.58	415.65	1.77	PASS	
14516.00†	7437.00	6427.97	2145.28	14429.78	7542.00	6428.99	1419.26	-98.23	733.57	421.82	1.74	PASS	
14616.00†	7437.00	6527.97	2145.42	14529.78	7542.00	6528.99	1419.40	-98.23	733.57	427.98	1.72	PASS	
14716.00†	7437.00	6627.97	2145.55	14629.78	7542.00	6628.99	1419.54	-98.23	733.57	434.16	1.69	PASS	
14816.00†	7437.00	6727.97	2145.69	14729.78	7542.00	6728.99	1419.68	-98.23	733.56	440.33	1.67	PASS	
14916.00†	7437.00	6827.97	2145.83	14829.78	7542.00	6828.99	1419.82	-98.23	733.56	446.51	1.64	PASS	
15016.00†	7437.00	6927.97	2145.96	14929.78	7542.00	6928.99	1419.96	-98.23	733.56	452.69	1.62	PASS	
15116.00†	7437.00	7027.97	2146.10	15029.78	7542.00	7028.99	1420.10	-98.23	733.56	458.88	1.60	PASS	
15216.00†	7437.00	7127.97	2146.24	15129.78	7542.00	7128.99	1420.24	-98.23	733.55	465.06	1.58	PASS	
15316.00†	7437.00	7227.97	2146.37	15229.78	7542.00	7228.99	1420.38	-98.23	733.55	471.25	1.56	PASS	
15416.00†	7437.00	7327.97	2146.51	15329.78	7542.00	7328.99	1420.52	-98.23	733.55	477.45	1.54	PASS	
15516.00†	7437.00	7427.97	2146.65	15429.78	7542.00	7428.99	1420.66	-98.23	733.54	483.64	1.52	PASS	
15616.00†	7437.00	7527.97	2146.78	15529.78	7542.00	7528.99	1420.80	-98.23	733.54	489.84	1.50	PASS	
15716.00†	7437.00	7627.97	2146.92	15629.78	7542.00	7628.99	1420.94	-98.23	733.54	496.04	1.48	PASS	
15816.00†	7437.00	7727.97	2147.06	15729.78	7542.00	7728.99	1421.08	-98.23	733.53	502.24	1.46	PASS	
15916.00†	7437.00	7827.97	2147.19	15829.78	7542.00	7828.99	1421.22	-98.23	733.53	508.45	1.44	PASS	
16016.00†	7437.00	7927.97	2147.33	15929.78	7542.00	7928.99	1421.36	-98.23	733.53	514.66	1.43	PASS	
16116.00†	7437.00	8027.97	2147.47	16029.78	7542.00	8028.99	1421.50	-98.23	733.53	520.87	1.41	PASS	
16216.00†	7437.00	8127.97	2147.60	16129.78	7542.00	8128.99	1421.64	-98.23	733.52	527.08	1.39	PASS	
16316.00†	7437.00	8227.97	2147.74	16229.78	7542.00	8228.99	1421.78	-98.23	733.52	533.29	1.38	PASS	
16416.00†	7437.00	8327.97	2147.88	16329.78	7542.00	8328.99	1421.92	-98.23	733.52	539.51	1.36	PASS	
16516.00†	7437.00	8427.97	2148.02	16429.78	7542.00	8428.99	1422.06	-98.23	733.51	545.72	1.34	PASS	
16616.00†	7437.00	8527.97	2148.15	16529.78	7542.00	8528.99	1422.20	-98.23	733.51	551.94	1.33	PASS	
16716.00†	7437.00	8627.97	2148.29	16629.78	7542.00	8628.99	1422.34	-98.23	733.51	558.16	1.31	PASS	
16816.00†	7437.00	8727.97	2148.43	16729.78	7542.00	8728.99	1422.48	-98.23	733.51	564.38	1.30	PASS	
16916.00†	7437.00	8827.97	2148.56	16829.78	7542.00	8828.99	1422.62	-98.23	733.50	570.61	1.29	PASS	
17016.00†	7437.00	8927.97	2148.70	16929.78	7542.00	8928.99	1422.75	-98.23	733.50	576.83	1.27	PASS	
17116.00†	7437.00	9027.97	2148.84	17029.78	7542.00	9028.99	1422.89	-98.23	733.50	583.06	1.26	PASS	
17216.00†	7437.00	9127.97	2148.97	17129.78	7542.00	9128.99	1423.03	-98.23	733.49	589.29	1.25	PASS	
17316.00†	7437.00	9227.97	2149.11	17229.78	7542.00	9228.99	1423.17	-98.23	733.49	595.52	1.23	PASS	
17416.00†	7437.00	9327.97	2149.25	17329.78	7542.00	9328.99	1423.31	-98.23	733.49	601.75	1.22	PASS	
17516.00†	7437.00	9427.97	2149.38	17429.78	7542.00	9428.99	1423.45	-98.23	733.48	607.98	1.21	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 32 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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	
17616.00†	7437.00	9527.97	2149.52	17529.78	7542.00	9528.98	1423.59	-98.23	733.48	614.21	1.19	PASS	
17716.00†	7437.00	9627.97	2149.66	17629.78	7542.00	9628.98	1423.73	-98.23	733.48	620.45	1.18	PASS	
17784.29†	7437.00	9696.26	2149.75	17698.07	7542.00	9697.27	1423.83	-98.23	733.48	624.70	1.17	PASS	
17789.00	7437.00	9700.97	2149.76	17698.07	7542.00	9697.27	1423.83	-98.23	733.49	624.18	1.18	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	-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	17698.07	16816.07	882.00	7542.00	0.00	-27.35	2955.73	420.31

## 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 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 33 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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	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	47.16	PASS	
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	44.86	90.00	44.86	2.47	29.11	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	16.07	PASS	
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	44.86	90.00	44.86	4.32	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	11.04	PASS	
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	44.86	90.00	44.86	5.56	9.54	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	1015.07	1015.07	-0.08	45.27	90.10	45.28	6.41	7.82	PASS	
1116.00†	1116.00	0.00	0.00	1112.59	1112.47	-0.96	49.72	91.11	49.86	7.08	7.72	PASS	
1125.00†	1125.00	0.00	0.00	1121.33	1121.19	-1.09	50.36	91.24	50.52	7.17	7.71	PASS	
1216.00†	1215.97	-0.55	2.10	1209.61	1209.02	-2.79	58.98	-12.48	57.35	8.51	7.26	PASS	
1316.00†	1315.68	-2.44	9.23	1306.28	1304.62	-5.55	72.98	-11.84	64.78	10.42	6.80	PASS	
1416.00†	1414.88	-5.65	21.39	1402.59	1399.03	-9.24	91.63	-11.60	72.09	12.10	6.27	PASS	
1516.00†	1513.27	-10.18	38.56	1498.57	1492.04	-13.82	114.83	-11.64	79.25	13.67	6.06	PASS	
1616.00†	1610.61	-16.02	60.69	1594.22	1583.43	-19.28	142.48	-11.89	86.25	15.14	5.93	PASS	
1716.00†	1706.61	-23.16	87.71	1689.56	1673.00	-25.60	174.48	-12.30	93.08	16.54	5.83	PASS	
1801.81	1787.74	-30.29	114.74	1771.13	1748.27	-31.69	205.31	-12.76	98.80	17.63	5.80	PASS	
1816.00†	1801.04	-31.55	119.50	1784.59	1760.56	-32.76	210.70	-12.84	99.78	17.78	5.80	PASS	
1916.00†	1894.83	-40.41	153.05	1883.84	1850.85	-40.74	251.13	-13.33	107.49	18.66	5.95	PASS	
2016.00†	1988.61	-49.27	186.60	1983.54	1941.53	-48.77	291.77	-13.76	115.23	19.51	6.09	PASS	
2116.00†	2082.40	-58.12	220.16	2083.23	2032.21	-56.80	332.41	-14.13	122.97	20.49	6.18	PASS	
2216.00†	2176.19	-66.98	253.71	2182.93	2122.90	-64.83	373.05	-14.46	130.71	21.53	6.24	PASS	
2316.00†	2269.97	-75.84	287.26	2282.63	2213.58	-72.85	413.68	-14.76	138.46	22.64	6.28	PASS	
2416.00†	2363.76	-84.70	320.81	2382.32	2304.27	-80.88	454.32	-15.02	146.22	23.80	6.30	PASS	
2516.00†	2457.54	-93.56	354.36	2482.02	2394.95	-88.91	494.96	-15.25	153.97	25.01	6.31	PASS	
2616.00†	2551.33	-102.41	387.91	2581.72	2485.63	-96.93	535.60	-15.47	161.73	26.26	6.30	PASS	
2716.00†	2645.12	-111.27	421.46	2681.41	2576.32	-104.96	576.23	-15.66	169.49	27.54	6.29	PASS	
2816.00†	2738.90	-120.13	455.01	2781.11	2667.00	-112.99	616.87	-15.84	177.25	28.85	6.27	PASS	
2916.00†	2832.69	-128.99	488.57	2880.81	2757.69	-121.02	657.51	-16.00	185.02	30.19	6.25	PASS	
3016.00†	2926.48	-137.85	522.12	2980.50	2848.37	-129.04	698.15	-16.15	192.78	31.55	6.23	PASS	
3116.00†	3020.26	-146.70	555.67	3080.20	2939.06	-137.07	738.78	-16.28	200.55	32.94	6.20	PASS	
3216.00†	3114.05	-155.56	589.22	3179.90	3029.74	-145.10	779.42	-16.41	208.31	34.34	6.17	PASS	
3316.00†	3207.83	-164.42	622.77	3279.60	3120.42	-153.12	820.06	-16.53	216.08	35.75	6.15	PASS	
3416.00†	3301.62	-173.28	656.32	3379.29	3211.11	-161.15	860.70	-16.64	223.85	37.19	6.12	PASS	
3516.00†	3395.41	-182.14	689.87	3478.99	3301.79	-169.18	901.34	-16.74	231.62	38.63	6.09	PASS	
3616.00†	3489.19	-190.99	723.42	3578.69	3392.48	-177.20	941.97	-16.84	239.39	40.08	6.06	PASS	
3716.00†	3582.98	-199.85	756.97	3678.38	3483.16	-185.23	982.61	-16.93	247.16	41.55	6.03	PASS	
3816.00†	3676.77	-208.71	790.53	3778.08	3573.85	-193.26	1023.25	-17.01	254.93	43.02	6.01	PASS	
3916.00†	3770.55	-217.57	824.08	3877.78	3664.53	-201.29	1063.89	-17.09	262.71	44.51	5.98	PASS	
4016.00†	3864.34	-226.43	857.63	3977.47	3755.21	-209.31	1104.52	-17.16	270.48	46.00	5.96	PASS	
4116.00†	3958.12	-235.29	891.18	4077.17	3845.90	-217.34	1145.16	-17.23	278.25	47.49	5.93	PASS	
4216.00†	4051.91	-244.14	924.73	4176.87	3936.58	-225.37	1185.80	-17.30	286.02	49.00	5.91	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 34 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	4145.70	-253.00	958.28	4276.56	4027.27	-233.39	1226.44	-17.36	293.80	50.51	5.89	PASS	
4416.00†	4239.48	-261.86	991.83	4376.26	4117.95	-241.42	1267.07	-17.42	301.57	52.02	5.86	PASS	
4516.00†	4333.27	-270.72	1025.38	4475.96	4208.63	-249.45	1307.71	-17.48	309.35	53.54	5.84	PASS	
4616.00†	4427.06	-279.58	1058.93	4575.65	4299.32	-257.48	1348.35	-17.53	317.12	55.06	5.82	PASS	
4716.00†	4520.84	-288.43	1092.49	4675.35	4390.00	-265.50	1388.99	-17.59	324.90	56.59	5.80	PASS	
4816.00†	4614.63	-297.29	1126.04	4775.05	4480.69	-273.53	1429.62	-17.63	332.67	58.12	5.78	PASS	
4916.00†	4708.41	-306.15	1159.59	4874.75	4571.37	-281.56	1470.26	-17.68	340.45	59.66	5.76	PASS	
5016.00†	4802.20	-315.01	1193.14	4974.44	4662.06	-289.58	1510.90	-17.73	348.22	61.19	5.75	PASS	
5116.00†	4895.99	-323.87	1226.69	5074.14	4752.74	-297.61	1551.54	-17.77	356.00	62.73	5.73	PASS	
5216.00†	4989.77	-332.72	1260.24	5173.84	4843.42	-305.64	1592.17	-17.81	363.77	64.28	5.71	PASS	
5316.00†	5083.56	-341.58	1293.79	5273.53	4934.11	-313.67	1632.81	-17.85	371.55	65.82	5.70	PASS	
5416.00†	5177.34	-350.44	1327.34	5373.23	5024.79	-321.69	1673.45	-17.89	379.33	67.37	5.68	PASS	
5516.00†	5271.13	-359.30	1360.90	5472.93	5115.48	-329.72	1714.09	-17.92	387.10	68.92	5.66	PASS	
5616.00†	5364.92	-368.16	1394.45	5572.62	5206.16	-337.75	1754.72	-17.96	394.88	70.47	5.65	PASS	
5716.00†	5458.70	-377.01	1428.00	5672.32	5296.84	-345.77	1795.36	-17.99	402.66	72.03	5.64	PASS	
5816.00†	5552.49	-385.87	1461.55	5772.02	5387.53	-353.80	1836.00	-18.02	410.43	73.58	5.62	PASS	
5916.00†	5646.28	-394.73	1495.10	5871.71	5478.21	-361.83	1876.64	-18.05	418.21	75.14	5.61	PASS	
6016.00†	5740.06	-403.59	1528.65	5971.41	5568.90	-369.85	1917.28	-18.08	425.99	76.70	5.60	PASS	
6116.00†	5833.85	-412.45	1562.20	6071.11	5659.58	-377.88	1957.91	-18.11	433.76	78.26	5.58	PASS	
6216.00†	5927.63	-421.30	1595.75	6170.80	5750.27	-385.91	1998.55	-18.14	441.54	79.83	5.57	PASS	
6316.00†	6021.42	-430.16	1629.30	6270.50	5840.95	-393.94	2039.19	-18.17	449.32	81.39	5.56	PASS	
6416.00†	6115.21	-439.02	1662.86	6370.20	5931.63	-401.96	2079.83	-18.19	457.10	82.95	5.55	PASS	
6516.00†	6208.99	-447.88	1696.41	6469.90	6022.32	-409.99	2120.46	-18.22	464.87	84.52	5.54	PASS	
6616.00†	6302.78	-456.74	1729.96	6569.59	6113.00	-418.02	2161.10	-18.24	472.65	86.09	5.53	PASS	
6716.00†	6396.57	-465.59	1763.51	6669.29	6203.69	-426.04	2201.74	-18.26	480.43	87.66	5.52	PASS	
6816.00†	6490.35	-474.45	1797.06	6768.99	6294.37	-434.07	2242.38	-18.29	488.21	89.23	5.51	PASS	
6916.00†	6584.14	-483.31	1830.61	6868.68	6385.05	-442.10	2283.01	-18.31	495.98	90.80	5.50	PASS	
7016.00†	6677.92	-492.17	1864.16	6968.38	6475.74	-450.13	2323.65	-18.33	503.76	92.37	5.49	PASS	
7116.00†	6771.71	-501.03	1897.71	7068.08	6566.42	-458.15	2364.29	-18.35	511.54	93.94	5.48	PASS	
7199.49	6850.01	-508.42	1925.72	7151.31	6642.13	-464.85	2398.22	-18.37	518.03	95.26	5.47	PASS	
7216.00†	6865.51	-509.65	1931.27	7167.77	6657.11	-466.18	2404.93	-14.06	519.30	95.48	5.47	PASS	
7316.00†	6959.51	-506.91	1964.91	7266.77	6747.15	-474.15	2445.28	13.69	526.23	95.23	5.56	PASS	
7416.00†	7051.62	-486.88	1997.91	7362.39	6834.13	-481.85	2484.25	36.75	532.79	92.77	5.78	PASS	
7516.00†	7139.06	-450.16	2029.25	7451.73	6915.40	-489.04	2520.67	52.86	541.33	89.62	6.08	PASS	
7616.00†	7219.15	-397.88	2057.98	7532.09	6988.49	-495.51	2553.43	64.06	555.16	88.51	6.31	PASS	
7716.00†	7289.47	-331.61	2083.24	7601.01	7051.18	-501.06	2581.52	71.53	577.74	92.24	6.30	PASS	
7816.00†	7347.89	-253.37	2104.25	7656.41	7101.57	-505.52	2604.10	75.57	611.64	101.48	6.06	PASS	
7916.00†	7392.62	-165.54	2120.38	7697.88	7139.29	-508.86	2621.00	76.08	657.77	114.19	5.79	PASS	
8016.00†	7422.30	-70.79	2131.13	7801.10	7233.35	-507.50	2663.16	80.09	713.78	127.52	5.62	PASS	
8116.00†	7436.05	28.00	2136.18	8132.55	7508.86	-382.47	2786.83	98.19	772.74	120.49	6.45	PASS	
8150.04	7437.00	62.02	2136.57	8621.03	7701.66	41.51	2873.82	109.75	783.58	80.79	9.78	PASS	
8216.00†	7437.00	127.98	2136.66	8706.52	7702.00	126.99	2874.08	109.77	783.59	81.05	9.74	PASS	
8316.00†	7437.00	227.98	2136.80	8806.52	7702.00	226.99	2874.22	109.77	783.59	81.80	9.65	PASS	
8416.00†	7437.00	327.98	2136.93	8906.52	7702.00	326.99	2874.35	109.77	783.59	83.04	9.51	PASS	
8516.00†	7437.00	427.98	2137.07	9006.52	7702.00	426.99	2874.48	109.77	783.58	84.69	9.32	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 35 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	7437.00	527.98	2137.21	9106.52	7702.00	526.99	2874.62	109.77	783.58	86.74	9.10	PASS	
8716.00†	7437.00	627.98	2137.35	9206.52	7702.00	626.99	2874.75	109.77	783.58	89.27	8.84	PASS	
8816.00†	7437.00	727.98	2137.48	9306.52	7702.00	726.99	2874.89	109.77	783.58	91.89	8.59	PASS	
8916.00†	7437.00	827.98	2137.62	9406.52	7702.00	826.99	2875.02	109.77	783.57	94.94	8.31	PASS	
9016.00†	7437.00	927.98	2137.76	9506.52	7702.00	926.99	2875.15	109.77	783.57	98.27	8.02	PASS	
9116.00†	7437.00	1027.98	2137.89	9606.52	7702.00	1026.99	2875.29	109.77	783.57	101.85	7.74	PASS	
9216.00†	7437.00	1127.98	2138.03	9706.52	7702.00	1126.99	2875.42	109.77	783.56	105.65	7.46	PASS	
9316.00†	7437.00	1227.98	2138.17	9806.52	7702.00	1226.99	2875.55	109.77	783.56	109.66	7.19	PASS	
9416.00†	7437.00	1327.98	2138.30	9906.52	7702.00	1326.99	2875.69	109.77	783.56	113.84	6.92	PASS	
9516.00†	7437.00	1427.98	2138.44	10006.52	7702.00	1426.99	2875.82	109.77	783.56	118.19	6.66	PASS	
9616.00†	7437.00	1527.98	2138.58	10106.52	7702.00	1526.99	2875.96	109.77	783.55	122.67	6.42	PASS	
9716.00†	7437.00	1627.98	2138.71	10206.52	7702.00	1626.99	2876.09	109.77	783.55	127.29	6.18	PASS	
9816.00†	7437.00	1727.98	2138.85	10306.52	7702.00	1726.99	2876.22	109.77	783.55	132.02	5.96	PASS	
9916.00†	7437.00	1827.98	2138.99	10406.52	7702.00	1826.99	2876.36	109.77	783.54	136.85	5.75	PASS	
10016.00†	7437.00	1927.98	2139.12	10506.52	7702.00	1926.99	2876.49	109.77	783.54	141.77	5.55	PASS	
10116.00†	7437.00	2027.98	2139.26	10606.52	7702.00	2026.99	2876.62	109.77	783.54	146.78	5.36	PASS	
10216.00†	7437.00	2127.98	2139.40	10706.52	7702.00	2126.99	2876.76	109.77	783.54	151.86	5.18	PASS	
10316.00†	7437.00	2227.98	2139.53	10806.52	7702.00	2226.99	2876.89	109.77	783.53	157.01	5.01	PASS	
10416.00†	7437.00	2327.98	2139.67	10906.52	7702.00	2326.99	2877.03	109.77	783.53	162.22	4.85	PASS	
10516.00†	7437.00	2427.98	2139.81	11006.52	7702.00	2426.99	2877.16	109.77	783.53	167.49	4.69	PASS	
10616.00†	7437.00	2527.98	2139.94	11106.52	7702.00	2526.99	2877.29	109.77	783.52	172.80	4.55	PASS	
10716.00†	7437.00	2627.98	2140.08	11206.52	7702.00	2626.99	2877.43	109.77	783.52	178.16	4.41	PASS	
10816.00†	7437.00	2727.98	2140.22	11306.52	7702.00	2726.99	2877.56	109.77	783.52	183.56	4.28	PASS	
10916.00†	7437.00	2827.98	2140.35	11406.52	7702.00	2826.99	2877.70	109.77	783.52	189.00	4.16	PASS	
11016.00†	7437.00	2927.98	2140.49	11506.52	7702.00	2926.99	2877.83	109.77	783.51	194.48	4.04	PASS	
11116.00†	7437.00	3027.98	2140.63	11606.52	7702.00	3026.99	2877.96	109.77	783.51	199.99	3.93	PASS	
11216.00†	7437.00	3127.98	2140.77	11706.52	7702.00	3126.99	2878.10	109.77	783.51	205.52	3.82	PASS	
11316.00†	7437.00	3227.98	2140.90	11806.52	7702.00	3226.99	2878.23	109.77	783.50	211.08	3.72	PASS	
11416.00†	7437.00	3327.98	2141.04	11906.52	7702.00	3326.99	2878.36	109.77	783.50	216.67	3.62	PASS	
11516.00†	7437.00	3427.98	2141.18	12006.52	7702.00	3426.99	2878.50	109.77	783.50	222.28	3.53	PASS	
11616.00†	7437.00	3527.98	2141.31	12106.52	7702.00	3526.99	2878.63	109.77	783.50	227.92	3.45	PASS	
11716.00†	7437.00	3627.98	2141.45	12206.52	7702.00	3626.99	2878.77	109.77	783.49	233.57	3.36	PASS	
11816.00†	7437.00	3727.98	2141.59	12306.52	7702.00	3726.99	2878.90	109.77	783.49	239.24	3.28	PASS	
11916.00†	7437.00	3827.98	2141.72	12406.52	7702.00	3826.99	2879.03	109.77	783.49	244.93	3.21	PASS	
12016.00†	7437.00	3927.98	2141.86	12506.52	7702.00	3926.99	2879.17	109.77	783.48	250.63	3.13	PASS	
12116.00†	7437.00	4027.98	2142.00	12606.52	7702.00	4026.99	2879.30	109.77	783.48	256.35	3.06	PASS	
12216.00†	7437.00	4127.98	2142.13	12706.52	7702.00	4126.99	2879.43	109.77	783.48	262.09	2.99	PASS	
12316.00†	7437.00	4227.98	2142.27	12806.52	7702.00	4226.99	2879.57	109.77	783.48	267.83	2.93	PASS	
12416.00†	7437.00	4327.98	2142.41	12906.52	7702.00	4326.99	2879.70	109.77	783.47	273.59	2.87	PASS	
12516.00†	7437.00	4427.98	2142.54	13006.52	7702.00	4426.99	2879.84	109.77	783.47	279.36	2.81	PASS	
12616.00†	7437.00	4527.98	2142.68	13106.52	7702.00	4526.99	2879.97	109.77	783.47	285.14	2.75	PASS	
12716.00†	7437.00	4627.97	2142.82	13206.52	7702.00	4626.99	2880.10	109.77	783.46	290.93	2.70	PASS	
12816.00†	7437.00	4727.97	2142.95	13306.52	7702.00	4726.99	2880.24	109.77	783.46	296.73	2.64	PASS	
12916.00†	7437.00	4827.97	2143.09	13406.52	7702.00	4826.99	2880.37	109.77	783.46	302.54	2.59	PASS	
13016.00†	7437.00	4927.97	2143.23	13506.52	7702.00	4926.99	2880.50	109.77	783.46	308.36	2.54	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 36 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	7437.00	5027.97	2143.36	13606.52	7702.00	5026.99	2880.64	109.77	783.45	314.18	2.50	PASS	
13216.00†	7437.00	5127.97	2143.50	13706.52	7702.00	5126.99	2880.77	109.77	783.45	320.01	2.45	PASS	
13316.00†	7437.00	5227.97	2143.64	13806.52	7702.00	5226.99	2880.91	109.77	783.45	325.85	2.41	PASS	
13416.00†	7437.00	5327.97	2143.77	13906.52	7702.00	5326.99	2881.04	109.77	783.44	331.70	2.36	PASS	
13516.00†	7437.00	5427.97	2143.91	14006.52	7702.00	5426.99	2881.17	109.77	783.44	337.55	2.32	PASS	
13616.00†	7437.00	5527.97	2144.05	14106.52	7702.00	5526.99	2881.31	109.77	783.44	343.41	2.28	PASS	
13716.00†	7437.00	5627.97	2144.18	14206.52	7702.00	5626.99	2881.44	109.77	783.44	349.28	2.25	PASS	
13816.00†	7437.00	5727.97	2144.32	14306.52	7702.00	5726.99	2881.57	109.77	783.43	355.15	2.21	PASS	
13916.00†	7437.00	5827.97	2144.46	14406.52	7702.00	5826.99	2881.71	109.77	783.43	361.03	2.17	PASS	
14016.00†	7437.00	5927.97	2144.60	14506.52	7702.00	5926.99	2881.84	109.77	783.43	366.91	2.14	PASS	
14116.00†	7437.00	6027.97	2144.73	14606.52	7702.00	6026.99	2881.98	109.77	783.42	372.79	2.10	PASS	
14216.00†	7437.00	6127.97	2144.87	14706.52	7702.00	6126.99	2882.11	109.77	783.42	378.68	2.07	PASS	
14316.00†	7437.00	6227.97	2145.01	14806.52	7702.00	6226.99	2882.24	109.77	783.42	384.58	2.04	PASS	
14416.00†	7437.00	6327.97	2145.14	14906.52	7702.00	6326.99	2882.38	109.77	783.42	390.47	2.01	PASS	
14516.00†	7437.00	6427.97	2145.28	15006.52	7702.00	6426.99	2882.51	109.77	783.41	396.38	1.98	PASS	
14616.00†	7437.00	6527.97	2145.42	15106.52	7702.00	6526.99	2882.64	109.77	783.41	402.28	1.95	PASS	
14716.00†	7437.00	6627.97	2145.55	15206.52	7702.00	6626.99	2882.78	109.77	783.41	408.19	1.92	PASS	
14816.00†	7437.00	6727.97	2145.69	15306.52	7702.00	6726.99	2882.91	109.77	783.40	414.11	1.89	PASS	
14916.00†	7437.00	6827.97	2145.83	15406.52	7702.00	6826.99	2883.05	109.77	783.40	420.02	1.87	PASS	
15016.00†	7437.00	6927.97	2145.96	15506.52	7702.00	6926.99	2883.18	109.77	783.40	425.94	1.84	PASS	
15116.00†	7437.00	7027.97	2146.10	15606.52	7702.00	7026.99	2883.31	109.77	783.40	431.86	1.82	PASS	
15216.00†	7437.00	7127.97	2146.24	15706.52	7702.00	7126.99	2883.45	109.77	783.39	437.79	1.79	PASS	
15316.00†	7437.00	7227.97	2146.37	15806.52	7702.00	7226.99	2883.58	109.77	783.39	443.72	1.77	PASS	
15416.00†	7437.00	7327.97	2146.51	15906.52	7702.00	7326.99	2883.72	109.77	783.39	449.65	1.74	PASS	
15516.00†	7437.00	7427.97	2146.65	16006.52	7702.00	7426.99	2883.85	109.77	783.38	455.58	1.72	PASS	
15616.00†	7437.00	7527.97	2146.78	16106.52	7702.00	7526.99	2883.98	109.77	783.38	461.52	1.70	PASS	
15716.00†	7437.00	7627.97	2146.92	16206.52	7702.00	7626.99	2884.12	109.77	783.38	467.46	1.68	PASS	
15816.00†	7437.00	7727.97	2147.06	16306.52	7702.00	7726.99	2884.25	109.77	783.38	473.40	1.66	PASS	
15916.00†	7437.00	7827.97	2147.19	16406.52	7702.00	7826.99	2884.38	109.77	783.37	479.34	1.64	PASS	
16016.00†	7437.00	7927.97	2147.33	16506.52	7702.00	7926.99	2884.52	109.77	783.37	485.28	1.62	PASS	
16116.00†	7437.00	8027.97	2147.47	16606.52	7702.00	8026.99	2884.65	109.77	783.37	491.23	1.60	PASS	
16216.00†	7437.00	8127.97	2147.60	16706.52	7702.00	8126.99	2884.79	109.77	783.37	497.18	1.58	PASS	
16316.00†	7437.00	8227.97	2147.74	16806.52	7702.00	8226.99	2884.92	109.77	783.36	503.13	1.56	PASS	
16416.00†	7437.00	8327.97	2147.88	16906.52	7702.00	8326.99	2885.05	109.77	783.36	509.08	1.54	PASS	
16516.00†	7437.00	8427.97	2148.02	17006.52	7702.00	8426.99	2885.19	109.77	783.36	515.04	1.52	PASS	
16616.00†	7437.00	8527.97	2148.15	17106.52	7702.00	8526.99	2885.32	109.77	783.35	520.99	1.50	PASS	
16716.00†	7437.00	8627.97	2148.29	17206.52	7702.00	8626.99	2885.45	109.77	783.35	526.95	1.49	PASS	
16816.00†	7437.00	8727.97	2148.43	17306.52	7702.00	8726.99	2885.59	109.77	783.35	532.91	1.47	PASS	
16916.00†	7437.00	8827.97	2148.56	17406.52	7702.00	8826.99	2885.72	109.77	783.35	538.87	1.45	PASS	
17016.00†	7437.00	8927.97	2148.70	17506.52	7702.00	8926.99	2885.86	109.77	783.34	544.83	1.44	PASS	
17116.00†	7437.00	9027.97	2148.84	17606.52	7702.00	9026.99	2885.99	109.77	783.34	550.80	1.42	PASS	
17216.00†	7437.00	9127.97	2148.97	17706.52	7702.00	9126.99	2886.12	109.77	783.34	556.76	1.41	PASS	
17316.00†	7437.00	9227.97	2149.11	17806.52	7702.00	9226.99	2886.26	109.77	783.33	562.73	1.39	PASS	
17416.00†	7437.00	9327.97	2149.25	17906.52	7702.00	9326.99	2886.39	109.77	783.33	568.70	1.38	PASS	
17516.00†	7437.00	9427.97	2149.38	18006.52	7702.00	9426.99	2886.52	109.77	783.33	574.67	1.36	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 37 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	7437.00	9527.97	2149.52	18106.52	7702.00	9526.98	2886.66	109.77	783.33	580.64	1.35	PASS
17716.00†	7437.00	9627.97	2149.66	18206.52	7702.00	9626.98	2886.79	109.77	783.32	586.61	1.34	PASS
17789.00	7437.00	9700.97	2149.76	18279.51	7702.00	9699.98	2886.89	109.77	783.32	590.96	1.33	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

## 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	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	18285.00	17403.00	882.00	N/A	0.00	27.35	N/A	N/A

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

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

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

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



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 38 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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	-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	62.30	PASS	
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-58.88	-90.00	58.88	2.47	38.46	PASS	
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-58.88	-90.00	58.88	3.08	27.42	PASS	
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	-58.88	-90.00	58.88	3.69	21.23	PASS	
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	-58.88	-90.00	58.88	4.31	17.29	PASS	
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	-58.88	-90.00	58.88	4.94	14.58	PASS	
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	-58.88	-90.00	58.88	5.56	12.60	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	6.25	10.49	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	
1116.00†	1116.00	0.00	0.00	1116.00	1116.00	0.00	-58.88	-90.00	58.88	6.73	9.67	PASS	
1125.00	1125.00	0.00	0.00	1125.00	1125.00	0.00	-58.88	-90.00	58.88	6.77	9.60	PASS	
1216.00†	1215.97	-0.55	2.10	1215.97	1215.97	0.00	-58.88	165.72	60.98	7.37	9.04	PASS	
1316.00†	1315.68	-2.44	9.23	1315.68	1315.68	0.00	-58.88	167.20	68.15	8.65	8.50	PASS	
1416.00†	1414.88	-5.65	21.39	1418.48	1418.48	-0.96	-56.81	168.59	78.42	10.11	8.27	PASS	
1516.00†	1513.27	-10.18	38.56	1522.17	1521.82	-4.28	-49.66	169.03	88.83	11.88	7.89	PASS	
1616.00†	1610.61	-16.02	60.69	1626.41	1625.16	-10.00	-37.35	168.79	99.30	13.65	7.62	PASS	
1716.00†	1706.61	-23.16	87.71	1731.19	1728.14	-18.12	-19.85	168.06	109.81	15.22	7.52	PASS	
1801.81	1787.74	-30.29	114.74	1816.58	1811.56	-25.80	-3.31	167.51	120.52	16.16	7.75	PASS	
1816.00†	1801.04	-31.55	119.50	1830.62	1825.27	-27.06	-0.60	167.47	122.60	16.29	7.82	PASS	
1916.00†	1894.83	-40.41	153.05	1929.54	1921.91	-35.96	18.57	167.22	137.26	17.10	8.33	PASS	
2016.00†	1988.61	-49.27	186.60	2028.45	2018.54	-44.86	37.73	167.03	151.92	17.97	8.76	PASS	
2116.00†	2082.40	-58.12	220.16	2127.37	2115.18	-53.75	56.89	166.86	166.58	18.92	9.11	PASS	
2216.00†	2176.19	-66.98	253.71	2226.29	2211.81	-62.65	76.05	166.73	181.24	19.90	9.40	PASS	
2316.00†	2269.97	-75.84	287.26	2325.21	2308.45	-71.55	95.22	166.61	195.91	20.91	9.66	PASS	
2416.00†	2363.76	-84.70	320.81	2424.13	2405.08	-80.44	114.38	166.51	210.57	21.97	9.87	PASS	
2516.00†	2457.54	-93.56	354.36	2523.05	2501.72	-89.34	133.54	166.43	225.23	23.06	10.05	PASS	
2616.00†	2551.33	-102.41	387.91	2621.96	2598.36	-98.24	152.70	166.35	239.90	24.18	10.19	PASS	
2716.00†	2645.12	-111.27	421.46	2720.88	2694.99	-107.14	171.87	166.28	254.57	25.32	10.32	PASS	
2816.00†	2738.90	-120.13	455.01	2819.80	2791.63	-116.03	191.03	166.22	269.23	26.48	10.42	PASS	
2916.00†	2832.69	-128.99	488.57	2918.72	2888.26	-124.93	210.19	166.17	283.90	27.66	10.51	PASS	
3016.00†	2926.48	-137.85	522.12	3017.64	2984.90	-133.83	229.35	166.12	298.56	28.85	10.58	PASS	
3116.00†	3020.26	-146.70	555.67	3116.56	3081.54	-142.72	248.51	166.08	313.23	30.06	10.65	PASS	
3216.00†	3114.05	-155.56	589.22	3215.47	3178.17	-151.62	267.68	166.04	327.90	31.27	10.70	PASS	
3316.00†	3207.83	-164.42	622.77	3314.39	3274.81	-160.52	286.84	166.00	342.56	32.50	10.75	PASS	
3416.00†	3301.62	-173.28	656.32	3413.31	3371.44	-169.42	306.00	165.97	357.23	33.74	10.79	PASS	
3516.00†	3395.41	-182.14	689.87	3512.23	3468.08	-178.31	325.16	165.94	371.90	34.99	10.83	PASS	
3616.00†	3489.19	-190.99	723.42	3611.15	3564.71	-187.21	344.33	165.91	386.56	36.24	10.86	PASS	
3716.00†	3582.98	-199.85	756.97	3710.07	3661.35	-196.11	363.49	165.88	401.23	37.50	10.89	PASS	
3816.00†	3676.77	-208.71	790.53	3808.98	3757.99	-205.00	382.65	165.86	415.90	38.77	10.91	PASS	
3916.00†	3770.55	-217.57	824.08	3907.90	3854.62	-213.90	401.81	165.83	430.57	40.04	10.93	PASS	
4016.00†	3864.34	-226.43	857.63	4006.82	3951.26	-222.80	420.98	165.81	445.23	41.32	10.95	PASS	
4116.00†	3958.12	-235.29	891.18	4105.74	4047.89	-231.70	440.14	165.79	459.90	42.60	10.96	PASS	
4216.00†	4051.91	-244.14	924.73	4204.66	4144.53	-240.59	459.30	165.77	474.57	43.88	10.98	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 39 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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†	4145.70	-253.00	958.28	4303.58	4241.17	-249.49	478.46	165.76	489.24	45.17	10.99	PASS		
4416.00†	4239.48	-261.86	991.83	4402.49	4337.80	-258.39	497.63	165.74	503.90	46.47	11.00	PASS		
4516.00†	4333.27	-270.72	1025.38	4501.41	4434.44	-267.28	516.79	165.72	518.57	47.76	11.01	PASS		
4616.00†	4427.06	-279.58	1058.93	4600.33	4531.07	-276.18	535.95	165.71	533.24	49.06	11.01	PASS		
4716.00†	4520.84	-288.43	1092.49	4699.25	4627.71	-285.08	555.11	165.69	547.91	50.36	11.02	PASS		
4816.00†	4614.63	-297.29	1126.04	4798.17	4724.34	-293.98	574.28	165.68	562.57	51.67	11.03	PASS		
4916.00†	4708.41	-306.15	1159.59	4897.09	4820.98	-302.87	593.44	165.67	577.24	52.97	11.03	PASS		
5016.00†	4802.20	-315.01	1193.14	4996.01	4917.62	-311.77	612.60	165.66	591.91	54.28	11.04	PASS		
5116.00†	4895.99	-323.87	1226.69	5094.92	5014.25	-320.67	631.76	165.64	606.58	55.59	11.04	PASS		
5216.00†	4989.77	-332.72	1260.24	5193.84	5110.89	-329.56	650.93	165.63	621.24	56.90	11.04	PASS		
5316.00†	5083.56	-341.58	1293.79	5292.76	5207.52	-338.46	670.09	165.62	635.91	58.21	11.05	PASS		
5416.00†	5177.34	-350.44	1327.34	5391.68	5304.16	-347.36	689.25	165.61	650.58	59.53	11.05	PASS		
5516.00†	5271.13	-359.30	1360.90	5490.60	5400.80	-356.25	708.41	165.60	665.25	60.85	11.05	PASS		
5616.00†	5364.92	-368.16	1394.45	5589.52	5497.43	-365.15	727.58	165.59	679.92	62.16	11.05	PASS		
5716.00†	5458.70	-377.01	1428.00	5688.43	5594.07	-374.05	746.74	165.59	694.58	63.48	11.05	PASS		
5816.00†	5552.49	-385.87	1461.55	5787.35	5690.70	-382.95	765.90	165.58	709.25	64.80	11.05	PASS		
5916.00†	5646.28	-394.73	1495.10	5886.27	5787.34	-391.84	785.06	165.57	723.92	66.13	11.06	PASS		
6016.00†	5740.06	-403.59	1528.65	5985.19	5883.97	-400.74	804.23	165.56	738.59	67.45	11.06	PASS		
6116.00†	5833.85	-412.45	1562.20	6084.11	5980.61	-409.64	823.39	165.55	753.26	68.77	11.06	PASS		
6216.00†	5927.63	-421.30	1595.75	6183.03	6077.25	-418.53	842.55	165.55	767.92	70.10	11.06	PASS		
6316.00†	6021.42	-430.16	1629.30	6281.94	6173.88	-427.43	861.71	165.54	782.59	71.42	11.06	PASS		
6416.00†	6115.21	-439.02	1662.86	6380.86	6270.52	-436.33	880.87	165.53	797.26	72.75	11.06	PASS		
6516.00†	6208.99	-447.88	1696.41	6479.78	6367.15	-445.23	900.04	165.53	811.93	74.08	11.06	PASS		
6616.00†	6302.78	-456.74	1729.96	6578.70	6463.79	-454.12	919.20	165.52	826.60	75.41	11.06	PASS		
6716.00†	6396.57	-465.59	1763.51	6677.62	6560.43	-463.02	938.36	165.52	841.26	76.73	11.06	PASS		
6816.00†	6490.35	-474.45	1797.06	6776.54	6657.06	-471.92	957.52	165.51	855.93	78.06	11.06	PASS		
6916.00†	6584.14	-483.31	1830.61	6875.45	6753.70	-480.81	976.69	165.50	870.60	79.39	11.06	PASS		
7016.00†	6677.92	-492.17	1864.16	6974.37	6850.33	-489.71	995.85	165.50	885.27	80.73	11.05	PASS		
7116.00†	6771.71	-501.03	1897.71	7073.29	6946.97	-498.61	1015.01	165.49	899.94	82.06	11.05	PASS		
7199.49	6850.01	-508.42	1925.72	7155.87	7027.65	-506.04	1031.01	165.49	912.18	83.17	11.05	PASS		
7216.00†	6865.51	-509.65	1931.27	7172.21	7043.60	-507.51	1034.17	170.13	914.61	83.40	11.05	PASS		
7316.00†	6959.51	-506.91	1964.91	7271.06	7140.29	-514.50	1053.35	-161.77	929.35	84.96	11.02	PASS		
7416.00†	7051.62	-486.88	1997.91	7371.84	7238.71	-506.52	1072.88	-140.26	943.96	84.31	11.28	PASS		
7516.00†	7139.06	-450.16	2029.25	7475.03	7336.45	-480.29	1092.31	-126.82	957.98	85.44	11.30	PASS		
7616.00†	7219.15	-397.88	2057.98	7580.77	7430.16	-435.35	1110.95	-118.56	970.98	87.22	11.22	PASS		
7716.00†	7289.47	-331.61	2083.24	7689.07	7516.08	-371.94	1128.06	-113.28	982.51	86.92	11.39	PASS		
7816.00†	7347.89	-253.37	2104.25	7799.80	7590.23	-291.30	1142.86	-109.82	992.18	86.40	11.57	PASS		
7916.00†	7392.62	-165.54	2120.38	7912.60	7648.71	-195.77	1154.57	-107.58	999.64	85.94	11.72	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



**Clearance Report**  
BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 40 of 43



**REFERENCE WELLPATH IDENTIFICATION**

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH PWB
Facility	SEC.20-T01S-R66W		

**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	-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	17814.81	16932.81	882.00	7707.00	0.00	-35.89	2955.72	340.86

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

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

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

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



# Clearance Report

BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 41 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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	-825.24	-7.86	6037.81	25.57	245.38	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	-503.01	3646.40	-502.67
8.625in Casing Surface	0.00	158.00	158.00	18.00	175.99	3646.11	-503.01	3646.40	-502.67
7.875in Open Hole	158.00	8210.00	8052.00	175.99	8226.90	3646.40	-502.67	3641.72	-518.08
4.5in Casing Production	0.00	8210.00	8210.00	18.00	8226.90	3646.11	-503.01	3641.72	-518.08

## 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 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 42 of 43



## REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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	-410.45	-26.13	931.99	25.57	37.84	PASS	
116.00†	116.00	0.00	0.00	104.23	127.22	836.45	-409.59	-26.09	931.42	50.13	18.91	PASS	
216.00†	216.00	0.00	0.00	210.23	233.21	835.51	-407.76	-26.01	929.86	49.97	18.87	PASS	
316.00†	316.00	0.00	0.00	311.05	334.00	834.05	-406.34	-25.98	927.94	50.00	18.83	PASS	
416.00†	416.00	0.00	0.00	407.57	430.51	832.37	-405.93	-26.00	926.19	50.04	18.78	PASS	
516.00†	516.00	0.00	0.00	505.13	528.04	830.45	-406.68	-26.09	924.76	50.08	18.73	PASS	
616.00†	616.00	0.00	0.00	604.36	627.23	828.16	-408.53	-26.26	923.51	50.13	18.69	PASS	
716.00†	716.00	0.00	0.00	704.67	727.48	825.58	-410.91	-26.46	922.26	50.18	18.64	PASS	
816.00†	816.00	0.00	0.00	798.60	821.35	823.44	-413.28	-26.65	921.35	50.24	18.60	PASS	
916.00†	916.00	0.00	0.00	897.90	920.61	821.60	-415.75	-26.84	920.81	50.08	18.58	PASS	
1016.00†	1016.00	0.00	0.00	995.94	1018.61	820.06	-417.93	-27.01	920.42	50.12	18.56	PASS	
1065.22†	1065.22	0.00	0.00	1040.70	1063.36	819.55	-418.81	-27.07	920.36	50.14	18.55	PASS	
1116.00†	1116.00	0.00	0.00	1088.84	1111.49	819.27	-419.66	-27.12	920.51	50.16	18.54	PASS	
1125.00	1125.00	0.00	0.00	1097.19	1119.83	819.25	-419.80	-27.13	920.56	50.17	18.54	PASS	
1142.82†	1142.82	-0.02	0.08	1114.56	1137.21	819.22	-420.08	-131.94	920.72	50.18	18.54	PASS	
1216.00†	1215.97	-0.55	2.10	1186.63	1209.27	819.24	-421.10	-132.05	922.60	50.22	18.56	PASS	
1316.00†	1315.68	-2.44	9.23	1296.38	1319.02	818.95	-422.27	-132.38	927.83	50.36	18.62	PASS	
1416.00†	1414.88	-5.65	21.39	1395.15	1417.78	818.06	-423.19	-132.83	936.03	50.52	18.72	PASS	
1516.00†	1513.27	-10.18	38.56	1493.25	1515.87	817.09	-424.36	-133.44	947.99	50.71	18.89	PASS	
1616.00†	1610.61	-16.02	60.69	1591.42	1614.02	815.98	-425.69	-134.18	963.74	50.93	19.12	PASS	
1716.00†	1706.61	-23.16	87.71	1689.31	1711.89	814.76	-426.88	-135.02	983.33	51.18	19.41	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	-250.20	509.94	-249.80
8.625in Casing Surface	0.00	132.00	132.00	7.00	138.99	510.08	-250.20	509.94	-249.80
7.875in Open Hole	132.00	8231.00	8099.00	138.99	8236.91	509.94	-249.80	499.15	-268.36
4.5in Casing Production	0.00	8231.00	8231.00	7.00	8236.91	510.08	-250.20	499.15	-268.36

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

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



**Clearance Report**  
BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP  
Closest Approach  
Page 43 of 43



REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2NBH 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