

PETROSHARE

Location: COLORADO Slot: SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Field: ADAMS COUNTY (NAD83/ TRUE NORTH) Well: BRIGHTON LAKES 20-17-1NCH
Facility: SEC.20-T01S-R66W Wellbore: BRIGHTON LAKES 20-17-1NCH PWB

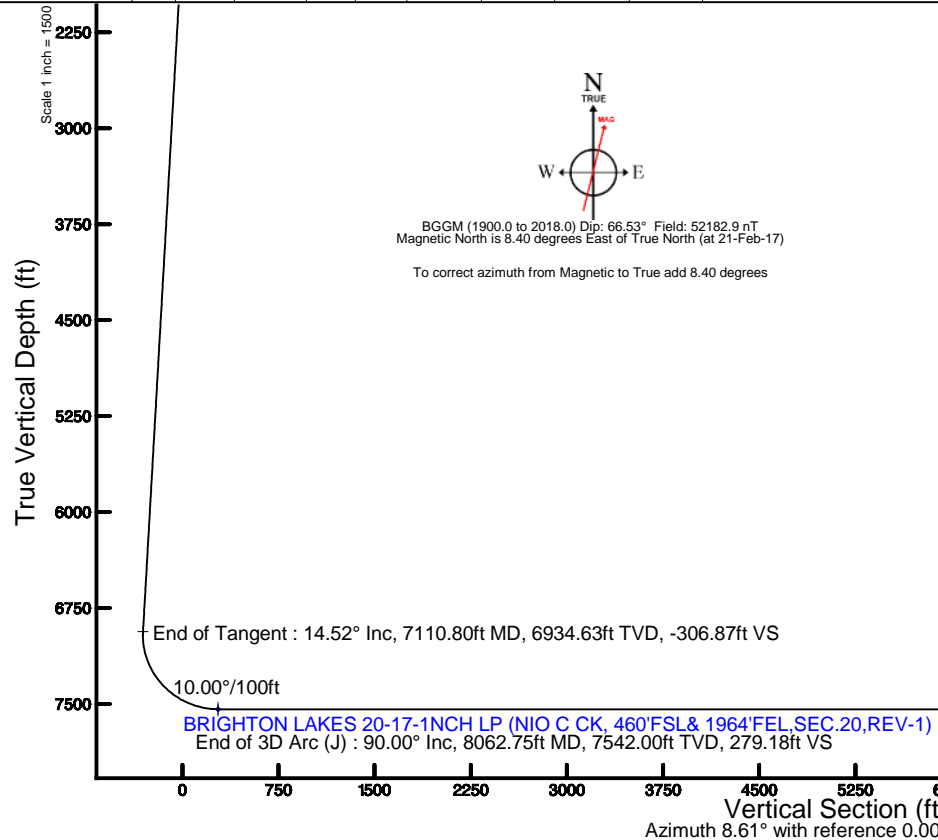
Plot reference wellpath is BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to RIG (16'RKB) (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to RIG (16'RKB) (RKB)	North Reference: True north
RIG (16'RKB) (RKB) to Mean Sea Level: 5063 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdann on 2017-02-23
	Database: WA, Denver

Location Information

Facility Name			Grid East (US R)	Grid North (US R)	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 R)	Grid North (US R)	Latitude	Longitude
SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)	0.00	14.02	3195679.319	1223370.584	39°56'39.912"N	104°48'07.524"W
RIG (16'RKB) (RKB) to Mud line (At Slot: SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20))						5063ft
Mean Sea Level to Mud line (At Slot: SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20))						0ft
RIG (16'RKB) (RKB) to Mean Sea Level						5063ft

Hole and Casing Sections

Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (ft)	Wellbore
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	0.00	0.00	0.00	BRIGHTON LAKES 20-17-1NCH 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 20-17-1NCH PWB
8.5in Open Hole	882.00	17698.07	16816.07	882.00	7542.00	0.00	0.00	9697.28	1468.67	BRIGHTON LAKES 20-17-1NCH PWB

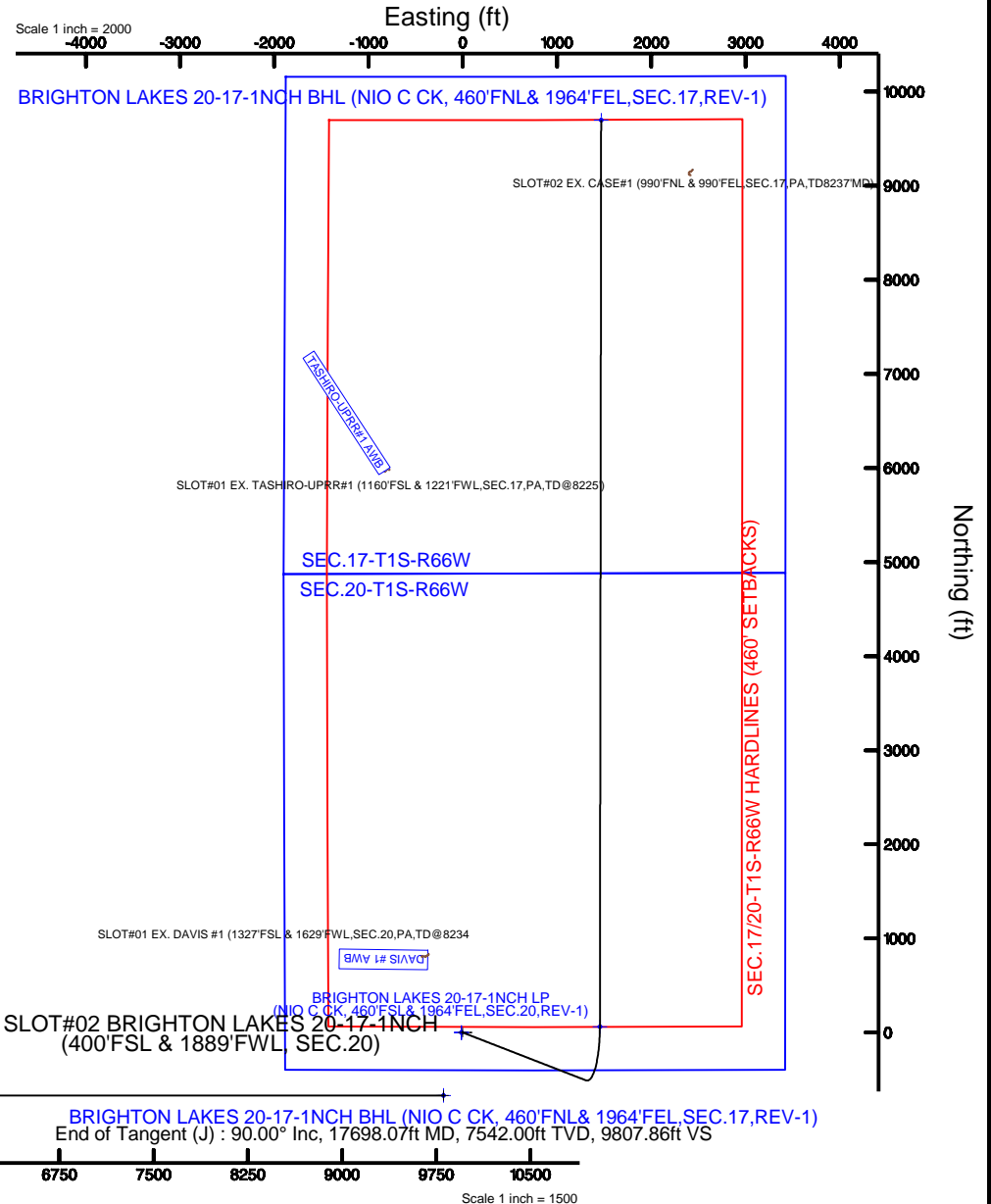


Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	16.00	0.000	111.246	16.00	0.00	0.00	0.00	0.00
End of Tangent	1275.00	0.000	111.246	1275.00	0.00	0.00	0.00	0.00
End of Build	1759.10	14.523	111.246	1753.93	-22.11	56.88	3.00	-13.35
End of Tangent	7110.80	14.523	111.246	6934.63	-508.43	1307.71	0.00	-306.87
End of 3D Arc (J)	8062.75	90.000	0.080	7542.00	61.97	1455.22	10.00	279.18
End of Tangent (J)	17698.07	90.000	0.080	7542.00	9697.28	1468.67	0.00	9807.86

Survey Program

Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
16.00	882.00	BHI NavTrak	Custom BHI NavTrak (Standard Rotating-Axial Cor) (Rockies 0.03Gt model)		BRIGHTON LAKES 20-17-1NCH PWB
882.00	17698.07	BHI AutoTrak Curve	BHI AutoTrak Curve (Standard)		BRIGHTON LAKES 20-17-1NCH PWB



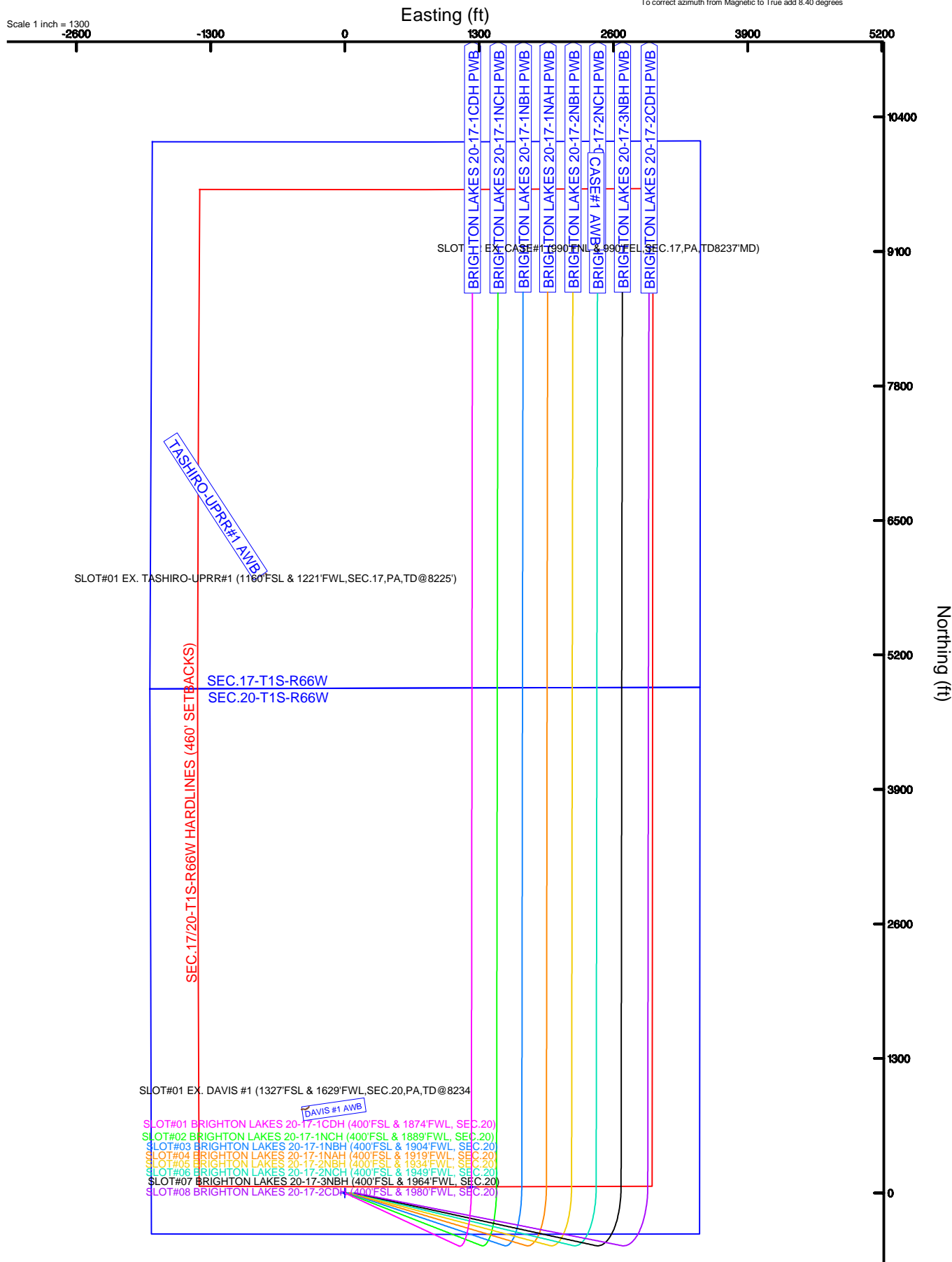
PETROSHARE



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

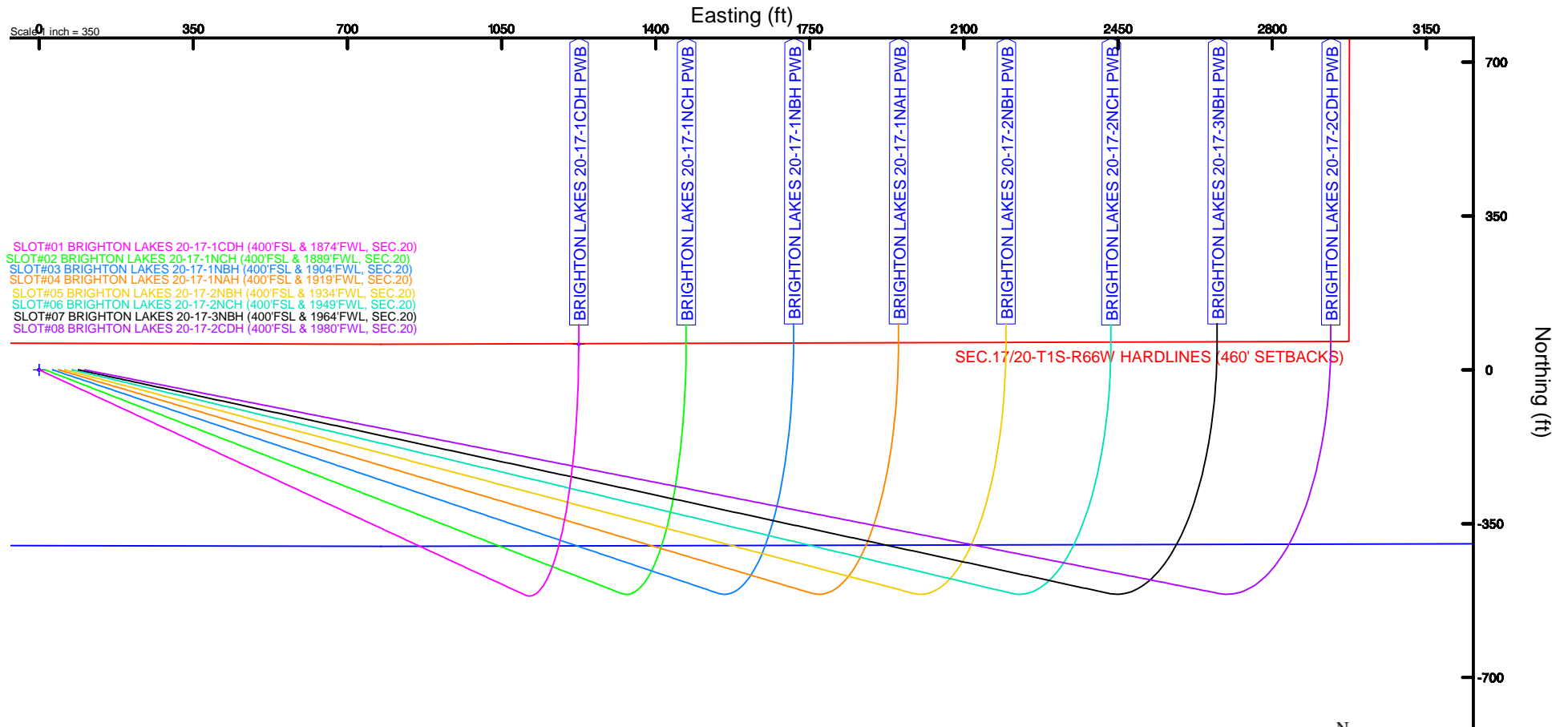


PETROSHARE

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 20-17-1NCH (REV-A.0, NIO C CK) PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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 9:43:42 AM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/BRIGHTON_LAKES_20-17-1NCH_REV-A.0_NIO_C_CK_PWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	14.02	3195679.32	1223370.58	39°56'39.912"N	104°48'07.524"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#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'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	8.61°



Planned Wellpath Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH DATA (191 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	111.246	0.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	
16.00	0.000	111.246	16.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	Tie On
116.00†	0.000	111.246	116.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	
216.00†	0.000	111.246	216.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	
316.00†	0.000	111.246	316.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	
416.00†	0.000	111.246	416.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	
516.00†	0.000	111.246	516.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	
616.00†	0.000	111.246	616.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	
716.00†	0.000	111.246	716.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	
816.00†	0.000	111.246	816.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	
882.00†	0.000	111.246	882.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	Fox Hills (Surface Csg)
916.00†	0.000	111.246	916.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	
1016.00†	0.000	111.246	1016.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	
1116.00†	0.000	111.246	1116.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	
1216.00†	0.000	111.246	1216.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	
1275.00	0.000	111.246	1275.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.524"W	0.00	End of Tangent
1316.00†	1.230	111.246	1316.00	-0.10	-0.16	0.41	39°56'39.910"N	104°48'07.519"W	3.00	
1416.00†	4.230	111.246	1415.87	-1.14	-1.89	4.85	39°56'39.893"N	104°48'07.462"W	3.00	
1516.00†	7.230	111.246	1515.36	-3.32	-5.50	14.15	39°56'39.858"N	104°48'07.342"W	3.00	
1616.00†	10.230	111.246	1614.19	-6.64	-11.00	28.30	39°56'39.803"N	104°48'07.161"W	3.00	
1716.00†	13.230	111.246	1712.09	-11.09	-18.37	47.24	39°56'39.730"N	104°48'06.917"W	3.00	
1759.10	14.523	111.246	1753.93	-13.35	-22.11	56.88	39°56'39.693"N	104°48'06.794"W	3.00	End of Build
1816.00†	14.523	111.246	1809.01	-16.47	-27.28	70.18	39°56'39.642"N	104°48'06.623"W	0.00	
1916.00†	14.523	111.246	1905.82	-21.95	-36.37	93.55	39°56'39.553"N	104°48'06.323"W	0.00	
2016.00†	14.523	111.246	2002.62	-27.44	-45.46	116.92	39°56'39.463"N	104°48'06.023"W	0.00	
2116.00†	14.523	111.246	2099.43	-32.92	-54.55	140.29	39°56'39.373"N	104°48'05.723"W	0.00	
2216.00†	14.523	111.246	2196.23	-38.41	-63.63	163.67	39°56'39.283"N	104°48'05.423"W	0.00	
2316.00†	14.523	111.246	2293.04	-43.89	-72.72	187.04	39°56'39.193"N	104°48'05.123"W	0.00	
2416.00†	14.523	111.246	2389.84	-49.38	-81.81	210.41	39°56'39.104"N	104°48'04.822"W	0.00	
2516.00†	14.523	111.246	2486.65	-54.86	-90.89	233.78	39°56'39.014"N	104°48'04.522"W	0.00	
2616.00†	14.523	111.246	2583.45	-60.35	-99.98	257.16	39°56'38.924"N	104°48'04.222"W	0.00	
2716.00†	14.523	111.246	2680.26	-65.83	-109.07	280.53	39°56'38.834"N	104°48'03.922"W	0.00	
2816.00†	14.523	111.246	2777.06	-71.32	-118.16	303.90	39°56'38.744"N	104°48'03.622"W	0.00	
2916.00†	14.523	111.246	2873.87	-76.80	-127.24	327.27	39°56'38.655"N	104°48'03.322"W	0.00	
3016.00†	14.523	111.246	2970.67	-82.28	-136.33	350.65	39°56'38.565"N	104°48'03.022"W	0.00	
3116.00†	14.523	111.246	3067.48	-87.77	-145.42	374.02	39°56'38.475"N	104°48'02.722"W	0.00	
3216.00†	14.523	111.246	3164.28	-93.25	-154.50	397.39	39°56'38.385"N	104°48'02.422"W	0.00	
3316.00†	14.523	111.246	3261.09	-98.74	-163.59	420.76	39°56'38.295"N	104°48'02.122"W	0.00	
3416.00†	14.523	111.246	3357.89	-104.22	-172.68	444.14	39°56'38.205"N	104°48'01.822"W	0.00	
3516.00†	14.523	111.246	3454.69	-109.71	-181.76	467.51	39°56'38.116"N	104°48'01.522"W	0.00	
3616.00†	14.523	111.246	3551.50	-115.19	-190.85	490.88	39°56'38.026"N	104°48'01.221"W	0.00	
3716.00†	14.523	111.246	3648.30	-120.68	-199.94	514.25	39°56'37.936"N	104°48'00.921"W	0.00	
3816.00†	14.523	111.246	3745.11	-126.16	-209.03	537.63	39°56'37.846"N	104°48'00.621"W	0.00	
3916.00†	14.523	111.246	3841.91	-131.65	-218.11	561.00	39°56'37.756"N	104°48'00.321"W	0.00	
4016.00†	14.523	111.246	3938.72	-137.13	-227.20	584.37	39°56'37.667"N	104°48'00.021"W	0.00	



Planned Wellpath Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH DATA (191 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4116.00†	14.523	111.246	4035.52	-142.62	-236.29	607.74	39°56'37.577"N	104°47'59.721"W	0.00	
4216.00†	14.523	111.246	4132.33	-148.10	-245.37	631.12	39°56'37.487"N	104°47'59.421"W	0.00	
4316.00†	14.523	111.246	4229.13	-153.59	-254.46	654.49	39°56'37.397"N	104°47'59.121"W	0.00	
4416.00†	14.523	111.246	4325.94	-159.07	-263.55	677.86	39°56'37.307"N	104°47'58.821"W	0.00	
4516.00†	14.523	111.246	4422.74	-164.56	-272.64	701.23	39°56'37.218"N	104°47'58.521"W	0.00	
4616.00†	14.523	111.246	4519.55	-170.04	-281.72	724.61	39°56'37.128"N	104°47'58.221"W	0.00	
4716.00†	14.523	111.246	4616.35	-175.53	-290.81	747.98	39°56'37.038"N	104°47'57.921"W	0.00	
4816.00†	14.523	111.246	4713.16	-181.01	-299.90	771.35	39°56'36.948"N	104°47'57.621"W	0.00	
4916.00†	14.523	111.246	4809.96	-186.49	-308.98	794.72	39°56'36.858"N	104°47'57.320"W	0.00	
4949.10†	14.523	111.246	4842.00	-188.31	-311.99	802.46	39°56'36.829"N	104°47'57.221"W	0.00	Sussex / Shannon
5016.00†	14.523	111.246	4906.77	-191.98	-318.07	818.10	39°56'36.769"N	104°47'57.020"W	0.00	
5116.00†	14.523	111.246	5003.57	-197.46	-327.16	841.47	39°56'36.679"N	104°47'56.720"W	0.00	
5216.00†	14.523	111.246	5100.37	-202.95	-336.25	864.84	39°56'36.589"N	104°47'56.420"W	0.00	
5316.00†	14.523	111.246	5197.18	-208.43	-345.33	888.21	39°56'36.499"N	104°47'56.120"W	0.00	
5416.00†	14.523	111.246	5293.98	-213.92	-354.42	911.59	39°56'36.409"N	104°47'55.820"W	0.00	
5516.00†	14.523	111.246	5390.79	-219.40	-363.51	934.96	39°56'36.320"N	104°47'55.520"W	0.00	
5616.00†	14.523	111.246	5487.59	-224.89	-372.59	958.33	39°56'36.230"N	104°47'55.220"W	0.00	
5716.00†	14.523	111.246	5584.40	-230.37	-381.68	981.70	39°56'36.140"N	104°47'54.920"W	0.00	
5816.00†	14.523	111.246	5681.20	-235.86	-390.77	1005.08	39°56'36.050"N	104°47'54.620"W	0.00	
5916.00†	14.523	111.246	5778.01	-241.34	-399.86	1028.45	39°56'35.960"N	104°47'54.320"W	0.00	
6016.00†	14.523	111.246	5874.81	-246.83	-408.94	1051.82	39°56'35.870"N	104°47'54.020"W	0.00	
6116.00†	14.523	111.246	5971.62	-252.31	-418.03	1075.19	39°56'35.781"N	104°47'53.720"W	0.00	
6216.00†	14.523	111.246	6068.42	-257.80	-427.12	1098.57	39°56'35.691"N	104°47'53.419"W	0.00	
6316.00†	14.523	111.246	6165.23	-263.28	-436.20	1121.94	39°56'35.601"N	104°47'53.119"W	0.00	
6416.00†	14.523	111.246	6262.03	-268.77	-445.29	1145.31	39°56'35.511"N	104°47'52.819"W	0.00	
6516.00†	14.523	111.246	6358.84	-274.25	-454.38	1168.68	39°56'35.421"N	104°47'52.519"W	0.00	
6616.00†	14.523	111.246	6455.64	-279.74	-463.46	1192.06	39°56'35.332"N	104°47'52.219"W	0.00	
6716.00†	14.523	111.246	6552.45	-285.22	-472.55	1215.43	39°56'35.242"N	104°47'51.919"W	0.00	
6816.00†	14.523	111.246	6649.25	-290.70	-481.64	1238.80	39°56'35.152"N	104°47'51.619"W	0.00	
6916.00†	14.523	111.246	6746.05	-296.19	-490.73	1262.17	39°56'35.062"N	104°47'51.319"W	0.00	
7016.00†	14.523	111.246	6842.86	-301.67	-499.81	1285.55	39°56'34.972"N	104°47'51.019"W	0.00	
7110.80	14.523	111.246	6934.63	-306.87	-508.43	1307.71	39°56'34.887"N	104°47'50.734"W	0.00	End of Tangent
7116.00†	14.349	109.282	6939.67	-307.14	-508.88	1308.92	39°56'34.883"N	104°47'50.719"W	10.00	
7216.00†	14.569	68.431	7036.75	-303.10	-508.34	1332.37	39°56'34.888"N	104°47'50.418"W	10.00	
7316.00†	20.368	40.673	7132.25	-281.97	-490.48	1355.47	39°56'35.065"N	104°47'50.121"W	10.00	
7416.00†	28.523	26.471	7223.29	-244.40	-455.82	1377.51	39°56'35.407"N	104°47'49.838"W	10.00	
7460.94†	32.505	22.359	7262.00	-222.45	-435.04	1386.89	39°56'35.612"N	104°47'49.718"W	10.00	Niobrara A Chalk
7516.00†	37.526	18.412	7307.09	-191.53	-405.42	1397.82	39°56'35.905"N	104°47'49.577"W	10.00	
7522.22†	38.100	18.024	7312.00	-187.77	-401.80	1399.01	39°56'35.941"N	104°47'49.562"W	10.00	Niobrara A Marl
7616.00†	46.888	13.151	7381.10	-124.97	-340.82	1415.79	39°56'36.544"N	104°47'49.347"W	10.00	
7696.44†	54.551	9.983	7432.00	-62.84	-279.85	1428.17	39°56'37.146"N	104°47'49.188"W	10.00	Niobrara B Chalk
7716.00†	56.426	9.307	7443.08	-46.72	-263.97	1430.87	39°56'37.303"N	104°47'49.153"W	10.00	
7805.98†	65.090	6.521	7487.00	31.69	-186.28	1441.59	39°56'38.071"N	104°47'49.015"W	10.00	Niobrara B Marl
7816.00†	66.058	6.237	7491.14	40.81	-177.21	1442.60	39°56'38.160"N	104°47'49.002"W	10.00	
7916.00†	75.744	3.599	7523.83	134.98	-83.18	1450.63	39°56'39.090"N	104°47'48.899"W	10.00	



Planned Wellpath Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH DATA (191 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8016.00†	85.456	1.180	7540.15	232.93	15.27	1454.71	39°56'40.062"N	104°47'48.847"W	10.00	
8062.68†	89.992	0.082	7542.00	279.11	61.89	1455.22	39°56'40.523"N	104°47'48.840"W	10.00	Niobrara C Chalk (Landing Zone)
8062.75	90.000	0.080	7542.00†	279.18	61.97	1455.22	39°56'40.524"N	104°47'48.840"W	10.00	End of 3D Arc (J)
8116.00†	90.000	0.080	7542.00	331.84	115.22	1455.30	39°56'41.050"N	104°47'48.839"W	0.00	
8216.00†	90.000	0.080	7542.00	430.73	215.22	1455.44	39°56'42.038"N	104°47'48.837"W	0.00	
8316.00†	90.000	0.080	7542.00	529.63	315.22	1455.58	39°56'43.027"N	104°47'48.835"W	0.00	
8416.00†	90.000	0.080	7542.00	628.52	415.22	1455.72	39°56'44.015"N	104°47'48.833"W	0.00	
8516.00†	90.000	0.080	7542.00	727.41	515.22	1455.86	39°56'45.003"N	104°47'48.832"W	0.00	
8616.00†	90.000	0.080	7542.00	826.31	615.22	1456.00	39°56'45.991"N	104°47'48.830"W	0.00	
8716.00†	90.000	0.080	7542.00	925.20	715.22	1456.14	39°56'46.980"N	104°47'48.828"W	0.00	
8816.00†	90.000	0.080	7542.00	1024.09	815.22	1456.27	39°56'47.968"N	104°47'48.826"W	0.00	
8916.00†	90.000	0.080	7542.00	1122.99	915.22	1456.41	39°56'48.956"N	104°47'48.824"W	0.00	
9016.00†	90.000	0.080	7542.00	1221.88	1015.22	1456.55	39°56'49.944"N	104°47'48.822"W	0.00	
9116.00†	90.000	0.080	7542.00	1320.77	1115.22	1456.69	39°56'50.933"N	104°47'48.820"W	0.00	
9216.00†	90.000	0.080	7542.00	1419.67	1215.22	1456.83	39°56'51.921"N	104°47'48.818"W	0.00	
9316.00†	90.000	0.080	7542.00	1518.56	1315.22	1456.97	39°56'52.909"N	104°47'48.817"W	0.00	
9416.00†	90.000	0.080	7542.00	1617.45	1415.22	1457.11	39°56'53.897"N	104°47'48.815"W	0.00	
9516.00†	90.000	0.080	7542.00	1716.35	1515.22	1457.25	39°56'54.886"N	104°47'48.813"W	0.00	
9616.00†	90.000	0.080	7542.00	1815.24	1615.22	1457.39	39°56'55.874"N	104°47'48.811"W	0.00	
9716.00†	90.000	0.080	7542.00	1914.13	1715.22	1457.53	39°56'56.862"N	104°47'48.809"W	0.00	
9816.00†	90.000	0.080	7542.00	2013.03	1815.22	1457.67	39°56'57.850"N	104°47'48.807"W	0.00	
9916.00†	90.000	0.080	7542.00	2111.92	1915.22	1457.81	39°56'58.839"N	104°47'48.805"W	0.00	
10016.00†	90.000	0.080	7542.00	2210.81	2015.21	1457.95	39°56'59.827"N	104°47'48.804"W	0.00	
10116.00†	90.000	0.080	7542.00	2309.71	2115.21	1458.09	39°57'00.815"N	104°47'48.802"W	0.00	
10216.00†	90.000	0.080	7542.00	2408.60	2215.21	1458.23	39°57'01.803"N	104°47'48.800"W	0.00	
10316.00†	90.000	0.080	7542.00	2507.49	2315.21	1458.37	39°57'02.791"N	104°47'48.798"W	0.00	
10416.00†	90.000	0.080	7542.00	2606.39	2415.21	1458.51	39°57'03.780"N	104°47'48.796"W	0.00	
10516.00†	90.000	0.080	7542.00	2705.28	2515.21	1458.65	39°57'04.768"N	104°47'48.794"W	0.00	
10616.00†	90.000	0.080	7542.00	2804.17	2615.21	1458.79	39°57'05.756"N	104°47'48.792"W	0.00	
10716.00†	90.000	0.080	7542.00	2903.07	2715.21	1458.93	39°57'06.744"N	104°47'48.790"W	0.00	
10816.00†	90.000	0.080	7542.00	3001.96	2815.21	1459.07	39°57'07.733"N	104°47'48.789"W	0.00	
10916.00†	90.000	0.080	7542.00	3100.85	2915.21	1459.21	39°57'08.721"N	104°47'48.787"W	0.00	
11016.00†	90.000	0.080	7542.00	3199.75	3015.21	1459.35	39°57'09.709"N	104°47'48.785"W	0.00	
11116.00†	90.000	0.080	7542.00	3298.64	3115.21	1459.49	39°57'10.697"N	104°47'48.783"W	0.00	
11216.00†	90.000	0.080	7542.00	3397.53	3215.21	1459.63	39°57'11.686"N	104°47'48.781"W	0.00	
11316.00†	90.000	0.080	7542.00	3496.43	3315.21	1459.76	39°57'12.674"N	104°47'48.779"W	0.00	
11416.00†	90.000	0.080	7542.00	3595.32	3415.21	1459.90	39°57'13.662"N	104°47'48.777"W	0.00	
11516.00†	90.000	0.080	7542.00	3694.21	3515.21	1460.04	39°57'14.650"N	104°47'48.776"W	0.00	
11616.00†	90.000	0.080	7542.00	3793.11	3615.21	1460.18	39°57'15.639"N	104°47'48.774"W	0.00	
11716.00†	90.000	0.080	7542.00	3892.00	3715.21	1460.32	39°57'16.627"N	104°47'48.772"W	0.00	
11816.00†	90.000	0.080	7542.00	3990.89	3815.21	1460.46	39°57'17.615"N	104°47'48.770"W	0.00	
11916.00†	90.000	0.080	7542.00	4089.79	3915.21	1460.60	39°57'18.603"N	104°47'48.768"W	0.00	
12016.00†	90.000	0.080	7542.00	4188.68	4015.21	1460.74	39°57'19.592"N	104°47'48.766"W	0.00	
12116.00†	90.000	0.080	7542.00	4287.57	4115.21	1460.88	39°57'20.580"N	104°47'48.764"W	0.00	
12216.00†	90.000	0.080	7542.00	4386.46	4215.21	1461.02	39°57'21.568"N	104°47'48.762"W	0.00	



Planned Wellpath Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH DATA (191 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12316.00†	90.000	0.080	7542.00	4485.36	4315.21	1461.16	39°57'22.556"N	104°47'48.761"W	0.00	
12416.00†	90.000	0.080	7542.00	4584.25	4415.21	1461.30	39°57'23.545"N	104°47'48.759"W	0.00	
12516.00†	90.000	0.080	7542.00	4683.14	4515.21	1461.44	39°57'24.533"N	104°47'48.757"W	0.00	
12616.00†	90.000	0.080	7542.00	4782.04	4615.21	1461.58	39°57'25.521"N	104°47'48.755"W	0.00	
12716.00†	90.000	0.080	7542.00	4880.93	4715.21	1461.72	39°57'26.509"N	104°47'48.753"W	0.00	
12816.00†	90.000	0.080	7542.00	4979.82	4815.21	1461.86	39°57'27.497"N	104°47'48.751"W	0.00	
12880.41†	90.000	0.080	7542.00	5043.52	4879.62	1461.95	39°57'28.134"N	104°47'48.750"W	0.00	Niobrara C Chalk (Landing Zone)
12916.00†	90.000	0.080	7542.00	5078.72	4915.21	1462.00	39°57'28.486"N	104°47'48.749"W	0.00	
13016.00†	90.000	0.080	7542.00	5177.61	5015.21	1462.14	39°57'29.474"N	104°47'48.747"W	0.00	
13116.00†	90.000	0.080	7542.00	5276.50	5115.21	1462.28	39°57'30.462"N	104°47'48.746"W	0.00	
13216.00†	90.000	0.080	7542.00	5375.40	5215.21	1462.42	39°57'31.450"N	104°47'48.744"W	0.00	
13316.00†	90.000	0.080	7542.00	5474.29	5315.21	1462.56	39°57'32.439"N	104°47'48.742"W	0.00	
13416.00†	90.000	0.080	7542.00	5573.18	5415.21	1462.70	39°57'33.427"N	104°47'48.740"W	0.00	
13516.00†	90.000	0.080	7542.00	5672.08	5515.21	1462.84	39°57'34.415"N	104°47'48.738"W	0.00	
13616.00†	90.000	0.080	7542.00	5770.97	5615.21	1462.98	39°57'35.403"N	104°47'48.736"W	0.00	
13716.00†	90.000	0.080	7542.00	5869.86	5715.21	1463.11	39°57'36.392"N	104°47'48.734"W	0.00	
13816.00†	90.000	0.080	7542.00	5968.76	5815.21	1463.25	39°57'37.380"N	104°47'48.733"W	0.00	
13916.00†	90.000	0.080	7542.00	6067.65	5915.21	1463.39	39°57'38.368"N	104°47'48.731"W	0.00	
14016.00†	90.000	0.080	7542.00	6166.54	6015.21	1463.53	39°57'39.356"N	104°47'48.729"W	0.00	
14116.00†	90.000	0.080	7542.00	6265.44	6115.21	1463.67	39°57'40.345"N	104°47'48.727"W	0.00	
14216.00†	90.000	0.080	7542.00	6364.33	6215.21	1463.81	39°57'41.333"N	104°47'48.725"W	0.00	
14316.00†	90.000	0.080	7542.00	6463.22	6315.21	1463.95	39°57'42.321"N	104°47'48.723"W	0.00	
14416.00†	90.000	0.080	7542.00	6562.12	6415.21	1464.09	39°57'43.309"N	104°47'48.721"W	0.00	
14516.00†	90.000	0.080	7542.00	6661.01	6515.21	1464.23	39°57'44.298"N	104°47'48.719"W	0.00	
14616.00†	90.000	0.080	7542.00	6759.90	6615.21	1464.37	39°57'45.286"N	104°47'48.718"W	0.00	
14716.00†	90.000	0.080	7542.00	6858.80	6715.21	1464.51	39°57'46.274"N	104°47'48.716"W	0.00	
14816.00†	90.000	0.080	7542.00	6957.69	6815.21	1464.65	39°57'47.262"N	104°47'48.714"W	0.00	
14916.00†	90.000	0.080	7542.00	7056.58	6915.21	1464.79	39°57'48.251"N	104°47'48.712"W	0.00	
15016.00†	90.000	0.080	7542.00	7155.48	7015.21	1464.93	39°57'49.239"N	104°47'48.710"W	0.00	
15116.00†	90.000	0.080	7542.00	7254.37	7115.21	1465.07	39°57'50.227"N	104°47'48.708"W	0.00	
15216.00†	90.000	0.080	7542.00	7353.26	7215.21	1465.21	39°57'51.215"N	104°47'48.706"W	0.00	
15316.00†	90.000	0.080	7542.00	7452.16	7315.21	1465.35	39°57'52.203"N	104°47'48.705"W	0.00	
15416.00†	90.000	0.080	7542.00	7551.05	7415.21	1465.49	39°57'53.192"N	104°47'48.703"W	0.00	
15516.00†	90.000	0.080	7542.00	7649.94	7515.21	1465.63	39°57'54.180"N	104°47'48.701"W	0.00	
15616.00†	90.000	0.080	7542.00	7748.84	7615.21	1465.77	39°57'55.168"N	104°47'48.699"W	0.00	
15716.00†	90.000	0.080	7542.00	7847.73	7715.21	1465.91	39°57'56.156"N	104°47'48.697"W	0.00	
15816.00†	90.000	0.080	7542.00	7946.62	7815.21	1466.05	39°57'57.145"N	104°47'48.695"W	0.00	
15916.00†	90.000	0.080	7542.00	8045.52	7915.21	1466.19	39°57'58.133"N	104°47'48.693"W	0.00	
16016.00†	90.000	0.080	7542.00	8144.41	8015.21	1466.33	39°57'59.121"N	104°47'48.691"W	0.00	
16116.00†	90.000	0.080	7542.00	8243.30	8115.21	1466.47	39°58'00.109"N	104°47'48.690"W	0.00	
16216.00†	90.000	0.080	7542.00	8342.20	8215.21	1466.60	39°58'01.098"N	104°47'48.688"W	0.00	
16316.00†	90.000	0.080	7542.00	8441.09	8315.21	1466.74	39°58'02.086"N	104°47'48.686"W	0.00	
16416.00†	90.000	0.080	7542.00	8539.98	8415.21	1466.88	39°58'03.074"N	104°47'48.684"W	0.00	
16516.00†	90.000	0.080	7542.00	8638.88	8515.21	1467.02	39°58'04.062"N	104°47'48.682"W	0.00	
16616.00†	90.000	0.080	7542.00	8737.77	8615.21	1467.16	39°58'05.051"N	104°47'48.680"W	0.00	



Planned Wellpath Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH DATA (191 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
16716.00†	90.000	0.080	7542.00	8836.66	8715.21	1467.30	39°58'06.039"N	104°47'48.678"W	0.00	
16816.00†	90.000	0.080	7542.00	8935.56	8815.21	1467.44	39°58'07.027"N	104°47'48.676"W	0.00	
16916.00†	90.000	0.080	7542.00	9034.45	8915.21	1467.58	39°58'08.015"N	104°47'48.675"W	0.00	
17016.00†	90.000	0.080	7542.00	9133.34	9015.21	1467.72	39°58'09.004"N	104°47'48.673"W	0.00	
17116.00†	90.000	0.080	7542.00	9232.24	9115.21	1467.86	39°58'09.992"N	104°47'48.671"W	0.00	
17216.00†	90.000	0.080	7542.00	9331.13	9215.21	1468.00	39°58'10.980"N	104°47'48.669"W	0.00	
17316.00†	90.000	0.080	7542.00	9430.02	9315.21	1468.14	39°58'11.968"N	104°47'48.667"W	0.00	
17416.00†	90.000	0.080	7542.00	9528.92	9415.21	1468.28	39°58'12.956"N	104°47'48.665"W	0.00	
17516.00†	90.000	0.080	7542.00	9627.81	9515.21	1468.42	39°58'13.945"N	104°47'48.663"W	0.00	
17616.00†	90.000	0.080	7542.00	9726.70	9615.21	1468.56	39°58'14.933"N	104°47'48.662"W	0.00	
17698.07	90.000	0.080	7542.00 ²	9807.86	9697.28	1468.67	39°58'15.744"N	104°47'48.660"W	0.00	End of Tangent (J)

HOLE & CASING SECTIONS

- Ref Wellbore: BRIGHTON LAKES 20-17-1NCH PWB Ref 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	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	17698.07	16816.07	882.00	7542.00	0.00	0.00	9697.28	1468.67

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	-14.02	3195665.30	1223370.47	39°56'39.912"N	104°48'07.704"W	polygon
SEC.20-T1S-R66W		0.00	0.00	-14.02	3195665.30	1223370.47	39°56'39.912"N	104°48'07.704"W	polygon
2) BRIGHTON LAKES 20-17-1NCH BHL (NIO C CK, 460'FNL& 1964'FEL,SEC.17,REV-1)	17698.07	7542.00	9697.28	1468.67	3197071.58	1233078.82	39°58'15.744"N	104°47'48.660"W	point
1) BRIGHTON LAKES 20-17-1NCH LP (NIO C CK, 460'FSL& 1964'FEL,SEC.20,REV-1)	8062.75	7542.00	61.97	1455.22	3197133.97	1223444.00	39°56'40.524"N	104°47'48.840"W	point

SURVEY PROGRAM -

Ref Wellbore: BRIGHTON LAKES 20-17-1NCH PWB Ref 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



Planned Wellpath Report

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



REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
882.00	0.000	111.246	882.00	Fox Hills (Surface Csg)
4949.10	14.523	111.246	4842.00	Sussex / Shannon
7460.94	32.505	22.359	7262.00	Niobrara A Chalk
7522.22	38.100	18.024	7312.00	Niobrara A Marl
7696.44	54.551	9.983	7432.00	Niobrara B Chalk
7805.98	65.090	6.521	7487.00	Niobrara B Marl
8062.68	89.992	0.082	7542.00	Niobrara C Chalk (Landing Zone)
12880.41	90.000	0.080	7542.00	Niobrara C Chalk (Landing Zone)

~VERSION INFORMATION

VERS. 2.0 : CWLS LOG ASCII STANDARD-VERSION 2.0

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

~WELL INFORMATION

#MNE	UNITS	DATA	DESCRIPTION
STRT	.ft	0.00	:START MD
STOP	.ft	17698.07	:STOP MD
STEP	.ft	0.0	:STEP (non-uniform increment)
NULL	.	-999.99	:NULL
COMP	.	PETROSHARE	:OPERATOR
WELL	.	BRIGHTON LAKES 20-17-1NCH	:WELL
FLD	.	ADAMS COUNTY (NAD83/ TRUE NORTH)	:FIELD
LOC	.	COLORADO	:AREA (aka: Location)
CNTY	.	N/A	:COUNTY
STAT	.	N/A	:STATE
CTRY	.	N/A	:COUNTRY
SRVC	.	Baker Hughes	:CONTRACTOR
DATE	.	02/21/2017	:LOG REV DATE
API	.		:API NUMBER

~OTHER INFORMATION

#Software: wellArchitect(R) Version 5.0

#MNE	UNITS	DATA	DESCRIPTION
WPTYPE	.	PLANNED WELLPATH	:WELLPATH TYPE
FACILITY	.	SEC.20-T01S-R66W	:FACILITY
SLOT	.	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)	:SLOT
WELLBORE	.	BRIGHTON LAKES 20-17-1NCH PWB	:WELLBORE
WELLPATH	.	BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP	:WELLPATH
MDREFPT	.	RIG (16'RKB) (RKB)	:MD REFERENCE POINT
TVDREFPT	.	RIG (16'RKB) (RKB)	:TVD REFERENCE POINT
LCLREFPT	.	SLOT	:LOCAL COORDINATE REFERENCE PT
VSAZIMUTH	.deg	8.61	:VERTICAL SECTION AZIMUTH
VSORIGN	.ft	0.00	:VERTICAL SECTION ORIGIN NORTH
VSORIGE	.ft	0.00	:VERTICAL SECTION ORIGIN EAST

~CURVE (WELLPATH) INFORMATION

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

PETROSHARE_BRIGHTON_LAKES_20-17-1NCH__REV-A.0__NIO_C_CK__PWP_02-22-17.1as

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

~ASCII DATA

0.00	0.00	111.25	0.00	0.00	0.00	0.00	39.9444200	-104.8020900	0.00
16.00	0.00	111.25	16.00	0.00	0.00	0.00	39.9444200	-104.8020900	0.00
116.00	0.00	111.25	116.00	0.00	0.00	0.00	39.9444200	-104.8020900	0.00
216.00	0.00	111.25	216.00	0.00	0.00	0.00	39.9444200	-104.8020900	0.00
316.00	0.00	111.25	316.00	0.00	0.00	0.00	39.9444200	-104.8020900	0.00
416.00	0.00	111.25	416.00	0.00	0.00	0.00	39.9444200	-104.8020900	0.00
516.00	0.00	111.25	516.00	0.00	0.00	0.00	39.9444200	-104.8020900	0.00
616.00	0.00	111.25	616.00	0.00	0.00	0.00	39.9444200	-104.8020900	0.00
716.00	0.00	111.25	716.00	0.00	0.00	0.00	39.9444200	-104.8020900	0.00
816.00	0.00	111.25	816.00	0.00	0.00	0.00	39.9444200	-104.8020900	0.00
916.00	0.00	111.25	916.00	0.00	0.00	0.00	39.9444200	-104.8020900	0.00
1016.00	0.00	111.25	1016.00	0.00	0.00	0.00	39.9444200	-104.8020900	0.00
1116.00	0.00	111.25	1116.00	0.00	0.00	0.00	39.9444200	-104.8020900	0.00
1216.00	0.00	111.25	1216.00	0.00	0.00	0.00	39.9444200	-104.8020900	0.00
1275.00	0.00	111.25	1275.00	0.00	0.00	0.00	39.9444200	-104.8020900	0.00
1316.00	1.23	111.25	1316.00	-0.10	-0.16	0.41	39.9444196	-104.8020885	3.00
1416.00	4.23	111.25	1415.87	-1.14	-1.89	4.85	39.9444148	-104.8020727	3.00
1516.00	7.23	111.25	1515.36	-3.32	-5.50	14.15	39.9444049	-104.8020395	3.00
1616.00	10.23	111.25	1614.19	-6.64	-11.00	28.30	39.9443898	-104.8019891	3.00
1716.00	13.23	111.25	1712.09	-11.09	-18.37	47.24	39.9443696	-104.8019215	3.00
1759.10	14.52	111.25	1753.93	-13.35	-22.11	56.88	39.9443593	-104.8018871	3.00
1816.00	14.52	111.25	1809.01	-16.47	-27.28	70.18	39.9443451	-104.8018397	0.00
1916.00	14.52	111.25	1905.82	-21.95	-36.37	93.55	39.9443202	-104.8017564	0.00
2016.00	14.52	111.25	2002.62	-27.44	-45.46	116.92	39.9442952	-104.8016730	0.00
2116.00	14.52	111.25	2099.43	-32.92	-54.55	140.29	39.9442703	-104.8015896	0.00
2216.00	14.52	111.25	2196.23	-38.41	-63.63	163.67	39.9442453	-104.8015063	0.00
2316.00	14.52	111.25	2293.04	-43.89	-72.72	187.04	39.9442204	-104.8014229	0.00
2416.00	14.52	111.25	2389.84	-49.38	-81.81	210.41	39.9441954	-104.8013396	0.00
2516.00	14.52	111.25	2486.65	-54.86	-90.89	233.78	39.9441705	-104.8012562	0.00
2616.00	14.52	111.25	2583.45	-60.35	-99.98	257.16	39.9441455	-104.8011729	0.00
2716.00	14.52	111.25	2680.26	-65.83	-109.07	280.53	39.9441206	-104.8010895	0.00
2816.00	14.52	111.25	2777.06	-71.32	-118.16	303.90	39.9440956	-104.8010062	0.00
2916.00	14.52	111.25	2873.87	-76.80	-127.24	327.27	39.9440707	-104.8009228	0.00
3016.00	14.52	111.25	2970.67	-82.28	-136.33	350.65	39.9440458	-104.8008394	0.00
3116.00	14.52	111.25	3067.48	-87.77	-145.42	374.02	39.9440208	-104.8007561	0.00
3216.00	14.52	111.25	3164.28	-93.25	-154.50	397.39	39.9439959	-104.8006727	0.00
3316.00	14.52	111.25	3261.09	-98.74	-163.59	420.76	39.9439709	-104.8005894	0.00
3416.00	14.52	111.25	3357.89	-104.22	-172.68	444.14	39.9439460	-104.8005060	0.00
3516.00	14.52	111.25	3454.69	-109.71	-181.76	467.51	39.9439210	-104.8004227	0.00
3616.00	14.52	111.25	3551.50	-115.19	-190.85	490.88	39.9438961	-104.8003393	0.00
3716.00	14.52	111.25	3648.30	-120.68	-199.94	514.25	39.9438711	-104.8002559	0.00
3816.00	14.52	111.25	3745.11	-126.16	-209.03	537.63	39.9438462	-104.8001726	0.00
3916.00	14.52	111.25	3841.91	-131.65	-218.11	561.00	39.9438212	-104.8000892	0.00

PETROSHARE_BRIGHTON_LAKES_20-17-1NCH__REV-A.0__NIO_C_CK__PWP_02-22-17.1as									
4016.00	14.52	111.25	3938.72	-137.13	-227.20	584.37	39.9437963	-104.8000059	0.00
4116.00	14.52	111.25	4035.52	-142.62	-236.29	607.74	39.9437713	-104.7999225	0.00
4216.00	14.52	111.25	4132.33	-148.10	-245.37	631.12	39.9437464	-104.7998392	0.00
4316.00	14.52	111.25	4229.13	-153.59	-254.46	654.49	39.9437214	-104.7997558	0.00
4416.00	14.52	111.25	4325.94	-159.07	-263.55	677.86	39.9436965	-104.7996725	0.00
4516.00	14.52	111.25	4422.74	-164.56	-272.64	701.23	39.9436716	-104.7995891	0.00
4616.00	14.52	111.25	4519.55	-170.04	-281.72	724.61	39.9436466	-104.7995058	0.00
4716.00	14.52	111.25	4616.35	-175.53	-290.81	747.98	39.9436217	-104.7994224	0.00
4816.00	14.52	111.25	4713.16	-181.01	-299.90	771.35	39.9435967	-104.7993390	0.00
4916.00	14.52	111.25	4809.96	-186.49	-308.98	794.72	39.9435718	-104.7992557	0.00
5016.00	14.52	111.25	4906.77	-191.98	-318.07	818.10	39.9435468	-104.7991723	0.00
5116.00	14.52	111.25	5003.57	-197.46	-327.16	841.47	39.9435219	-104.7990890	0.00
5216.00	14.52	111.25	5100.37	-202.95	-336.25	864.84	39.9434969	-104.7990056	0.00
5316.00	14.52	111.25	5197.18	-208.43	-345.33	888.21	39.9434720	-104.7989223	0.00
5416.00	14.52	111.25	5293.98	-213.92	-354.42	911.59	39.9434470	-104.7988389	0.00
5516.00	14.52	111.25	5390.79	-219.40	-363.51	934.96	39.9434221	-104.7987556	0.00
5616.00	14.52	111.25	5487.59	-224.89	-372.59	958.33	39.9433971	-104.7986722	0.00
5716.00	14.52	111.25	5584.40	-230.37	-381.68	981.70	39.9433722	-104.7985888	0.00
5816.00	14.52	111.25	5681.20	-235.86	-390.77	1005.08	39.9433472	-104.7985055	0.00
5916.00	14.52	111.25	5778.01	-241.34	-399.86	1028.45	39.9433223	-104.7984221	0.00
6016.00	14.52	111.25	5874.81	-246.83	-408.94	1051.82	39.9432973	-104.7983388	0.00
6116.00	14.52	111.25	5971.62	-252.31	-418.03	1075.19	39.9432724	-104.7982554	0.00
6216.00	14.52	111.25	6068.42	-257.80	-427.12	1098.57	39.9432474	-104.7981721	0.00
6316.00	14.52	111.25	6165.23	-263.28	-436.20	1121.94	39.9432225	-104.7980887	0.00
6416.00	14.52	111.25	6262.03	-268.77	-445.29	1145.31	39.9431976	-104.7980054	0.00
6516.00	14.52	111.25	6358.84	-274.25	-454.38	1168.68	39.9431726	-104.7979220	0.00
6616.00	14.52	111.25	6455.64	-279.74	-463.46	1192.06	39.9431477	-104.7978387	0.00
6716.00	14.52	111.25	6552.45	-285.22	-472.55	1215.43	39.9431227	-104.7977553	0.00
6816.00	14.52	111.25	6649.25	-290.70	-481.64	1238.80	39.9430978	-104.7976720	0.00
6916.00	14.52	111.25	6746.05	-296.19	-490.73	1262.17	39.9430728	-104.7975886	0.00
7016.00	14.52	111.25	6842.86	-301.67	-499.81	1285.55	39.9430479	-104.7975052	0.00
7110.80	14.52	111.25	6934.63	-306.87	-508.43	1307.71	39.9430242	-104.7974262	0.00
7116.00	14.35	109.28	6939.67	-307.14	-508.88	1308.92	39.9430230	-104.7974219	10.00
7216.00	14.57	68.43	7036.75	-303.10	-508.34	1332.37	39.9430244	-104.7973383	10.00
7316.00	20.37	40.67	7132.25	-281.97	-490.48	1355.47	39.9430735	-104.7972559	10.00
7416.00	28.52	26.47	7223.29	-244.40	-455.82	1377.51	39.9431686	-104.7971773	10.00
7516.00	37.53	18.41	7307.09	-191.53	-405.42	1397.82	39.9433070	-104.7971048	10.00
7616.00	46.89	13.15	7381.10	-124.97	-340.82	1415.79	39.9434843	-104.7970407	10.00
7716.00	56.43	9.31	7443.08	-46.72	-263.97	1430.87	39.9436953	-104.7969869	10.00
7816.00	66.06	6.24	7491.14	40.81	-177.21	1442.60	39.9439334	-104.7969451	10.00
7916.00	75.74	3.60	7523.83	134.98	-83.18	1450.63	39.9441916	-104.7969164	10.00
8016.00	85.46	1.18	7540.15	232.93	15.27	1454.71	39.9444618	-104.7969018	10.00
8062.75	90.00	0.08	7542.00	279.18	61.97	1455.22	39.9445900	-104.7969000	10.00
8116.00	90.00	0.08	7542.00	331.84	115.22	1455.30	39.9447362	-104.7968997	0.00
8216.00	90.00	0.08	7542.00	430.73	215.22	1455.44	39.9450107	-104.7968992	0.00
8316.00	90.00	0.08	7542.00	529.63	315.22	1455.58	39.9452852	-104.7968987	0.00
8416.00	90.00	0.08	7542.00	628.52	415.22	1455.72	39.9455597	-104.7968982	0.00
8516.00	90.00	0.08	7542.00	727.41	515.22	1455.86	39.9458342	-104.7968976	0.00

PETROSHARE_BRIGHTON_LAKES_20-17-1NCH__REV-A.0__NIO_C_CK__PWP_02-22-17.las									
8616.00	90.00	0.08	7542.00	826.31	615.22	1456.00	39.9461087	-104.7968971	0.00
8716.00	90.00	0.08	7542.00	925.20	715.22	1456.14	39.9463832	-104.7968966	0.00
8816.00	90.00	0.08	7542.00	1024.09	815.22	1456.27	39.9466577	-104.7968961	0.00
8916.00	90.00	0.08	7542.00	1122.99	915.22	1456.41	39.9469323	-104.7968956	0.00
9016.00	90.00	0.08	7542.00	1221.88	1015.22	1456.55	39.9472068	-104.7968951	0.00
9116.00	90.00	0.08	7542.00	1320.77	1115.22	1456.69	39.9474813	-104.7968945	0.00
9216.00	90.00	0.08	7542.00	1419.67	1215.22	1456.83	39.9477558	-104.7968940	0.00
9316.00	90.00	0.08	7542.00	1518.56	1315.22	1456.97	39.9480303	-104.7968935	0.00
9416.00	90.00	0.08	7542.00	1617.45	1415.22	1457.11	39.9483048	-104.7968930	0.00
9516.00	90.00	0.08	7542.00	1716.35	1515.22	1457.25	39.9485793	-104.7968925	0.00
9616.00	90.00	0.08	7542.00	1815.24	1615.22	1457.39	39.9488538	-104.7968919	0.00
9716.00	90.00	0.08	7542.00	1914.13	1715.22	1457.53	39.9491283	-104.7968914	0.00
9816.00	90.00	0.08	7542.00	2013.03	1815.22	1457.67	39.9494029	-104.7968909	0.00
9916.00	90.00	0.08	7542.00	2111.92	1915.22	1457.81	39.9496774	-104.7968904	0.00
10016.00	90.00	0.08	7542.00	2210.81	2015.21	1457.95	39.9499519	-104.7968899	0.00
10116.00	90.00	0.08	7542.00	2309.71	2115.21	1458.09	39.9502264	-104.7968893	0.00
10216.00	90.00	0.08	7542.00	2408.60	2215.21	1458.23	39.9505009	-104.7968888	0.00
10316.00	90.00	0.08	7542.00	2507.49	2315.21	1458.37	39.9507754	-104.7968883	0.00
10416.00	90.00	0.08	7542.00	2606.39	2415.21	1458.51	39.9510499	-104.7968878	0.00
10516.00	90.00	0.08	7542.00	2705.28	2515.21	1458.65	39.9513244	-104.7968873	0.00
10616.00	90.00	0.08	7542.00	2804.17	2615.21	1458.79	39.9515989	-104.7968868	0.00
10716.00	90.00	0.08	7542.00	2903.07	2715.21	1458.93	39.9518735	-104.7968862	0.00
10816.00	90.00	0.08	7542.00	3001.96	2815.21	1459.07	39.9521480	-104.7968857	0.00
10916.00	90.00	0.08	7542.00	3100.85	2915.21	1459.21	39.9524225	-104.7968852	0.00
11016.00	90.00	0.08	7542.00	3199.75	3015.21	1459.35	39.9526970	-104.7968847	0.00
11116.00	90.00	0.08	7542.00	3298.64	3115.21	1459.49	39.9529715	-104.7968842	0.00
11216.00	90.00	0.08	7542.00	3397.53	3215.21	1459.63	39.9532460	-104.7968836	0.00
11316.00	90.00	0.08	7542.00	3496.43	3315.21	1459.76	39.9535205	-104.7968831	0.00
11416.00	90.00	0.08	7542.00	3595.32	3415.21	1459.90	39.9537950	-104.7968826	0.00
11516.00	90.00	0.08	7542.00	3694.21	3515.21	1460.04	39.9540695	-104.7968821	0.00
11616.00	90.00	0.08	7542.00	3793.11	3615.21	1460.18	39.9543441	-104.7968816	0.00
11716.00	90.00	0.08	7542.00	3892.00	3715.21	1460.32	39.9546186	-104.7968810	0.00
11816.00	90.00	0.08	7542.00	3990.89	3815.21	1460.46	39.9548931	-104.7968805	0.00
11916.00	90.00	0.08	7542.00	4089.79	3915.21	1460.60	39.9551676	-104.7968800	0.00
12016.00	90.00	0.08	7542.00	4188.68	4015.21	1460.74	39.9554421	-104.7968795	0.00
12116.00	90.00	0.08	7542.00	4287.57	4115.21	1460.88	39.9557166	-104.7968790	0.00
12216.00	90.00	0.08	7542.00	4386.46	4215.21	1461.02	39.9559911	-104.7968785	0.00
12316.00	90.00	0.08	7542.00	4485.36	4315.21	1461.16	39.9562656	-104.7968779	0.00
12416.00	90.00	0.08	7542.00	4584.25	4415.21	1461.30	39.9565401	-104.7968774	0.00
12516.00	90.00	0.08	7542.00	4683.14	4515.21	1461.44	39.9568147	-104.7968769	0.00
12616.00	90.00	0.08	7542.00	4782.04	4615.21	1461.58	39.9570892	-104.7968764	0.00
12716.00	90.00	0.08	7542.00	4880.93	4715.21	1461.72	39.9573637	-104.7968759	0.00
12816.00	90.00	0.08	7542.00	4979.82	4815.21	1461.86	39.9576382	-104.7968753	0.00
12916.00	90.00	0.08	7542.00	5078.72	4915.21	1462.00	39.9579127	-104.7968748	0.00
13016.00	90.00	0.08	7542.00	5177.61	5015.21	1462.14	39.9581872	-104.7968743	0.00
13116.00	90.00	0.08	7542.00	5276.50	5115.21	1462.28	39.9584617	-104.7968738	0.00
13216.00	90.00	0.08	7542.00	5375.40	5215.21	1462.42	39.9587362	-104.7968733	0.00
13316.00	90.00	0.08	7542.00	5474.29	5315.21	1462.56	39.9590107	-104.7968727	0.00

PETROSHARE_BRIGHTON_LAKES_20-17-1NCH__REV-A.0__NIO_C_CK__PWP_02-22-17.las									
13416.00	90.00	0.08	7542.00	5573.18	5415.21	1462.70	39.9592853	-104.7968722	0.00
13516.00	90.00	0.08	7542.00	5672.08	5515.21	1462.84	39.9595598	-104.7968717	0.00
13616.00	90.00	0.08	7542.00	5770.97	5615.21	1462.98	39.9598343	-104.7968712	0.00
13716.00	90.00	0.08	7542.00	5869.86	5715.21	1463.11	39.9601088	-104.7968707	0.00
13816.00	90.00	0.08	7542.00	5968.76	5815.21	1463.25	39.9603833	-104.7968701	0.00
13916.00	90.00	0.08	7542.00	6067.65	5915.21	1463.39	39.9606578	-104.7968696	0.00
14016.00	90.00	0.08	7542.00	6166.54	6015.21	1463.53	39.9609323	-104.7968691	0.00
14116.00	90.00	0.08	7542.00	6265.44	6115.21	1463.67	39.9612068	-104.7968686	0.00
14216.00	90.00	0.08	7542.00	6364.33	6215.21	1463.81	39.9614813	-104.7968681	0.00
14316.00	90.00	0.08	7542.00	6463.22	6315.21	1463.95	39.9617559	-104.7968676	0.00
14416.00	90.00	0.08	7542.00	6562.12	6415.21	1464.09	39.9620304	-104.7968670	0.00
14516.00	90.00	0.08	7542.00	6661.01	6515.21	1464.23	39.9623049	-104.7968665	0.00
14616.00	90.00	0.08	7542.00	6759.90	6615.21	1464.37	39.9625794	-104.7968660	0.00
14716.00	90.00	0.08	7542.00	6858.80	6715.21	1464.51	39.9628539	-104.7968655	0.00
14816.00	90.00	0.08	7542.00	6957.69	6815.21	1464.65	39.9631284	-104.7968650	0.00
14916.00	90.00	0.08	7542.00	7056.58	6915.21	1464.79	39.9634029	-104.7968644	0.00
15016.00	90.00	0.08	7542.00	7155.48	7015.21	1464.93	39.9636774	-104.7968639	0.00
15116.00	90.00	0.08	7542.00	7254.37	7115.21	1465.07	39.9639519	-104.7968634	0.00
15216.00	90.00	0.08	7542.00	7353.26	7215.21	1465.21	39.9642265	-104.7968629	0.00
15316.00	90.00	0.08	7542.00	7452.16	7315.21	1465.35	39.9645010	-104.7968624	0.00
15416.00	90.00	0.08	7542.00	7551.05	7415.21	1465.49	39.9647755	-104.7968618	0.00
15516.00	90.00	0.08	7542.00	7649.94	7515.21	1465.63	39.9650500	-104.7968613	0.00
15616.00	90.00	0.08	7542.00	7748.84	7615.21	1465.77	39.9653245	-104.7968608	0.00
15716.00	90.00	0.08	7542.00	7847.73	7715.21	1465.91	39.9655990	-104.7968603	0.00
15816.00	90.00	0.08	7542.00	7946.62	7815.21	1466.05	39.9658735	-104.7968598	0.00
15916.00	90.00	0.08	7542.00	8045.52	7915.21	1466.19	39.9661480	-104.7968593	0.00
16016.00	90.00	0.08	7542.00	8144.41	8015.21	1466.33	39.9664225	-104.7968587	0.00
16116.00	90.00	0.08	7542.00	8243.30	8115.21	1466.47	39.9666970	-104.7968582	0.00
16216.00	90.00	0.08	7542.00	8342.20	8215.21	1466.60	39.9669716	-104.7968577	0.00
16316.00	90.00	0.08	7542.00	8441.09	8315.21	1466.74	39.9672461	-104.7968572	0.00
16416.00	90.00	0.08	7542.00	8539.98	8415.21	1466.88	39.9675206	-104.7968567	0.00
16516.00	90.00	0.08	7542.00	8638.88	8515.21	1467.02	39.9677951	-104.7968561	0.00
16616.00	90.00	0.08	7542.00	8737.77	8615.21	1467.16	39.9680696	-104.7968556	0.00
16716.00	90.00	0.08	7542.00	8836.66	8715.21	1467.30	39.9683441	-104.7968551	0.00
16816.00	90.00	0.08	7542.00	8935.56	8815.21	1467.44	39.9686186	-104.7968546	0.00
16916.00	90.00	0.08	7542.00	9034.45	8915.21	1467.58	39.9688931	-104.7968541	0.00
17016.00	90.00	0.08	7542.00	9133.34	9015.21	1467.72	39.9691676	-104.7968535	0.00
17116.00	90.00	0.08	7542.00	9232.24	9115.21	1467.86	39.9694422	-104.7968530	0.00
17216.00	90.00	0.08	7542.00	9331.13	9215.21	1468.00	39.9697167	-104.7968525	0.00
17316.00	90.00	0.08	7542.00	9430.02	9315.21	1468.14	39.9699912	-104.7968520	0.00
17416.00	90.00	0.08	7542.00	9528.92	9415.21	1468.28	39.9702657	-104.7968515	0.00
17516.00	90.00	0.08	7542.00	9627.81	9515.21	1468.42	39.9705402	-104.7968509	0.00
17616.00	90.00	0.08	7542.00	9726.70	9615.21	1468.56	39.9708147	-104.7968504	0.00
17698.07	90.00	0.08	7542.00	9807.86	9697.28	1468.67	39.9710400	-104.7968500	0.00

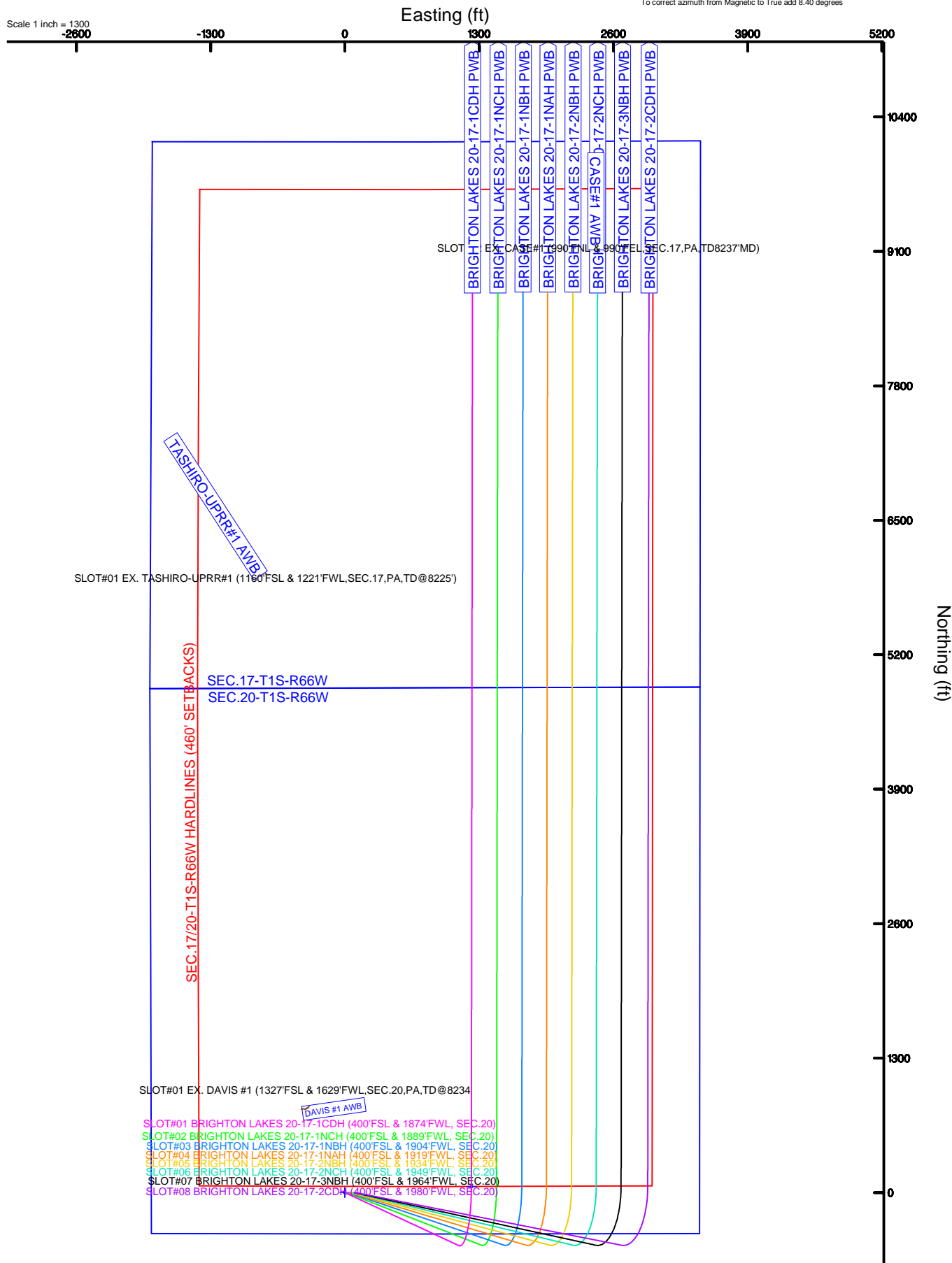
PETROSHARE



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

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

To correct azimuth from Magnetic to True add 8.40 degrees

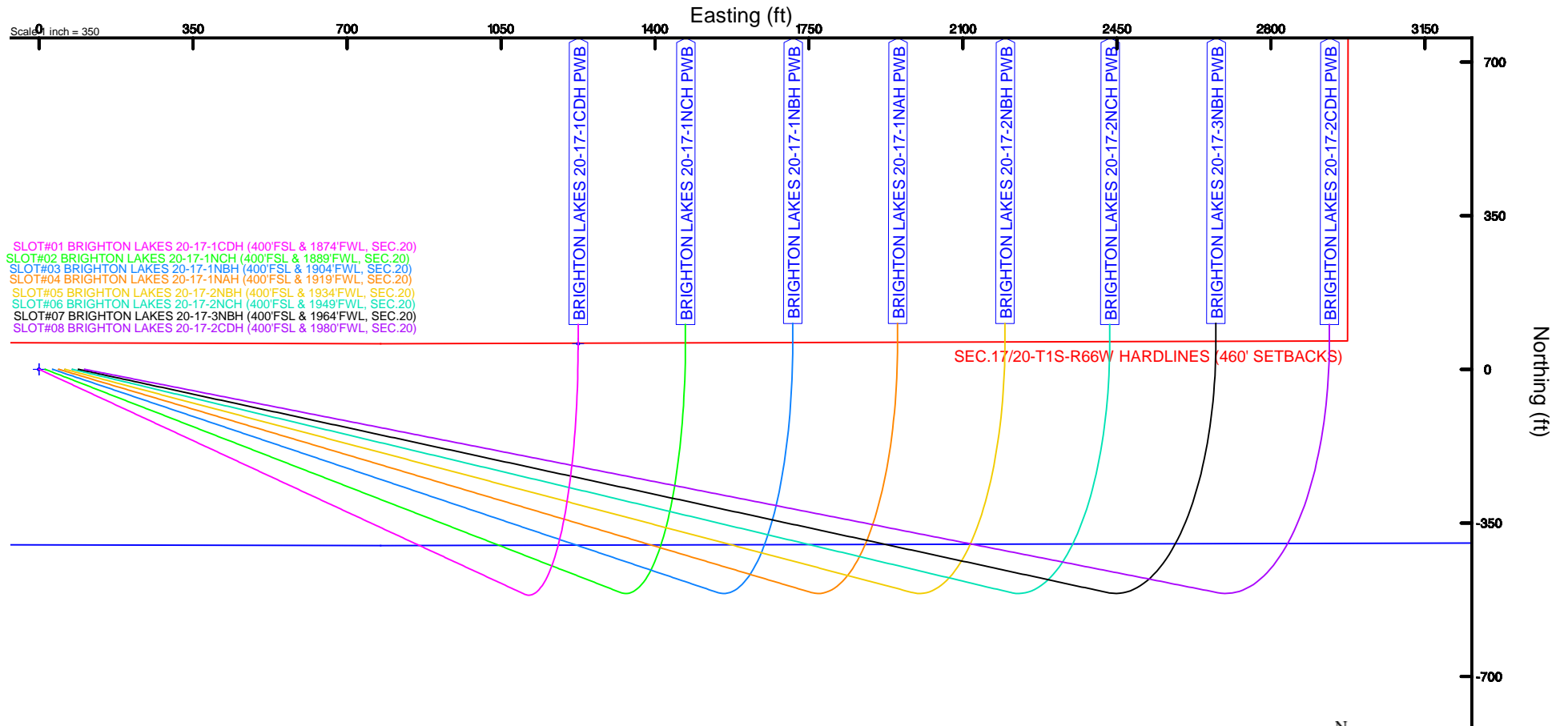


PETROSHARE

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



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



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



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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 3:45:14 PM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/BRIGHTON_LAKES_20-17-1NCH_REV-A.0_NIO_C_CK_PWP_CR.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	14.02	3195679.32	1223370.58	39°56'39.912"N	104°48'07.524"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#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'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 20-17-1NCH (REV-A.0, NIO C CK) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

HOLE & CASING SECTIONS - Ref Wellbore: BRIGHTON LAKES 20-17-1NCH PWB Ref 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	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	17698.07	16816.07	882.00	7542.00	0.00	0.00	9697.28	1468.67

SURVEY PROGRAM - Ref Wellbore: BRIGHTON LAKES 20-17-1NCH PWB Ref 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

CALCULATION RANGE & CUTOFF

From: 16.00ft MD	To: 17698.07ft MD	C-C Cutoff: 1000.00 ft
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OFFSET WELL CLEARANCE SUMMARY (10 Offset Wellpaths selected) Ratios are calculated in Closest Approach plane

Offset Facility	Offset Slot	Offset Well	Offset Wellbore	Offset Wellpath	C-C Clearance Distance			ACR Separation Ratio			
					Ref MD [ft]	Min C-C Clear Dist [ft]	Diverging from MD [ft]	Ref MD of Min Ratio [ft]	Min Ratio	Min Ratio Dvrg from [ft]	ACR Status
SEC.20-T01S-R66W	SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20)	BRIGHTON LAKES 20-17-1NBH	BRIGHTON LAKES 20-17-1NBH PWB	BRIGHTON LAKES 20-17-1NBH (NIO B CK, REV-A.0) PWP	16.00	16.82	17698.07	17698.07	0.44	17698.07	FAIL
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	14.02	1275.00	17698.07	0.54	17698.07	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	30.84	17698.07	17698.07	0.98	17698.07	FAIL
SEC.20-T01S-R66W	SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)	BRIGHTON LAKES 20-17-2NBH	BRIGHTON LAKES 20-17-2NBH PWB	BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP	16.00	44.86	17698.07	17698.07	1.17	17698.07	PASS
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	61.69	17698.07	17698.07	1.54	17698.07	PASS
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	75.71	17698.07	17698.07	1.93	17698.07	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	89.72	17698.07	17698.07	2.36	17698.07	PASS
SEC.17-T01S-R66W	SLOT#02 EX. CASE#1 (990'FNL & 990'FEL, SEC.17, PA, TD@8237MD)	CASE#1	CASE#1 AWB	CASE#1 AWP	17116.00	947.19	17116.00	17216.00	2.85	17216.00	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	13964.44	2293.07	13964.44	14136.69	9.93	14136.69	PASS
SEC.20-T01S-R66W	SLOT#01 EX. DAVIS #1 (1327'FSL & 1629'FWL, SEC.20, PA, TD@8234)	DAVIS #1	DAVIS #1 AWB	DAVIS #1 AWP	1065.38	900.83	8816.00	1345.75	18.12	9016.00	PASS



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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	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	17.06	PASS	
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	16.82	90.00	16.82	2.47	10.53	PASS	
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	16.82	90.00	16.82	3.08	7.51	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	4.31	4.74	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	6.25	2.91	PASS	
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	16.82	90.00	16.82	6.39	2.83	PASS	
1116.00†	1116.00	0.00	0.00	1116.00	1116.00	0.00	16.82	90.00	16.82	6.72	2.68	PASS	
1216.00†	1216.00	0.00	0.00	1216.00	1216.00	0.00	16.82	90.00	16.82	7.19	2.48	PASS	
1275.00	1275.00	0.00	0.00	1274.57	1274.57	-0.21	17.43	90.67	17.44	7.62	2.42	PASS	
1316.00†	1316.00	-0.16	0.41	1315.20	1315.16	-0.68	18.84	-19.62	18.46	7.95	2.45	PASS	
1416.00†	1415.87	-1.89	4.85	1414.18	1413.87	-2.99	25.70	-18.15	20.97	9.49	2.31	PASS	
1516.00†	1515.36	-5.50	14.15	1513.04	1511.95	-6.91	37.37	-17.58	23.51	11.44	2.12	PASS	
1616.00†	1614.19	-11.00	28.30	1611.77	1609.13	-12.44	53.82	-17.66	26.05	13.15	2.04	PASS	
1716.00†	1712.09	-18.37	47.24	1710.38	1705.17	-19.56	74.97	-18.21	28.60	14.71	1.99	PASS	
1759.10	1753.93	-22.11	56.88	1752.84	1746.14	-23.11	85.52	-18.56	29.70	15.24	1.99	PASS	
1816.00†	1809.01	-27.28	70.18	1809.30	1800.29	-28.21	100.67	-18.75	31.73	15.76	2.06	PASS	
1916.00†	1905.82	-36.37	93.55	1909.22	1896.03	-37.33	127.78	-18.88	35.61	16.56	2.20	PASS	
2016.00†	2002.62	-45.46	116.92	2009.15	1991.78	-46.45	154.89	-18.98	39.50	17.43	2.32	PASS	
2116.00†	2099.43	-54.55	140.29	2109.07	2087.52	-55.57	182.01	-19.07	43.39	18.34	2.42	PASS	
2216.00†	2196.23	-63.63	163.67	2208.99	2183.26	-64.69	209.12	-19.14	47.28	19.33	2.50	PASS	
2316.00†	2293.04	-72.72	187.04	2308.92	2279.00	-73.81	236.23	-19.20	51.17	20.35	2.57	PASS	
2416.00†	2389.84	-81.81	210.41	2408.84	2374.75	-82.93	263.34	-19.25	55.05	21.40	2.63	PASS	
2516.00†	2486.65	-90.89	233.78	2508.77	2470.49	-92.05	290.46	-19.29	58.94	22.48	2.68	PASS	
2616.00†	2583.45	-99.98	257.16	2608.69	2566.23	-101.17	317.57	-19.33	62.83	23.58	2.72	PASS	
2716.00†	2680.26	-109.07	280.53	2708.62	2661.97	-110.29	344.68	-19.37	66.72	24.71	2.75	PASS	
2816.00†	2777.06	-118.16	303.90	2808.54	2757.72	-119.41	371.79	-19.40	70.60	25.86	2.78	PASS	
2916.00†	2873.87	-127.24	327.27	2908.47	2853.46	-128.53	398.90	-19.42	74.49	27.02	2.80	PASS	
3016.00†	2970.67	-136.33	350.65	3008.39	2949.20	-137.65	426.02	-19.45	78.38	28.20	2.83	PASS	
3116.00†	3067.48	-145.42	374.02	3108.31	3044.94	-146.77	453.13	-19.47	82.27	29.39	2.84	PASS	
3216.00†	3164.28	-154.50	397.39	3208.24	3140.69	-155.90	480.24	-19.49	86.16	30.59	2.86	PASS	
3316.00†	3261.09	-163.59	420.76	3308.16	3236.43	-165.02	507.35	-19.51	90.04	31.81	2.87	PASS	
3416.00†	3357.89	-172.68	444.14	3408.09	3332.17	-174.14	534.47	-19.53	93.93	33.03	2.88	PASS	
3516.00†	3454.69	-181.76	467.51	3508.01	3427.91	-183.26	561.58	-19.54	97.82	34.25	2.89	PASS	
3616.00†	3551.50	-190.85	490.88	3607.94	3523.66	-192.38	588.69	-19.56	101.71	35.49	2.90	PASS	
3716.00†	3648.30	-199.94	514.25	3707.86	3619.40	-201.50	615.80	-19.57	105.60	36.73	2.91	PASS	
3816.00†	3745.11	-209.03	537.63	3807.78	3715.14	-210.62	642.92	-19.58	109.48	37.98	2.92	PASS	
3916.00†	3841.91	-218.11	561.00	3907.71	3810.88	-219.74	670.03	-19.60	113.37	39.23	2.92	PASS	
4016.00†	3938.72	-227.20	584.37	4007.63	3906.63	-228.86	697.14	-19.61	117.26	40.49	2.93	PASS	
4116.00†	4035.52	-236.29	607.74	4107.56	4002.37	-237.98	724.25	-19.62	121.15	41.75	2.93	PASS	
4216.00†	4132.33	-245.37	631.12	4207.48	4098.11	-247.10	751.37	-19.63	125.04	43.02	2.94	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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†	4229.13	-254.46	654.49	4307.41	4193.85	-256.22	778.48	-19.64	128.92	44.29	2.94	PASS	
4416.00†	4325.94	-263.55	677.86	4407.33	4289.60	-265.34	805.59	-19.64	132.81	45.56	2.95	PASS	
4516.00†	4422.74	-272.64	701.23	4507.26	4385.34	-274.46	832.70	-19.65	136.70	46.83	2.95	PASS	
4616.00†	4519.55	-281.72	724.61	4607.18	4481.08	-283.59	859.82	-19.66	140.59	48.11	2.95	PASS	
4716.00†	4616.35	-290.81	747.98	4707.10	4576.82	-292.71	886.93	-19.67	144.47	49.39	2.95	PASS	
4816.00†	4713.16	-299.90	771.35	4807.03	4672.57	-301.83	914.04	-19.67	148.36	50.67	2.96	PASS	
4916.00†	4809.96	-308.98	794.72	4906.95	4768.31	-310.95	941.15	-19.68	152.25	51.96	2.96	PASS	
5016.00†	4906.77	-318.07	818.10	5006.88	4864.05	-320.07	968.27	-19.69	156.14	53.25	2.96	PASS	
5116.00†	5003.57	-327.16	841.47	5106.80	4959.79	-329.19	995.38	-19.69	160.03	54.53	2.96	PASS	
5216.00†	5100.37	-336.25	864.84	5206.73	5055.53	-338.31	1022.49	-19.70	163.91	55.82	2.96	PASS	
5316.00†	5197.18	-345.33	888.21	5306.65	5151.28	-347.43	1049.60	-19.70	167.80	57.12	2.96	PASS	
5416.00†	5293.98	-354.42	911.59	5406.57	5247.02	-356.55	1076.72	-19.71	171.69	58.41	2.96	PASS	
5516.00†	5390.79	-363.51	934.96	5506.50	5342.76	-365.67	1103.83	-19.71	175.58	59.70	2.96	PASS	
5616.00†	5487.59	-372.59	958.33	5606.42	5438.50	-374.79	1130.94	-19.72	179.47	61.00	2.96	PASS	
5716.00†	5584.40	-381.68	981.70	5706.35	5534.25	-383.91	1158.05	-19.72	183.35	62.30	2.97	PASS	
5816.00†	5681.20	-390.77	1005.08	5806.27	5629.99	-393.03	1185.17	-19.73	187.24	63.60	2.97	PASS	
5916.00†	5778.01	-399.86	1028.45	5906.20	5725.73	-402.15	1212.28	-19.73	191.13	64.89	2.97	PASS	
6016.00†	5874.81	-408.94	1051.82	6006.12	5821.47	-411.28	1239.39	-19.73	195.02	66.20	2.97	PASS	
6116.00†	5971.62	-418.03	1075.19	6106.05	5917.22	-420.40	1266.50	-19.74	198.91	67.50	2.97	PASS	
6216.00†	6068.42	-427.12	1098.57	6205.97	6012.96	-429.52	1293.62	-19.74	202.79	68.80	2.97	PASS	
6316.00†	6165.23	-436.20	1121.94	6305.89	6108.70	-438.64	1320.73	-19.74	206.68	70.10	2.97	PASS	
6416.00†	6262.03	-445.29	1145.31	6405.82	6204.44	-447.76	1347.84	-19.75	210.57	71.41	2.97	PASS	
6516.00†	6358.84	-454.38	1168.68	6505.74	6300.19	-456.88	1374.95	-19.75	214.46	72.71	2.97	PASS	
6616.00†	6455.64	-463.46	1192.06	6605.67	6395.93	-466.00	1402.07	-19.75	218.35	74.01	2.97	PASS	
6716.00†	6552.45	-472.55	1215.43	6705.59	6491.67	-475.12	1429.18	-19.76	222.23	75.32	2.97	PASS	
6816.00†	6649.25	-481.64	1238.80	6805.52	6587.41	-484.24	1456.29	-19.76	226.12	76.63	2.97	PASS	
6916.00†	6746.05	-490.73	1262.17	6905.44	6683.16	-493.36	1483.40	-19.76	230.01	77.93	2.97	PASS	
7016.00†	6842.86	-499.81	1285.55	7005.37	6778.90	-502.48	1510.52	-19.76	233.90	79.24	2.97	PASS	
7110.80	6934.63	-508.43	1307.71	7100.20	6869.82	-510.33	1536.26	-19.96	237.58	80.59	2.97	PASS	
7116.00†	6939.67	-508.88	1308.92	7105.39	6874.82	-510.51	1537.68	-18.15	237.78	80.70	2.96	PASS	
7216.00†	7036.75	-508.34	1332.37	7204.95	6970.32	-504.78	1564.75	19.88	241.71	82.48	2.95	PASS	
7316.00†	7132.25	-490.48	1355.47	7303.64	7062.63	-482.26	1590.93	44.88	245.67	83.75	2.95	PASS	
7416.00†	7223.29	-455.82	1377.51	7401.51	7149.17	-444.00	1615.50	56.43	249.54	84.30	2.98	PASS	
7516.00†	7307.09	-405.42	1397.82	7498.65	7227.62	-391.45	1637.80	61.94	253.18	84.20	3.02	PASS	
7616.00†	7381.10	-340.82	1415.79	7595.17	7296.01	-326.35	1657.26	64.76	256.43	83.71	3.08	PASS	
7716.00†	7443.08	-263.97	1430.87	7691.16	7352.65	-250.69	1673.42	66.27	259.19	83.07	3.14	PASS	
7816.00†	7491.14	-177.21	1442.60	7786.74	7396.20	-166.65	1685.87	67.08	261.35	82.59	3.18	PASS	
7916.00†	7523.83	-83.18	1450.63	7882.04	7425.65	-76.53	1694.34	67.50	262.82	82.50	3.20	PASS	
8016.00†	7540.15	15.27	1454.71	7977.16	7440.32	17.25	1698.62	67.69	263.56	82.99	3.19	PASS	
8062.75	7542.00	61.97	1455.22	8021.61	7442.00	61.65	1699.16	67.71	263.64	83.42	3.18	PASS	
8116.00†	7542.00	115.22	1455.30	8074.84	7442.00	114.88	1699.24	67.71	263.64	83.98	3.16	PASS	
8216.00†	7542.00	215.22	1455.44	8174.84	7442.00	214.88	1699.37	67.71	263.64	84.40	3.10	PASS	
8316.00†	7542.00	315.22	1455.58	8274.84	7442.00	314.88	1699.51	67.71	263.64	87.27	3.04	PASS	
8416.00†	7542.00	415.22	1455.72	8374.84	7442.00	414.88	1699.65	67.71	263.64	89.50	2.96	PASS	
8516.00†	7542.00	515.22	1455.86	8474.84	7442.00	514.88	1699.79	67.71	263.64	94.61	2.80	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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†	7542.00	615.22	1456.00	8574.84	7442.00	614.88	1699.93	67.71	263.63	94.93	2.79	PASS	
8716.00†	7542.00	715.22	1456.14	8674.84	7442.00	714.88	1700.07	67.71	263.63	98.08	2.70	PASS	
8816.00†	7542.00	815.22	1456.27	8774.84	7442.00	814.88	1700.21	67.71	263.63	101.48	2.61	PASS	
8916.00†	7542.00	915.22	1456.41	8874.84	7442.00	914.88	1700.34	67.71	263.63	105.10	2.52	PASS	
9016.00†	7542.00	1015.22	1456.55	8974.84	7442.00	1014.88	1700.48	67.71	263.63	108.93	2.43	PASS	
9116.00†	7542.00	1115.22	1456.69	9074.84	7442.00	1114.88	1700.62	67.71	263.63	112.95	2.34	PASS	
9216.00†	7542.00	1215.22	1456.83	9174.84	7442.00	1214.88	1700.76	67.71	263.63	117.13	2.26	PASS	
9316.00†	7542.00	1315.22	1456.97	9274.84	7442.00	1314.88	1700.90	67.71	263.63	121.46	2.18	PASS	
9416.00†	7542.00	1415.22	1457.11	9374.84	7442.00	1414.88	1701.04	67.71	263.63	125.93	2.10	PASS	
9516.00†	7542.00	1515.22	1457.25	9474.84	7442.00	1514.88	1701.18	67.71	263.63	130.61	2.03	PASS	
9616.00†	7542.00	1615.22	1457.39	9574.84	7442.00	1614.88	1701.31	67.71	263.63	135.20	1.95	PASS	
9716.00†	7542.00	1715.22	1457.53	9674.84	7442.00	1714.88	1701.45	67.71	263.62	139.98	1.89	PASS	
9816.00†	7542.00	1815.22	1457.67	9774.84	7442.00	1814.88	1701.59	67.71	263.62	144.85	1.82	PASS	
9916.00†	7542.00	1915.22	1457.81	9874.84	7442.00	1914.88	1701.73	67.71	263.62	149.80	1.76	PASS	
10016.00†	7542.00	2015.21	1457.95	9974.84	7442.00	2014.88	1701.87	67.71	263.62	154.82	1.71	PASS	
10116.00†	7542.00	2115.21	1458.09	10074.84	7442.00	2114.88	1702.01	67.71	263.62	159.90	1.65	PASS	
10216.00†	7542.00	2215.21	1458.23	10174.84	7442.00	2214.88	1702.15	67.71	263.62	165.04	1.60	PASS	
10316.00†	7542.00	2315.21	1458.37	10274.84	7442.00	2314.88	1702.28	67.71	263.62	170.23	1.55	PASS	
10416.00†	7542.00	2415.21	1458.51	10374.84	7442.00	2414.88	1702.42	67.71	263.62	175.47	1.50	PASS	
10516.00†	7542.00	2515.21	1458.65	10474.84	7442.00	2514.88	1702.56	67.71	263.62	180.76	1.46	PASS	
10616.00†	7542.00	2615.21	1458.79	10574.84	7442.00	2614.88	1702.70	67.71	263.62	186.08	1.42	PASS	
10716.00†	7542.00	2715.21	1458.93	10674.84	7442.00	2714.88	1702.84	67.71	263.61	191.44	1.38	PASS	
10816.00†	7542.00	2815.21	1459.07	10774.84	7442.00	2814.88	1702.98	67.71	263.61	196.84	1.34	PASS	
10916.00†	7542.00	2915.21	1459.21	10874.84	7442.00	2914.88	1703.12	67.71	263.61	202.27	1.30	PASS	
11016.00†	7542.00	3015.21	1459.35	10974.84	7442.00	3014.88	1703.25	67.71	263.61	207.72	1.27	PASS	
11116.00†	7542.00	3115.21	1459.49	11074.84	7442.00	3114.88	1703.39	67.71	263.61	213.20	1.24	PASS	
11216.00†	7542.00	3215.21	1459.63	11174.84	7442.00	3214.88	1703.53	67.71	263.61	218.70	1.21	PASS	
11316.00†	7542.00	3315.21	1459.76	11274.84	7442.00	3314.88	1703.67	67.71	263.61	224.23	1.18	PASS	
11416.00†	7542.00	3415.21	1459.90	11374.84	7442.00	3414.88	1703.81	67.71	263.61	229.78	1.15	PASS	
11516.00†	7542.00	3515.21	1460.04	11474.84	7442.00	3514.88	1703.95	67.71	263.61	235.35	1.12	PASS	
11616.00†	7542.00	3615.21	1460.18	11574.84	7442.00	3614.88	1704.09	67.71	263.61	240.93	1.09	PASS	
11716.00†	7542.00	3715.21	1460.32	11674.84	7442.00	3714.88	1704.22	67.71	263.61	246.53	1.07	PASS	
11816.00†	7542.00	3815.21	1460.46	11774.84	7442.00	3814.88	1704.36	67.71	263.60	252.15	1.05	PASS	
11916.00†	7542.00	3915.21	1460.60	11874.84	7442.00	3914.88	1704.50	67.71	263.60	257.78	1.02	PASS	
12016.00†	7542.00	4015.21	1460.74	11974.84	7442.00	4014.88	1704.64	67.71	263.60	263.43	1.00	PASS	
12116.00†	7542.00	4115.21	1460.88	12074.84	7442.00	4114.87	1704.78	67.71	263.60	269.09	0.98	FAIL	
12216.00†	7542.00	4215.21	1461.02	12174.84	7442.00	4214.87	1704.92	67.71	263.60	274.76	0.96	FAIL	
12316.00†	7542.00	4315.21	1461.16	12274.84	7442.00	4314.87	1705.06	67.71	263.60	280.44	0.94	FAIL	
12416.00†	7542.00	4415.21	1461.30	12374.84	7442.00	4414.87	1705.19	67.71	263.60	286.14	0.92	FAIL	
12516.00†	7542.00	4515.21	1461.44	12474.84	7442.00	4514.87	1705.33	67.71	263.60	291.84	0.90	FAIL	
12616.00†	7542.00	4615.21	1461.58	12574.84	7442.00	4614.87	1705.47	67.71	263.60	297.55	0.89	FAIL	
12716.00†	7542.00	4715.21	1461.72	12674.84	7442.00	4714.87	1705.61	67.71	263.60	303.27	0.87	FAIL	
12816.00†	7542.00	4815.21	1461.86	12774.84	7442.00	4814.87	1705.75	67.71	263.59	309.00	0.85	FAIL	
12916.00†	7542.00	4915.21	1462.00	12874.84	7442.00	4914.87	1705.89	67.71	263.59	314.74	0.84	FAIL	
13016.00†	7542.00	5015.21	1462.14	12974.84	7442.00	5014.87	1706.03	67.71	263.59	320.49	0.82	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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†	7542.00	5115.21	1462.28	13074.84	7442.00	5114.87	1706.16	67.71	263.59	326.24	0.81	FAIL	
13216.00†	7542.00	5215.21	1462.42	13174.84	7442.00	5214.87	1706.30	67.71	263.59	332.00	0.79	FAIL	
13316.00†	7542.00	5315.21	1462.56	13274.84	7442.00	5314.87	1706.44	67.71	263.59	337.76	0.78	FAIL	
13416.00†	7542.00	5415.21	1462.70	13374.84	7442.00	5414.87	1706.58	67.71	263.59	343.53	0.77	FAIL	
13516.00†	7542.00	5515.21	1462.84	13474.84	7442.00	5514.87	1706.72	67.71	263.59	349.31	0.75	FAIL	
13616.00†	7542.00	5615.21	1462.98	13574.84	7442.00	5614.87	1706.86	67.71	263.59	355.10	0.74	FAIL	
13716.00†	7542.00	5715.21	1463.11	13674.84	7442.00	5714.87	1707.00	67.71	263.59	360.88	0.73	FAIL	
13816.00†	7542.00	5815.21	1463.25	13774.84	7442.00	5814.87	1707.13	67.70	263.59	366.68	0.72	FAIL	
13916.00†	7542.00	5915.21	1463.39	13874.84	7442.00	5914.87	1707.27	67.70	263.58	372.47	0.71	FAIL	
14016.00†	7542.00	6015.21	1463.53	13974.84	7442.00	6014.87	1707.41	67.70	263.58	378.28	0.70	FAIL	
14116.00†	7542.00	6115.21	1463.67	14074.84	7442.00	6114.87	1707.55	67.70	263.58	384.09	0.69	FAIL	
14216.00†	7542.00	6215.21	1463.81	14174.84	7442.00	6214.87	1707.69	67.70	263.58	389.89	0.68	FAIL	
14316.00†	7542.00	6315.21	1463.95	14274.84	7442.00	6314.87	1707.83	67.70	263.58	395.71	0.67	FAIL	
14416.00†	7542.00	6415.21	1464.09	14374.84	7442.00	6414.87	1707.97	67.70	263.58	401.53	0.66	FAIL	
14516.00†	7542.00	6515.21	1464.23	14474.84	7442.00	6514.87	1708.10	67.70	263.58	407.35	0.65	FAIL	
14616.00†	7542.00	6615.21	1464.37	14574.84	7442.00	6614.87	1708.24	67.70	263.58	413.18	0.64	FAIL	
14716.00†	7542.00	6715.21	1464.51	14674.84	7442.00	6714.87	1708.38	67.70	263.58	419.01	0.63	FAIL	
14816.00†	7542.00	6815.21	1464.65	14774.84	7442.00	6814.87	1708.52	67.70	263.58	424.84	0.62	FAIL	
14916.00†	7542.00	6915.21	1464.79	14874.84	7442.00	6914.87	1708.66	67.70	263.57	430.67	0.61	FAIL	
15016.00†	7542.00	7015.21	1464.93	14974.84	7442.00	7014.87	1708.80	67.70	263.57	436.51	0.60	FAIL	
15116.00†	7542.00	7115.21	1465.07	15074.84	7442.00	7114.87	1708.93	67.70	263.57	442.35	0.60	FAIL	
15216.00†	7542.00	7215.21	1465.21	15174.84	7442.00	7214.87	1709.07	67.70	263.57	448.20	0.59	FAIL	
15316.00†	7542.00	7315.21	1465.35	15274.84	7442.00	7314.87	1709.21	67.70	263.57	454.04	0.58	FAIL	
15416.00†	7542.00	7415.21	1465.49	15374.84	7442.00	7414.87	1709.35	67.70	263.57	459.89	0.57	FAIL	
15516.00†	7542.00	7515.21	1465.63	15474.84	7442.00	7514.87	1709.49	67.70	263.57	465.74	0.57	FAIL	
15616.00†	7542.00	7615.21	1465.77	15574.84	7442.00	7614.87	1709.63	67.70	263.57	471.60	0.56	FAIL	
15716.00†	7542.00	7715.21	1465.91	15674.84	7442.00	7714.87	1709.77	67.70	263.57	477.45	0.55	FAIL	
15816.00†	7542.00	7815.21	1466.05	15774.84	7442.00	7814.87	1709.90	67.70	263.57	483.31	0.54	FAIL	
15916.00†	7542.00	7915.21	1466.19	15874.84	7442.00	7914.87	1710.04	67.70	263.57	489.17	0.54	FAIL	
16016.00†	7542.00	8015.21	1466.33	15974.84	7442.00	8014.87	1710.18	67.70	263.56	495.01	0.53	FAIL	
16116.00†	7542.00	8115.21	1466.47	16074.84	7442.00	8114.87	1710.32	67.70	263.56	500.90	0.53	FAIL	
16216.00†	7542.00	8215.21	1466.60	16174.84	7442.00	8214.87	1710.46	67.70	263.56	506.76	0.52	FAIL	
16316.00†	7542.00	8315.21	1466.74	16274.84	7442.00	8314.87	1710.60	67.70	263.56	512.63	0.51	FAIL	
16416.00†	7542.00	8415.21	1466.88	16374.84	7442.00	8414.87	1710.74	67.70	263.56	518.50	0.51	FAIL	
16516.00†	7542.00	8515.21	1467.02	16474.84	7442.00	8514.87	1710.87	67.70	263.56	524.37	0.50	FAIL	
16616.00†	7542.00	8615.21	1467.16	16574.84	7442.00	8614.87	1711.01	67.70	263.56	530.24	0.50	FAIL	
16716.00†	7542.00	8715.21	1467.30	16674.84	7442.00	8714.87	1711.15	67.70	263.56	536.12	0.49	FAIL	
16816.00†	7542.00	8815.21	1467.44	16774.84	7442.00	8814.87	1711.29	67.70	263.56	541.99	0.49	FAIL	
16916.00†	7542.00	8915.21	1467.58	16874.84	7442.00	8914.87	1711.43	67.70	263.56	547.87	0.48	FAIL	
17016.00†	7542.00	9015.21	1467.72	16974.84	7442.00	9014.87	1711.57	67.70	263.55	553.75	0.48	FAIL	
17116.00†	7542.00	9115.21	1467.86	17074.84	7442.00	9114.87	1711.71	67.70	263.55	559.63	0.47	FAIL	
17216.00†	7542.00	9215.21	1468.00	17174.84	7442.00	9214.87	1711.84	67.70	263.55	565.51	0.47	FAIL	
17316.00†	7542.00	9315.21	1468.14	17274.84	7442.00	9314.87	1711.98	67.70	263.55	571.39	0.46	FAIL	
17416.00†	7542.00	9415.21	1468.28	17374.84	7442.00	9414.87	1712.12	67.70	263.55	577.27	0.46	FAIL	
17516.00†	7542.00	9515.21	1468.42	17474.84	7442.00	9514.87	1712.26	67.70	263.55	583.16	0.45	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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†	7542.00	9615.21	1468.56	17574.84	7442.00	9614.87	1712.40	67.70	263.55	589.05	0.45	FAIL	
17698.07	7542.00	9697.28	1468.67	17656.91	7442.00	9696.94	1712.51	67.70	263.55	593.87	0.44	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	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	17661.00	16779.00	882.00	N/A	0.00	10.26	N/A	N/A

SURVEY PROGRAM - Offset Wellbore: 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 20-17-1NCH (REV-A.0, NIO C CK) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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	-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	14.05	PASS	
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-14.02	-90.00	14.02	2.47	8.68	PASS	
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-14.02	-90.00	14.02	3.07	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	4.79	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	4.93	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	6.18	2.50	PASS	
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	-14.02	-90.00	14.02	6.25	2.40	PASS	
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	-14.02	-90.00	14.02	6.39	2.34	PASS	
1116.00†	1116.00	0.00	0.00	1116.00	1116.00	0.00	-14.02	-90.00	14.02	6.72	2.22	PASS	
1216.00†	1216.00	0.00	0.00	1216.00	1216.00	0.00	-14.02	-90.00	14.02	7.19	2.05	PASS	
1275.00	1275.00	0.00	0.00	1275.00	1275.00	0.00	-14.02	-90.00	14.02	7.54	1.95	PASS	
1316.00†	1316.00	-0.16	0.41	1316.00	1316.00	0.00	-14.02	159.38	14.43	7.80	1.93	PASS	
1416.00†	1415.87	-1.89	4.85	1416.66	1416.63	-0.93	-12.02	162.02	16.92	8.89	1.98	PASS	
1516.00†	1515.36	-5.50	14.15	1517.53	1517.20	-4.08	-5.23	163.02	19.52	10.82	1.86	PASS	
1616.00†	1614.19	-11.00	28.30	1618.52	1617.37	-9.48	6.40	162.91	22.18	12.63	1.80	PASS	
1716.00†	1712.09	-18.37	47.24	1719.65	1716.84	-17.11	22.83	162.05	24.90	14.25	1.79	PASS	
1759.10	1753.93	-22.11	56.88	1762.93	1759.14	-20.97	31.15	161.66	26.27	14.71	1.83	PASS	
1816.00†	1809.01	-27.28	70.18	1819.78	1814.68	-26.09	42.17	161.57	28.60	15.16	1.93	PASS	
1916.00†	1905.82	-36.37	93.55	1919.69	1912.29	-35.07	61.52	161.45	32.70	15.98	2.10	PASS	
2016.00†	2002.62	-45.46	116.92	2019.61	2009.90	-44.06	80.88	161.35	36.80	16.86	2.23	PASS	
2116.00†	2099.43	-54.55	140.29	2119.53	2107.51	-53.05	100.23	161.27	40.90	17.79	2.35	PASS	
2216.00†	2196.23	-63.63	163.67	2219.44	2205.12	-62.03	119.59	161.21	44.99	18.76	2.45	PASS	
2316.00†	2293.04	-72.72	187.04	2319.36	2302.73	-71.02	138.94	161.15	49.09	19.77	2.54	PASS	
2416.00†	2389.84	-81.81	210.41	2419.27	2400.34	-80.01	158.30	161.11	53.19	20.80	2.61	PASS	
2516.00†	2486.65	-90.89	233.78	2519.19	2497.95	-88.99	177.66	161.07	57.29	21.87	2.67	PASS	
2616.00†	2583.45	-99.98	257.16	2619.11	2595.56	-97.98	197.01	161.04	61.39	22.96	2.73	PASS	
2716.00†	2680.26	-109.07	280.53	2719.02	2693.17	-106.97	216.37	161.01	65.48	24.06	2.77	PASS	
2816.00†	2777.06	-118.16	303.90	2818.94	2790.78	-115.95	235.72	160.98	69.58	25.19	2.81	PASS	
2916.00†	2873.87	-127.24	327.27	2918.85	2888.39	-124.94	255.08	160.96	73.68	26.33	2.85	PASS	
3016.00†	2970.67	-136.33	350.65	3018.77	2986.00	-133.93	274.43	160.94	77.78	27.48	2.88	PASS	
3116.00†	3067.48	-145.42	374.02	3118.69	3083.62	-142.92	293.79	160.92	81.87	28.64	2.91	PASS	
3216.00†	3164.28	-154.50	397.39	3218.60	3181.23	-151.90	313.15	160.90	85.97	29.81	2.93	PASS	
3316.00†	3261.09	-163.59	420.76	3318.52	3278.84	-160.89	332.50	160.89	90.07	30.99	2.95	PASS	
3416.00†	3357.89	-172.68	444.14	3418.43	3376.45	-169.88	351.86	160.87	94.17	32.17	2.97	PASS	
3516.00†	3454.69	-181.76	467.51	3518.35	3474.06	-178.86	371.21	160.86	98.27	33.37	2.99	PASS	
3616.00†	3551.50	-190.85	490.88	3618.27	3571.67	-187.85	390.57	160.85	102.36	34.57	3.00	PASS	
3716.00†	3648.30	-199.94	514.25	3718.18	3669.28	-196.84	409.92	160.84	106.46	35.77	3.02	PASS	
3816.00†	3745.11	-209.03	537.63	3818.10	3766.89	-205.82	429.28	160.83	110.56	36.98	3.03	PASS	
3916.00†	3841.91	-218.11	561.00	3918.01	3864.50	-214.81	448.64	160.82	114.66	38.20	3.04	PASS	
4016.00†	3938.72	-227.20	584.37	4017.93	3962.11	-223.80	467.99	160.81	118.76	39.42	3.05	PASS	
4116.00†	4035.52	-236.29	607.74	4117.85	4059.72	-232.78	487.35	160.80	122.85	40.64	3.06	PASS	
4216.00†	4132.33	-245.37	631.12	4217.76	4157.33	-241.77	506.70	160.80	126.95	41.87	3.07	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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†	4229.13	-254.46	654.49	4317.68	4254.94	-250.76	526.06	160.79	131.05	43.10	3.08	PASS	
4416.00†	4325.94	-263.55	677.86	4417.59	4352.55	-259.74	545.41	160.78	135.19	44.33	3.08	PASS	
4516.00†	4422.74	-272.64	701.23	4517.51	4450.16	-268.73	564.77	160.78	139.25	45.56	3.09	PASS	
4616.00†	4519.55	-281.72	724.61	4617.43	4547.77	-277.72	584.13	160.77	143.34	46.80	3.09	PASS	
4716.00†	4616.35	-290.81	747.98	4717.34	4645.38	-286.70	603.48	160.76	147.44	48.04	3.10	PASS	
4816.00†	4713.16	-299.90	771.35	4817.26	4742.99	-295.69	622.84	160.76	151.54	49.28	3.11	PASS	
4916.00†	4809.96	-308.98	794.72	4917.17	4840.60	-304.68	642.19	160.75	155.64	50.52	3.11	PASS	
5016.00†	4906.77	-318.07	818.10	5017.09	4938.21	-313.66	661.55	160.75	159.74	51.76	3.11	PASS	
5116.00†	5003.57	-327.16	841.47	5117.01	5035.82	-322.65	680.90	160.75	163.84	53.01	3.12	PASS	
5216.00†	5100.37	-336.25	864.84	5216.92	5133.43	-331.64	700.26	160.74	167.93	54.26	3.12	PASS	
5316.00†	5197.18	-345.33	888.21	5316.84	5231.05	-340.63	719.62	160.74	172.03	55.50	3.13	PASS	
5416.00†	5293.98	-354.42	911.59	5416.75	5328.66	-349.61	738.97	160.73	176.13	56.75	3.13	PASS	
5516.00†	5390.79	-363.51	934.96	5516.67	5426.27	-358.60	758.33	160.73	180.23	58.00	3.13	PASS	
5616.00†	5487.59	-372.59	958.33	5616.59	5523.88	-367.59	777.68	160.73	184.33	59.26	3.14	PASS	
5716.00†	5584.40	-381.68	981.70	5716.50	5621.49	-376.57	797.04	160.72	188.42	60.51	3.14	PASS	
5816.00†	5681.20	-390.77	1005.08	5816.42	5719.10	-385.56	816.39	160.72	192.52	61.76	3.14	PASS	
5916.00†	5778.01	-399.86	1028.45	5916.33	5816.71	-394.55	835.75	160.72	196.62	63.02	3.14	PASS	
6016.00†	5874.81	-408.94	1051.82	6016.25	5914.32	-403.53	855.11	160.71	200.72	64.28	3.15	PASS	
6116.00†	5971.62	-418.03	1075.19	6116.17	6011.93	-412.52	874.46	160.71	204.82	65.53	3.15	PASS	
6216.00†	6068.42	-427.12	1098.57	6216.08	6109.54	-421.51	893.82	160.71	208.91	66.79	3.15	PASS	
6316.00†	6165.23	-436.20	1121.94	6316.00	6207.15	-430.49	913.17	160.70	213.01	68.05	3.15	PASS	
6416.00†	6262.03	-445.29	1145.31	6415.91	6304.76	-439.48	932.53	160.70	217.11	69.31	3.15	PASS	
6516.00†	6358.84	-454.38	1168.68	6515.83	6402.37	-448.47	951.88	160.70	221.21	70.57	3.16	PASS	
6616.00†	6455.64	-463.46	1192.06	6615.75	6499.98	-457.45	971.24	160.70	225.31	71.83	3.16	PASS	
6716.00†	6552.45	-472.55	1215.43	6715.66	6597.59	-466.44	990.60	160.70	229.40	73.09	3.16	PASS	
6816.00†	6649.25	-481.64	1238.80	6815.58	6695.20	-475.43	1009.95	160.69	233.50	74.35	3.16	PASS	
6916.00†	6746.05	-490.73	1262.17	6915.49	6792.81	-484.41	1029.31	160.69	237.60	75.61	3.16	PASS	
7016.00†	6842.86	-499.81	1285.55	7015.41	6890.42	-493.40	1048.66	160.69	241.70	76.87	3.16	PASS	
7110.80	6934.63	-508.43	1307.71	7110.13	6982.96	-501.92	1067.01	160.69	245.58	78.07	3.17	PASS	
7116.00†	6939.67	-508.88	1308.92	7115.33	6988.03	-502.39	1068.02	162.60	245.80	78.14	3.17	PASS	
7216.00†	7036.75	-508.34	1332.37	7214.66	7085.08	-511.32	1087.26	-159.52	249.85	80.45	3.12	PASS	
7316.00†	7132.25	-490.48	1355.47	7314.83	7183.20	-513.20	1106.73	-136.92	254.92	83.80	3.06	PASS	
7416.00†	7223.29	-455.82	1377.51	7418.81	7283.76	-496.81	1126.70	-127.69	261.24	86.33	3.04	PASS	
7516.00†	7307.09	-405.42	1397.82	7526.82	7383.36	-460.48	1146.50	-124.31	268.36	87.29	3.09	PASS	
7616.00†	7381.10	-340.82	1415.79	7639.00	7477.82	-403.31	1165.30	-123.35	275.69	86.64	3.20	PASS	
7716.00†	7443.08	-263.97	1430.87	7755.24	7562.24	-325.49	1182.14	-123.37	282.59	84.55	3.36	PASS	
7816.00†	7491.14	-177.21	1442.60	7875.13	7631.35	-228.78	1195.96	-123.71	288.36	81.73	3.55	PASS	
7916.00†	7523.83	-83.18	1450.63	7997.87	7680.10	-116.82	1205.75	-124.01	292.43	79.38	3.71	PASS	
8016.00†	7540.15	15.27	1454.71	8122.35	7704.55	4.88	1210.74	-124.12	294.38	78.80	3.76	PASS	
8062.75	7542.00	61.97	1455.22	8179.78	7707.00	62.24	1211.29	-124.08	294.50	79.29	3.74	PASS	
8116.00†	7542.00	115.22	1455.30	8233.03	7707.00	115.49	1211.35	-124.07	294.51	79.90	3.71	PASS	
8216.00†	7542.00	215.22	1455.44	8333.03	7707.00	215.49	1211.46	-124.07	294.53	81.33	3.64	PASS	
8316.00†	7542.00	315.22	1455.58	8433.03	7707.00	315.49	1211.57	-124.07	294.56	83.15	3.56	PASS	
8416.00†	7542.00	415.22	1455.72	8533.03	7707.00	415.49	1211.68	-124.06	294.58	85.01	3.49	PASS	
8516.00†	7542.00	515.22	1455.86	8633.03	7707.00	515.49	1211.79	-124.06	294.60	87.69	3.38	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1CDH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
8616.00†	7542.00	615.22	1456.00	8733.03	7707.00	615.49	1211.91	-124.06	294.63	90.37	3.28	PASS	
8716.00†	7542.00	715.22	1456.14	8833.03	7707.00	715.49	1212.02	-124.06	294.65	93.29	3.18	PASS	
8816.00†	7542.00	815.22	1456.27	8933.03	7707.00	815.49	1212.13	-124.05	294.67	96.42	3.07	PASS	
8916.00†	7542.00	915.22	1456.41	9033.03	7707.00	915.49	1212.24	-124.05	294.70	99.76	2.97	PASS	
9016.00†	7542.00	1015.22	1456.55	9133.03	7707.00	1015.49	1212.35	-124.05	294.72	103.28	2.87	PASS	
9116.00†	7542.00	1115.22	1456.69	9233.03	7707.00	1115.49	1212.46	-124.04	294.74	106.96	2.77	PASS	
9216.00†	7542.00	1215.22	1456.83	9333.03	7707.00	1215.49	1212.57	-124.04	294.77	110.78	2.67	PASS	
9316.00†	7542.00	1315.22	1456.97	9433.03	7707.00	1315.49	1212.69	-124.04	294.79	114.73	2.58	PASS	
9416.00†	7542.00	1415.22	1457.11	9533.03	7707.00	1415.49	1212.80	-124.03	294.81	118.80	2.49	PASS	
9516.00†	7542.00	1515.22	1457.25	9633.03	7707.00	1515.49	1212.91	-124.03	294.84	122.98	2.41	PASS	
9616.00†	7542.00	1615.22	1457.39	9733.03	7707.00	1615.49	1213.02	-124.03	294.86	127.25	2.32	PASS	
9716.00†	7542.00	1715.22	1457.53	9833.03	7707.00	1715.49	1213.13	-124.02	294.88	131.61	2.25	PASS	
9816.00†	7542.00	1815.22	1457.67	9933.03	7707.00	1815.49	1213.24	-124.02	294.91	136.05	2.17	PASS	
9916.00†	7542.00	1915.22	1457.81	10033.03	7707.00	1915.49	1213.35	-124.02	294.93	140.55	2.10	PASS	
10016.00†	7542.00	2015.21	1457.95	10133.03	7707.00	2015.49	1213.47	-124.02	294.95	145.12	2.04	PASS	
10116.00†	7542.00	2115.21	1458.09	10233.03	7707.00	2115.49	1213.58	-124.01	294.98	149.75	1.97	PASS	
10216.00†	7542.00	2215.21	1458.23	10333.03	7707.00	2215.49	1213.69	-124.01	295.00	154.43	1.91	PASS	
10316.00†	7542.00	2315.21	1458.37	10433.03	7707.00	2315.49	1213.80	-124.01	295.02	159.16	1.86	PASS	
10416.00†	7542.00	2415.21	1458.51	10533.03	7707.00	2415.49	1213.91	-124.00	295.05	163.93	1.80	PASS	
10516.00†	7542.00	2515.21	1458.65	10633.03	7707.00	2515.49	1214.02	-124.00	295.07	168.75	1.75	PASS	
10616.00†	7542.00	2615.21	1458.79	10733.03	7707.00	2615.49	1214.13	-124.00	295.09	173.60	1.70	PASS	
10716.00†	7542.00	2715.21	1458.93	10833.03	7707.00	2715.49	1214.25	-123.99	295.12	178.48	1.66	PASS	
10816.00†	7542.00	2815.21	1459.07	10933.03	7707.00	2815.49	1214.36	-123.99	295.14	183.40	1.61	PASS	
10916.00†	7542.00	2915.21	1459.21	11033.03	7707.00	2915.49	1214.47	-123.99	295.16	188.34	1.57	PASS	
11016.00†	7542.00	3015.21	1459.35	11133.03	7707.00	3015.49	1214.58	-123.98	295.19	193.31	1.53	PASS	
11116.00†	7542.00	3115.21	1459.49	11233.03	7707.00	3115.49	1214.69	-123.98	295.21	198.31	1.49	PASS	
11216.00†	7542.00	3215.21	1459.63	11333.03	7707.00	3215.49	1214.80	-123.98	295.23	203.33	1.45	PASS	
11316.00†	7542.00	3315.21	1459.76	11433.03	7707.00	3315.49	1214.91	-123.98	295.26	208.37	1.42	PASS	
11416.00†	7542.00	3415.21	1459.90	11533.03	7707.00	3415.49	1215.03	-123.97	295.28	213.43	1.38	PASS	
11516.00†	7542.00	3515.21	1460.04	11633.03	7707.00	3515.49	1215.14	-123.97	295.30	218.50	1.35	PASS	
11616.00†	7542.00	3615.21	1460.18	11733.03	7707.00	3615.49	1215.25	-123.97	295.33	223.60	1.32	PASS	
11716.00†	7542.00	3715.21	1460.32	11833.03	7707.00	3715.49	1215.36	-123.96	295.35	228.71	1.29	PASS	
11816.00†	7542.00	3815.21	1460.46	11933.03	7707.00	3815.49	1215.47	-123.96	295.37	233.84	1.26	PASS	
11916.00†	7542.00	3915.21	1460.60	12033.03	7707.00	3915.49	1215.58	-123.96	295.40	238.98	1.24	PASS	
12016.00†	7542.00	4015.21	1460.74	12133.03	7707.00	4015.49	1215.69	-123.95	295.42	244.13	1.21	PASS	
12116.00†	7542.00	4115.21	1460.88	12233.03	7707.00	4115.49	1215.81	-123.95	295.44	249.29	1.19	PASS	
12216.00†	7542.00	4215.21	1461.02	12333.03	7707.00	4215.49	1215.92	-123.95	295.47	254.47	1.16	PASS	
12316.00†	7542.00	4315.21	1461.16	12433.03	7707.00	4315.49	1216.03	-123.95	295.49	259.66	1.14	PASS	
12416.00†	7542.00	4415.21	1461.30	12533.03	7707.00	4415.49	1216.14	-123.94	295.51	264.86	1.12	PASS	
12516.00†	7542.00	4515.21	1461.44	12633.03	7707.00	4515.49	1216.25	-123.94	295.54	270.07	1.09	PASS	
12616.00†	7542.00	4615.21	1461.58	12733.03	7707.00	4615.49	1216.36	-123.94	295.56	275.28	1.07	PASS	
12716.00†	7542.00	4715.21	1461.72	12833.03	7707.00	4715.49	1216.47	-123.93	295.58	280.51	1.05	PASS	
12816.00†	7542.00	4815.21	1461.86	12933.03	7707.00	4815.49	1216.59	-123.93	295.61	285.75	1.03	PASS	
12916.00†	7542.00	4915.21	1462.00	13033.03	7707.00	4915.49	1216.70	-123.93	295.63	290.99	1.02	PASS	
13016.00†	7542.00	5015.21	1462.14	13133.03	7707.00	5015.49	1216.81	-123.92	295.65	296.24	1.00	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1CDH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
13116.00†	7542.00	5115.21	1462.28	13233.03	7707.00	5115.49	1216.92	-123.92	295.68	301.49	0.98	FAIL	
13216.00†	7542.00	5215.21	1462.42	13333.03	7707.00	5215.49	1217.03	-123.92	295.70	306.76	0.96	FAIL	
13316.00†	7542.00	5315.21	1462.56	13433.03	7707.00	5315.49	1217.14	-123.91	295.72	312.03	0.95	FAIL	
13416.00†	7542.00	5415.21	1462.70	13533.03	7707.00	5415.49	1217.25	-123.91	295.75	317.30	0.93	FAIL	
13516.00†	7542.00	5515.21	1462.84	13633.03	7707.00	5515.49	1217.37	-123.91	295.77	322.59	0.92	FAIL	
13616.00†	7542.00	5615.21	1462.98	13733.03	7707.00	5615.48	1217.48	-123.91	295.79	327.87	0.90	FAIL	
13716.00†	7542.00	5715.21	1463.11	13833.03	7707.00	5715.48	1217.59	-123.90	295.82	333.17	0.89	FAIL	
13816.00†	7542.00	5815.21	1463.25	13933.03	7707.00	5815.48	1217.70	-123.90	295.84	338.46	0.87	FAIL	
13916.00†	7542.00	5915.21	1463.39	14033.03	7707.00	5915.48	1217.81	-123.90	295.86	343.77	0.86	FAIL	
14016.00†	7542.00	6015.21	1463.53	14133.03	7707.00	6015.48	1217.92	-123.89	295.89	349.07	0.85	FAIL	
14116.00†	7542.00	6115.21	1463.67	14233.03	7707.00	6115.48	1218.03	-123.89	295.91	354.39	0.83	FAIL	
14216.00†	7542.00	6215.21	1463.81	14333.03	7707.00	6215.48	1218.15	-123.89	295.93	359.70	0.82	FAIL	
14316.00†	7542.00	6315.21	1463.95	14433.03	7707.00	6315.48	1218.26	-123.88	295.96	365.02	0.81	FAIL	
14416.00†	7542.00	6415.21	1464.09	14533.03	7707.00	6415.48	1218.37	-123.88	295.98	370.35	0.80	FAIL	
14516.00†	7542.00	6515.21	1464.23	14633.03	7707.00	6515.48	1218.48	-123.88	296.00	375.67	0.79	FAIL	
14616.00†	7542.00	6615.21	1464.37	14733.03	7707.00	6615.48	1218.59	-123.88	296.03	381.00	0.78	FAIL	
14716.00†	7542.00	6715.21	1464.51	14833.03	7707.00	6715.48	1218.70	-123.87	296.05	386.34	0.77	FAIL	
14816.00†	7542.00	6815.21	1464.65	14933.03	7707.00	6815.48	1218.81	-123.87	296.07	391.68	0.76	FAIL	
14916.00†	7542.00	6915.21	1464.79	15033.03	7707.00	6915.48	1218.93	-123.87	296.10	397.02	0.75	FAIL	
15016.00†	7542.00	7015.21	1464.93	15133.03	7707.00	7015.48	1219.04	-123.86	296.12	402.36	0.74	FAIL	
15116.00†	7542.00	7115.21	1465.07	15233.03	7707.00	7115.48	1219.15	-123.86	296.14	407.71	0.73	FAIL	
15216.00†	7542.00	7215.21	1465.21	15333.03	7707.00	7215.48	1219.26	-123.86	296.17	413.06	0.72	FAIL	
15316.00†	7542.00	7315.21	1465.35	15433.03	7707.00	7315.48	1219.37	-123.85	296.19	418.41	0.71	FAIL	
15416.00†	7542.00	7415.21	1465.49	15533.03	7707.00	7415.48	1219.48	-123.85	296.22	423.77	0.70	FAIL	
15516.00†	7542.00	7515.21	1465.63	15633.03	7707.00	7515.48	1219.59	-123.85	296.24	429.13	0.69	FAIL	
15616.00†	7542.00	7615.21	1465.77	15733.03	7707.00	7615.48	1219.71	-123.84	296.26	434.49	0.68	FAIL	
15716.00†	7542.00	7715.21	1465.91	15833.03	7707.00	7715.48	1219.82	-123.84	296.29	439.85	0.67	FAIL	
15816.00†	7542.00	7815.21	1466.05	15933.03	7707.00	7815.48	1219.93	-123.84	296.31	445.22	0.67	FAIL	
15916.00†	7542.00	7915.21	1466.19	16033.03	7707.00	7915.48	1220.04	-123.84	296.33	450.59	0.66	FAIL	
16016.00†	7542.00	8015.21	1466.33	16133.03	7707.00	8015.48	1220.15	-123.83	296.36	455.96	0.65	FAIL	
16116.00†	7542.00	8115.21	1466.47	16233.03	7707.00	8115.48	1220.26	-123.83	296.38	461.33	0.64	FAIL	
16216.00†	7542.00	8215.21	1466.60	16333.03	7707.00	8215.48	1220.37	-123.83	296.40	466.71	0.63	FAIL	
16316.00†	7542.00	8315.21	1466.74	16433.03	7707.00	8315.48	1220.49	-123.82	296.43	472.08	0.63	FAIL	
16416.00†	7542.00	8415.21	1466.88	16533.03	7707.00	8415.48	1220.60	-123.82	296.45	477.46	0.62	FAIL	
16516.00†	7542.00	8515.21	1467.02	16633.03	7707.00	8515.48	1220.71	-123.82	296.47	482.84	0.61	FAIL	
16616.00†	7542.00	8615.21	1467.16	16733.03	7707.00	8615.48	1220.82	-123.81	296.50	488.22	0.61	FAIL	
16716.00†	7542.00	8715.21	1467.30	16833.03	7707.00	8715.48	1220.93	-123.81	296.52	493.61	0.60	FAIL	
16816.00†	7542.00	8815.21	1467.44	16933.03	7707.00	8815.48	1221.04	-123.81	296.54	498.99	0.59	FAIL	
16916.00†	7542.00	8915.21	1467.58	17033.03	7707.00	8915.48	1221.15	-123.81	296.57	504.38	0.59	FAIL	
17016.00†	7542.00	9015.21	1467.72	17133.03	7707.00	9015.48	1221.27	-123.80	296.59	509.77	0.58	FAIL	
17116.00†	7542.00	9115.21	1467.86	17233.03	7707.00	9115.48	1221.38	-123.80	296.61	515.16	0.58	FAIL	
17216.00†	7542.00	9215.21	1468.00	17333.03	7707.00	9215.48	1221.49	-123.80	296.64	520.56	0.57	FAIL	
17316.00†	7542.00	9315.21	1468.14	17433.03	7707.00	9315.48	1221.60	-123.79	296.66	525.95	0.56	FAIL	
17416.00†	7542.00	9415.21	1468.28	17533.03	7707.00	9415.48	1221.71	-123.79	296.68	531.35	0.56	FAIL	
17516.00†	7542.00	9515.21	1468.42	17633.03	7707.00	9515.48	1221.82	-123.79	296.71	536.74	0.55	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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	
17616.00†	7542.00	9615.21	1468.56	17733.03	7707.00	9615.48	1221.94	-123.78	296.73	542.14	0.55	FAIL	
17698.07	7542.00	9697.28	1468.67	17814.81	7707.00	9697.26	1222.03	-123.78	296.75	546.49	0.54	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

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

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	-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	17814.81	16932.81	882.00	7707.00	0.00	-8.55	2955.73	368.20

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 20-17-1NCH (REV-A.0, NIO C CK) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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	30.84	90.00	30.84	1.56	49.80	PASS
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	30.84	90.00	30.84	1.89	32.13	PASS
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	30.84	90.00	30.84	2.47	19.84	PASS
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	30.84	90.00	30.84	3.08	14.14	PASS
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	30.84	90.00	30.84	3.69	10.95	PASS
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	30.84	90.00	30.84	4.31	8.92	PASS
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	30.84	90.00	30.84	4.94	7.52	PASS
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	30.84	90.00	30.84	5.56	6.50	PASS
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	30.84	90.00	30.84	6.19	5.72	PASS
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	30.84	90.00	30.84	6.25	5.43	PASS
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	30.84	90.00	30.84	6.39	5.30	PASS
1116.00†	1116.00	0.00	0.00	1116.00	1116.00	0.00	30.84	90.00	30.84	6.72	5.01	PASS
1216.00†	1216.00	0.00	0.00	1215.37	1215.37	-0.12	31.25	90.22	31.26	7.20	4.71	PASS
1275.00	1275.00	0.00	0.00	1273.39	1273.35	-0.72	33.27	91.24	33.32	7.71	4.66	PASS
1316.00†	1316.00	-0.16	0.41	1313.63	1313.51	-1.43	35.66	-19.15	35.36	8.09	4.70	PASS
1416.00†	1415.87	-1.89	4.85	1411.62	1411.01	-4.17	44.87	-17.87	40.38	9.71	4.41	PASS
1516.00†	1515.36	-5.50	14.15	1509.35	1507.65	-8.32	58.82	-17.40	45.42	11.63	4.09	PASS
1616.00†	1614.19	-11.00	28.30	1606.84	1603.17	-13.85	77.44	-17.50	50.44	13.30	3.95	PASS
1716.00†	1712.09	-18.37	47.24	1704.09	1697.34	-20.75	100.64	-18.02	55.45	14.84	3.87	PASS
1759.10	1753.93	-22.11	56.88	1745.93	1737.46	-24.14	112.03	-18.34	57.60	15.40	3.87	PASS
1816.00†	1809.01	-27.28	70.18	1801.05	1789.90	-28.98	128.32	-18.62	61.23	15.99	3.96	PASS
1916.00†	1905.82	-36.37	93.55	1900.48	1883.92	-38.20	159.35	-18.67	69.37	16.82	4.26	PASS
2016.00†	2002.62	-45.46	116.92	2000.15	1978.15	-47.45	190.46	-18.71	77.53	17.69	4.52	PASS
2116.00†	2099.43	-54.55	140.29	2099.82	2072.38	-56.70	221.57	-18.75	85.69	18.65	4.74	PASS
2216.00†	2196.23	-63.63	163.67	2199.48	2166.62	-65.95	252.68	-18.77	93.84	19.58	4.94	PASS
2316.00†	2293.04	-72.72	187.04	2299.15	2260.85	-75.20	283.80	-18.79	102.00	20.59	5.09	PASS
2416.00†	2389.84	-81.81	210.41	2398.82	2355.08	-84.45	314.91	-18.81	110.16	21.64	5.23	PASS
2516.00†	2486.65	-90.89	233.78	2498.48	2449.32	-93.70	346.02	-18.83	118.31	22.72	5.34	PASS
2616.00†	2583.45	-99.98	257.16	2598.15	2543.55	-102.95	377.13	-18.84	126.47	23.83	5.44	PASS
2716.00†	2680.26	-109.07	280.53	2697.82	2637.78	-112.20	408.24	-18.86	134.63	24.96	5.52	PASS
2816.00†	2777.06	-118.16	303.90	2797.48	2732.02	-121.45	439.36	-18.87	142.79	26.12	5.59	PASS
2916.00†	2873.87	-127.24	327.27	2897.15	2826.25	-130.70	470.47	-18.88	150.94	27.28	5.65	PASS
3016.00†	2970.67	-136.33	350.65	2996.82	2920.48	-139.94	501.58	-18.89	159.10	28.47	5.71	PASS
3116.00†	3067.48	-145.42	374.02	3096.48	3014.72	-149.19	532.69	-18.89	167.26	29.67	5.75	PASS
3216.00†	3164.28	-154.50	397.39	3196.15	3108.95	-158.44	563.80	-18.90	175.41	30.88	5.79	PASS
3316.00†	3261.09	-163.59	420.76	3295.82	3203.18	-167.69	594.92	-18.91	183.57	32.10	5.83	PASS
3416.00†	3357.89	-172.68	444.14	3395.48	3297.42	-176.94	626.03	-18.91	191.73	33.32	5.86	PASS
3516.00†	3454.69	-181.76	467.51	3495.15	3391.65	-186.19	657.14	-18.92	199.89	34.56	5.88	PASS
3616.00†	3551.50	-190.85	490.88	3594.82	3485.88	-195.44	688.25	-18.92	208.04	35.81	5.91	PASS
3716.00†	3648.30	-199.94	514.25	3694.48	3580.12	-204.69	719.37	-18.93	216.20	37.06	5.93	PASS
3816.00†	3745.11	-209.03	537.63	3794.15	3674.35	-213.94	750.48	-18.93	224.36	38.32	5.95	PASS
3916.00†	3841.91	-218.11	561.00	3893.82	3768.59	-223.19	781.59	-18.94	232.51	39.58	5.96	PASS
4016.00†	3938.72	-227.20	584.37	3993.49	3862.82	-232.44	812.70	-18.94	240.67	40.85	5.98	PASS
4116.00†	4035.52	-236.29	607.74	4093.15	3957.05	-241.69	843.81	-18.94	248.83	42.12	5.99	PASS
4216.00†	4132.33	-245.37	631.12	4192.82	4051.29	-250.94	874.93	-18.95	256.99	43.39	6.00	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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†	4229.13	-254.46	654.49	4292.49	4145.52	-260.18	906.04	-18.95	265.14	44.67	6.01	PASS	
4416.00†	4325.94	-263.55	677.86	4392.15	4239.75	-269.43	937.15	-18.95	273.30	45.96	6.02	PASS	
4516.00†	4422.74	-272.64	701.23	4491.82	4333.99	-278.68	968.26	-18.96	281.46	47.24	6.03	PASS	
4616.00†	4519.55	-281.72	724.61	4591.49	4428.22	-287.93	999.38	-18.96	289.61	48.53	6.04	PASS	
4716.00†	4616.35	-290.81	747.98	4691.15	4522.45	-297.18	1030.49	-18.96	297.77	49.82	6.05	PASS	
4816.00†	4713.16	-299.90	771.35	4790.82	4616.69	-306.43	1061.60	-18.96	305.93	51.12	6.06	PASS	
4916.00†	4809.96	-308.98	794.72	4890.49	4710.92	-315.68	1092.71	-18.97	314.09	52.41	6.06	PASS	
5016.00†	4906.77	-318.07	818.10	4990.15	4805.15	-324.93	1123.82	-18.97	322.24	53.71	6.07	PASS	
5116.00†	5003.57	-327.16	841.47	5089.82	4899.39	-334.18	1154.94	-18.97	330.40	55.01	6.07	PASS	
5216.00†	5100.37	-336.25	864.84	5189.49	4993.62	-343.43	1186.05	-18.97	338.56	56.31	6.08	PASS	
5316.00†	5197.18	-345.33	888.21	5289.15	5087.85	-352.68	1217.16	-18.97	346.72	57.62	6.08	PASS	
5416.00†	5293.98	-354.42	911.59	5388.82	5182.09	-361.93	1248.27	-18.98	354.87	58.92	6.08	PASS	
5516.00†	5390.79	-363.51	934.96	5488.49	5276.32	-371.18	1279.39	-18.98	363.03	60.23	6.09	PASS	
5616.00†	5487.59	-372.59	958.33	5588.15	5370.55	-380.43	1310.50	-18.98	371.19	61.54	6.09	PASS	
5716.00†	5584.40	-381.68	981.70	5687.82	5464.79	-389.67	1341.61	-18.98	379.34	62.84	6.09	PASS	
5816.00†	5681.20	-390.77	1005.08	5787.49	5559.02	-398.92	1372.72	-18.98	387.50	64.16	6.10	PASS	
5916.00†	5778.01	-399.86	1028.45	5887.15	5653.25	-408.17	1403.83	-18.98	395.66	65.47	6.10	PASS	
6016.00†	5874.81	-408.94	1051.82	5986.82	5747.49	-417.42	1434.95	-18.99	403.82	66.78	6.10	PASS	
6116.00†	5971.62	-418.03	1075.19	6086.49	5841.72	-426.67	1466.06	-18.99	411.97	68.09	6.10	PASS	
6216.00†	6068.42	-427.12	1098.57	6186.15	5935.95	-435.92	1497.17	-18.99	420.13	69.41	6.11	PASS	
6316.00†	6165.23	-436.20	1121.94	6285.82	6030.19	-445.17	1528.28	-18.99	428.29	70.72	6.11	PASS	
6416.00†	6262.03	-445.29	1145.31	6385.49	6124.42	-454.42	1559.39	-18.99	436.44	72.04	6.11	PASS	
6516.00†	6358.84	-454.38	1168.68	6485.15	6218.65	-463.67	1590.51	-18.99	444.60	73.36	6.11	PASS	
6616.00†	6455.64	-463.46	1192.06	6584.82	6312.89	-472.92	1621.62	-18.99	452.76	74.67	6.11	PASS	
6716.00†	6552.45	-472.55	1215.43	6684.49	6407.12	-482.17	1652.73	-18.99	460.92	75.99	6.11	PASS	
6816.00†	6649.25	-481.64	1238.80	6784.15	6501.36	-491.42	1683.84	-18.99	469.07	77.31	6.11	PASS	
6916.00†	6746.05	-490.73	1262.17	6883.82	6595.59	-500.67	1714.96	-18.99	477.23	78.63	6.12	PASS	
7016.00†	6842.86	-499.81	1285.55	6983.79	6690.13	-509.65	1746.17	-19.03	485.38	79.97	6.12	PASS	
7110.80	6934.63	-508.43	1307.71	7078.42	6779.86	-507.58	1775.81	-20.29	493.03	81.92	6.06	PASS	
7116.00†	6939.67	-508.88	1308.92	7083.48	6784.64	-507.04	1777.39	-18.55	493.46	82.06	6.06	PASS	
7216.00†	7036.75	-508.34	1332.37	7179.30	6873.76	-488.32	1806.85	18.15	502.09	84.29	6.00	PASS	
7316.00†	7132.25	-490.48	1355.47	7272.37	6956.31	-455.43	1834.16	41.94	511.21	85.72	6.00	PASS	
7416.00†	7223.29	-455.82	1377.51	7363.10	7030.89	-410.24	1858.86	52.39	520.38	86.21	6.08	PASS	
7516.00†	7307.09	-405.42	1397.82	7451.89	7096.42	-354.55	1880.58	56.95	529.17	85.88	6.20	PASS	
7616.00†	7381.10	-340.82	1415.79	7539.10	7152.09	-290.12	1899.08	58.98	537.18	85.02	6.36	PASS	
7716.00†	7443.08	-263.97	1430.87	7625.08	7197.26	-218.62	1914.07	59.84	544.03	83.98	6.52	PASS	
7816.00†	7491.14	-177.21	1442.60	7710.12	7231.46	-141.68	1925.47	60.18	549.42	83.10	6.66	PASS	
7916.00†	7523.83	-83.18	1450.63	7794.52	7254.34	-60.88	1933.14	60.28	553.12	82.74	6.73	PASS	
8016.00†	7540.15	15.27	1454.71	7878.56	7265.69	22.22	1937.01	60.30	554.96	83.12	6.73	PASS	
8062.75	7542.00	61.97	1455.22	7917.79	7267.00	61.42	1937.49	60.31	555.17	83.55	6.69	PASS	
8116.00†	7542.00	115.22	1455.30	7970.92	7267.00	114.55	1937.57	60.31	555.17	84.17	6.64	PASS	
8216.00†	7542.00	215.22	1455.44	8070.92	7267.00	214.55	1937.70	60.31	555.16	85.66	6.53	PASS	
8316.00†	7542.00	315.22	1455.58	8170.92	7267.00	314.55	1937.84	60.31	555.16	87.54	6.39	PASS	
8416.00†	7542.00	415.22	1455.72	8270.92	7267.00	414.55	1937.98	60.31	555.16	89.74	6.23	PASS	
8516.00†	7542.00	515.22	1455.86	8370.92	7267.00	514.55	1938.12	60.31	555.16	96.40	5.79	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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†	7542.00	615.22	1456.00	8470.92	7267.00	614.55	1938.25	60.31	555.16	95.00	5.88	PASS	
8716.00†	7542.00	715.22	1456.14	8570.92	7267.00	714.55	1938.39	60.31	555.15	98.02	5.70	PASS	
8816.00†	7542.00	815.22	1456.27	8670.92	7267.00	814.55	1938.53	60.31	555.15	101.26	5.51	PASS	
8916.00†	7542.00	915.22	1456.41	8770.92	7267.00	914.55	1938.67	60.31	555.15	104.71	5.33	PASS	
9016.00†	7542.00	1015.22	1456.55	8870.92	7267.00	1014.55	1938.80	60.31	555.15	108.35	5.15	PASS	
9116.00†	7542.00	1115.22	1456.69	8970.92	7267.00	1114.55	1938.94	60.31	555.15	112.15	4.98	PASS	
9216.00†	7542.00	1215.22	1456.83	9070.92	7267.00	1214.55	1939.08	60.31	555.15	116.10	4.80	PASS	
9316.00†	7542.00	1315.22	1456.97	9170.92	7267.00	1314.55	1939.22	60.31	555.14	120.18	4.64	PASS	
9416.00†	7542.00	1415.22	1457.11	9270.92	7267.00	1414.55	1939.36	60.31	555.14	124.39	4.48	PASS	
9516.00†	7542.00	1515.22	1457.25	9370.92	7267.00	1514.55	1939.49	60.31	555.14	128.71	4.33	PASS	
9616.00†	7542.00	1615.22	1457.39	9470.92	7267.00	1614.55	1939.63	60.31	555.14	133.13	4.19	PASS	
9716.00†	7542.00	1715.22	1457.53	9570.92	7267.00	1714.55	1939.77	60.31	555.14	137.64	4.05	PASS	
9816.00†	7542.00	1815.22	1457.67	9670.92	7267.00	1814.55	1939.91	60.31	555.14	142.23	3.92	PASS	
9916.00†	7542.00	1915.22	1457.81	9770.92	7267.00	1914.55	1940.04	60.31	555.13	146.89	3.79	PASS	
10016.00†	7542.00	2015.21	1457.95	9870.92	7267.00	2014.55	1940.18	60.31	555.13	151.62	3.67	PASS	
10116.00†	7542.00	2115.21	1458.09	9970.92	7267.00	2114.55	1940.32	60.31	555.13	156.41	3.56	PASS	
10216.00†	7542.00	2215.21	1458.23	10070.92	7267.00	2214.55	1940.46	60.31	555.13	161.26	3.45	PASS	
10316.00†	7542.00	2315.21	1458.37	10170.92	7267.00	2314.55	1940.59	60.31	555.13	166.15	3.35	PASS	
10416.00†	7542.00	2415.21	1458.51	10270.92	7267.00	2414.55	1940.73	60.31	555.13	171.10	3.25	PASS	
10516.00†	7542.00	2515.21	1458.65	10370.92	7267.00	2514.55	1940.87	60.31	555.12	176.08	3.16	PASS	
10616.00†	7542.00	2615.21	1458.79	10470.92	7267.00	2614.55	1941.01	60.31	555.12	181.10	3.07	PASS	
10716.00†	7542.00	2715.21	1458.93	10570.92	7267.00	2714.55	1941.14	60.31	555.12	186.16	2.99	PASS	
10816.00†	7542.00	2815.21	1459.07	10670.92	7267.00	2814.55	1941.28	60.31	555.12	191.25	2.91	PASS	
10916.00†	7542.00	2915.21	1459.21	10770.92	7267.00	2914.55	1941.42	60.30	555.12	196.37	2.83	PASS	
11016.00†	7542.00	3015.21	1459.35	10870.92	7267.00	3014.55	1941.56	60.30	555.11	201.52	2.76	PASS	
11116.00†	7542.00	3115.21	1459.49	10970.92	7267.00	3114.55	1941.69	60.30	555.11	206.70	2.69	PASS	
11216.00†	7542.00	3215.21	1459.63	11070.92	7267.00	3214.55	1941.83	60.30	555.11	211.90	2.63	PASS	
11316.00†	7542.00	3315.21	1459.76	11170.92	7267.00	3314.55	1941.97	60.30	555.11	217.12	2.56	PASS	
11416.00†	7542.00	3415.21	1459.90	11270.92	7267.00	3414.55	1942.11	60.30	555.11	222.36	2.50	PASS	
11516.00†	7542.00	3515.21	1460.04	11370.92	7267.00	3514.55	1942.24	60.30	555.11	227.62	2.44	PASS	
11616.00†	7542.00	3615.21	1460.18	11470.92	7267.00	3614.55	1942.38	60.30	555.10	232.90	2.39	PASS	
11716.00†	7542.00	3715.21	1460.32	11570.92	7267.00	3714.55	1942.52	60.30	555.10	238.19	2.33	PASS	
11816.00†	7542.00	3815.21	1460.46	11670.92	7267.00	3814.55	1942.66	60.30	555.10	243.50	2.28	PASS	
11916.00†	7542.00	3915.21	1460.60	11770.92	7267.00	3914.55	1942.80	60.30	555.10	248.82	2.23	PASS	
12016.00†	7542.00	4015.21	1460.74	11870.92	7267.00	4014.55	1942.93	60.30	555.10	254.16	2.19	PASS	
12116.00†	7542.00	4115.21	1460.88	11970.92	7267.00	4114.55	1943.07	60.30	555.10	259.51	2.14	PASS	
12216.00†	7542.00	4215.21	1461.02	12070.92	7267.00	4214.55	1943.21	60.30	555.09	264.88	2.10	PASS	
12316.00†	7542.00	4315.21	1461.16	12170.92	7267.00	4314.55	1943.35	60.30	555.09	270.25	2.06	PASS	
12416.00†	7542.00	4415.21	1461.30	12270.92	7267.00	4414.55	1943.48	60.30	555.09	275.63	2.02	PASS	
12516.00†	7542.00	4515.21	1461.44	12370.92	7267.00	4514.55	1943.62	60.30	555.09	281.03	1.98	PASS	
12616.00†	7542.00	4615.21	1461.58	12470.92	7267.00	4614.55	1943.76	60.30	555.09	286.43	1.94	PASS	
12716.00†	7542.00	4715.21	1461.72	12570.92	7267.00	4714.55	1943.90	60.30	555.09	291.85	1.90	PASS	
12816.00†	7542.00	4815.21	1461.86	12670.92	7267.00	4814.55	1944.03	60.30	555.08	297.27	1.87	PASS	
12916.00†	7542.00	4915.21	1462.00	12770.92	7267.00	4914.55	1944.17	60.30	555.08	302.70	1.84	PASS	
13016.00†	7542.00	5015.21	1462.14	12870.92	7267.00	5014.55	1944.31	60.30	555.08	308.14	1.80	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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†	7542.00	5115.21	1462.28	12970.92	7267.00	5114.55	1944.45	60.30	555.08	313.58	1.77	PASS	
13216.00†	7542.00	5215.21	1462.42	13070.92	7267.00	5214.55	1944.58	60.30	555.08	319.03	1.74	PASS	
13316.00†	7542.00	5315.21	1462.56	13170.92	7267.00	5314.55	1944.72	60.30	555.08	324.49	1.71	PASS	
13416.00†	7542.00	5415.21	1462.70	13270.92	7267.00	5414.55	1944.86	60.30	555.07	329.95	1.68	PASS	
13516.00†	7542.00	5515.21	1462.84	13370.92	7267.00	5514.55	1945.00	60.30	555.07	335.42	1.66	PASS	
13616.00†	7542.00	5615.21	1462.98	13470.92	7267.00	5614.55	1945.13	60.30	555.07	340.90	1.63	PASS	
13716.00†	7542.00	5715.21	1463.11	13570.92	7267.00	5714.55	1945.27	60.30	555.07	346.38	1.60	PASS	
13816.00†	7542.00	5815.21	1463.25	13670.92	7267.00	5814.55	1945.41	60.30	555.07	351.86	1.58	PASS	
13916.00†	7542.00	5915.21	1463.39	13770.92	7267.00	5914.55	1945.55	60.30	555.06	357.35	1.55	PASS	
14016.00†	7542.00	6015.21	1463.53	13870.92	7267.00	6014.55	1945.68	60.30	555.06	362.85	1.53	PASS	
14116.00†	7542.00	6115.21	1463.67	13970.92	7267.00	6114.55	1945.82	60.30	555.06	368.35	1.51	PASS	
14216.00†	7542.00	6215.21	1463.81	14070.92	7267.00	6214.55	1945.96	60.30	555.06	373.85	1.49	PASS	
14316.00†	7542.00	6315.21	1463.95	14170.92	7267.00	6314.55	1946.10	60.30	555.06	379.36	1.46	PASS	
14416.00†	7542.00	6415.21	1464.09	14270.92	7267.00	6414.55	1946.24	60.30	555.06	384.87	1.44	PASS	
14516.00†	7542.00	6515.21	1464.23	14370.92	7267.00	6514.55	1946.37	60.30	555.05	390.38	1.42	PASS	
14616.00†	7542.00	6615.21	1464.37	14470.92	7267.00	6614.55	1946.51	60.30	555.05	395.90	1.40	PASS	
14716.00†	7542.00	6715.21	1464.51	14570.92	7267.00	6714.55	1946.65	60.30	555.05	401.42	1.38	PASS	
14816.00†	7542.00	6815.21	1464.65	14670.92	7267.00	6814.55	1946.79	60.30	555.05	406.95	1.36	PASS	
14916.00†	7542.00	6915.21	1464.79	14770.92	7267.00	6914.55	1946.92	60.30	555.05	412.47	1.35	PASS	
15016.00†	7542.00	7015.21	1464.93	14870.92	7267.00	7014.55	1947.06	60.30	555.05	418.01	1.33	PASS	
15116.00†	7542.00	7115.21	1465.07	14970.92	7267.00	7114.55	1947.20	60.30	555.04	423.54	1.31	PASS	
15216.00†	7542.00	7215.21	1465.21	15070.92	7267.00	7214.55	1947.34	60.30	555.04	429.08	1.29	PASS	
15316.00†	7542.00	7315.21	1465.35	15170.92	7267.00	7314.55	1947.47	60.30	555.04	434.61	1.28	PASS	
15416.00†	7542.00	7415.21	1465.49	15270.92	7267.00	7414.55	1947.61	60.30	555.04	440.16	1.26	PASS	
15516.00†	7542.00	7515.21	1465.63	15370.92	7267.00	7514.55	1947.75	60.30	555.04	445.70	1.25	PASS	
15616.00†	7542.00	7615.21	1465.77	15470.92	7267.00	7614.55	1947.89	60.30	555.04	451.25	1.23	PASS	
15716.00†	7542.00	7715.21	1465.91	15570.92	7267.00	7714.55	1948.02	60.30	555.03	456.80	1.22	PASS	
15816.00†	7542.00	7815.21	1466.05	15670.92	7267.00	7814.55	1948.16	60.30	555.03	462.35	1.20	PASS	
15916.00†	7542.00	7915.21	1466.19	15770.92	7267.00	7914.55	1948.30	60.30	555.03	467.90	1.19	PASS	
16016.00†	7542.00	8015.21	1466.33	15870.92	7267.00	8014.55	1948.44	60.30	555.03	473.46	1.17	PASS	
16116.00†	7542.00	8115.21	1466.47	15970.92	7267.00	8114.55	1948.57	60.30	555.03	479.01	1.16	PASS	
16216.00†	7542.00	8215.21	1466.60	16070.92	7267.00	8214.55	1948.71	60.30	555.02	484.57	1.15	PASS	
16316.00†	7542.00	8315.21	1466.74	16170.92	7267.00	8314.55	1948.85	60.30	555.02	490.13	1.13	PASS	
16416.00†	7542.00	8415.21	1466.88	16270.92	7267.00	8414.55	1948.99	60.30	555.02	495.69	1.12	PASS	
16516.00†	7542.00	8515.21	1467.02	16370.92	7267.00	8514.55	1949.12	60.30	555.02	501.26	1.11	PASS	
16616.00†	7542.00	8615.21	1467.16	16470.92	7267.00	8614.55	1949.26	60.30	555.02	506.82	1.10	PASS	
16716.00†	7542.00	8715.21	1467.30	16570.92	7267.00	8714.55	1949.40	60.30	555.02	512.39	1.08	PASS	
16816.00†	7542.00	8815.21	1467.44	16670.92	7267.00	8814.54	1949.54	60.30	555.01	517.96	1.07	PASS	
16916.00†	7542.00	8915.21	1467.58	16770.92	7267.00	8914.54	1949.67	60.30	555.01	523.53	1.06	PASS	
17016.00†	7542.00	9015.21	1467.72	16870.92	7267.00	9014.54	1949.81	60.30	555.01	529.10	1.05	PASS	
17116.00†	7542.00	9115.21	1467.86	16970.92	7267.00	9114.54	1949.95	60.30	555.01	534.68	1.04	PASS	
17216.00†	7542.00	9215.21	1468.00	17070.92	7267.00	9214.54	1950.09	60.30	555.01	540.25	1.03	PASS	
17316.00†	7542.00	9315.21	1468.14	17170.92	7267.00	9314.54	1950.23	60.30	555.01	545.83	1.02	PASS	
17416.00†	7542.00	9415.21	1468.28	17270.92	7267.00	9414.54	1950.36	60.30	555.00	551.41	1.01	PASS	
17516.00†	7542.00	9515.21	1468.42	17370.92	7267.00	9514.54	1950.50	60.30	555.00	556.98	1.00	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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†	7542.00	9615.21	1468.56	17470.92	7267.00	9614.54	1950.64	60.30	555.00	562.56	0.99	FAIL	
17698.07	7542.00	9697.28	1468.67	17552.99	7267.00	9696.61	1950.75	60.30	555.00	567.14	0.98	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	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	17558.00	16676.00	882.00	N/A	0.00	18.80	N/A	N/A

SURVEY PROGRAM - Offset Wellbore: 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 20-17-1NCH (REV-A.0, NIO C CK) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-2NBH Threshold Value=1.00 † = interpolated/extrapolated station														
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status		
16.00	16.00	0.00	0.00	16.00	16.00	0.00	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		
1216.00†	1216.00	0.00	0.00	1213.91	1213.88	-0.53	46.86	90.65	46.91	7.36	6.95	PASS		
1275.00	1275.00	0.00	0.00	1271.38	1271.24	-1.43	50.28	91.63	50.44	8.08	6.75	PASS		
1316.00†	1316.00	-0.16	0.41	1311.21	1310.91	-2.32	53.63	-18.89	53.51	8.61	6.68	PASS		
1416.00†	1415.87	-1.89	4.85	1408.08	1407.04	-5.35	65.11	-17.82	61.00	10.17	6.37	PASS		
1516.00†	1515.36	-5.50	14.15	1504.58	1502.09	-9.60	81.21	-17.46	68.48	11.97	6.02	PASS		
1616.00†	1614.19	-11.00	28.30	1600.74	1595.84	-15.05	101.86	-17.59	75.92	13.59	5.84	PASS		
1716.00†	1712.09	-18.37	47.24	1696.55	1688.06	-21.67	126.94	-18.09	83.30	15.10	5.74	PASS		
1759.10	1753.93	-22.11	56.88	1737.74	1727.28	-24.88	139.09	-18.40	86.46	15.63	5.75	PASS		
1816.00†	1809.01	-27.28	70.18	1791.96	1778.49	-29.43	156.32	-18.74	91.42	16.19	5.86	PASS		
1916.00†	1905.82	-36.37	93.55	1890.94	1871.32	-38.19	189.51	-19.04	101.99	17.02	6.21	PASS		
2016.00†	2002.62	-45.46	116.92	1990.37	1964.58	-47.00	222.87	-19.28	112.58	17.82	6.54	PASS		
2116.00†	2099.43	-54.55	140.29	2089.81	2057.83	-55.80	256.23	-19.48	123.18	18.82	6.76	PASS		
2216.00†	2196.23	-63.63	163.67	2189.24	2151.09	-64.61	289.59	-19.64	133.78	19.79	6.98	PASS		
2316.00†	2293.04	-72.72	187.04	2288.68	2244.35	-73.42	322.95	-19.79	144.37	20.81	7.15	PASS		
2416.00†	2389.84	-81.81	210.41	2388.12	2337.61	-82.23	356.32	-19.91	154.97	21.88	7.29	PASS		
2516.00†	2486.65	-90.89	233.78	2487.55	2430.86	-91.04	389.68	-20.02	165.57	22.98	7.40	PASS		
2616.00†	2583.45	-99.98	257.16	2586.99	2524.12	-99.84	423.04	-20.11	176.17	24.11	7.50	PASS		
2716.00†	2680.26	-109.07	280.53	2686.42	2617.38	-108.65	456.40	-20.20	186.78	25.26	7.58	PASS		
2816.00†	2777.06	-118.16	303.90	2785.86	2710.64	-117.46	489.76	-20.27	197.38	26.44	7.64	PASS		
2916.00†	2873.87	-127.24	327.27	2885.30	2803.89	-126.27	523.13	-20.34	207.98	27.64	7.70	PASS		
3016.00†	2970.67	-136.33	350.65	2984.73	2897.15	-135.08	556.49	-20.40	218.58	28.85	7.74	PASS		
3116.00†	3067.48	-145.42	374.02	3084.17	2990.41	-143.88	589.85	-20.45	229.18	30.08	7.78	PASS		
3216.00†	3164.28	-154.50	397.39	3183.61	3083.67	-152.69	623.21	-20.51	239.78	31.32	7.81	PASS		
3316.00†	3261.09	-163.59	420.76	3283.04	3176.92	-161.50	656.57	-20.55	250.39	32.57	7.84	PASS		
3416.00†	3357.89	-172.68	444.14	3382.48	3270.18	-170.31	689.94	-20.59	260.99	33.83	7.86	PASS		
3516.00†	3454.69	-181.76	467.51	3481.91	3363.44	-179.12	723.30	-20.63	271.59	35.11	7.88	PASS		
3616.00†	3551.50	-190.85	490.88	3581.35	3456.70	-187.92	756.66	-20.67	282.20	36.39	7.89	PASS		
3716.00†	3648.30	-199.94	514.25	3680.79	3549.95	-196.73	790.02	-20.70	292.80	37.67	7.90	PASS		
3816.00†	3745.11	-209.03	537.63	3780.22	3643.21	-205.54	823.38	-20.73	303.40	38.97	7.91	PASS		
3916.00†	3841.91	-218.11	561.00	3879.66	3736.47	-214.35	856.75	-20.76	314.00	40.26	7.92	PASS		
4016.00†	3938.72	-227.20	584.37	3979.09	3829.73	-223.16	890.11	-20.79	324.61	41.57	7.93	PASS		
4116.00†	4035.52	-236.29	607.74	4078.53	3922.98	-231.96	923.47	-20.81	335.21	42.88	7.93	PASS		
4216.00†	4132.33	-245.37	631.12	4177.97	4016.24	-240.77	956.83	-20.84	345.81	44.19	7.94	PASS		

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-2NBH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
4316.00†	4229.13	-254.46	654.49	4277.40	4109.50	-249.58	990.19	-20.86	356.42	45.51	7.94	PASS	
4416.00†	4325.94	-263.55	677.86	4376.84	4202.76	-258.39	1023.56	-20.88	367.02	46.83	7.94	PASS	
4516.00†	4422.74	-272.64	701.23	4476.28	4296.01	-267.20	1056.92	-20.90	377.63	48.16	7.94	PASS	
4616.00†	4519.55	-281.72	724.61	4575.71	4389.27	-276.00	1090.28	-20.92	388.23	49.48	7.94	PASS	
4716.00†	4616.35	-290.81	747.98	4675.15	4482.53	-284.81	1123.64	-20.94	398.83	50.81	7.95	PASS	
4816.00†	4713.16	-299.90	771.35	4774.58	4575.78	-293.62	1157.00	-20.95	409.44	52.15	7.95	PASS	
4916.00†	4809.96	-308.98	794.72	4874.02	4669.04	-302.43	1190.37	-20.97	420.04	53.48	7.95	PASS	
5016.00†	4906.77	-318.07	818.10	4973.46	4762.30	-311.24	1223.73	-20.99	430.64	54.82	7.95	PASS	
5116.00†	5003.57	-327.16	841.47	5072.89	4855.56	-320.04	1257.09	-21.00	441.25	56.16	7.94	PASS	
5216.00†	5100.37	-336.25	864.84	5172.33	4948.81	-328.85	1290.45	-21.01	451.85	57.50	7.94	PASS	
5316.00†	5197.18	-345.33	888.21	5271.76	5042.07	-337.66	1323.81	-21.03	462.45	58.85	7.94	PASS	
5416.00†	5293.98	-354.42	911.59	5371.20	5135.33	-346.47	1357.18	-21.04	473.06	60.19	7.94	PASS	
5516.00†	5390.79	-363.51	934.96	5470.64	5228.59	-355.28	1390.54	-21.05	483.66	61.54	7.94	PASS	
5616.00†	5487.59	-372.59	958.33	5570.07	5321.84	-364.08	1423.90	-21.06	494.27	62.89	7.94	PASS	
5716.00†	5584.40	-381.68	981.70	5669.51	5415.10	-372.89	1457.26	-21.08	504.87	64.24	7.94	PASS	
5816.00†	5681.20	-390.77	1005.08	5768.95	5508.36	-381.70	1490.62	-21.09	515.47	65.59	7.93	PASS	
5916.00†	5778.01	-399.86	1028.45	5868.38	5601.62	-390.51	1523.99	-21.10	526.08	66.94	7.93	PASS	
6016.00†	5874.81	-408.94	1051.82	5967.82	5694.87	-399.32	1557.35	-21.11	536.68	68.29	7.93	PASS	
6116.00†	5971.62	-418.03	1075.19	6067.25	5788.13	-408.12	1590.71	-21.11	547.29	69.65	7.93	PASS	
6216.00†	6068.42	-427.12	1098.57	6166.69	5881.39	-416.93	1624.07	-21.12	557.89	71.00	7.93	PASS	
6316.00†	6165.23	-436.20	1121.94	6266.13	5974.65	-425.74	1657.43	-21.13	568.49	72.36	7.92	PASS	
6416.00†	6262.03	-445.29	1145.31	6365.56	6067.90	-434.55	1690.80	-21.14	579.10	73.72	7.92	PASS	
6516.00†	6358.84	-454.38	1168.68	6465.00	6161.16	-443.36	1724.16	-21.15	589.70	75.08	7.92	PASS	
6616.00†	6455.64	-463.46	1192.06	6564.43	6254.42	-452.16	1757.52	-21.16	600.31	76.44	7.92	PASS	
6716.00†	6552.45	-472.55	1215.43	6663.87	6347.68	-460.97	1790.88	-21.16	610.91	77.80	7.92	PASS	
6816.00†	6649.25	-481.64	1238.80	6763.31	6440.93	-469.78	1824.24	-21.17	621.51	79.16	7.91	PASS	
6916.00†	6746.05	-490.73	1262.17	6862.74	6534.19	-478.59	1857.61	-21.18	632.12	80.52	7.91	PASS	
7016.00†	6842.86	-499.81	1285.55	6962.18	6627.45	-487.40	1890.97	-21.19	642.72	81.88	7.91	PASS	
7110.80	6934.63	-508.43	1307.71	7056.45	6715.86	-495.75	1922.60	-21.19	652.77	83.17	7.91	PASS	
7116.00†	6939.67	-508.88	1308.92	7061.62	6720.71	-496.20	1924.33	-19.34	653.33	83.24	7.91	PASS	
7216.00†	7036.75	-508.34	1332.37	7160.48	6813.43	-504.96	1957.50	20.08	663.83	83.85	7.98	PASS	
7316.00†	7132.25	-490.48	1355.47	7258.30	6905.32	-510.61	1990.38	47.54	674.55	83.47	8.14	PASS	
7416.00†	7223.29	-455.82	1377.51	7360.29	7000.71	-500.15	2024.53	61.53	685.67	83.11	8.31	PASS	
7516.00†	7307.09	-405.42	1397.82	7467.44	7097.36	-470.01	2059.16	69.30	696.80	83.03	8.46	PASS	
7616.00†	7381.10	-340.82	1415.79	7580.29	7191.55	-418.24	2092.94	74.16	707.43	83.26	8.56	PASS	
7716.00†	7443.08	-263.97	1430.87	7699.10	7278.37	-343.71	2124.11	77.41	716.98	83.72	8.63	PASS	
7816.00†	7491.14	-177.21	1442.60	7823.66	7351.82	-246.95	2150.53	79.61	724.87	84.29	8.66	PASS	
7916.00†	7523.83	-83.18	1450.63	7953.14	7405.46	-131.01	2169.88	81.01	730.49	84.91	8.67	PASS	
8016.00†	7540.15	15.27	1454.71	8085.98	7433.63	-1.91	2180.14	81.69	733.41	85.67	8.62	PASS	
8062.75	7542.00	61.97	1455.22	8148.64	7437.00	60.62	2181.43	81.77	733.76	86.06	8.59	PASS	
8116.00†	7542.00	115.22	1455.30	8202.24	7437.00	114.22	2181.50	81.77	733.76	86.51	8.54	PASS	
8216.00†	7542.00	215.22	1455.44	8302.24	7437.00	214.22	2181.64	81.77	733.76	87.77	8.42	PASS	
8316.00†	7542.00	315.22	1455.58	8402.24	7437.00	314.22	2181.78	81.77	733.75	89.53	8.25	PASS	
8416.00†	7542.00	415.22	1455.72	8502.24	7437.00	414.22	2181.91	81.77	733.75	91.70	8.06	PASS	
8516.00†	7542.00	515.22	1455.86	8602.24	7437.00	514.22	2182.05	81.77	733.75	94.24	7.84	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

CLEARANCE DATA - Offset Wellbore: BRIGHTON LAKES 20-17-2NBH PWB Offset Wellpath: BRIGHTON LAKES 20-17-2NBH (NIO B CK, REV-A.0) PWP													
Facility: SEC.20-T01S-R66W		Slot: SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20)				Well: BRIGHTON LAKES 20-17-2NBH				Threshold Value=1.00		† = interpolated/extrapolated station	
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
8616.00†	7542.00	615.22	1456.00	8702.24	7437.00	614.22	2182.19	81.77	733.74	97.39	7.58	PASS	
8716.00†	7542.00	715.22	1456.14	8802.24	7437.00	714.22	2182.32	81.77	733.74	100.33	7.36	PASS	
8816.00†	7542.00	815.22	1456.27	8902.24	7437.00	814.22	2182.46	81.77	733.74	103.81	7.11	PASS	
8916.00†	7542.00	915.22	1456.41	9002.24	7437.00	914.22	2182.60	81.77	733.74	107.55	6.86	PASS	
9016.00†	7542.00	1015.22	1456.55	9102.24	7437.00	1014.22	2182.73	81.77	733.73	111.53	6.61	PASS	
9116.00†	7542.00	1115.22	1456.69	9202.24	7437.00	1114.22	2182.87	81.77	733.73	115.71	6.37	PASS	
9216.00†	7542.00	1215.22	1456.83	9302.24	7437.00	1214.22	2183.01	81.77	733.73	120.07	6.14	PASS	
9316.00†	7542.00	1315.22	1456.97	9402.24	7437.00	1314.22	2183.14	81.77	733.72	124.61	5.92	PASS	
9416.00†	7542.00	1415.22	1457.11	9502.24	7437.00	1414.22	2183.28	81.77	733.72	129.29	5.70	PASS	
9516.00†	7542.00	1515.22	1457.25	9602.24	7437.00	1514.22	2183.42	81.77	733.72	134.10	5.50	PASS	
9616.00†	7542.00	1615.22	1457.39	9702.24	7437.00	1614.22	2183.55	81.77	733.71	139.03	5.30	PASS	
9716.00†	7542.00	1715.22	1457.53	9802.24	7437.00	1714.22	2183.69	81.77	733.71	144.07	5.11	PASS	
9816.00†	7542.00	1815.22	1457.67	9902.24	7437.00	1814.22	2183.83	81.77	733.71	149.20	4.94	PASS	
9916.00†	7542.00	1915.22	1457.81	10002.24	7437.00	1914.22	2183.96	81.77	733.71	154.42	4.77	PASS	
10016.00†	7542.00	2015.21	1457.95	10102.24	7437.00	2014.22	2184.10	81.77	733.70	159.72	4.61	PASS	
10116.00†	7542.00	2115.21	1458.09	10202.24	7437.00	2114.22	2184.24	81.77	733.70	165.09	4.46	PASS	
10216.00†	7542.00	2215.21	1458.23	10302.24	7437.00	2214.22	2184.37	81.77	733.70	170.52	4.32	PASS	
10316.00†	7542.00	2315.21	1458.37	10402.24	7437.00	2314.22	2184.51	81.77	733.69	176.01	4.18	PASS	
10416.00†	7542.00	2415.21	1458.51	10502.24	7437.00	2414.22	2184.65	81.77	733.69	181.55	4.05	PASS	
10516.00†	7542.00	2515.21	1458.65	10602.24	7437.00	2514.22	2184.78	81.77	733.69	187.14	3.93	PASS	
10616.00†	7542.00	2615.21	1458.79	10702.24	7437.00	2614.22	2184.92	81.77	733.69	192.78	3.82	PASS	
10716.00†	7542.00	2715.21	1458.93	10802.24	7437.00	2714.22	2185.06	81.77	733.68	198.45	3.71	PASS	
10816.00†	7542.00	2815.21	1459.07	10902.24	7437.00	2814.22	2185.19	81.77	733.68	204.16	3.60	PASS	
10916.00†	7542.00	2915.21	1459.21	11002.24	7437.00	2914.22	2185.33	81.77	733.68	209.90	3.50	PASS	
11016.00†	7542.00	3015.21	1459.35	11102.24	7437.00	3014.22	2185.47	81.77	733.67	215.68	3.41	PASS	
11116.00†	7542.00	3115.21	1459.49	11202.24	7437.00	3114.22	2185.60	81.77	733.67	221.48	3.32	PASS	
11216.00†	7542.00	3215.21	1459.63	11302.24	7437.00	3214.22	2185.74	81.77	733.67	227.31	3.23	PASS	
11316.00†	7542.00	3315.21	1459.76	11402.24	7437.00	3314.22	2185.88	81.77	733.66	233.16	3.15	PASS	
11416.00†	7542.00	3415.21	1459.90	11502.24	7437.00	3414.22	2186.01	81.77	733.66	239.03	3.08	PASS	
11516.00†	7542.00	3515.21	1460.04	11602.24	7437.00	3514.22	2186.15	81.77	733.66	244.93	3.00	PASS	
11616.00†	7542.00	3615.21	1460.18	11702.24	7437.00	3614.22	2186.29	81.77	733.66	250.85	2.93	PASS	
11716.00†	7542.00	3715.21	1460.32	11802.24	7437.00	3714.22	2186.42	81.77	733.65	256.78	2.86	PASS	
11816.00†	7542.00	3815.21	1460.46	11902.24	7437.00	3814.22	2186.56	81.77	733.65	262.73	2.80	PASS	
11916.00†	7542.00	3915.21	1460.60	12002.24	7437.00	3914.22	2186.70	81.77	733.65	268.70	2.73	PASS	
12016.00†	7542.00	4015.21	1460.74	12102.24	7437.00	4014.22	2186.83	81.77	733.64	274.68	2.68	PASS	
12116.00†	7542.00	4115.21	1460.88	12202.24	7437.00	4114.22	2186.97	81.77	733.64	280.67	2.62	PASS	
12216.00†	7542.00	4215.21	1461.02	12302.24	7437.00	4214.22	2187.11	81.77	733.64	286.68	2.56	PASS	
12316.00†	7542.00	4315.21	1461.16	12402.24	7437.00	4314.22	2187.24	81.77	733.64	292.70	2.51	PASS	
12416.00†	7542.00	4415.21	1461.30	12502.24	7437.00	4414.22	2187.38	81.77	733.63	298.73	2.46	PASS	
12516.00†	7542.00	4515.21	1461.44	12602.24	7437.00	4514.22	2187.52	81.77	733.63	304.77	2.41	PASS	
12616.00†	7542.00	4615.21	1461.58	12702.24	7437.00	4614.22	2187.65	81.77	733.63	310.82	2.36	PASS	
12716.00†	7542.00	4715.21	1461.72	12802.24	7437.00	4714.22	2187.79	81.77	733.62	316.88	2.32	PASS	
12816.00†	7542.00	4815.21	1461.86	12902.24	7437.00	4814.22	2187.93	81.77	733.62	322.95	2.27	PASS	
12916.00†	7542.00	4915.21	1462.00	13002.24	7437.00	4914.22	2188.06	81.77	733.62	329.03	2.23	PASS	
13016.00†	7542.00	5015.21	1462.14	13102.24	7437.00	5014.22	2188.20	81.77	733.61	335.12	2.19	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-2NBH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
13116.00†	7542.00	5115.21	1462.28	13202.24	7437.00	5114.22	2188.34	81.77	733.61	341.21	2.15	PASS	
13216.00†	7542.00	5215.21	1462.42	13302.24	7437.00	5214.22	2188.47	81.77	733.61	347.31	2.11	PASS	
13316.00†	7542.00	5315.21	1462.56	13402.24	7437.00	5314.22	2188.61	81.77	733.61	353.42	2.08	PASS	
13416.00†	7542.00	5415.21	1462.70	13502.24	7437.00	5414.22	2188.75	81.77	733.60	359.53	2.04	PASS	
13516.00†	7542.00	5515.21	1462.84	13602.24	7437.00	5514.22	2188.88	81.77	733.60	365.65	2.01	PASS	
13616.00†	7542.00	5615.21	1462.98	13702.24	7437.00	5614.22	2189.02	81.77	733.60	371.78	1.98	PASS	
13716.00†	7542.00	5715.21	1463.11	13802.24	7437.00	5714.22	2189.16	81.77	733.59	377.91	1.94	PASS	
13816.00†	7542.00	5815.21	1463.25	13902.24	7437.00	5814.22	2189.29	81.77	733.59	384.05	1.91	PASS	
13916.00†	7542.00	5915.21	1463.39	14002.24	7437.00	5914.22	2189.43	81.77	733.59	390.19	1.88	PASS	
14016.00†	7542.00	6015.21	1463.53	14102.24	7437.00	6014.22	2189.56	81.77	733.59	396.33	1.85	PASS	
14116.00†	7542.00	6115.21	1463.67	14202.24	7437.00	6114.22	2189.70	81.77	733.58	402.49	1.82	PASS	
14216.00†	7542.00	6215.21	1463.81	14302.24	7437.00	6214.22	2189.84	81.77	733.58	408.64	1.80	PASS	
14316.00†	7542.00	6315.21	1463.95	14402.24	7437.00	6314.22	2189.97	81.77	733.58	414.80	1.77	PASS	
14416.00†	7542.00	6415.21	1464.09	14502.24	7437.00	6414.22	2190.11	81.77	733.57	420.96	1.74	PASS	
14516.00†	7542.00	6515.21	1464.23	14602.24	7437.00	6514.22	2190.25	81.77	733.57	427.13	1.72	PASS	
14616.00†	7542.00	6615.21	1464.37	14702.24	7437.00	6614.22	2190.38	81.77	733.57	433.30	1.69	PASS	
14716.00†	7542.00	6715.21	1464.51	14802.24	7437.00	6714.22	2190.52	81.77	733.56	439.48	1.67	PASS	
14816.00†	7542.00	6815.21	1464.65	14902.24	7437.00	6814.22	2190.66	81.77	733.56	445.66	1.65	PASS	
14916.00†	7542.00	6915.21	1464.79	15002.24	7437.00	6914.22	2190.79	81.77	733.56	451.84	1.62	PASS	
15016.00†	7542.00	7015.21	1464.93	15102.24	7437.00	7014.22	2190.93	81.77	733.56	458.02	1.60	PASS	
15116.00†	7542.00	7115.21	1465.07	15202.24	7437.00	7114.22	2191.07	81.77	733.55	464.21	1.58	PASS	
15216.00†	7542.00	7215.21	1465.21	15302.24	7437.00	7214.22	2191.20	81.77	733.55	470.40	1.56	PASS	
15316.00†	7542.00	7315.21	1465.35	15402.24	7437.00	7314.22	2191.34	81.77	733.55	476.59	1.54	PASS	
15416.00†	7542.00	7415.21	1465.49	15502.24	7437.00	7414.22	2191.48	81.77	733.54	482.79	1.52	PASS	
15516.00†	7542.00	7515.21	1465.63	15602.24	7437.00	7514.22	2191.61	81.77	733.54	488.98	1.50	PASS	
15616.00†	7542.00	7615.21	1465.77	15702.24	7437.00	7614.22	2191.75	81.77	733.54	495.18	1.48	PASS	
15716.00†	7542.00	7715.21	1465.91	15802.24	7437.00	7714.22	2191.89	81.77	733.54	501.39	1.46	PASS	
15816.00†	7542.00	7815.21	1466.05	15902.24	7437.00	7814.22	2192.02	81.77	733.53	507.59	1.45	PASS	
15916.00†	7542.00	7915.21	1466.19	16002.24	7437.00	7914.22	2192.16	81.77	733.53	513.80	1.43	PASS	
16016.00†	7542.00	8015.21	1466.33	16102.24	7437.00	8014.22	2192.30	81.77	733.53	520.01	1.41	PASS	
16116.00†	7542.00	8115.21	1466.47	16202.24	7437.00	8114.22	2192.43	81.77	733.52	526.22	1.39	PASS	
16216.00†	7542.00	8215.21	1466.60	16302.24	7437.00	8214.22	2192.57	81.77	733.52	532.43	1.38	PASS	
16316.00†	7542.00	8315.21	1466.74	16402.24	7437.00	8314.22	2192.71	81.77	733.52	538.65	1.36	PASS	
16416.00†	7542.00	8415.21	1466.88	16502.24	7437.00	8414.22	2192.84	81.77	733.51	544.86	1.35	PASS	
16516.00†	7542.00	8515.21	1467.02	16602.24	7437.00	8514.22	2192.98	81.77	733.51	551.08	1.33	PASS	
16616.00†	7542.00	8615.21	1467.16	16702.24	7437.00	8614.22	2193.12	81.77	733.51	557.30	1.32	PASS	
16716.00†	7542.00	8715.21	1467.30	16802.24	7437.00	8714.22	2193.25	81.77	733.51	563.52	1.30	PASS	
16816.00†	7542.00	8815.21	1467.44	16902.24	7437.00	8814.22	2193.39	81.77	733.50	569.75	1.29	PASS	
16916.00†	7542.00	8915.21	1467.58	17002.24	7437.00	8914.22	2193.53	81.77	733.50	575.97	1.27	PASS	
17016.00†	7542.00	9015.21	1467.72	17102.24	7437.00	9014.22	2193.66	81.77	733.50	582.20	1.26	PASS	
17116.00†	7542.00	9115.21	1467.86	17202.24	7437.00	9114.22	2193.80	81.77	733.49	588.43	1.25	PASS	
17216.00†	7542.00	9215.21	1468.00	17302.24	7437.00	9214.22	2193.94	81.77	733.49	594.66	1.23	PASS	
17316.00†	7542.00	9315.21	1468.14	17402.24	7437.00	9314.22	2194.07	81.77	733.49	600.89	1.22	PASS	
17416.00†	7542.00	9415.21	1468.28	17502.24	7437.00	9414.22	2194.21	81.77	733.49	607.12	1.21	PASS	
17516.00†	7542.00	9515.21	1468.42	17602.24	7437.00	9514.22	2194.35	81.77	733.48	613.35	1.20	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#05 BRIGHTON LAKES 20-17-2NBH (400'FSL & 1934'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-2NBH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
17616.00†	7542.00	9615.21	1468.56	17702.24	7437.00	9614.22	2194.48	81.77	733.48	619.59	1.18	PASS	
17698.07	7542.00	9697.28	1468.67	17784.31	7437.00	9696.29	2194.60	81.77	733.48	624.70	1.17	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

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

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	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	17790.00	16908.00	882.00	N/A	0.00	27.35	N/A	N/A

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

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

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

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



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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	61.69	90.00	61.69	1.56	101.20	PASS	
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	61.69	90.00	61.69	1.89	65.28	PASS	
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	61.69	90.00	61.69	2.47	40.30	PASS	
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	61.69	90.00	61.69	3.08	28.74	PASS	
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	61.69	90.00	61.69	3.69	22.25	PASS	
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	61.69	90.00	61.69	4.31	18.13	PASS	
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	61.69	90.00	61.69	4.94	15.28	PASS	
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	61.69	90.00	61.69	5.56	13.21	PASS	
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	61.69	90.00	61.69	6.19	11.63	PASS	
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	61.69	90.00	61.69	6.25	10.99	PASS	
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	61.69	90.00	61.69	6.40	10.72	PASS	
1116.00†	1116.00	0.00	0.00	1114.75	1114.74	-0.10	62.09	90.09	62.10	6.72	10.21	PASS	
1216.00†	1216.00	0.00	0.00	1211.47	1211.36	-1.13	66.43	90.98	66.60	7.51	9.69	PASS	
1275.00	1275.00	0.00	0.00	1268.25	1267.92	-2.27	71.19	91.82	71.58	8.27	9.38	PASS	
1316.00†	1316.00	-0.16	0.41	1307.55	1306.98	-3.28	75.44	-18.82	75.64	8.82	9.23	PASS	
1416.00†	1415.87	-1.89	4.85	1403.09	1401.48	-6.52	89.03	-17.92	85.53	10.37	8.78	PASS	
1516.00†	1515.36	-5.50	14.15	1498.17	1494.71	-10.83	107.10	-17.61	95.36	12.10	8.31	PASS	
1616.00†	1614.19	-11.00	28.30	1592.80	1586.48	-16.18	129.55	-17.73	105.10	13.71	8.03	PASS	
1716.00†	1712.09	-18.37	47.24	1687.00	1676.58	-22.55	156.25	-18.17	114.72	15.19	7.88	PASS	
1759.10	1753.93	-22.11	56.88	1727.47	1714.85	-25.60	169.05	-18.43	118.84	15.72	7.87	PASS	
1816.00†	1809.01	-27.28	70.18	1780.69	1764.74	-29.89	187.07	-18.77	125.02	16.27	7.99	PASS	
1916.00†	1905.82	-36.37	93.55	1878.70	1855.84	-38.28	222.24	-19.13	138.07	17.11	8.37	PASS	
2016.00†	2002.62	-45.46	116.92	1977.83	1947.95	-46.78	257.89	-19.43	151.20	18.10	8.66	PASS	
2116.00†	2099.43	-54.55	140.29	2076.96	2040.06	-55.28	293.53	-19.67	164.34	18.90	8.99	PASS	
2216.00†	2196.23	-63.63	163.67	2176.09	2132.17	-63.78	329.18	-19.88	177.48	19.88	9.22	PASS	
2316.00†	2293.04	-72.72	187.04	2275.23	2224.28	-72.28	364.83	-20.07	190.62	20.92	9.40	PASS	
2416.00†	2389.84	-81.81	210.41	2374.36	2316.38	-80.78	400.47	-20.23	203.77	21.99	9.54	PASS	
2516.00†	2486.65	-90.89	233.78	2473.49	2408.49	-89.27	436.12	-20.37	216.91	23.11	9.65	PASS	
2616.00†	2583.45	-99.98	257.16	2572.62	2500.60	-97.77	471.77	-20.49	230.06	24.25	9.74	PASS	
2716.00†	2680.26	-109.07	280.53	2671.75	2592.71	-106.27	507.41	-20.60	243.20	25.42	9.81	PASS	
2816.00†	2777.06	-118.16	303.90	2770.88	2684.82	-114.77	543.06	-20.70	256.35	26.61	9.87	PASS	
2916.00†	2873.87	-127.24	327.27	2870.01	2776.93	-123.27	578.70	-20.79	269.50	27.83	9.91	PASS	
3016.00†	2970.67	-136.33	350.65	2969.14	2869.04	-131.77	614.35	-20.87	282.65	29.06	9.95	PASS	
3116.00†	3067.48	-145.42	374.02	3068.27	2961.15	-140.27	650.00	-20.94	295.80	30.30	9.97	PASS	
3216.00†	3164.28	-154.50	397.39	3167.40	3053.26	-148.77	685.64	-21.01	308.95	31.56	9.99	PASS	
3316.00†	3261.09	-163.59	420.76	3266.54	3145.37	-157.27	721.29	-21.07	322.10	32.83	10.00	PASS	
3416.00†	3357.89	-172.68	444.14	3365.67	3237.47	-165.77	756.94	-21.13	335.25	34.12	10.01	PASS	
3516.00†	3454.69	-181.76	467.51	3464.80	3329.58	-174.26	792.58	-21.18	348.40	35.41	10.02	PASS	
3616.00†	3551.50	-190.85	490.88	3563.93	3421.69	-182.76	828.23	-21.23	361.55	36.71	10.02	PASS	
3716.00†	3648.30	-199.94	514.25	3663.06	3513.80	-191.26	863.87	-21.28	374.70	38.02	10.02	PASS	
3816.00†	3745.11	-209.03	537.63	3762.19	3605.91	-199.76	899.52	-21.32	387.85	39.33	10.02	PASS	
3916.00†	3841.91	-218.11	561.00	3861.32	3698.02	-208.26	935.17	-21.36	401.00	40.65	10.02	PASS	
4016.00†	3938.72	-227.20	584.37	3960.45	3790.13	-216.76	970.81	-21.39	414.15	41.98	10.02	PASS	
4116.00†	4035.52	-236.29	607.74	4059.58	3882.24	-225.26	1006.46	-21.43	427.31	43.31	10.01	PASS	
4216.00†	4132.33	-245.37	631.12	4158.71	3974.35	-233.76	1042.10	-21.46	440.46	44.65	10.01	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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†	4229.13	-254.46	654.49	4257.85	4066.46	-242.26	1077.75	-21.49	453.61	45.99	10.00	PASS	
4416.00†	4325.94	-263.55	677.86	4356.98	4158.57	-250.76	1113.40	-21.52	466.76	47.33	10.00	PASS	
4516.00†	4422.74	-272.64	701.23	4456.11	4250.67	-259.25	1149.04	-21.55	479.92	48.68	9.99	PASS	
4616.00†	4519.55	-281.72	724.61	4555.24	4342.78	-267.75	1184.69	-21.58	493.07	50.03	9.98	PASS	
4716.00†	4616.35	-290.81	747.98	4654.37	4434.89	-276.25	1220.34	-21.60	506.22	51.38	9.98	PASS	
4816.00†	4713.16	-299.90	771.35	4753.50	4527.00	-284.75	1255.98	-21.62	519.37	52.74	9.97	PASS	
4916.00†	4809.96	-308.98	794.72	4852.63	4619.11	-293.25	1291.63	-21.65	532.53	54.10	9.96	PASS	
5016.00†	4906.77	-318.07	818.10	4951.76	4711.22	-301.75	1327.27	-21.67	545.68	55.46	9.95	PASS	
5116.00†	5003.57	-327.16	841.47	5050.89	4803.33	-310.25	1362.92	-21.69	558.83	56.82	9.95	PASS	
5216.00†	5100.37	-336.25	864.84	5150.03	4895.44	-318.75	1398.57	-21.71	571.99	58.19	9.94	PASS	
5316.00†	5197.18	-345.33	888.21	5249.16	4987.55	-327.25	1434.21	-21.73	585.14	59.56	9.93	PASS	
5416.00†	5293.98	-354.42	911.59	5348.29	5079.66	-335.75	1469.86	-21.74	598.29	60.93	9.92	PASS	
5516.00†	5390.79	-363.51	934.96	5447.42	5171.76	-344.24	1505.51	-21.76	611.45	62.30	9.92	PASS	
5616.00†	5487.59	-372.59	958.33	5546.55	5263.87	-352.74	1541.15	-21.78	624.60	63.67	9.91	PASS	
5716.00†	5584.40	-381.68	981.70	5645.68	5355.98	-361.24	1576.80	-21.79	637.75	65.04	9.90	PASS	
5816.00†	5681.20	-390.77	1005.08	5744.81	5448.09	-369.74	1612.44	-21.81	650.91	66.42	9.89	PASS	
5916.00†	5778.01	-399.86	1028.45	5843.94	5540.20	-378.24	1648.09	-21.82	664.06	67.80	9.89	PASS	
6016.00†	5874.81	-408.94	1051.82	5943.07	5632.31	-386.74	1683.74	-21.83	677.21	69.17	9.88	PASS	
6116.00†	5971.62	-418.03	1075.19	6042.20	5724.42	-395.24	1719.38	-21.85	690.37	70.55	9.87	PASS	
6216.00†	6068.42	-427.12	1098.57	6141.34	5816.53	-403.74	1755.03	-21.86	703.52	71.93	9.87	PASS	
6316.00†	6165.23	-436.20	1121.94	6240.47	5908.64	-412.24	1790.68	-21.87	716.67	73.31	9.86	PASS	
6416.00†	6262.03	-445.29	1145.31	6339.60	6000.75	-420.74	1826.32	-21.88	729.83	74.69	9.85	PASS	
6516.00†	6358.84	-454.38	1168.68	6438.73	6092.85	-429.23	1861.97	-21.90	742.98	76.08	9.85	PASS	
6616.00†	6455.64	-463.46	1192.06	6537.86	6184.96	-437.73	1897.61	-21.91	756.13	77.46	9.84	PASS	
6716.00†	6552.45	-472.55	1215.43	6636.99	6277.07	-446.23	1933.26	-21.92	769.29	78.84	9.84	PASS	
6816.00†	6649.25	-481.64	1238.80	6736.12	6369.18	-454.73	1968.91	-21.93	782.44	80.23	9.83	PASS	
6916.00†	6746.05	-490.73	1262.17	6835.25	6461.29	-463.23	2004.55	-21.94	795.60	81.62	9.82	PASS	
7016.00†	6842.86	-499.81	1285.55	6934.38	6553.40	-471.73	2040.20	-21.95	808.75	83.00	9.82	PASS	
7110.80	6934.63	-508.43	1307.71	7028.36	6640.72	-479.79	2073.99	-21.96	821.22	84.32	9.81	PASS	
7116.00†	6939.67	-508.88	1308.92	7033.51	6645.51	-480.23	2075.85	-20.12	821.90	84.39	9.81	PASS	
7216.00†	7036.75	-508.34	1332.37	7132.10	6737.12	-488.68	2111.30	18.89	834.80	85.11	9.88	PASS	
7316.00†	7132.25	-490.48	1355.47	7227.62	6825.87	-496.87	2145.64	45.90	847.52	84.77	10.07	PASS	
7416.00†	7223.29	-455.82	1377.51	7317.16	6909.06	-504.55	2177.84	60.06	861.19	83.72	10.37	PASS	
7516.00†	7307.09	-405.42	1397.82	7405.70	6991.42	-510.59	2209.72	68.50	877.43	82.75	10.69	PASS	
7616.00†	7381.10	-340.82	1415.79	7510.64	7088.83	-502.28	2247.44	74.47	896.17	82.97	10.89	PASS	
7716.00†	7443.08	-263.97	1430.87	7633.82	7199.05	-468.49	2290.15	79.17	916.37	84.38	10.94	PASS	
7816.00†	7491.14	-177.21	1442.60	7783.80	7320.27	-394.59	2337.18	83.26	936.33	85.93	10.98	PASS	
7916.00†	7523.83	-83.18	1450.63	7970.31	7439.55	-260.04	2383.54	86.80	953.26	86.30	11.13	PASS	
8016.00†	7540.15	15.27	1454.71	8195.41	7520.90	-54.15	2415.31	89.09	963.30	85.76	11.32	PASS	
8062.75	7542.00	61.97	1455.22	8309.03	7531.99	58.66	2419.76	89.41	964.59	85.99	11.30	PASS	
8116.00†	7542.00	115.22	1455.30	8364.28	7532.00	113.91	2419.84	89.41	964.59	86.39	11.25	PASS	
8216.00†	7542.00	215.22	1455.44	8464.28	7532.00	213.91	2419.97	89.41	964.59	87.52	11.10	PASS	
8316.00†	7542.00	315.22	1455.58	8564.28	7532.00	313.91	2420.11	89.41	964.58	89.17	10.90	PASS	
8416.00†	7542.00	415.22	1455.72	8664.28	7532.00	413.91	2420.24	89.41	964.58	91.24	10.65	PASS	
8516.00†	7542.00	515.22	1455.86	8764.28	7532.00	513.91	2420.38	89.41	964.57	99.24	9.78	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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†	7542.00	615.22	1456.00	8864.28	7532.00	613.91	2420.51	89.41	964.57	96.51	10.06	PASS	
8716.00†	7542.00	715.22	1456.14	8964.28	7532.00	713.91	2420.65	89.41	964.57	99.65	9.74	PASS	
8816.00†	7542.00	815.22	1456.27	9064.28	7532.00	813.91	2420.78	89.41	964.56	103.09	9.41	PASS	
8916.00†	7542.00	915.22	1456.41	9164.28	7532.00	913.91	2420.92	89.41	964.56	106.80	9.08	PASS	
9016.00†	7542.00	1015.22	1456.55	9264.28	7532.00	1013.91	2421.06	89.41	964.55	110.76	8.76	PASS	
9116.00†	7542.00	1115.22	1456.69	9364.28	7532.00	1113.91	2421.19	89.41	964.55	114.92	8.44	PASS	
9216.00†	7542.00	1215.22	1456.83	9464.28	7532.00	1213.91	2421.33	89.41	964.55	119.28	8.13	PASS	
9316.00†	7542.00	1315.22	1456.97	9564.28	7532.00	1313.91	2421.46	89.41	964.54	123.82	7.83	PASS	
9416.00†	7542.00	1415.22	1457.11	9664.28	7532.00	1413.91	2421.60	89.41	964.54	128.50	7.54	PASS	
9516.00†	7542.00	1515.22	1457.25	9764.28	7532.00	1513.91	2421.73	89.41	964.53	133.33	7.27	PASS	
9616.00†	7542.00	1615.22	1457.39	9864.28	7532.00	1613.91	2421.87	89.41	964.53	138.28	7.01	PASS	
9716.00†	7542.00	1715.22	1457.53	9964.28	7532.00	1713.91	2422.01	89.41	964.53	143.34	6.76	PASS	
9816.00†	7542.00	1815.22	1457.67	10064.28	7532.00	1813.91	2422.14	89.41	964.52	148.50	6.52	PASS	
9916.00†	7542.00	1915.22	1457.81	10164.28	7532.00	1913.91	2422.28	89.41	964.52	153.75	6.30	PASS	
10016.00†	7542.00	2015.21	1457.95	10264.28	7532.00	2013.91	2422.41	89.41	964.52	159.08	6.09	PASS	
10116.00†	7542.00	2115.21	1458.09	10364.28	7532.00	2113.91	2422.55	89.41	964.51	164.48	5.89	PASS	
10216.00†	7542.00	2215.21	1458.23	10464.28	7532.00	2213.91	2422.68	89.41	964.51	169.95	5.69	PASS	
10316.00†	7542.00	2315.21	1458.37	10564.28	7532.00	2313.91	2422.82	89.41	964.50	175.47	5.51	PASS	
10416.00†	7542.00	2415.21	1458.51	10664.28	7532.00	2413.91	2422.96	89.41	964.50	181.05	5.34	PASS	
10516.00†	7542.00	2515.21	1458.65	10764.28	7532.00	2513.91	2423.09	89.41	964.50	186.69	5.18	PASS	
10616.00†	7542.00	2615.21	1458.79	10864.28	7532.00	2613.91	2423.23	89.41	964.49	192.36	5.03	PASS	
10716.00†	7542.00	2715.21	1458.93	10964.28	7532.00	2713.91	2423.36	89.41	964.49	198.08	4.88	PASS	
10816.00†	7542.00	2815.21	1459.07	11064.28	7532.00	2813.91	2423.50	89.41	964.48	203.83	4.74	PASS	
10916.00†	7542.00	2915.21	1459.21	11164.28	7532.00	2913.91	2423.63	89.41	964.48	209.62	4.61	PASS	
11016.00†	7542.00	3015.21	1459.35	11264.28	7532.00	3013.91	2423.77	89.41	964.48	215.44	4.49	PASS	
11116.00†	7542.00	3115.21	1459.49	11364.28	7532.00	3113.91	2423.90	89.41	964.47	221.29	4.37	PASS	
11216.00†	7542.00	3215.21	1459.63	11464.28	7532.00	3213.91	2424.04	89.41	964.47	227.17	4.26	PASS	
11316.00†	7542.00	3315.21	1459.76	11564.28	7532.00	3313.91	2424.18	89.41	964.46	233.07	4.15	PASS	
11416.00†	7542.00	3415.21	1459.90	11664.28	7532.00	3413.91	2424.31	89.41	964.46	238.99	4.04	PASS	
11516.00†	7542.00	3515.21	1460.04	11764.28	7532.00	3513.91	2424.45	89.41	964.46	244.94	3.95	PASS	
11616.00†	7542.00	3615.21	1460.18	11864.28	7532.00	3613.91	2424.58	89.41	964.45	250.90	3.85	PASS	
11716.00†	7542.00	3715.21	1460.32	11964.28	7532.00	3713.90	2424.72	89.41	964.45	256.89	3.76	PASS	
11816.00†	7542.00	3815.21	1460.46	12064.28	7532.00	3813.90	2424.85	89.41	964.44	262.89	3.68	PASS	
11916.00†	7542.00	3915.21	1460.60	12164.28	7532.00	3913.90	2424.99	89.41	964.44	268.91	3.59	PASS	
12016.00†	7542.00	4015.21	1460.74	12264.28	7532.00	4013.90	2425.13	89.41	964.44	274.94	3.51	PASS	
12116.00†	7542.00	4115.21	1460.88	12364.28	7532.00	4113.90	2425.26	89.41	964.43	280.99	3.44	PASS	
12216.00†	7542.00	4215.21	1461.02	12464.28	7532.00	4213.90	2425.40	89.41	964.43	287.05	3.37	PASS	
12316.00†	7542.00	4315.21	1461.16	12564.28	7532.00	4313.90	2425.53	89.41	964.42	293.12	3.30	PASS	
12416.00†	7542.00	4415.21	1461.30	12664.28	7532.00	4413.90	2425.67	89.41	964.42	299.20	3.23	PASS	
12516.00†	7542.00	4515.21	1461.44	12764.28	7532.00	4513.90	2425.80	89.41	964.42	305.30	3.16	PASS	
12616.00†	7542.00	4615.21	1461.58	12864.28	7532.00	4613.90	2425.94	89.41	964.41	311.40	3.10	PASS	
12716.00†	7542.00	4715.21	1461.72	12964.28	7532.00	4713.90	2426.08	89.41	964.41	317.51	3.04	PASS	
12816.00†	7542.00	4815.21	1461.86	13064.28	7532.00	4813.90	2426.21	89.41	964.41	323.64	2.98	PASS	
12916.00†	7542.00	4915.21	1462.00	13164.28	7532.00	4913.90	2426.35	89.41	964.40	329.77	2.93	PASS	
13016.00†	7542.00	5015.21	1462.14	13264.28	7532.00	5013.90	2426.48	89.41	964.40	335.91	2.87	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-2NCH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
13116.00†	7542.00	5115.21	1462.28	13364.28	7532.00	5113.90	2426.62	89.41	964.39	342.06	2.82	PASS	
13216.00†	7542.00	5215.21	1462.42	13464.28	7532.00	5213.90	2426.75	89.41	964.39	348.21	2.77	PASS	
13316.00†	7542.00	5315.21	1462.56	13564.28	7532.00	5313.90	2426.89	89.41	964.39	354.37	2.72	PASS	
13416.00†	7542.00	5415.21	1462.70	13664.28	7532.00	5413.90	2427.02	89.41	964.38	360.54	2.68	PASS	
13516.00†	7542.00	5515.21	1462.84	13764.28	7532.00	5513.90	2427.16	89.41	964.38	366.71	2.63	PASS	
13616.00†	7542.00	5615.21	1462.98	13864.28	7532.00	5613.90	2427.30	89.41	964.37	372.90	2.59	PASS	
13716.00†	7542.00	5715.21	1463.11	13964.28	7532.00	5713.90	2427.43	89.41	964.37	379.08	2.55	PASS	
13816.00†	7542.00	5815.21	1463.25	14064.28	7532.00	5813.90	2427.57	89.41	964.37	385.27	2.51	PASS	
13916.00†	7542.00	5915.21	1463.39	14164.28	7532.00	5913.90	2427.70	89.41	964.36	391.47	2.47	PASS	
14016.00†	7542.00	6015.21	1463.53	14264.28	7532.00	6013.90	2427.84	89.41	964.36	397.67	2.43	PASS	
14116.00†	7542.00	6115.21	1463.67	14364.28	7532.00	6113.90	2427.97	89.41	964.35	403.88	2.39	PASS	
14216.00†	7542.00	6215.21	1463.81	14464.28	7532.00	6213.90	2428.11	89.41	964.35	410.09	2.35	PASS	
14316.00†	7542.00	6315.21	1463.95	14564.28	7532.00	6313.90	2428.25	89.41	964.35	416.30	2.32	PASS	
14416.00†	7542.00	6415.21	1464.09	14664.28	7532.00	6413.90	2428.38	89.41	964.34	422.52	2.28	PASS	
14516.00†	7542.00	6515.21	1464.23	14764.28	7532.00	6513.90	2428.52	89.41	964.34	428.74	2.25	PASS	
14616.00†	7542.00	6615.21	1464.37	14864.28	7532.00	6613.90	2428.65	89.41	964.33	434.97	2.22	PASS	
14716.00†	7542.00	6715.21	1464.51	14964.28	7532.00	6713.90	2428.79	89.41	964.33	441.20	2.19	PASS	
14816.00†	7542.00	6815.21	1464.65	15064.28	7532.00	6813.90	2428.92	89.41	964.33	447.43	2.16	PASS	
14916.00†	7542.00	6915.21	1464.79	15164.28	7532.00	6913.90	2429.06	89.41	964.32	453.67	2.13	PASS	
15016.00†	7542.00	7015.21	1464.93	15264.28	7532.00	7013.90	2429.20	89.41	964.32	459.90	2.10	PASS	
15116.00†	7542.00	7115.21	1465.07	15364.28	7532.00	7113.90	2429.33	89.41	964.31	466.15	2.07	PASS	
15216.00†	7542.00	7215.21	1465.21	15464.28	7532.00	7213.90	2429.47	89.41	964.31	472.39	2.04	PASS	
15316.00†	7542.00	7315.21	1465.35	15564.28	7532.00	7313.90	2429.60	89.41	964.31	478.64	2.02	PASS	
15416.00†	7542.00	7415.21	1465.49	15664.28	7532.00	7413.90	2429.74	89.41	964.30	484.89	1.99	PASS	
15516.00†	7542.00	7515.21	1465.63	15764.28	7532.00	7513.90	2429.87	89.41	964.30	491.14	1.96	PASS	
15616.00†	7542.00	7615.21	1465.77	15864.28	7532.00	7613.90	2430.01	89.41	964.29	497.40	1.94	PASS	
15716.00†	7542.00	7715.21	1465.91	15964.28	7532.00	7713.90	2430.15	89.41	964.29	503.66	1.92	PASS	
15816.00†	7542.00	7815.21	1466.05	16064.28	7532.00	7813.90	2430.28	89.41	964.29	509.92	1.89	PASS	
15916.00†	7542.00	7915.21	1466.19	16164.28	7532.00	7913.90	2430.42	89.41	964.28	516.18	1.87	PASS	
16016.00†	7542.00	8015.21	1466.33	16264.28	7532.00	8013.90	2430.55	89.41	964.28	522.44	1.85	PASS	
16116.00†	7542.00	8115.21	1466.47	16364.28	7532.00	8113.90	2430.69	89.41	964.28	528.71	1.82	PASS	
16216.00†	7542.00	8215.21	1466.60	16464.28	7532.00	8213.90	2430.82	89.41	964.27	534.98	1.80	PASS	
16316.00†	7542.00	8315.21	1466.74	16564.28	7532.00	8313.90	2430.96	89.41	964.27	541.25	1.78	PASS	
16416.00†	7542.00	8415.21	1466.88	16664.28	7532.00	8413.90	2431.09	89.41	964.26	547.52	1.76	PASS	
16516.00†	7542.00	8515.21	1467.02	16764.28	7532.00	8513.90	2431.23	89.41	964.26	553.80	1.74	PASS	
16616.00†	7542.00	8615.21	1467.16	16864.28	7532.00	8613.90	2431.37	89.41	964.26	560.07	1.72	PASS	
16716.00†	7542.00	8715.21	1467.30	16964.28	7532.00	8713.90	2431.50	89.41	964.25	566.35	1.70	PASS	
16816.00†	7542.00	8815.21	1467.44	17064.28	7532.00	8813.90	2431.64	89.41	964.25	572.63	1.68	PASS	
16916.00†	7542.00	8915.21	1467.58	17164.28	7532.00	8913.90	2431.77	89.41	964.24	578.91	1.67	PASS	
17016.00†	7542.00	9015.21	1467.72	17264.28	7532.00	9013.90	2431.91	89.41	964.24	585.19	1.65	PASS	
17116.00†	7542.00	9115.21	1467.86	17364.28	7532.00	9113.90	2432.04	89.41	964.24	591.47	1.63	PASS	
17216.00†	7542.00	9215.21	1468.00	17464.28	7532.00	9213.90	2432.18	89.41	964.23	597.76	1.61	PASS	
17316.00†	7542.00	9315.21	1468.14	17564.28	7532.00	9313.90	2432.32	89.41	964.23	604.04	1.60	PASS	
17416.00†	7542.00	9415.21	1468.28	17664.28	7532.00	9413.90	2432.45	89.41	964.22	610.33	1.58	PASS	
17516.00†	7542.00	9515.21	1468.42	17764.28	7532.00	9513.90	2432.59	89.41	964.22	616.62	1.56	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-2NCH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
17616.00†	7542.00	9615.21	1468.56	17864.28	7532.00	9613.90	2432.72	89.41	964.22	622.91	1.55	PASS	
17698.07	7542.00	9697.28	1468.67	17946.35	7532.00	9695.97	2432.83	89.41	964.21	628.07	1.54	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

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

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	37.60	0.00	37.60
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	37.60	0.00	37.60
8.5in Open Hole	882.00	17952.00	17070.00	882.00	N/A	0.00	37.60	N/A	N/A

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

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

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

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



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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	75.71	90.00	75.71	1.56	124.57	PASS	
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	75.71	90.00	75.71	1.89	80.35	PASS	
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	75.71	90.00	75.71	2.47	49.60	PASS	
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	75.71	90.00	75.71	3.08	35.37	PASS	
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	75.71	90.00	75.71	3.69	27.38	PASS	
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	75.71	90.00	75.71	4.31	22.31	PASS	
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	75.71	90.00	75.71	4.94	18.81	PASS	
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	75.71	90.00	75.71	5.56	16.26	PASS	
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	75.71	90.00	75.71	6.19	14.31	PASS	
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	75.71	90.00	75.71	6.26	13.52	PASS	
1016.00†	1016.00	0.00	0.00	1016.00	1016.00	0.00	75.71	90.00	75.71	6.40	13.19	PASS	
1116.00†	1116.00	0.00	0.00	1112.55	1112.51	-0.43	77.67	90.31	77.75	6.89	12.46	PASS	
1216.00†	1216.00	0.00	0.00	1208.31	1208.03	-1.87	84.30	91.27	84.69	8.05	11.44	PASS	
1275.00	1275.00	0.00	0.00	1264.42	1263.79	-3.18	90.35	92.02	91.10	8.88	11.07	PASS	
1316.00†	1316.00	-0.16	0.41	1303.22	1302.24	-4.30	95.47	-18.70	96.14	9.36	11.04	PASS	
1416.00†	1415.87	-1.89	4.85	1397.48	1395.12	-7.69	111.09	-17.91	108.40	10.70	10.78	PASS	
1516.00†	1515.36	-5.50	14.15	1491.19	1486.57	-12.03	131.03	-17.64	120.54	12.41	10.24	PASS	
1616.00†	1614.19	-11.00	28.30	1584.36	1576.40	-17.28	155.18	-17.75	132.54	13.97	9.94	PASS	
1716.00†	1712.09	-18.37	47.24	1677.03	1664.43	-23.42	183.41	-18.14	144.36	15.41	9.77	PASS	
1759.10	1753.93	-22.11	56.88	1716.81	1701.78	-26.34	196.81	-18.37	149.39	15.94	9.76	PASS	
1816.00†	1809.01	-27.28	70.18	1769.09	1750.41	-30.41	215.56	-18.71	156.79	16.50	9.89	PASS	
1916.00†	1905.82	-36.37	93.55	1863.67	1837.19	-38.40	252.29	-19.05	172.95	17.36	10.34	PASS	
2016.00†	2002.62	-45.46	116.92	1962.23	1927.37	-46.86	291.17	-19.30	189.81	18.31	10.74	PASS	
2116.00†	2099.43	-54.55	140.29	2060.80	2017.55	-55.31	330.05	-19.52	206.67	19.16	11.16	PASS	
2216.00†	2196.23	-63.63	163.67	2159.36	2107.73	-63.76	368.93	-19.70	223.53	20.14	11.47	PASS	
2316.00†	2293.04	-72.72	187.04	2257.93	2197.91	-72.22	407.81	-19.85	240.39	21.17	11.71	PASS	
2416.00†	2389.84	-81.81	210.41	2356.50	2288.08	-80.67	446.69	-19.99	257.26	22.24	11.91	PASS	
2516.00†	2486.65	-90.89	233.78	2455.06	2378.26	-89.13	485.56	-20.11	274.12	23.36	12.07	PASS	
2616.00†	2583.45	-99.98	257.16	2553.63	2468.44	-97.58	524.44	-20.21	290.99	24.50	12.20	PASS	
2716.00†	2680.26	-109.07	280.53	2652.19	2558.62	-106.04	563.32	-20.31	307.86	25.67	12.30	PASS	
2816.00†	2777.06	-118.16	303.90	2750.76	2648.80	-114.49	602.20	-20.39	324.72	26.87	12.39	PASS	
2916.00†	2873.87	-127.24	327.27	2849.33	2738.98	-122.95	641.08	-20.46	341.59	28.08	12.45	PASS	
3016.00†	2970.67	-136.33	350.65	2947.89	2829.16	-131.40	679.96	-20.53	358.46	29.32	12.50	PASS	
3116.00†	3067.48	-145.42	374.02	3046.46	2919.34	-139.86	718.84	-20.60	375.33	30.57	12.55	PASS	
3216.00†	3164.28	-154.50	397.39	3145.02	3009.52	-148.31	757.71	-20.65	392.20	31.84	12.58	PASS	
3316.00†	3261.09	-163.59	420.76	3243.59	3099.69	-156.77	796.59	-20.70	409.07	33.11	12.60	PASS	
3416.00†	3357.89	-172.68	444.14	3342.16	3189.87	-165.22	835.47	-20.75	425.94	34.40	12.62	PASS	
3516.00†	3454.69	-181.76	467.51	3440.72	3280.05	-173.68	874.35	-20.80	442.81	35.70	12.63	PASS	
3616.00†	3551.50	-190.85	490.88	3539.29	3370.23	-182.13	913.23	-20.84	459.69	37.01	12.64	PASS	
3716.00†	3648.30	-199.94	514.25	3637.85	3460.41	-190.58	952.11	-20.88	476.56	38.33	12.65	PASS	
3816.00†	3745.11	-209.03	537.63	3736.42	3550.59	-199.04	990.99	-20.91	493.43	39.65	12.65	PASS	
3916.00†	3841.91	-218.11	561.00	3834.99	3640.77	-207.49	1029.87	-20.95	510.30	40.98	12.65	PASS	
4016.00†	3938.72	-227.20	584.37	3933.55	3730.95	-215.95	1068.74	-20.98	527.17	42.31	12.65	PASS	
4116.00†	4035.52	-236.29	607.74	4032.12	3821.13	-224.40	1107.62	-21.01	544.05	43.65	12.65	PASS	
4216.00†	4132.33	-245.37	631.12	4130.68	3911.30	-232.86	1146.50	-21.03	560.92	45.00	12.65	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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†	4229.13	-254.46	654.49	4229.25	4001.48	-241.31	1185.38	-21.06	577.79	46.35	12.64	PASS	
4416.00†	4325.94	-263.55	677.86	4327.82	4091.66	-249.77	1224.26	-21.08	594.66	47.70	12.64	PASS	
4516.00†	4422.74	-272.64	701.23	4426.38	4181.84	-258.22	1263.14	-21.11	611.53	49.06	12.63	PASS	
4616.00†	4519.55	-281.72	724.61	4524.95	4272.02	-266.68	1302.02	-21.13	628.41	50.42	12.63	PASS	
4716.00†	4616.35	-290.81	747.98	4623.51	4362.20	-275.13	1340.89	-21.15	645.28	51.78	12.62	PASS	
4816.00†	4713.16	-299.90	771.35	4722.08	4452.38	-283.59	1379.77	-21.17	662.15	53.15	12.61	PASS	
4916.00†	4809.96	-308.98	794.72	4820.65	4542.56	-292.04	1418.65	-21.19	679.03	54.52	12.61	PASS	
5016.00†	4906.77	-318.07	818.10	4919.21	4632.74	-300.50	1457.53	-21.20	695.90	55.89	12.60	PASS	
5116.00†	5003.57	-327.16	841.47	5017.78	4722.91	-308.95	1496.41	-21.22	712.77	57.26	12.59	PASS	
5216.00†	5100.37	-336.25	864.84	5116.34	4813.09	-317.40	1535.29	-21.24	729.65	58.64	12.58	PASS	
5316.00†	5197.18	-345.33	888.21	5214.91	4903.27	-325.86	1574.17	-21.25	746.52	60.02	12.57	PASS	
5416.00†	5293.98	-354.42	911.59	5313.48	4993.45	-334.31	1613.04	-21.27	763.39	61.40	12.57	PASS	
5516.00†	5390.79	-363.51	934.96	5412.04	5083.63	-342.77	1651.92	-21.28	780.26	62.78	12.56	PASS	
5616.00†	5487.59	-372.59	958.33	5510.61	5173.81	-351.22	1690.80	-21.30	797.14	64.16	12.55	PASS	
5716.00†	5584.40	-381.68	981.70	5609.17	5263.99	-359.68	1729.68	-21.31	814.01	65.55	12.54	PASS	
5816.00†	5681.20	-390.77	1005.08	5707.74	5354.17	-368.13	1768.56	-21.32	830.88	66.94	12.54	PASS	
5916.00†	5778.01	-399.86	1028.45	5806.31	5444.35	-376.59	1807.44	-21.33	847.76	68.32	12.53	PASS	
6016.00†	5874.81	-408.94	1051.82	5904.87	5534.52	-385.04	1846.32	-21.34	864.63	69.71	12.52	PASS	
6116.00†	5971.62	-418.03	1075.19	6003.44	5624.70	-393.50	1885.20	-21.35	881.51	71.10	12.51	PASS	
6216.00†	6068.42	-427.12	1098.57	6102.01	5714.88	-401.95	1924.07	-21.37	898.38	72.49	12.51	PASS	
6316.00†	6165.23	-436.20	1121.94	6200.57	5805.06	-410.41	1962.95	-21.38	915.25	73.89	12.50	PASS	
6416.00†	6262.03	-445.29	1145.31	6299.14	5895.24	-418.86	2001.83	-21.39	932.13	75.28	12.49	PASS	
6516.00†	6358.84	-454.38	1168.68	6397.70	5985.42	-427.31	2040.71	-21.39	949.00	76.67	12.48	PASS	
6616.00†	6455.64	-463.46	1192.06	6496.27	6075.60	-435.77	2079.59	-21.40	965.87	78.07	12.48	PASS	
6716.00†	6552.45	-472.55	1215.43	6594.84	6165.78	-444.22	2118.47	-21.41	982.75	79.46	12.47	PASS	
6816.00†	6649.25	-481.64	1238.80	6693.40	6255.96	-452.68	2157.35	-21.42	999.62	80.86	12.46	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

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

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	46.15	0.00	46.15
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	46.15	0.00	46.15
8.5in Open Hole	882.00	17936.00	17054.00	882.00	N/A	0.00	46.15	N/A	N/A



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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

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 20-17-1NCH (REV-A.0, NIO C CK) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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	89.72	90.00	89.72	1.56	147.94	PASS		
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	89.72	90.00	89.72	1.89	95.41	PASS		
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	89.72	90.00	89.72	2.47	58.90	PASS		
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	89.72	90.00	89.72	3.08	42.00	PASS		
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	89.72	90.00	89.72	3.69	32.52	PASS		
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	89.72	90.00	89.72	4.31	26.49	PASS		
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	89.72	90.00	89.72	4.94	22.34	PASS		
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	89.72	90.00	89.72	5.56	19.30	PASS		
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	89.72	90.00	89.72	6.19	16.99	PASS		
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	89.72	90.00	89.72	6.26	16.05	PASS		
1016.00†	1016.00	0.00	0.00	1014.19	1014.19	-0.08	90.12	90.05	90.14	6.40	15.71	PASS		
1116.00†	1116.00	0.00	0.00	1109.56	1109.45	-0.92	94.37	90.56	94.61	7.05	14.81	PASS		
1216.00†	1216.00	0.00	0.00	1204.27	1203.72	-2.66	103.21	91.48	103.97	8.28	13.64	PASS		
1275.00	1275.00	0.00	0.00	1259.66	1258.60	-4.10	110.50	92.13	111.78	9.07	13.29	PASS		
1316.00†	1316.00	-0.16	0.41	1297.93	1296.39	-5.28	116.45	-18.66	117.79	9.57	13.21	PASS		
1416.00†	1415.87	-1.89	4.85	1390.83	1387.56	-8.74	133.96	-17.97	132.36	10.84	12.99	PASS		
1516.00†	1515.36	-5.50	14.15	1483.11	1477.14	-13.02	155.84	-17.74	146.76	12.54	12.35	PASS		
1616.00†	1614.19	-11.00	28.30	1574.78	1564.97	-18.10	181.36	-17.85	160.94	14.07	11.99	PASS		
1716.00†	1712.09	-18.37	47.24	1665.87	1650.90	-23.95	210.98	-18.21	174.89	15.49	11.79	PASS		
1759.10	1753.93	-22.11	56.88	1704.95	1687.31	-26.70	224.92	-18.43	180.82	16.01	11.77	PASS		
1816.00†	1809.01	-27.28	70.18	1756.28	1734.67	-30.54	244.32	-18.76	189.38	16.53	11.93	PASS		
1916.00†	1905.82	-36.37	93.55	1850.97	1820.95	-38.10	282.60	-19.17	207.23	17.55	12.27	PASS		
2016.00†	2002.62	-45.46	116.92	1949.28	1910.37	-46.01	322.67	-19.51	225.49	18.25	12.81	PASS		
2116.00†	2099.43	-54.55	140.29	2047.59	1999.80	-53.93	362.75	-19.80	243.74	19.18	13.16	PASS		
2216.00†	2196.23	-63.63	163.67	2145.91	2089.22	-61.84	402.82	-20.05	262.01	20.17	13.43	PASS		
2316.00†	2293.04	-72.72	187.04	2244.22	2178.65	-69.76	442.89	-20.27	280.28	21.21	13.64	PASS		
2416.00†	2389.84	-81.81	210.41	2342.53	2268.07	-77.68	482.96	-20.46	298.55	22.29	13.80	PASS		
2516.00†	2486.65	-90.89	233.78	2440.84	2357.50	-85.59	523.04	-20.63	316.82	23.42	13.92	PASS		
2616.00†	2583.45	-99.98	257.16	2539.15	2446.92	-93.51	563.11	-20.78	335.10	24.58	14.01	PASS		
2716.00†	2680.26	-109.07	280.53	2637.47	2536.35	-101.42	603.18	-20.92	353.38	25.77	14.07	PASS		
2816.00†	2777.06	-118.16	303.90	2735.78	2625.77	-109.34	643.26	-21.04	371.66	26.98	14.12	PASS		
2916.00†	2873.87	-127.24	327.27	2834.09	2715.19	-117.25	683.33	-21.15	389.94	28.21	14.15	PASS		
3016.00†	2970.67	-136.33	350.65	2932.40	2804.62	-125.17	723.40	-21.25	408.22	29.47	14.17	PASS		
3116.00†	3067.48	-145.42	374.02	3030.71	2894.04	-133.08	763.48	-21.35	426.51	30.74	14.18	PASS		
3216.00†	3164.28	-154.50	397.39	3129.03	2983.47	-141.00	803.55	-21.43	444.79	32.02	14.18	PASS		
3316.00†	3261.09	-163.59	420.76	3227.34	3072.89	-148.91	843.62	-21.51	463.08	33.32	14.18	PASS		
3416.00†	3357.89	-172.68	444.14	3325.65	3162.32	-156.83	883.70	-21.58	481.36	34.63	14.17	PASS		
3516.00†	3454.69	-181.76	467.51	3423.96	3251.74	-164.75	923.77	-21.65	499.65	35.95	14.16	PASS		
3616.00†	3551.50	-190.85	490.88	3522.27	3341.17	-172.66	963.84	-21.71	517.94	37.28	14.14	PASS		
3716.00†	3648.30	-199.94	514.25	3620.59	3430.59	-180.58	1003.92	-21.77	536.23	38.62	14.13	PASS		
3816.00†	3745.11	-209.03	537.63	3718.90	3520.01	-188.49	1043.99	-21.82	554.52	39.97	14.11	PASS		
3916.00†	3841.91	-218.11	561.00	3817.21	3609.44	-196.41	1084.06	-21.87	572.81	41.32	14.09	PASS		
4016.00†	3938.72	-227.20	584.37	3915.52	3698.86	-204.32	1124.13	-21.92	591.10	42.68	14.07	PASS		
4116.00†	4035.52	-236.29	607.74	4013.83	3788.29	-212.24	1164.21	-21.96	609.39	44.04	14.05	PASS		
4216.00†	4132.33	-245.37	631.12	4112.15	3877.71	-220.15	1204.28	-22.00	627.68	45.41	14.03	PASS		

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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†	4229.13	-254.46	654.49	4210.46	3967.14	-228.07	1244.35	-22.04	645.97	46.78	14.01	PASS	
4416.00†	4325.94	-263.55	677.86	4308.77	4056.56	-235.99	1284.43	-22.08	664.26	48.16	13.98	PASS	
4516.00†	4422.74	-272.64	701.23	4407.08	4145.99	-243.90	1324.50	-22.12	682.55	49.54	13.96	PASS	
4616.00†	4519.55	-281.72	724.61	4505.40	4235.41	-251.82	1364.57	-22.15	700.85	50.92	13.94	PASS	
4716.00†	4616.35	-290.81	747.98	4603.71	4324.84	-259.73	1404.65	-22.18	719.14	52.31	13.92	PASS	
4816.00†	4713.16	-299.90	771.35	4702.02	4414.26	-267.65	1444.72	-22.21	737.43	53.70	13.90	PASS	
4916.00†	4809.96	-308.98	794.72	4800.33	4503.68	-275.56	1484.79	-22.24	755.72	55.10	13.88	PASS	
5016.00†	4906.77	-318.07	818.10	4898.64	4593.11	-283.48	1524.87	-22.27	774.01	56.49	13.86	PASS	
5116.00†	5003.57	-327.16	841.47	4996.96	4682.53	-291.39	1564.94	-22.29	792.31	57.89	13.84	PASS	
5216.00†	5100.37	-336.25	864.84	5095.27	4771.96	-299.31	1605.01	-22.32	810.60	59.29	13.82	PASS	
5316.00†	5197.18	-345.33	888.21	5193.58	4861.38	-307.22	1645.09	-22.34	828.89	60.69	13.81	PASS	
5416.00†	5293.98	-354.42	911.59	5291.89	4950.81	-315.14	1685.16	-22.37	847.19	62.10	13.79	PASS	
5516.00†	5390.79	-363.51	934.96	5390.20	5040.23	-323.06	1725.23	-22.39	865.48	63.50	13.77	PASS	
5616.00†	5487.59	-372.59	958.33	5488.52	5129.66	-330.97	1765.30	-22.41	883.77	64.91	13.75	PASS	
5716.00†	5584.40	-381.68	981.70	5586.83	5219.08	-338.89	1805.38	-22.43	902.07	66.32	13.74	PASS	
5816.00†	5681.20	-390.77	1005.08	5685.14	5308.50	-346.80	1845.45	-22.45	920.36	67.73	13.72	PASS	
5916.00†	5778.01	-399.86	1028.45	5783.45	5397.93	-354.72	1885.52	-22.47	938.65	69.15	13.71	PASS	
6016.00†	5874.81	-408.94	1051.82	5881.76	5487.35	-362.63	1925.60	-22.48	956.95	70.56	13.69	PASS	
6116.00†	5971.62	-418.03	1075.19	5980.08	5576.78	-370.55	1965.67	-22.50	975.24	71.97	13.67	PASS	
6216.00†	6068.42	-427.12	1098.57	6078.39	5666.20	-378.46	2005.74	-22.52	993.54	73.39	13.66	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	54.70	0.00	54.70
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	54.70	0.00	54.70
8.5in Open Hole	882.00	18285.00	17403.00	882.00	N/A	0.00	54.70	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



Clearance Report
BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

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 20-17-1NCH (REV-A.0, NIO C CK) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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	2441.30	14.90	9491.71	25.57	385.77	PASS	
116.00†	116.00	0.00	0.00	71.45	101.45	9172.43	2441.31	14.90	9491.77	50.13	192.87	PASS	
216.00†	216.00	0.00	0.00	243.88	273.88	9172.01	2441.19	14.90	9491.50	49.97	192.81	PASS	
316.00†	316.00	0.00	0.00	381.79	411.78	9171.18	2440.53	14.90	9490.83	50.00	192.71	PASS	
416.00†	416.00	0.00	0.00	539.76	569.74	9169.35	2439.14	14.90	9489.47	50.04	192.52	PASS	
516.00†	516.00	0.00	0.00	705.08	735.02	9166.61	2437.00	14.89	9487.55	50.10	192.25	PASS	
616.00†	616.00	0.00	0.00	778.65	808.57	9165.27	2435.83	14.88	9485.39	50.15	192.01	PASS	
716.00†	716.00	0.00	0.00	877.18	907.07	9163.62	2434.44	14.88	9483.40	50.21	191.71	PASS	
816.00†	816.00	0.00	0.00	971.43	1001.30	9162.05	2432.98	14.87	9481.40	50.29	191.39	PASS	
916.00†	916.00	0.00	0.00	1071.99	1101.84	9160.47	2431.33	14.86	9479.46	50.15	191.09	PASS	
1016.00†	1016.00	0.00	0.00	1156.85	1186.68	9159.11	2430.15	14.86	9477.55	50.20	190.84	PASS	
1116.00†	1116.00	0.00	0.00	1230.08	1259.89	9158.08	2429.24	14.86	9475.88	50.27	190.56	PASS	
1216.00†	1216.00	0.00	0.00	1297.98	1327.78	9157.34	2428.44	14.85	9474.53	50.34	190.25	PASS	
1275.00	1275.00	0.00	0.00	1348.41	1378.21	9156.91	2427.84	14.85	9473.86	50.39	190.03	PASS	
1316.00†	1316.00	-0.16	0.41	1383.84	1413.63	9156.64	2427.40	-96.41	9473.48	50.44	189.86	PASS	
1416.00†	1415.87	-1.89	4.85	1478.68	1508.46	9156.00	2426.13	-96.46	9473.01	50.55	189.42	PASS	
1516.00†	1515.36	-5.50	14.15	1577.52	1607.29	9155.36	2424.77	-96.52	9473.17	50.68	188.92	PASS	
1616.00†	1614.19	-11.00	28.30	1675.15	1704.92	9154.72	2423.49	-96.59	9473.95	50.84	188.33	PASS	
1716.00†	1712.09	-18.37	47.24	1762.89	1792.65	9154.20	2422.31	-96.66	9475.41	51.03	187.67	PASS	
1759.10	1753.93	-22.11	56.88	1799.10	1828.84	9154.02	2421.81	-96.69	9476.29	51.12	187.35	PASS	
1816.00†	1809.01	-27.28	70.18	1857.82	1887.56	9153.73	2421.04	-96.78	9477.54	51.26	186.85	PASS	
1916.00†	1905.82	-36.37	93.55	1957.84	1987.58	9153.12	2419.96	-96.94	9479.75	51.54	185.86	PASS	
2016.00†	2002.62	-45.46	116.92	2054.30	2084.03	9152.47	2419.16	-97.09	9482.02	51.87	184.72	PASS	
2116.00†	2099.43	-54.55	140.29	2146.08	2175.80	9151.89	2418.30	-97.23	9484.38	52.23	183.49	PASS	
2216.00†	2196.23	-63.63	163.67	2237.60	2267.31	9151.37	2417.44	-97.37	9486.88	52.62	182.15	PASS	
2316.00†	2293.04	-72.72	187.04	2376.82	2406.52	9150.49	2415.95	-97.59	9489.39	53.10	180.54	PASS	
2416.00†	2389.84	-81.81	210.41	2493.25	2522.94	9149.23	2414.49	-97.77	9491.45	53.60	178.88	PASS	
2516.00†	2486.65	-90.89	233.78	2565.97	2595.65	9148.47	2413.62	-97.88	9493.65	54.08	177.31	PASS	
2616.00†	2583.45	-99.98	257.16	2637.69	2667.37	9147.93	2412.76	-97.99	9496.18	54.59	175.68	PASS	
2716.00†	2680.26	-109.07	280.53	2714.83	2744.50	9147.55	2411.78	-98.12	9499.02	55.13	174.00	PASS	
2816.00†	2777.06	-118.16	303.90	2815.10	2844.76	9147.10	2410.60	-98.27	9501.99	55.72	172.20	PASS	
2916.00†	2873.87	-127.24	327.27	2903.28	2932.94	9146.70	2409.70	-98.41	9505.05	56.32	170.38	PASS	
3016.00†	2970.67	-136.33	350.65	2984.18	3013.83	9146.44	2408.85	-98.53	9508.31	56.94	168.58	PASS	
3116.00†	3067.48	-145.42	374.02	3075.95	3105.59	9146.26	2407.92	-98.68	9511.75	57.59	166.72	PASS	
3216.00†	3164.28	-154.50	397.39	3178.91	3206.55	9146.00	2407.13	-98.83	9515.26	58.28	164.80	PASS	
3316.00†	3261.09	-163.59	420.76	3261.84	3291.47	9145.82	2406.34	-98.96	9518.85	58.96	162.93	PASS	
3416.00†	3357.89	-172.68	444.14	3363.22	3392.85	9145.66	2405.64	-99.12	9522.62	59.69	160.99	PASS	
3516.00†	3454.69	-181.76	467.51	3463.03	3492.66	9145.42	2404.80	-99.27	9526.32	60.43	159.06	PASS	
3616.00†	3551.50	-190.85	490.88	3562.61	3592.23	9145.21	2403.88	-99.42	9530.12	61.19	157.12	PASS	
3716.00†	3648.30	-199.94	514.25	3655.25	3684.87	9144.97	2403.05	-99.57	9533.95	61.96	155.21	PASS	
3816.00†	3745.11	-209.03	537.63	3800.94	3830.56	9144.47	2401.59	-99.79	9537.79	62.82	153.13	PASS	
3916.00†	3841.91	-218.11	561.00	3863.53	3893.14	9144.16	2400.83	-99.89	9541.48	63.59	151.33	PASS	
4016.00†	3938.72	-227.20	584.37	3955.06	3984.66	9143.95	2399.90	-100.03	9545.51	64.41	149.45	PASS	
4116.00†	4035.52	-236.29	607.74	4064.47	4094.06	9143.47	2399.04	-100.19	9549.45	65.28	147.50	PASS	
4216.00†	4132.33	-245.37	631.12	4189.22	4218.81	9142.64	2398.58	-100.38	9553.34	66.21	145.46	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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†	4229.13	-254.46	654.49	4283.64	4313.23	9141.78	2398.53	-100.52	9557.10	67.12	143.54	PASS	
4416.00†	4325.94	-263.58	677.86	4398.81	4428.39	9140.69	2398.38	-100.69	9560.87	68.08	141.56	PASS	
4516.00†	4422.74	-272.64	701.23	4493.20	4522.78	9139.65	2398.46	-100.83	9564.61	69.01	139.70	PASS	
4616.00†	4519.55	-281.72	724.61	4709.39	4738.94	9136.16	2399.34	-101.14	9568.14	70.18	137.39	PASS	
4716.00†	4616.35	-290.81	747.98	4844.28	4873.78	9132.55	2399.88	-101.33	9570.51	71.22	135.41	PASS	
4816.00†	4713.16	-299.90	771.35	4949.08	4978.53	9129.62	2400.25	-101.48	9572.85	72.21	133.57	PASS	
4916.00†	4809.96	-308.98	794.72	5043.08	5072.50	9126.86	2400.61	-101.61	9575.12	73.19	131.80	PASS	
5016.00†	4906.77	-318.07	818.10	5114.83	5144.22	9124.96	2400.61	-101.72	9577.66	74.13	130.14	PASS	
5116.00†	5003.57	-327.16	841.47	5181.11	5210.48	9123.42	2400.49	-101.81	9580.54	75.07	128.54	PASS	
5216.00†	5100.37	-336.25	864.84	5244.48	5273.84	9122.16	2400.36	-101.91	9583.81	76.02	126.97	PASS	
5316.00†	5197.18	-345.33	888.21	5308.01	5337.36	9121.13	2400.26	-102.00	9587.48	76.96	125.45	PASS	
5416.00†	5293.98	-354.42	911.59	5382.39	5411.73	9120.13	2400.15	-102.11	9591.50	77.94	123.91	PASS	
5516.00†	5390.79	-363.51	934.96	5457.57	5486.91	9119.30	2400.05	-102.22	9595.80	78.93	122.40	PASS	
5616.00†	5487.59	-372.59	958.33	5527.44	5556.78	9118.69	2399.97	-102.32	9600.40	79.91	120.95	PASS	
5716.00†	5584.40	-381.68	981.70	5590.17	5619.51	9118.34	2399.98	-102.41	9605.38	80.87	119.57	PASS	
5816.00†	5681.20	-390.77	1005.08	5679.36	5708.69	9118.05	2400.11	-102.54	9610.65	81.89	118.13	PASS	
5916.00†	5778.01	-399.86	1028.45	5789.76	5819.09	9117.64	2400.36	-102.70	9615.95	82.96	116.66	PASS	
6016.00†	5874.81	-408.94	1051.82	5899.99	5929.32	9117.04	2400.66	-102.86	9621.16	84.04	115.22	PASS	
6116.00†	5971.62	-418.03	1075.19	5965.87	5995.20	9116.74	2400.88	-102.95	9626.51	85.00	113.97	PASS	
6216.00†	6068.42	-427.12	1098.57	6024.20	6053.53	9116.65	2401.16	-103.04	9632.26	85.92	112.81	PASS	
6316.00†	6165.23	-436.20	1121.94	6074.38	6103.71	9116.82	2401.39	-103.11	9638.52	86.80	111.74	PASS	
6416.00†	6262.03	-445.29	1145.31	6156.01	6185.33	9117.46	2401.66	-103.23	9645.23	87.67	110.69	PASS	
6516.00†	6358.84	-454.38	1168.68	6315.35	6344.67	9118.15	2402.33	-103.45	9651.71	88.64	109.56	PASS	
6616.00†	6455.64	-463.46	1192.06	6396.99	6426.31	9118.25	2403.04	-103.57	9657.98	89.58	108.47	PASS	
6716.00†	6552.45	-472.55	1215.43	6519.83	6549.14	9118.38	2403.47	-103.74	9664.24	90.55	107.36	PASS	
6816.00†	6649.25	-481.64	1238.80	6614.43	6643.75	9118.37	2403.85	-103.88	9670.45	91.52	106.29	PASS	
6916.00†	6746.05	-490.73	1262.17	6703.06	6732.37	9118.39	2404.45	-104.00	9676.78	92.49	105.24	PASS	
7016.00†	6842.86	-499.81	1285.55	6778.66	6807.97	9118.51	2405.08	-104.11	9683.32	93.43	104.25	PASS	
7110.80	6934.63	-508.43	1307.71	6912.13	6941.42	9118.55	2406.91	-104.29	9689.54	94.41	103.21	PASS	
7116.00†	6939.67	-508.88	1308.92	6917.67	6946.97	9118.54	2407.01	-102.40	9689.84	94.47	103.16	PASS	
7216.00†	7036.75	-508.34	1332.37	7023.96	7053.24	9118.19	2408.90	-62.84	9686.56	95.59	101.90	PASS	
7316.00†	7132.25	-490.48	1355.47	7222.32	7251.56	9116.62	2412.21	-36.29	9665.77	97.23	99.96	PASS	
7416.00†	7223.29	-455.82	1377.51	7289.90	7319.13	9115.74	2413.35	-22.94	9627.92	98.58	98.20	PASS	
7516.00†	7307.09	-405.42	1397.82	7362.18	7391.40	9114.98	2414.14	-15.50	9574.86	99.71	96.54	PASS	
7616.00†	7381.10	-340.82	1415.79	7436.15	7465.37	9114.30	2414.54	-10.46	9508.09	100.61	95.01	PASS	
7716.00†	7443.08	-263.97	1430.87	7510.55	7539.75	9113.53	2415.06	-6.07	9429.50	101.27	93.60	PASS	
7816.00†	7491.14	-177.21	1442.60	7586.27	7615.47	9112.57	2415.67	-0.65	9341.43	101.71	92.33	PASS	
7916.00†	7523.83	-83.18	1450.63	7612.88	7642.08	9112.19	2415.88	10.13	9246.65	101.84	91.27	PASS	
8016.00†	7540.15	15.27	1454.71	7621.40	7650.60	9112.08	2415.94	51.65	9148.12	101.78	90.36	PASS	
8062.75	7542.00	61.97	1455.22	7622.11	7651.31	9112.07	2415.94	96.58	9101.61	101.69	89.97	PASS	
8116.00†	7542.00	115.22	1455.30	7621.73	7650.92	9112.07	2415.94	96.55	9048.65	101.58	89.55	PASS	
8216.00†	7542.00	215.22	1455.44	7620.99	7650.19	9112.08	2415.93	96.51	8949.22	101.37	88.75	PASS	
8316.00†	7542.00	315.22	1455.58	7620.25	7649.44	9112.09	2415.93	96.47	8849.79	101.15	87.96	PASS	
8416.00†	7542.00	415.22	1455.72	7619.50	7648.69	9112.10	2415.92	96.42	8750.38	100.93	87.16	PASS	
8516.00†	7542.00	515.22	1455.86	7618.74	7647.93	9112.11	2415.92	96.38	8650.99	100.71	86.36	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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†	7542.00	615.22	1456.00	7617.97	7647.17	9112.12	2415.91	96.33	8551.60	100.49	85.56	PASS	
8716.00†	7542.00	715.22	1456.14	7617.20	7646.39	9112.13	2415.91	96.28	8452.24	100.26	84.76	PASS	
8816.00†	7542.00	815.22	1456.27	7616.41	7645.61	9112.14	2415.90	96.24	8352.88	100.03	83.95	PASS	
8916.00†	7542.00	915.22	1456.41	7615.62	7644.82	9112.15	2415.90	96.19	8253.54	99.79	83.15	PASS	
9016.00†	7542.00	1015.22	1456.55	7614.82	7644.02	9112.17	2415.89	96.14	8154.22	99.56	82.35	PASS	
9116.00†	7542.00	1115.22	1456.69	7614.01	7643.21	9112.18	2415.88	96.09	8054.92	99.32	81.54	PASS	
9216.00†	7542.00	1215.22	1456.83	7613.20	7642.39	9112.19	2415.88	96.05	7955.63	99.07	80.74	PASS	
9316.00†	7542.00	1315.22	1456.97	7612.37	7641.57	9112.20	2415.87	96.00	7856.36	98.82	79.93	PASS	
9416.00†	7542.00	1415.22	1457.11	7611.54	7640.73	9112.21	2415.87	95.95	7757.11	98.57	79.12	PASS	
9516.00†	7542.00	1515.22	1457.25	7610.69	7639.89	9112.22	2415.86	95.90	7657.87	98.32	78.31	PASS	
9616.00†	7542.00	1615.22	1457.39	7609.84	7639.04	9112.23	2415.85	95.84	7558.66	98.06	77.51	PASS	
9716.00†	7542.00	1715.22	1457.53	7608.98	7638.17	9112.25	2415.85	95.79	7459.47	97.80	76.69	PASS	
9816.00†	7542.00	1815.22	1457.67	7608.11	7637.30	9112.26	2415.84	95.74	7360.30	97.53	75.88	PASS	
9916.00†	7542.00	1915.22	1457.81	7607.22	7636.42	9112.27	2415.83	95.69	7261.15	97.26	75.07	PASS	
10016.00†	7542.00	2015.21	1457.95	7606.33	7635.53	9112.28	2415.83	95.64	7162.03	96.99	74.25	PASS	
10116.00†	7542.00	2115.21	1458.09	7605.43	7634.63	9112.30	2415.82	95.58	7062.93	96.71	73.44	PASS	
10216.00†	7542.00	2215.21	1458.23	7604.52	7633.71	9112.31	2415.81	95.53	6963.86	96.43	72.62	PASS	
10316.00†	7542.00	2315.21	1458.37	7603.60	7632.79	9112.32	2415.81	95.47	6864.81	96.15	71.80	PASS	
10416.00†	7542.00	2415.21	1458.51	7602.66	7631.86	9112.34	2415.80	95.42	6765.79	95.86	70.97	PASS	
10516.00†	7542.00	2515.21	1458.65	7601.72	7630.92	9112.35	2415.79	95.36	6666.80	95.57	70.15	PASS	
10616.00†	7542.00	2615.21	1458.79	7600.76	7629.96	9112.36	2415.78	95.30	6567.84	95.28	69.32	PASS	
10716.00†	7542.00	2715.21	1458.93	7599.58	7628.78	9112.38	2415.77	95.23	6468.91	94.98	68.49	PASS	
10816.00†	7542.00	2815.21	1459.07	7597.60	7626.80	9112.41	2415.76	95.11	6370.02	94.68	67.66	PASS	
10916.00†	7542.00	2915.21	1459.21	7595.64	7624.84	9112.44	2415.74	95.00	6271.16	94.37	66.83	PASS	
11016.00†	7542.00	3015.21	1459.35	7593.70	7622.90	9112.47	2415.73	94.88	6172.33	94.07	65.99	PASS	
11116.00†	7542.00	3115.21	1459.49	7591.78	7620.98	9112.49	2415.71	94.76	6073.55	93.76	65.15	PASS	
11216.00†	7542.00	3215.21	1459.63	7589.89	7619.09	9112.52	2415.70	94.65	5974.80	93.44	64.31	PASS	
11316.00†	7542.00	3315.21	1459.76	7588.01	7617.21	9112.55	2415.68	94.54	5876.10	93.13	63.46	PASS	
11416.00†	7542.00	3415.21	1459.90	7586.15	7615.35	9112.58	2415.67	94.43	5777.44	92.82	62.60	PASS	
11516.00†	7542.00	3515.21	1460.04	7584.32	7613.52	9112.60	2415.65	94.32	5678.82	92.50	61.75	PASS	
11616.00†	7542.00	3615.21	1460.18	7582.50	7611.70	9112.63	2415.64	94.21	5580.26	92.19	60.88	PASS	
11716.00†	7542.00	3715.21	1460.32	7580.70	7609.90	9112.65	2415.62	94.10	5481.75	91.88	60.01	PASS	
11816.00†	7542.00	3815.21	1460.46	7578.92	7608.12	9112.68	2415.61	93.99	5383.29	91.57	59.13	PASS	
11916.00†	7542.00	3915.21	1460.60	7577.15	7606.35	9112.70	2415.59	93.89	5284.89	91.26	58.25	PASS	
12016.00†	7542.00	4015.21	1460.74	7575.41	7604.61	9112.73	2415.58	93.78	5186.55	90.96	57.36	PASS	
12116.00†	7542.00	4115.21	1460.88	7573.68	7602.88	9112.75	2415.57	93.68	5088.27	90.66	56.45	PASS	
12216.00†	7542.00	4215.21	1461.02	7571.97	7601.17	9112.77	2415.55	93.57	4990.06	90.37	55.54	PASS	
12316.00†	7542.00	4315.21	1461.16	7570.28	7599.48	9112.80	2415.54	93.47	4891.93	90.10	54.62	PASS	
12416.00†	7542.00	4415.21	1461.30	7568.60	7597.80	9112.82	2415.53	93.37	4793.87	89.83	53.68	PASS	
12516.00†	7542.00	4515.21	1461.44	7566.94	7596.14	9112.84	2415.51	93.27	4695.89	89.58	52.74	PASS	
12616.00†	7542.00	4615.21	1461.58	7565.30	7594.50	9112.86	2415.50	93.17	4598.00	89.34	51.77	PASS	
12716.00†	7542.00	4715.21	1461.72	7563.67	7592.88	9112.88	2415.49	93.07	4500.20	89.13	50.79	PASS	
12816.00†	7542.00	4815.21	1461.86	7562.06	7591.27	9112.91	2415.47	92.98	4402.50	88.95	49.79	PASS	
12916.00†	7542.00	4915.21	1462.00	7560.47	7589.67	9112.93	2415.46	92.88	4304.90	88.79	48.78	PASS	
13016.00†	7542.00	5015.21	1462.14	7558.89	7588.09	9112.95	2415.45	92.79	4207.42	88.67	47.74	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

CLEARANCE DATA - Offset Wellbore: CASE#1 AWP 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†	7542.00	5115.21	1462.28	7557.33	7586.53	9112.97	2415.44	92.69	4110.05	88.59	46.68	PASS	
13216.00†	7542.00	5215.21	1462.42	7555.78	7584.98	9112.99	2415.42	92.60	4012.82	88.55	45.59	PASS	
13316.00†	7542.00	5315.21	1462.56	7554.24	7583.45	9113.01	2415.41	92.51	3915.73	88.58	44.47	PASS	
13416.00†	7542.00	5415.21	1462.70	7552.72	7581.93	9113.03	2415.40	92.41	3818.78	88.66	43.33	PASS	
13516.00†	7542.00	5515.21	1462.84	7551.22	7580.42	9113.05	2415.39	92.32	3722.00	88.82	42.15	PASS	
13616.00†	7542.00	5615.21	1462.98	7549.73	7578.93	9113.07	2415.38	92.23	3625.39	89.07	40.95	PASS	
13716.00†	7542.00	5715.21	1463.11	7548.25	7577.45	9113.08	2415.36	92.14	3528.96	89.41	39.70	PASS	
13816.00†	7542.00	5815.21	1463.25	7546.79	7575.99	9113.10	2415.35	92.06	3432.74	89.87	38.42	PASS	
13916.00†	7542.00	5915.21	1463.39	7545.34	7574.54	9113.12	2415.34	91.97	3336.75	90.45	37.11	PASS	
14016.00†	7542.00	6015.21	1463.53	7543.90	7573.11	9113.14	2415.33	91.88	3240.99	91.17	35.76	PASS	
14116.00†	7542.00	6115.21	1463.67	7542.48	7571.68	9113.16	2415.32	91.80	3145.50	92.05	34.37	PASS	
14216.00†	7542.00	6215.21	1463.81	7541.07	7570.28	9113.17	2415.31	91.71	3050.30	93.12	32.94	PASS	
14316.00†	7542.00	6315.21	1463.95	7539.67	7568.88	9113.19	2415.29	91.63	2955.41	94.39	31.49	PASS	
14416.00†	7542.00	6415.21	1464.09	7538.29	7567.49	9113.21	2415.28	91.54	2860.88	95.88	30.00	PASS	
14516.00†	7542.00	6515.21	1464.23	7536.92	7566.12	9113.23	2415.27	91.46	2766.72	97.63	28.49	PASS	
14616.00†	7542.00	6615.21	1464.37	7535.56	7564.76	9113.24	2415.26	91.38	2672.99	99.67	26.96	PASS	
14716.00†	7542.00	6715.21	1464.51	7534.21	7563.42	9113.26	2415.25	91.30	2579.73	102.01	25.42	PASS	
14816.00†	7542.00	6815.21	1464.65	7532.88	7562.08	9113.28	2415.24	91.21	2486.99	104.69	23.87	PASS	
14916.00†	7542.00	6915.21	1464.79	7531.55	7560.76	9113.29	2415.23	91.13	2394.84	107.76	22.33	PASS	
15016.00†	7542.00	7015.21	1464.93	7530.24	7559.45	9113.31	2415.22	91.06	2303.34	111.24	20.80	PASS	
15116.00†	7542.00	7115.21	1465.07	7528.94	7558.15	9113.32	2415.21	90.98	2212.57	115.18	19.29	PASS	
15216.00†	7542.00	7215.21	1465.21	7527.65	7556.86	9113.34	2415.20	90.90	2122.64	119.63	17.82	PASS	
15316.00†	7542.00	7315.21	1465.35	7526.38	7555.58	9113.35	2415.19	90.82	2033.64	124.63	16.38	PASS	
15416.00†	7542.00	7415.21	1465.49	7525.11	7554.32	9113.37	2415.18	90.75	1945.71	130.23	15.00	PASS	
15516.00†	7542.00	7515.21	1465.63	7523.86	7553.06	9113.38	2415.17	90.67	1859.01	136.51	13.67	PASS	
15616.00†	7542.00	7615.21	1465.77	7522.61	7551.82	9113.40	2415.16	90.59	1773.70	143.50	12.40	PASS	
15716.00†	7542.00	7715.21	1465.91	7521.38	7550.59	9113.41	2415.15	90.52	1690.00	151.30	11.21	PASS	
15816.00†	7542.00	7815.21	1466.05	7520.16	7549.36	9113.43	2415.14	90.45	1608.16	159.95	10.08	PASS	
15916.00†	7542.00	7915.21	1466.19	7518.94	7548.15	9113.44	2415.13	90.37	1528.49	169.53	9.04	PASS	
16016.00†	7542.00	8015.21	1466.33	7517.74	7546.95	9113.45	2415.12	90.30	1451.33	180.10	8.08	PASS	
16116.00†	7542.00	8115.21	1466.47	7516.55	7545.76	9113.47	2415.11	90.23	1377.12	191.71	7.20	PASS	
16216.00†	7542.00	8215.21	1466.60	7515.37	7544.58	9113.48	2415.10	90.16	1306.35	204.37	6.41	PASS	
16316.00†	7542.00	8315.21	1466.74	7514.20	7543.40	9113.49	2415.09	90.09	1239.60	218.05	5.70	PASS	
16416.00†	7542.00	8415.21	1466.88	7513.03	7542.24	9113.51	2415.08	90.02	1177.58	232.67	5.07	PASS	
16516.00†	7542.00	8515.21	1467.02	7511.88	7541.09	9113.52	2415.07	89.95	1121.06	248.01	4.53	PASS	
16616.00†	7542.00	8615.21	1467.16	7510.74	7539.95	9113.53	2415.06	89.88	1070.91	263.78	4.07	PASS	
16716.00†	7542.00	8715.21	1467.30	7509.60	7538.81	9113.54	2415.05	89.81	1028.06	279.49	3.68	PASS	
16816.00†	7542.00	8815.21	1467.44	7508.48	7537.69	9113.56	2415.04	89.74	993.47	294.55	3.38	PASS	
16916.00†	7542.00	8915.21	1467.58	7507.36	7536.57	9113.57	2415.04	89.67	968.01	308.22	3.14	PASS	
17016.00†	7542.00	9015.21	1467.72	7506.26	7535.47	9113.58	2415.03	89.61	952.42	319.80	2.98	PASS	
17116.00†	7542.00	9115.21	1467.86	7505.16	7534.37	9113.59	2415.02	89.54	947.19	328.65	2.89	PASS	
17216.00†	7542.00	9215.21	1468.00	7504.07	7533.28	9113.61	2415.01	89.47	952.48	334.39	2.85	PASS	
17316.00†	7542.00	9315.21	1468.14	7502.99	7532.20	9113.62	2415.00	89.41	968.13	336.93	2.88	PASS	
17416.00†	7542.00	9415.21	1468.28	7501.92	7531.13	9113.63	2414.99	89.34	993.65	336.49	2.96	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

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

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

HOLE & CASING SECTIONS - Offset Wellbore: CASE#1 AWB Offset Wellpath: CASE#1 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	113.00	113.00	14.00	127.00	5591.55	1487.94	5591.59	1487.95
8.625in Casing Surface	0.00	113.00	113.00	14.00	127.00	5591.55	1487.94	5591.59	1487.95
7.875in Open Hole	113.00	8237.00	8124.00	127.00	8250.10	5591.59	1487.95	5573.99	1480.83
4.5in Casing Production	0.00	8237.00	8237.00	14.00	8250.10	5591.55	1487.94	5573.99	1480.83

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/CYRO <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 20-17-1NCH (REV-A.0, NIO C CK) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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	5981.14	-780.39	-7.43	6031.84	25.57	245.14	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	-475.67	3646.40	-475.33
8.625in Casing Surface	0.00	158.00	158.00	18.00	175.99	3646.11	-475.67	3646.40	-475.33
7.875in Open Hole	158.00	8210.00	8052.00	175.99	8226.90	3646.40	-475.33	3641.72	-490.74
4.5in Casing Production	0.00	8210.00	8210.00	18.00	8226.90	3646.11	-475.67	3641.72	-490.74

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 20-17-1NCH (REV-A.0, NIO C CK) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH 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	-365.59	-23.60	913.12	25.57	37.08	PASS	
116.00†	116.00	0.00	0.00	103.47	126.46	836.46	-364.74	-23.56	912.58	50.13	18.53	PASS	
216.00†	216.00	0.00	0.00	209.43	232.40	835.52	-362.92	-23.48	911.08	49.97	18.49	PASS	
316.00†	316.00	0.00	0.00	310.61	333.56	834.06	-361.48	-23.43	909.19	50.00	18.45	PASS	
416.00†	416.00	0.00	0.00	407.64	430.58	832.37	-361.07	-23.45	907.43	50.04	18.40	PASS	
516.00†	516.00	0.00	0.00	505.74	528.66	830.44	-361.83	-23.54	905.93	50.08	18.35	PASS	
616.00†	616.00	0.00	0.00	605.40	628.27	828.13	-363.69	-23.71	904.56	50.13	18.30	PASS	
716.00†	716.00	0.00	0.00	705.70	728.51	825.55	-366.08	-23.91	903.16	50.18	18.26	PASS	
816.00†	816.00	0.00	0.00	799.69	822.45	823.42	-368.45	-24.11	902.11	50.24	18.21	PASS	
916.00†	916.00	0.00	0.00	898.96	921.67	821.58	-370.92	-24.30	901.44	50.08	18.19	PASS	
1016.00†	1016.00	0.00	0.00	996.84	1019.51	820.05	-373.09	-24.46	900.93	50.12	18.16	PASS	
1065.38†	1065.38	0.00	0.00	1041.56	1064.22	819.54	-373.97	-24.53	900.83	50.14	18.15	PASS	
1116.00†	1116.00	0.00	0.00	1089.53	1112.18	819.27	-374.81	-24.58	900.94	50.16	18.15	PASS	
1216.00†	1216.00	0.00	0.00	1187.25	1209.89	819.24	-376.25	-24.67	901.52	50.22	18.14	PASS	
1275.00	1275.00	0.00	0.00	1251.43	1274.06	819.22	-376.99	-24.71	901.80	50.26	18.13	PASS	
1316.00†	1316.00	-0.16	0.41	1297.22	1319.85	818.94	-377.41	-136.01	902.05	50.29	18.12	PASS	
1345.75†	1345.73	-0.47	1.22	1327.07	1349.70	818.68	-377.67	-136.06	902.54	50.33	18.12	PASS	
1416.00†	1415.87	-1.89	4.85	1396.75	1419.37	818.05	-378.34	-136.23	905.06	50.42	18.14	PASS	
1516.00†	1515.36	-5.50	14.15	1496.22	1518.83	817.06	-379.54	-136.61	911.93	50.60	18.21	PASS	
1616.00†	1614.19	-11.00	28.30	1596.03	1618.63	815.92	-380.89	-137.15	922.64	50.80	18.35	PASS	
1716.00†	1712.09	-18.37	47.24	1695.77	1718.35	814.68	-382.09	-137.81	937.20	51.03	18.55	PASS	
1759.10	1753.93	-22.11	56.88	1736.13	1758.71	814.18	-382.52	-138.09	944.72	51.13	18.67	PASS	
1816.00†	1809.01	-27.28	70.18	1788.90	1811.47	813.64	-383.10	-138.68	955.32	51.23	18.84	PASS	
1916.00†	1905.82	-36.37	93.55	1884.10	1906.67	812.86	-384.23	-139.70	974.40	51.43	19.14	PASS	
2016.00†	2002.62	-45.46	116.92	1978.07	2000.62	812.30	-385.28	-140.67	993.96	51.64	19.44	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

HOLE & CASING SECTIONS - Offset Wellbore: DAVIS #1 AWB Offset Wellpath: DAVIS #1 AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	132.00	132.00	7.00	138.99	510.08	-222.86	509.94	-222.46
8.625in Casing Surface	0.00	132.00	132.00	7.00	138.99	510.08	-222.86	509.94	-222.46
7.875in Open Hole	132.00	8231.00	8099.00	138.99	8236.91	509.94	-222.46	499.15	-241.01
4.5in Casing Production	0.00	8231.00	8231.00	7.00	8236.91	510.08	-222.86	499.15	-241.01



Clearance Report

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

Operator	PETROSHARE	Slot	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NCH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NCH PWB
Facility	SEC.20-T01S-R66W		

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

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

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

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