

PETROSHARE

Location: COLORADO Slot: SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20)
Field: ADAMS COUNTY (NAD83/ TRUE NORTH) Well: BRIGHTON LAKES 20-17-1NBH
Facility: SEC.20-T01S-R66W Wellbore: BRIGHTON LAKES 20-17-1NBH PWB

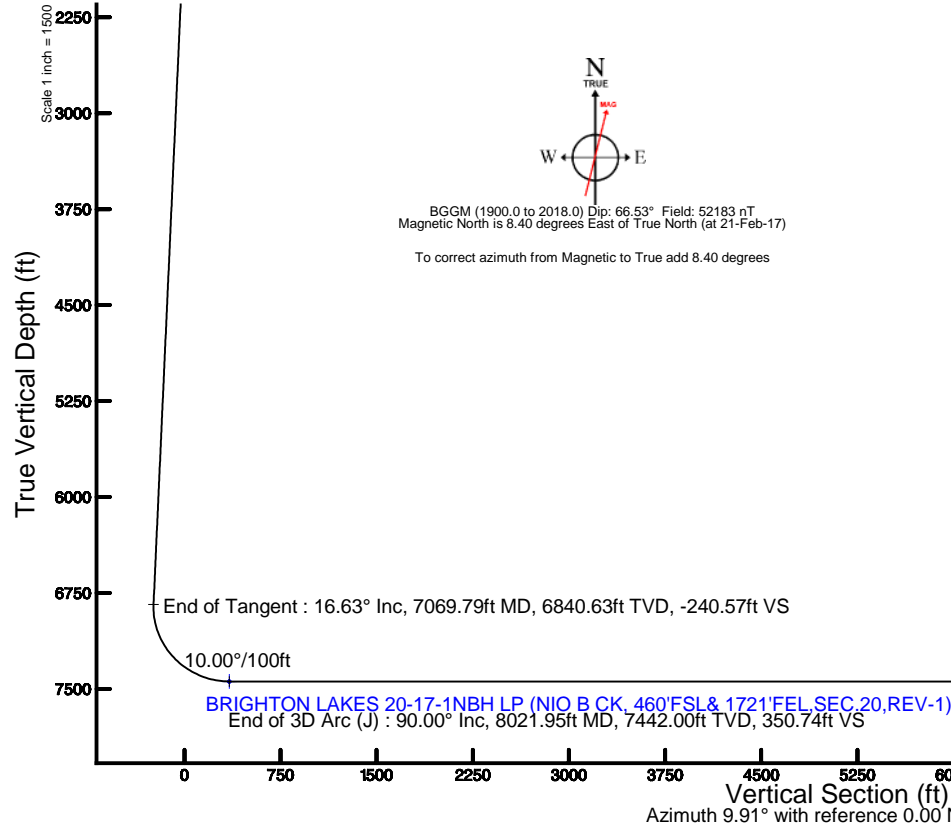
Plot reference wellpath is BRIGHTON LAKES 20-17-1NBH (NIO B CK, REV-A.0) PWP	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to RIG (16'RK) (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to RIG (16'RK) (RKB)	North Reference: True north
RIG (16'RK) (RKB) to Mean Sea Level: 5063 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cookdanm on 2017-02-23
	Database: WA, Denver

Location Information

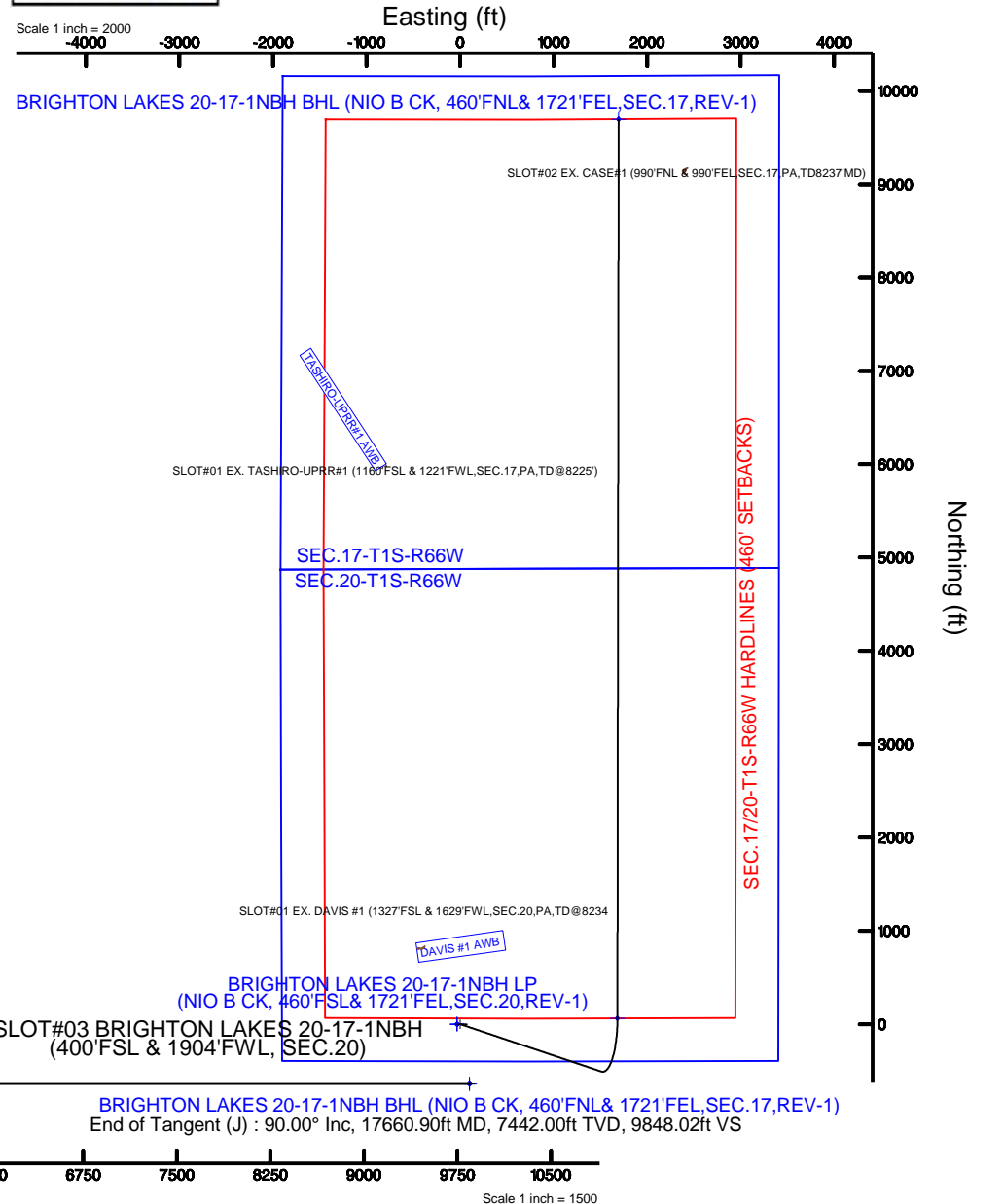
Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC.20-T01S-R66W			3195665.301	1223370.474	39°56'39.912"N	104°48'07.704"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20)	0.00	30.84	3195696.142	1223370.717	39°56'39.912"N	104°48'07.308"W
RIG (16'RK) (RKB) to Mud line (At Slot: SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20))						5063ft
Mean Sea Level to Mud line (At Slot: SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20))						0ft
RIG (16'RK) (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 20-17-1NBH 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 20-17-1NBH PWB
8.5in Open Hole	882.00	17661.00	16779.00	882.00	N/A	0.00	0.00	N/A	N/A	BRIGHTON LAKES 20-17-1NBH PWB

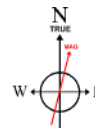


Scale 1 inch = 2000



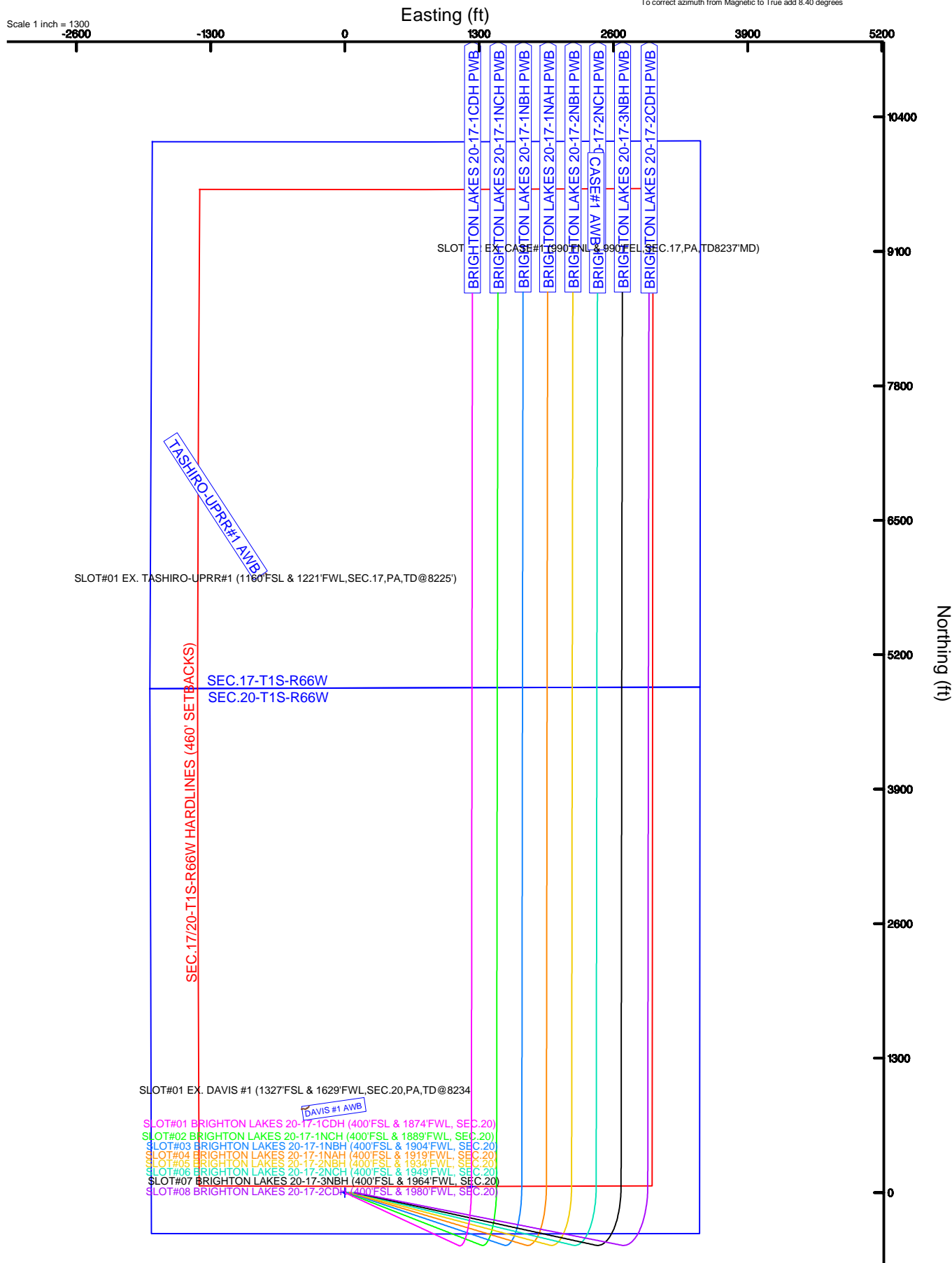
PETROSHARE

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

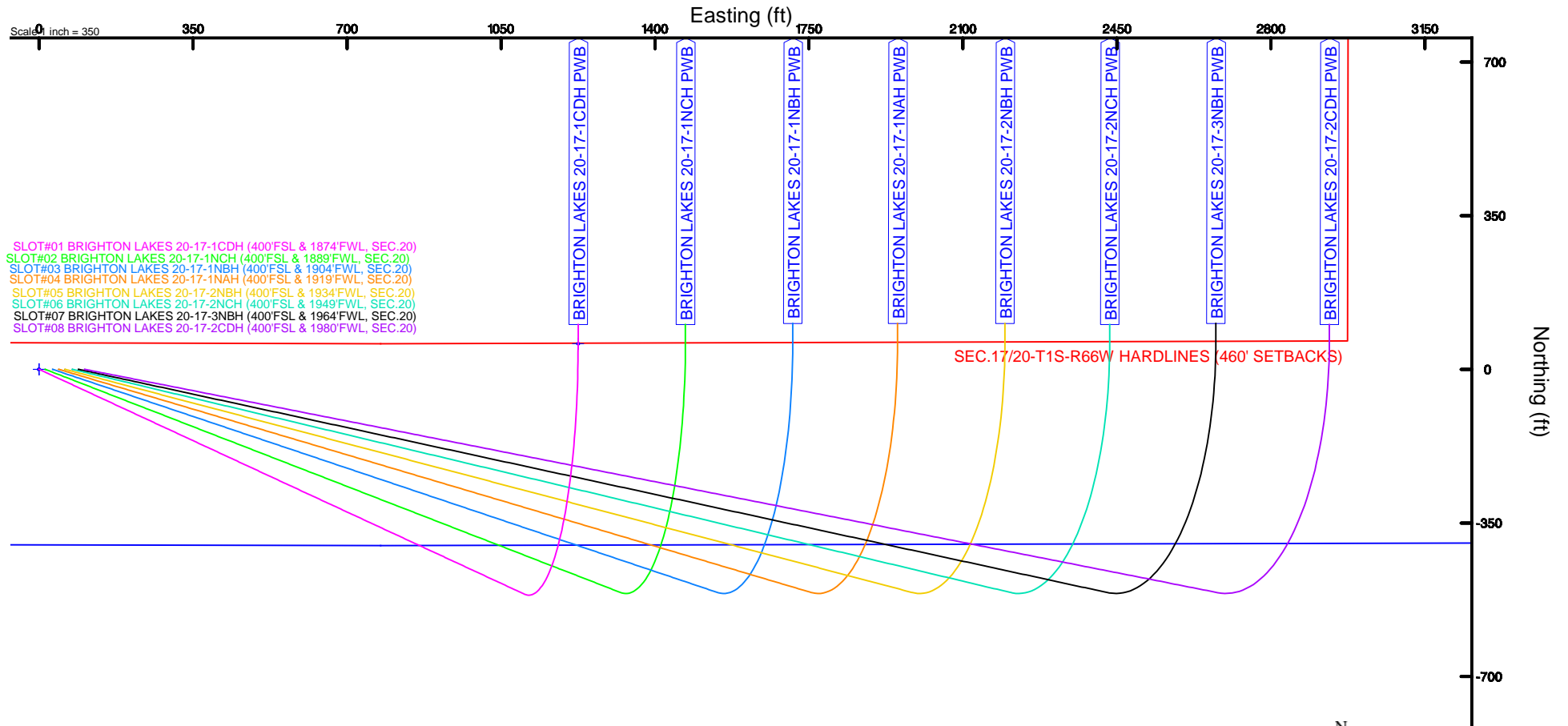


PETROSHARE

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



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



Planned Wellpath Report

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

Operator	PETROSHARE	Slot	SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NBH PWB
Facility	SEC.20-T01S-R66W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.0
North Reference	True	User	Cookdanm
Scale	0.999971	Report Generated	23-Feb-17 at 10:00:16 AM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/BRIGHTON_LAKES_20-17-1NBH_NIO_B_CK_REV-A.0_PWP.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	30.84	3195696.14	1223370.72	39°56'39.912"N	104°48'07.308"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#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'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	9.91°



Planned Wellpath Report

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

Operator	PETROSHARE	Slot	SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NBH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH DATA (189 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	108.593	0.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	
16.00	0.000	108.593	16.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	Tie On
116.00†	0.000	108.593	116.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	
216.00†	0.000	108.593	216.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	
316.00†	0.000	108.593	316.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	
416.00†	0.000	108.593	416.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	
516.00†	0.000	108.593	516.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	
616.00†	0.000	108.593	616.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	
716.00†	0.000	108.593	716.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	
816.00†	0.000	108.593	816.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	
882.00†	0.000	108.593	882.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	Fox Hills (Surface Csg)
916.00†	0.000	108.593	916.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	
1016.00†	0.000	108.593	1016.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	
1116.00†	0.000	108.593	1116.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	
1216.00†	0.000	108.593	1216.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	
1225.00	0.000	108.593	1225.00	0.00	0.00	0.00	39°56'39.912"N	104°48'07.308"W	0.00	End of Tangent
1316.00†	2.730	108.593	1315.97	-0.33	-0.69	2.05	39°56'39.905"N	104°48'07.282"W	3.00	
1416.00†	5.730	108.593	1415.68	-1.44	-3.04	9.04	39°56'39.882"N	104°48'07.192"W	3.00	
1516.00†	8.730	108.593	1514.88	-3.34	-7.05	20.97	39°56'39.842"N	104°48'07.039"W	3.00	
1616.00†	11.730	108.593	1613.27	-6.02	-12.72	37.80	39°56'39.786"N	104°48'06.823"W	3.00	
1716.00†	14.730	108.593	1710.61	-9.47	-20.01	59.49	39°56'39.714"N	104°48'06.544"W	3.00	
1779.49	16.635	108.593	1771.74	-12.06	-25.49	75.76	39°56'39.660"N	104°48'06.335"W	3.00	End of Build
1816.00†	16.635	108.593	1806.71	-13.64	-28.82	85.66	39°56'39.627"N	104°48'06.208"W	0.00	
1916.00†	16.635	108.593	1902.53	-17.96	-37.95	112.80	39°56'39.537"N	104°48'05.860"W	0.00	
2016.00†	16.635	108.593	1998.34	-22.28	-47.07	139.93	39°56'39.447"N	104°48'05.511"W	0.00	
2116.00†	16.635	108.593	2094.16	-26.59	-56.20	167.06	39°56'39.357"N	104°48'05.163"W	0.00	
2216.00†	16.635	108.593	2189.97	-30.91	-65.33	194.20	39°56'39.266"N	104°48'04.815"W	0.00	
2316.00†	16.635	108.593	2285.79	-35.23	-74.46	221.33	39°56'39.176"N	104°48'04.466"W	0.00	
2416.00†	16.635	108.593	2381.60	-39.55	-83.58	248.46	39°56'39.086"N	104°48'04.118"W	0.00	
2516.00†	16.635	108.593	2477.42	-43.87	-92.71	275.59	39°56'38.996"N	104°48'03.770"W	0.00	
2616.00†	16.635	108.593	2573.23	-48.19	-101.84	302.73	39°56'38.906"N	104°48'03.421"W	0.00	
2716.00†	16.635	108.593	2669.05	-52.51	-110.97	329.86	39°56'38.815"N	104°48'03.073"W	0.00	
2816.00†	16.635	108.593	2764.86	-56.83	-120.09	356.99	39°56'38.725"N	104°48'02.725"W	0.00	
2916.00†	16.635	108.593	2860.68	-61.15	-129.22	384.13	39°56'38.635"N	104°48'02.376"W	0.00	
3016.00†	16.635	108.593	2956.49	-65.47	-138.35	411.26	39°56'38.545"N	104°48'02.028"W	0.00	
3116.00†	16.635	108.593	3052.31	-69.79	-147.48	438.39	39°56'38.455"N	104°48'01.679"W	0.00	
3216.00†	16.635	108.593	3148.12	-74.11	-156.60	465.52	39°56'38.364"N	104°48'01.331"W	0.00	
3316.00†	16.635	108.593	3243.94	-78.43	-165.73	492.66	39°56'38.274"N	104°48'00.983"W	0.00	
3416.00†	16.635	108.593	3339.75	-82.75	-174.86	519.79	39°56'38.184"N	104°48'00.634"W	0.00	
3516.00†	16.635	108.593	3435.57	-87.07	-183.99	546.92	39°56'38.094"N	104°48'00.286"W	0.00	
3616.00†	16.635	108.593	3531.38	-91.39	-193.11	574.06	39°56'38.003"N	104°47'59.938"W	0.00	
3716.00†	16.635	108.593	3627.20	-95.70	-202.24	601.19	39°56'37.913"N	104°47'59.589"W	0.00	
3816.00†	16.635	108.593	3723.01	-100.02	-211.37	628.32	39°56'37.823"N	104°47'59.241"W	0.00	
3916.00†	16.635	108.593	3818.83	-104.34	-220.50	655.46	39°56'37.733"N	104°47'58.893"W	0.00	
4016.00†	16.635	108.593	3914.64	-108.66	-229.63	682.59	39°56'37.643"N	104°47'58.544"W	0.00	



Planned Wellpath Report

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

Operator	PETROSHARE	Slot	SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NBH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH DATA (189 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4116.00†	16.635	108.593	4010.46	-112.98	-238.75	709.72	39°56'37.552"N	104°47'58.196"W	0.00	
4216.00†	16.635	108.593	4106.27	-117.30	-247.88	736.85	39°56'37.462"N	104°47'57.847"W	0.00	
4316.00†	16.635	108.593	4202.09	-121.62	-257.01	763.99	39°56'37.372"N	104°47'57.499"W	0.00	
4416.00†	16.635	108.593	4297.90	-125.94	-266.14	791.12	39°56'37.282"N	104°47'57.151"W	0.00	
4516.00†	16.635	108.593	4393.72	-130.26	-275.26	818.25	39°56'37.192"N	104°47'56.802"W	0.00	
4616.00†	16.635	108.593	4489.53	-134.58	-284.39	845.39	39°56'37.101"N	104°47'56.454"W	0.00	
4716.00†	16.635	108.593	4585.35	-138.90	-293.52	872.52	39°56'37.011"N	104°47'56.106"W	0.00	
4816.00†	16.635	108.593	4681.16	-143.22	-302.65	899.65	39°56'36.921"N	104°47'55.757"W	0.00	
4916.00†	16.635	108.593	4776.98	-147.54	-311.77	926.78	39°56'36.831"N	104°47'55.409"W	0.00	
4983.86†	16.635	108.593	4842.00	-150.47	-317.97	945.20	39°56'36.770"N	104°47'55.173"W	0.00	Sussex / Shannon
5016.00†	16.635	108.593	4872.79	-151.86	-320.90	953.92	39°56'36.741"N	104°47'55.061"W	0.00	
5116.00†	16.635	108.593	4968.61	-156.18	-330.03	981.05	39°56'36.650"N	104°47'54.712"W	0.00	
5216.00†	16.635	108.593	5064.42	-160.50	-339.16	1008.18	39°56'36.560"N	104°47'54.364"W	0.00	
5316.00†	16.635	108.593	5160.24	-164.81	-348.28	1035.32	39°56'36.470"N	104°47'54.016"W	0.00	
5416.00†	16.635	108.593	5256.05	-169.13	-357.41	1062.45	39°56'36.380"N	104°47'53.667"W	0.00	
5516.00†	16.635	108.593	5351.87	-173.45	-366.54	1089.58	39°56'36.289"N	104°47'53.319"W	0.00	
5616.00†	16.635	108.593	5447.68	-177.77	-375.67	1116.72	39°56'36.199"N	104°47'52.970"W	0.00	
5716.00†	16.635	108.593	5543.49	-182.09	-384.79	1143.85	39°56'36.109"N	104°47'52.622"W	0.00	
5816.00†	16.635	108.593	5639.31	-186.41	-393.92	1170.98	39°56'36.019"N	104°47'52.274"W	0.00	
5916.00†	16.635	108.593	5735.12	-190.73	-403.05	1198.11	39°56'35.929"N	104°47'51.925"W	0.00	
6016.00†	16.635	108.593	5830.94	-195.05	-412.18	1225.25	39°56'35.838"N	104°47'51.577"W	0.00	
6116.00†	16.635	108.593	5926.75	-199.37	-421.31	1252.38	39°56'35.748"N	104°47'51.229"W	0.00	
6216.00†	16.635	108.593	6022.57	-203.69	-430.43	1279.51	39°56'35.658"N	104°47'50.880"W	0.00	
6316.00†	16.635	108.593	6118.38	-208.01	-439.56	1306.65	39°56'35.568"N	104°47'50.532"W	0.00	
6416.00†	16.635	108.593	6214.20	-212.33	-448.69	1333.78	39°56'35.478"N	104°47'50.184"W	0.00	
6516.00†	16.635	108.593	6310.01	-216.65	-457.82	1360.91	39°56'35.387"N	104°47'49.835"W	0.00	
6616.00†	16.635	108.593	6405.83	-220.97	-466.94	1388.05	39°56'35.297"N	104°47'49.487"W	0.00	
6716.00†	16.635	108.593	6501.64	-225.29	-476.07	1415.18	39°56'35.207"N	104°47'49.139"W	0.00	
6816.00†	16.635	108.593	6597.46	-229.60	-485.20	1442.31	39°56'35.117"N	104°47'48.790"W	0.00	
6916.00†	16.635	108.593	6693.27	-233.92	-494.33	1469.44	39°56'35.026"N	104°47'48.442"W	0.00	
7016.00†	16.635	108.593	6789.09	-238.24	-503.45	1496.58	39°56'34.936"N	104°47'48.093"W	0.00	
7069.79	16.635	108.593	6840.63	-240.57	-508.36	1511.17	39°56'34.888"N	104°47'47.906"W	0.00	End of Tangent
7116.00†	15.829	92.260	6885.02	-240.73	-510.72	1523.75	39°56'34.864"N	104°47'47.745"W	10.00	
7216.00†	18.341	58.793	6980.83	-228.53	-503.09	1550.90	39°56'34.940"N	104°47'47.396"W	10.00	
7316.00†	24.841	37.813	7073.90	-199.54	-478.28	1577.30	39°56'35.185"N	104°47'47.057"W	10.00	
7416.00†	33.052	25.890	7161.40	-154.65	-437.05	1602.15	39°56'35.592"N	104°47'46.738"W	10.00	
7516.00†	41.977	18.435	7240.68	-95.21	-380.65	1624.69	39°56'36.150"N	104°47'46.449"W	10.00	
7559.53†	45.980	15.969	7272.00	-65.24	-351.78	1633.60	39°56'36.435"N	104°47'46.334"W	10.00	Niobrara A Chalk
7616.00†	51.240	13.227	7309.33	-23.03	-310.79	1644.24	39°56'36.840"N	104°47'46.198"W	10.00	
7636.68†	53.181	12.325	7322.00	-6.71	-294.85	1647.85	39°56'36.998"N	104°47'46.151"W	10.00	Niobrara A Marl
7716.00†	60.680	9.235	7365.26	59.70	-229.60	1660.19	39°56'37.642"N	104°47'45.993"W	10.00	
7816.00†	70.219	5.928	7406.77	150.45	-139.54	1672.08	39°56'38.532"N	104°47'45.840"W	10.00	
7916.00†	79.811	2.998	7432.60	246.49	-43.35	1679.53	39°56'39.483"N	104°47'45.744"W	10.00	
8016.00†	89.428	0.242	7441.97	344.88	56.04	1682.32	39°56'40.465"N	104°47'45.708"W	10.00	
8021.88†	89.994	0.081	7442.00	350.67	61.92	1682.34	39°56'40.523"N	104°47'45.708"W	10.00	Niobrara B Chalk (Landing Zone)



Planned Wellpath Report

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

Operator	PETROSHARE	Slot	SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NBH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH DATA (189 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8021.95	90.000	0.079	7442.00†	350.74	61.99	1682.34	39°56'40.524"N	104°47'45.708"W	10.00	End of 3D Arc (J)
8116.00†	90.000	0.079	7442.00	443.41	156.04	1682.47	39°56'41.453"N	104°47'45.706"W	0.00	
8216.00†	90.000	0.079	7442.00	541.94	256.04	1682.61	39°56'42.442"N	104°47'45.704"W	0.00	
8316.00†	90.000	0.079	7442.00	640.47	356.04	1682.75	39°56'43.430"N	104°47'45.703"W	0.00	
8416.00†	90.000	0.079	7442.00	739.00	456.04	1682.89	39°56'44.418"N	104°47'45.701"W	0.00	
8516.00†	90.000	0.079	7442.00	837.53	556.04	1683.02	39°56'45.406"N	104°47'45.699"W	0.00	
8616.00†	90.000	0.079	7442.00	936.06	656.04	1683.16	39°56'46.395"N	104°47'45.697"W	0.00	
8716.00†	90.000	0.079	7442.00	1034.59	756.04	1683.30	39°56'47.383"N	104°47'45.695"W	0.00	
8816.00†	90.000	0.079	7442.00	1133.12	856.04	1683.44	39°56'48.371"N	104°47'45.693"W	0.00	
8916.00†	90.000	0.079	7442.00	1231.65	956.04	1683.58	39°56'49.359"N	104°47'45.691"W	0.00	
9016.00†	90.000	0.079	7442.00	1330.18	1056.04	1683.72	39°56'50.348"N	104°47'45.689"W	0.00	
9116.00†	90.000	0.079	7442.00	1428.71	1156.04	1683.86	39°56'51.336"N	104°47'45.688"W	0.00	
9216.00†	90.000	0.079	7442.00	1527.24	1256.04	1683.99	39°56'52.324"N	104°47'45.686"W	0.00	
9316.00†	90.000	0.079	7442.00	1625.77	1356.04	1684.13	39°56'53.312"N	104°47'45.684"W	0.00	
9416.00†	90.000	0.079	7442.00	1724.30	1456.04	1684.27	39°56'54.301"N	104°47'45.682"W	0.00	
9516.00†	90.000	0.079	7442.00	1822.83	1556.04	1684.41	39°56'55.289"N	104°47'45.680"W	0.00	
9616.00†	90.000	0.079	7442.00	1921.36	1656.04	1684.55	39°56'56.277"N	104°47'45.678"W	0.00	
9716.00†	90.000	0.079	7442.00	2019.89	1756.04	1684.69	39°56'57.265"N	104°47'45.676"W	0.00	
9816.00†	90.000	0.079	7442.00	2118.42	1856.04	1684.83	39°56'58.254"N	104°47'45.675"W	0.00	
9916.00†	90.000	0.079	7442.00	2216.95	1956.04	1684.96	39°56'59.242"N	104°47'45.673"W	0.00	
10016.00†	90.000	0.079	7442.00	2315.48	2056.04	1685.10	39°57'00.230"N	104°47'45.671"W	0.00	
10116.00†	90.000	0.079	7442.00	2414.01	2156.04	1685.24	39°57'01.218"N	104°47'45.669"W	0.00	
10216.00†	90.000	0.079	7442.00	2512.54	2256.04	1685.38	39°57'02.207"N	104°47'45.667"W	0.00	
10316.00†	90.000	0.079	7442.00	2611.07	2356.04	1685.52	39°57'03.195"N	104°47'45.665"W	0.00	
10416.00†	90.000	0.079	7442.00	2709.60	2456.04	1685.66	39°57'04.183"N	104°47'45.663"W	0.00	
10516.00†	90.000	0.079	7442.00	2808.13	2556.04	1685.80	39°57'05.171"N	104°47'45.661"W	0.00	
10616.00†	90.000	0.079	7442.00	2906.66	2656.04	1685.94	39°57'06.159"N	104°47'45.660"W	0.00	
10716.00†	90.000	0.079	7442.00	3005.19	2756.04	1686.07	39°57'07.148"N	104°47'45.658"W	0.00	
10816.00†	90.000	0.079	7442.00	3103.72	2856.04	1686.21	39°57'08.136"N	104°47'45.656"W	0.00	
10916.00†	90.000	0.079	7442.00	3202.25	2956.04	1686.35	39°57'09.124"N	104°47'45.654"W	0.00	
11016.00†	90.000	0.079	7442.00	3300.78	3056.04	1686.49	39°57'10.112"N	104°47'45.652"W	0.00	
11116.00†	90.000	0.079	7442.00	3399.31	3156.04	1686.63	39°57'11.101"N	104°47'45.650"W	0.00	
11216.00†	90.000	0.079	7442.00	3497.84	3256.04	1686.77	39°57'12.089"N	104°47'45.648"W	0.00	
11316.00†	90.000	0.079	7442.00	3596.37	3356.04	1686.91	39°57'13.077"N	104°47'45.647"W	0.00	
11416.00†	90.000	0.079	7442.00	3694.90	3456.04	1687.04	39°57'14.065"N	104°47'45.645"W	0.00	
11516.00†	90.000	0.079	7442.00	3793.43	3556.04	1687.18	39°57'15.054"N	104°47'45.643"W	0.00	
11616.00†	90.000	0.079	7442.00	3891.96	3656.04	1687.32	39°57'16.042"N	104°47'45.641"W	0.00	
11716.00†	90.000	0.079	7442.00	3990.49	3756.04	1687.46	39°57'17.030"N	104°47'45.639"W	0.00	
11816.00†	90.000	0.079	7442.00	4089.02	3856.04	1687.60	39°57'18.018"N	104°47'45.637"W	0.00	
11916.00†	90.000	0.079	7442.00	4187.56	3956.03	1687.74	39°57'19.007"N	104°47'45.635"W	0.00	
12016.00†	90.000	0.079	7442.00	4286.09	4056.03	1687.88	39°57'19.995"N	104°47'45.633"W	0.00	
12116.00†	90.000	0.079	7442.00	4384.62	4156.03	1688.01	39°57'20.983"N	104°47'45.632"W	0.00	
12216.00†	90.000	0.079	7442.00	4483.15	4256.03	1688.15	39°57'21.971"N	104°47'45.630"W	0.00	
12316.00†	90.000	0.079	7442.00	4581.68	4356.03	1688.29	39°57'22.960"N	104°47'45.628"W	0.00	
12416.00†	90.000	0.079	7442.00	4680.21	4456.03	1688.43	39°57'23.948"N	104°47'45.626"W	0.00	



Planned Wellpath Report

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

Operator	PETROSHARE	Slot	SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NBH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH DATA (189 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12516.00†	90.000	0.079	7442.00	4778.74	4556.03	1688.57	39°57'24.936"N	104°47'45.624"W	0.00	
12616.00†	90.000	0.079	7442.00	4877.27	4656.03	1688.71	39°57'25.924"N	104°47'45.622"W	0.00	
12716.00†	90.000	0.079	7442.00	4975.80	4756.03	1688.85	39°57'26.913"N	104°47'45.620"W	0.00	
12816.00†	90.000	0.079	7442.00	5074.33	4856.03	1688.99	39°57'27.901"N	104°47'45.618"W	0.00	
12841.43†	90.000	0.079	7442.00	5099.38	4881.46	1689.02	39°57'28.152"N	104°47'45.618"W	0.00	Niobrara B Chalk (Landing Zone)
12916.00†	90.000	0.079	7442.00	5172.86	4956.03	1689.12	39°57'28.889"N	104°47'45.617"W	0.00	
13016.00†	90.000	0.079	7442.00	5271.39	5056.03	1689.26	39°57'29.877"N	104°47'45.615"W	0.00	
13116.00†	90.000	0.079	7442.00	5369.92	5156.03	1689.40	39°57'30.865"N	104°47'45.613"W	0.00	
13216.00†	90.000	0.079	7442.00	5468.45	5256.03	1689.54	39°57'31.854"N	104°47'45.611"W	0.00	
13316.00†	90.000	0.079	7442.00	5566.98	5356.03	1689.68	39°57'32.842"N	104°47'45.609"W	0.00	
13416.00†	90.000	0.079	7442.00	5665.51	5456.03	1689.82	39°57'33.830"N	104°47'45.607"W	0.00	
13516.00†	90.000	0.079	7442.00	5764.04	5556.03	1689.96	39°57'34.818"N	104°47'45.605"W	0.00	
13616.00†	90.000	0.079	7442.00	5862.57	5656.03	1690.09	39°57'35.807"N	104°47'45.604"W	0.00	
13716.00†	90.000	0.079	7442.00	5961.10	5756.03	1690.23	39°57'36.795"N	104°47'45.602"W	0.00	
13816.00†	90.000	0.079	7442.00	6059.63	5856.03	1690.37	39°57'37.783"N	104°47'45.600"W	0.00	
13916.00†	90.000	0.079	7442.00	6158.16	5956.03	1690.51	39°57'38.771"N	104°47'45.598"W	0.00	
14016.00†	90.000	0.079	7442.00	6256.69	6056.03	1690.65	39°57'39.760"N	104°47'45.596"W	0.00	
14116.00†	90.000	0.079	7442.00	6355.22	6156.03	1690.79	39°57'40.748"N	104°47'45.594"W	0.00	
14216.00†	90.000	0.079	7442.00	6453.75	6256.03	1690.93	39°57'41.736"N	104°47'45.592"W	0.00	
14316.00†	90.000	0.079	7442.00	6552.28	6356.03	1691.06	39°57'42.724"N	104°47'45.590"W	0.00	
14416.00†	90.000	0.079	7442.00	6650.81	6456.03	1691.20	39°57'43.713"N	104°47'45.589"W	0.00	
14516.00†	90.000	0.079	7442.00	6749.34	6556.03	1691.34	39°57'44.701"N	104°47'45.587"W	0.00	
14616.00†	90.000	0.079	7442.00	6847.87	6656.03	1691.48	39°57'45.689"N	104°47'45.585"W	0.00	
14716.00†	90.000	0.079	7442.00	6946.40	6756.03	1691.62	39°57'46.677"N	104°47'45.583"W	0.00	
14816.00†	90.000	0.079	7442.00	7044.93	6856.03	1691.76	39°57'47.666"N	104°47'45.581"W	0.00	
14916.00†	90.000	0.079	7442.00	7143.46	6956.03	1691.90	39°57'48.654"N	104°47'45.579"W	0.00	
15016.00†	90.000	0.079	7442.00	7241.99	7056.03	1692.03	39°57'49.642"N	104°47'45.577"W	0.00	
15116.00†	90.000	0.079	7442.00	7340.52	7156.03	1692.17	39°57'50.630"N	104°47'45.576"W	0.00	
15216.00†	90.000	0.079	7442.00	7439.05	7256.03	1692.31	39°57'51.619"N	104°47'45.574"W	0.00	
15316.00†	90.000	0.079	7442.00	7537.58	7356.03	1692.45	39°57'52.607"N	104°47'45.572"W	0.00	
15416.00†	90.000	0.079	7442.00	7636.11	7456.03	1692.59	39°57'53.595"N	104°47'45.570"W	0.00	
15516.00†	90.000	0.079	7442.00	7734.64	7556.03	1692.73	39°57'54.583"N	104°47'45.568"W	0.00	
15616.00†	90.000	0.079	7442.00	7833.17	7656.03	1692.87	39°57'55.571"N	104°47'45.566"W	0.00	
15716.00†	90.000	0.079	7442.00	7931.70	7756.03	1693.01	39°57'56.560"N	104°47'45.564"W	0.00	
15816.00†	90.000	0.079	7442.00	8030.23	7856.03	1693.14	39°57'57.548"N	104°47'45.562"W	0.00	
15916.00†	90.000	0.079	7442.00	8128.76	7956.03	1693.28	39°57'58.536"N	104°47'45.561"W	0.00	
16016.00†	90.000	0.079	7442.00	8227.29	8056.03	1693.42	39°57'59.524"N	104°47'45.559"W	0.00	
16116.00†	90.000	0.079	7442.00	8325.82	8156.03	1693.56	39°58'00.513"N	104°47'45.557"W	0.00	
16216.00†	90.000	0.079	7442.00	8424.35	8256.03	1693.70	39°58'01.501"N	104°47'45.555"W	0.00	
16316.00†	90.000	0.079	7442.00	8522.88	8356.03	1693.84	39°58'02.489"N	104°47'45.553"W	0.00	
16416.00†	90.000	0.079	7442.00	8621.41	8456.03	1693.98	39°58'03.477"N	104°47'45.551"W	0.00	
16516.00†	90.000	0.079	7442.00	8719.94	8556.03	1694.11	39°58'04.466"N	104°47'45.549"W	0.00	
16616.00†	90.000	0.079	7442.00	8818.47	8656.03	1694.25	39°58'05.454"N	104°47'45.548"W	0.00	
16716.00†	90.000	0.079	7442.00	8917.00	8756.03	1694.39	39°58'06.442"N	104°47'45.546"W	0.00	
16816.00†	90.000	0.079	7442.00	9015.54	8856.03	1694.53	39°58'07.430"N	104°47'45.544"W	0.00	



Planned Wellpath Report

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

Operator	PETROSHARE	Slot	SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NBH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH DATA (189 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
16916.00†	90.000	0.079	7442.00	9114.07	8956.03	1694.67	39°58'08.419"N	104°47'45.542"W	0.00	
17016.00†	90.000	0.079	7442.00	9212.60	9056.03	1694.81	39°58'09.407"N	104°47'45.540"W	0.00	
17116.00†	90.000	0.079	7442.00	9311.13	9156.03	1694.95	39°58'10.395"N	104°47'45.538"W	0.00	
17216.00†	90.000	0.079	7442.00	9409.66	9256.03	1695.08	39°58'11.383"N	104°47'45.536"W	0.00	
17316.00†	90.000	0.079	7442.00	9508.19	9356.03	1695.22	39°58'12.372"N	104°47'45.534"W	0.00	
17416.00†	90.000	0.079	7442.00	9606.72	9456.03	1695.36	39°58'13.360"N	104°47'45.533"W	0.00	
17516.00†	90.000	0.079	7442.00	9705.25	9556.03	1695.50	39°58'14.348"N	104°47'45.531"W	0.00	
17616.00†	90.000	0.079	7442.00	9803.78	9656.03	1695.64	39°58'15.336"N	104°47'45.529"W	0.00	
17660.90	90.000	0.079	7442.00 ²	9848.02	9700.93	1695.70	39°58'15.780"N	104°47'45.528"W	0.00	End of Tangent (J)

HOLE & CASING SECTIONS

- Ref Wellbore: BRIGHTON LAKES 20-17-1NBH PWB Ref 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	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	17661.00	16779.00	882.00	N/A	0.00	0.00	N/A	N/A

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.17-T1S-R66W		0.00	0.00	-30.84	3195665.30	1223370.47	39°56'39.912"N	104°48'07.704"W	polygon
SEC.20-T1S-R66W		0.00	0.00	-30.84	3195665.30	1223370.47	39°56'39.912"N	104°48'07.704"W	polygon
2) BRIGHTON LAKES 20-17-1NBH BHL (NIO B CK, 460'FNL & 1721'FEL, SEC.17, REV-1)	17660.90	7442.00	9700.93	1695.70	3197315.38	1233084.40	39°58'15.780"N	104°47'45.528"W	point
1) BRIGHTON LAKES 20-17-1NBH LP (NIO B CK, 460'FSL & 1721'FEL, SEC.20, REV-1)	8021.95	7442.00	61.99	1682.34	3197377.89	1223445.94	39°56'40.524"N	104°47'45.708"W	point

SURVEY PROGRAM -

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

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



Planned Wellpath Report

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

Operator	PETROSHARE	Slot	SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-1NBH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-1NBH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
882.00	0.000	108.593	882.00	Fox Hills (Surface Csg)
4983.86	16.635	108.593	4842.00	Sussex / Shannon
7559.53	45.980	15.969	7272.00	Niobrara A Chalk
7636.68	53.181	12.325	7322.00	Niobrara A Marl
8021.88	89.994	0.081	7442.00	Niobrara B Chalk (Landing Zone)
12841.43	90.000	0.079	7442.00	Niobrara B Chalk (Landing Zone)

~VERSION INFORMATION

VERS. 2.0 : CWLS LOG ASCII STANDARD-VERSION 2.0

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

~WELL INFORMATION

#MNEM	.UNITS	DATA	:DESCRIPTION
#----	.-----	----	:-----
STRT	.ft	0.00	:START MD
STOP	.ft	17660.90	:STOP MD
STEP	.ft	0.0	:STEP (non-uniform increment)
NULL	.	-999.99	:NULL
COMP	.	PETROSHARE	:OPERATOR
WELL	.	BRIGHTON LAKES 20-17-1NBH	:WELL
FLD	.	ADAMS COUNTY (NAD83/ TRUE NORTH)	:FIELD
LOC	.	COLORADO	:AREA (aka: Location)
CNTY	.	N/A	:COUNTY
STAT	.	N/A	:STATE
CTRY	.	N/A	:COUNTRY
SRVC	.	Baker Hughes	:CONTRACTOR
DATE	.	02/21/2017	:LOG REV DATE
API	.		:API NUMBER

~OTHER INFORMATION

#Software: WellArchitect(R) Version 5.0

#MNEM	.UNITS	DATA	:DESCRIPTION
#----	.-----	----	:-----
WPTYPE	.	PLANNED WELLPATH	:WELLPATH TYPE
FACILITY	.	SEC.20-T01S-R66W	:FACILITY
SLOT	.	SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20):SLOT	
WELLBORE	.	BRIGHTON LAKES 20-17-1NBH PWB	:WELLBORE
WELLPATH	.	BRIGHTON LAKES 20-17-1NBH (NIO B CK, REV-A.0) PWP:WELLPATH	
MDREFPT	.	RIG (16'RKB) (RKB)	:MD REFERENCE POINT
TVDREFPT	.	RIG (16'RKB) (RKB)	:TVD REFERENCE POINT
LCLREFPT	.	SLOT	:LOCAL COORDINATE REFERENCE PT
VSAZIMUTH	.deg	9.91	:VERTICAL SECTION AZIMUTH
VSORIGN	.ft	0.00	:VERTICAL SECTION ORIGIN NORTH
VSORIGE	.ft	0.00	:VERTICAL SECTION ORIGIN EAST

~CURVE (WELLPATH) INFORMATION

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

PETROSHARE_BRIGHTON_LAKES_20-17-1NBH__NIO_B_CK__REV-A.0__PWP_02-22-17.1as

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

~ASCII DATA

0.00	0.00	108.59	0.00	0.00	0.00	0.00	39.9444200	-104.8020300	0.00
16.00	0.00	108.59	16.00	0.00	0.00	0.00	39.9444200	-104.8020300	0.00
116.00	0.00	108.59	116.00	0.00	0.00	0.00	39.9444200	-104.8020300	0.00
216.00	0.00	108.59	216.00	0.00	0.00	0.00	39.9444200	-104.8020300	0.00
316.00	0.00	108.59	316.00	0.00	0.00	0.00	39.9444200	-104.8020300	0.00
416.00	0.00	108.59	416.00	0.00	0.00	0.00	39.9444200	-104.8020300	0.00
516.00	0.00	108.59	516.00	0.00	0.00	0.00	39.9444200	-104.8020300	0.00
616.00	0.00	108.59	616.00	0.00	0.00	0.00	39.9444200	-104.8020300	0.00
716.00	0.00	108.59	716.00	0.00	0.00	0.00	39.9444200	-104.8020300	0.00
816.00	0.00	108.59	816.00	0.00	0.00	0.00	39.9444200	-104.8020300	0.00
916.00	0.00	108.59	916.00	0.00	0.00	0.00	39.9444200	-104.8020300	0.00
1016.00	0.00	108.59	1016.00	0.00	0.00	0.00	39.9444200	-104.8020300	0.00
1116.00	0.00	108.59	1116.00	0.00	0.00	0.00	39.9444200	-104.8020300	0.00
1216.00	0.00	108.59	1216.00	0.00	0.00	0.00	39.9444200	-104.8020300	0.00
1225.00	0.00	108.59	1225.00	0.00	0.00	0.00	39.9444200	-104.8020300	0.00
1316.00	2.73	108.59	1315.97	-0.33	-0.69	2.05	39.9444181	-104.8020227	3.00
1416.00	5.73	108.59	1415.68	-1.44	-3.04	9.04	39.9444116	-104.8019977	3.00
1516.00	8.73	108.59	1514.88	-3.34	-7.05	20.97	39.9444006	-104.8019552	3.00
1616.00	11.73	108.59	1613.27	-6.02	-12.72	37.80	39.9443851	-104.8018952	3.00
1716.00	14.73	108.59	1710.61	-9.47	-20.01	59.49	39.9443651	-104.8018178	3.00
1779.49	16.64	108.59	1771.74	-12.06	-25.49	75.76	39.9443500	-104.8017598	3.00
1816.00	16.64	108.59	1806.71	-13.64	-28.82	85.66	39.9443409	-104.8017245	0.00
1916.00	16.64	108.59	1902.53	-17.96	-37.95	112.80	39.9443158	-104.8016277	0.00
2016.00	16.64	108.59	1998.34	-22.28	-47.07	139.93	39.9442908	-104.8015309	0.00
2116.00	16.64	108.59	2094.16	-26.59	-56.20	167.06	39.9442657	-104.8014342	0.00
2216.00	16.64	108.59	2189.97	-30.91	-65.33	194.20	39.9442407	-104.8013374	0.00
2316.00	16.64	108.59	2285.79	-35.23	-74.46	221.33	39.9442156	-104.8012406	0.00
2416.00	16.64	108.59	2381.60	-39.55	-83.58	248.46	39.9441906	-104.8011439	0.00
2516.00	16.64	108.59	2477.42	-43.87	-92.71	275.59	39.9441655	-104.8010471	0.00
2616.00	16.64	108.59	2573.23	-48.19	-101.84	302.73	39.9441404	-104.8009503	0.00
2716.00	16.64	108.59	2669.05	-52.51	-110.97	329.86	39.9441154	-104.8008536	0.00
2816.00	16.64	108.59	2764.86	-56.83	-120.09	356.99	39.9440903	-104.8007568	0.00
2916.00	16.64	108.59	2860.68	-61.15	-129.22	384.13	39.9440653	-104.8006600	0.00
3016.00	16.64	108.59	2956.49	-65.47	-138.35	411.26	39.9440402	-104.8005633	0.00
3116.00	16.64	108.59	3052.31	-69.79	-147.48	438.39	39.9440151	-104.8004665	0.00

PETROSHARE_BRIGHTON_LAKES_20-17-1NBH__NIO_B_CK__REV-A.0__PWP_02-22-17.1as									
3216.00	16.64	108.59	3148.12	-74.11	-156.60	465.52	39.9439901	-104.8003697	0.00
3316.00	16.64	108.59	3243.94	-78.43	-165.73	492.66	39.9439650	-104.8002730	0.00
3416.00	16.64	108.59	3339.75	-82.75	-174.86	519.79	39.9439400	-104.8001762	0.00
3516.00	16.64	108.59	3435.57	-87.07	-183.99	546.92	39.9439149	-104.8000794	0.00
3616.00	16.64	108.59	3531.38	-91.39	-193.11	574.06	39.9438899	-104.7999827	0.00
3716.00	16.64	108.59	3627.20	-95.70	-202.24	601.19	39.9438648	-104.7998859	0.00
3816.00	16.64	108.59	3723.01	-100.02	-211.37	628.32	39.9438397	-104.7997891	0.00
3916.00	16.64	108.59	3818.83	-104.34	-220.50	655.46	39.9438147	-104.7996924	0.00
4016.00	16.64	108.59	3914.64	-108.66	-229.63	682.59	39.9437896	-104.7995956	0.00
4116.00	16.64	108.59	4010.46	-112.98	-238.75	709.72	39.9437646	-104.7994988	0.00
4216.00	16.64	108.59	4106.27	-117.30	-247.88	736.85	39.9437395	-104.7994021	0.00
4316.00	16.64	108.59	4202.09	-121.62	-257.01	763.99	39.9437145	-104.7993053	0.00
4416.00	16.64	108.59	4297.90	-125.94	-266.14	791.12	39.9436894	-104.7992085	0.00
4516.00	16.64	108.59	4393.72	-130.26	-275.26	818.25	39.9436643	-104.7991118	0.00
4616.00	16.64	108.59	4489.53	-134.58	-284.39	845.39	39.9436393	-104.7990150	0.00
4716.00	16.64	108.59	4585.35	-138.90	-293.52	872.52	39.9436142	-104.7989182	0.00
4816.00	16.64	108.59	4681.16	-143.22	-302.65	899.65	39.9435892	-104.7988215	0.00
4916.00	16.64	108.59	4776.98	-147.54	-311.77	926.78	39.9435641	-104.7987247	0.00
5016.00	16.64	108.59	4872.79	-151.86	-320.90	953.92	39.9435390	-104.7986279	0.00
5116.00	16.64	108.59	4968.61	-156.18	-330.03	981.05	39.9435140	-104.7985312	0.00
5216.00	16.64	108.59	5064.42	-160.50	-339.16	1008.18	39.9434889	-104.7984344	0.00
5316.00	16.64	108.59	5160.24	-164.81	-348.28	1035.32	39.9434639	-104.7983376	0.00
5416.00	16.64	108.59	5256.05	-169.13	-357.41	1062.45	39.9434388	-104.7982409	0.00
5516.00	16.64	108.59	5351.87	-173.45	-366.54	1089.58	39.9434137	-104.7981441	0.00
5616.00	16.64	108.59	5447.68	-177.77	-375.67	1116.72	39.9433887	-104.7980473	0.00
5716.00	16.64	108.59	5543.49	-182.09	-384.79	1143.85	39.9433636	-104.7979506	0.00
5816.00	16.64	108.59	5639.31	-186.41	-393.92	1170.98	39.9433386	-104.7978538	0.00
5916.00	16.64	108.59	5735.12	-190.73	-403.05	1198.11	39.9433135	-104.7977570	0.00
6016.00	16.64	108.59	5830.94	-195.05	-412.18	1225.25	39.9432884	-104.7976603	0.00
6116.00	16.64	108.59	5926.75	-199.37	-421.31	1252.38	39.9432634	-104.7975635	0.00
6216.00	16.64	108.59	6022.57	-203.69	-430.43	1279.51	39.9432383	-104.7974668	0.00
6316.00	16.64	108.59	6118.38	-208.01	-439.56	1306.65	39.9432133	-104.7973700	0.00
6416.00	16.64	108.59	6214.20	-212.33	-448.69	1333.78	39.9431882	-104.7972732	0.00
6516.00	16.64	108.59	6310.01	-216.65	-457.82	1360.91	39.9431631	-104.7971765	0.00
6616.00	16.64	108.59	6405.83	-220.97	-466.94	1388.05	39.9431381	-104.7970797	0.00
6716.00	16.64	108.59	6501.64	-225.29	-476.07	1415.18	39.9431130	-104.7969829	0.00
6816.00	16.64	108.59	6597.46	-229.60	-485.20	1442.31	39.9430880	-104.7968862	0.00
6916.00	16.64	108.59	6693.27	-233.92	-494.33	1469.44	39.9430629	-104.7967894	0.00
7016.00	16.64	108.59	6789.09	-238.24	-503.45	1496.58	39.9430378	-104.7966926	0.00
7069.79	16.64	108.59	6840.63	-240.57	-508.36	1511.17	39.9430244	-104.7966406	0.00
7116.00	15.83	92.26	6885.02	-240.73	-510.72	1523.75	39.9430179	-104.7965957	10.00
7216.00	18.34	58.79	6980.83	-228.53	-503.09	1550.90	39.9430388	-104.7964989	10.00
7316.00	24.84	37.81	7073.90	-199.54	-478.28	1577.30	39.9431069	-104.7964047	10.00
7416.00	33.05	25.89	7161.40	-154.65	-437.05	1602.15	39.9432201	-104.7963161	10.00

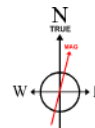
PETROSHARE_BRIGHTON_LAKES_20-17-1NBH_NIO_B_CK_REV-A.0_PWP_02-22-17.1as									
7516.00	41.98	18.43	7240.68	-95.21	-380.65	1624.69	39.9433749	-104.7962357	10.00
7616.00	51.24	13.23	7309.33	-23.03	-310.79	1644.24	39.9435667	-104.7961660	10.00
7716.00	60.68	9.24	7365.26	59.70	-229.60	1660.19	39.9437896	-104.7961091	10.00
7816.00	70.22	5.93	7406.77	150.45	-139.54	1672.08	39.9440368	-104.7960666	10.00
7916.00	79.81	3.00	7432.60	246.49	-43.35	1679.53	39.9443008	-104.7960400	10.00
8016.00	89.43	0.24	7441.97	344.88	56.04	1682.32	39.9445737	-104.7960301	10.00
8021.95	90.00	0.08	7442.00	350.74	61.99	1682.34	39.9445900	-104.7960300	10.00
8116.00	90.00	0.08	7442.00	443.41	156.04	1682.47	39.9448482	-104.7960295	0.00
8216.00	90.00	0.08	7442.00	541.94	256.04	1682.61	39.9451227	-104.7960290	0.00
8316.00	90.00	0.08	7442.00	640.47	356.04	1682.75	39.9453972	-104.7960285	0.00
8416.00	90.00	0.08	7442.00	739.00	456.04	1682.89	39.9456717	-104.7960280	0.00
8516.00	90.00	0.08	7442.00	837.53	556.04	1683.02	39.9459462	-104.7960274	0.00
8616.00	90.00	0.08	7442.00	936.06	656.04	1683.16	39.9462207	-104.7960269	0.00
8716.00	90.00	0.08	7442.00	1034.59	756.04	1683.30	39.9464953	-104.7960264	0.00
8816.00	90.00	0.08	7442.00	1133.12	856.04	1683.44	39.9467698	-104.7960259	0.00
8916.00	90.00	0.08	7442.00	1231.65	956.04	1683.58	39.9470443	-104.7960254	0.00
9016.00	90.00	0.08	7442.00	1330.18	1056.04	1683.72	39.9473188	-104.7960248	0.00
9116.00	90.00	0.08	7442.00	1428.71	1156.04	1683.86	39.9475933	-104.7960243	0.00
9216.00	90.00	0.08	7442.00	1527.24	1256.04	1683.99	39.9478678	-104.7960238	0.00
9316.00	90.00	0.08	7442.00	1625.77	1356.04	1684.13	39.9481423	-104.7960233	0.00
9416.00	90.00	0.08	7442.00	1724.30	1456.04	1684.27	39.9484168	-104.7960228	0.00
9516.00	90.00	0.08	7442.00	1822.83	1556.04	1684.41	39.9486913	-104.7960223	0.00
9616.00	90.00	0.08	7442.00	1921.36	1656.04	1684.55	39.9489659	-104.7960217	0.00
9716.00	90.00	0.08	7442.00	2019.89	1756.04	1684.69	39.9492404	-104.7960212	0.00
9816.00	90.00	0.08	7442.00	2118.42	1856.04	1684.83	39.9495149	-104.7960207	0.00
9916.00	90.00	0.08	7442.00	2216.95	1956.04	1684.96	39.9497894	-104.7960202	0.00
10016.00	90.00	0.08	7442.00	2315.48	2056.04	1685.10	39.9500639	-104.7960197	0.00
10116.00	90.00	0.08	7442.00	2414.01	2156.04	1685.24	39.9503384	-104.7960191	0.00
10216.00	90.00	0.08	7442.00	2512.54	2256.04	1685.38	39.9506129	-104.7960186	0.00
10316.00	90.00	0.08	7442.00	2611.07	2356.04	1685.52	39.9508874	-104.7960181	0.00
10416.00	90.00	0.08	7442.00	2709.60	2456.04	1685.66	39.9511619	-104.7960176	0.00
10516.00	90.00	0.08	7442.00	2808.13	2556.04	1685.80	39.9514365	-104.7960171	0.00
10616.00	90.00	0.08	7442.00	2906.66	2656.04	1685.94	39.9517110	-104.7960165	0.00
10716.00	90.00	0.08	7442.00	3005.19	2756.04	1686.07	39.9519855	-104.7960160	0.00
10816.00	90.00	0.08	7442.00	3103.72	2856.04	1686.21	39.9522600	-104.7960155	0.00
10916.00	90.00	0.08	7442.00	3202.25	2956.04	1686.35	39.9525345	-104.7960150	0.00
11016.00	90.00	0.08	7442.00	3300.78	3056.04	1686.49	39.9528090	-104.7960145	0.00
11116.00	90.00	0.08	7442.00	3399.31	3156.04	1686.63	39.9530835	-104.7960140	0.00
11216.00	90.00	0.08	7442.00	3497.84	3256.04	1686.77	39.9533580	-104.7960134	0.00
11316.00	90.00	0.08	7442.00	3596.37	3356.04	1686.91	39.9536325	-104.7960129	0.00
11416.00	90.00	0.08	7442.00	3694.90	3456.04	1687.04	39.9539071	-104.7960124	0.00
11516.00	90.00	0.08	7442.00	3793.43	3556.04	1687.18	39.9541816	-104.7960119	0.00
11616.00	90.00	0.08	7442.00	3891.96	3656.04	1687.32	39.9544561	-104.7960114	0.00
11716.00	90.00	0.08	7442.00	3990.49	3756.04	1687.46	39.9547306	-104.7960108	0.00

PETROSHARE_BRIGHTON_LAKES_20-17-1NBH_NIO_B_CK_REV-A.0_PWP_02-22-17.1as									
11816.00	90.00	0.08	7442.00	4089.02	3856.04	1687.60	39.9550051	-104.7960103	0.00
11916.00	90.00	0.08	7442.00	4187.56	3956.03	1687.74	39.9552796	-104.7960098	0.00
12016.00	90.00	0.08	7442.00	4286.09	4056.03	1687.88	39.9555541	-104.7960093	0.00
12116.00	90.00	0.08	7442.00	4384.62	4156.03	1688.01	39.9558286	-104.7960088	0.00
12216.00	90.00	0.08	7442.00	4483.15	4256.03	1688.15	39.9561031	-104.7960082	0.00
12316.00	90.00	0.08	7442.00	4581.68	4356.03	1688.29	39.9563777	-104.7960077	0.00
12416.00	90.00	0.08	7442.00	4680.21	4456.03	1688.43	39.9566522	-104.7960072	0.00
12516.00	90.00	0.08	7442.00	4778.74	4556.03	1688.57	39.9569267	-104.7960067	0.00
12616.00	90.00	0.08	7442.00	4877.27	4656.03	1688.71	39.9572012	-104.7960062	0.00
12716.00	90.00	0.08	7442.00	4975.80	4756.03	1688.85	39.9574757	-104.7960057	0.00
12816.00	90.00	0.08	7442.00	5074.33	4856.03	1688.99	39.9577502	-104.7960051	0.00
12916.00	90.00	0.08	7442.00	5172.86	4956.03	1689.12	39.9580247	-104.7960046	0.00
13016.00	90.00	0.08	7442.00	5271.39	5056.03	1689.26	39.9582992	-104.7960041	0.00
13116.00	90.00	0.08	7442.00	5369.92	5156.03	1689.40	39.9585737	-104.7960036	0.00
13216.00	90.00	0.08	7442.00	5468.45	5256.03	1689.54	39.9588483	-104.7960031	0.00
13316.00	90.00	0.08	7442.00	5566.98	5356.03	1689.68	39.9591228	-104.7960025	0.00
13416.00	90.00	0.08	7442.00	5665.51	5456.03	1689.82	39.9593973	-104.7960020	0.00
13516.00	90.00	0.08	7442.00	5764.04	5556.03	1689.96	39.9596718	-104.7960015	0.00
13616.00	90.00	0.08	7442.00	5862.57	5656.03	1690.09	39.9599463	-104.7960010	0.00
13716.00	90.00	0.08	7442.00	5961.10	5756.03	1690.23	39.9602208	-104.7960005	0.00
13816.00	90.00	0.08	7442.00	6059.63	5856.03	1690.37	39.9604953	-104.7959999	0.00
13916.00	90.00	0.08	7442.00	6158.16	5956.03	1690.51	39.9607698	-104.7959994	0.00
14016.00	90.00	0.08	7442.00	6256.69	6056.03	1690.65	39.9610443	-104.7959989	0.00
14116.00	90.00	0.08	7442.00	6355.22	6156.03	1690.79	39.9613189	-104.7959984	0.00
14216.00	90.00	0.08	7442.00	6453.75	6256.03	1690.93	39.9615934	-104.7959979	0.00
14316.00	90.00	0.08	7442.00	6552.28	6356.03	1691.06	39.9618679	-104.7959974	0.00
14416.00	90.00	0.08	7442.00	6650.81	6456.03	1691.20	39.9621424	-104.7959968	0.00
14516.00	90.00	0.08	7442.00	6749.34	6556.03	1691.34	39.9624169	-104.7959963	0.00
14616.00	90.00	0.08	7442.00	6847.87	6656.03	1691.48	39.9626914	-104.7959958	0.00
14716.00	90.00	0.08	7442.00	6946.40	6756.03	1691.62	39.9629659	-104.7959953	0.00
14816.00	90.00	0.08	7442.00	7044.93	6856.03	1691.76	39.9632404	-104.7959948	0.00
14916.00	90.00	0.08	7442.00	7143.46	6956.03	1691.90	39.9635149	-104.7959942	0.00
15016.00	90.00	0.08	7442.00	7241.99	7056.03	1692.03	39.9637895	-104.7959937	0.00
15116.00	90.00	0.08	7442.00	7340.52	7156.03	1692.17	39.9640640	-104.7959932	0.00
15216.00	90.00	0.08	7442.00	7439.05	7256.03	1692.31	39.9643385	-104.7959927	0.00
15316.00	90.00	0.08	7442.00	7537.58	7356.03	1692.45	39.9646130	-104.7959922	0.00
15416.00	90.00	0.08	7442.00	7636.11	7456.03	1692.59	39.9648875	-104.7959916	0.00
15516.00	90.00	0.08	7442.00	7734.64	7556.03	1692.73	39.9651620	-104.7959911	0.00
15616.00	90.00	0.08	7442.00	7833.17	7656.03	1692.87	39.9654365	-104.7959906	0.00
15716.00	90.00	0.08	7442.00	7931.70	7756.03	1693.01	39.9657110	-104.7959901	0.00
15816.00	90.00	0.08	7442.00	8030.23	7856.03	1693.14	39.9659855	-104.7959896	0.00
15916.00	90.00	0.08	7442.00	8128.76	7956.03	1693.28	39.9662600	-104.7959891	0.00
16016.00	90.00	0.08	7442.00	8227.29	8056.03	1693.42	39.9665346	-104.7959885	0.00
16116.00	90.00	0.08	7442.00	8325.82	8156.03	1693.56	39.9668091	-104.7959880	0.00

PETROSHARE_BRIGHTON_LAKES_20-17-1NBH__NIO_B_CK__REV-A.0__PWP_02-22-17.1as									
16216.00	90.00	0.08	7442.00	8424.35	8256.03	1693.70	39.9670836	-104.7959875	0.00
16316.00	90.00	0.08	7442.00	8522.88	8356.03	1693.84	39.9673581	-104.7959870	0.00
16416.00	90.00	0.08	7442.00	8621.41	8456.03	1693.98	39.9676326	-104.7959865	0.00
16516.00	90.00	0.08	7442.00	8719.94	8556.03	1694.11	39.9679071	-104.7959859	0.00
16616.00	90.00	0.08	7442.00	8818.47	8656.03	1694.25	39.9681816	-104.7959854	0.00
16716.00	90.00	0.08	7442.00	8917.00	8756.03	1694.39	39.9684561	-104.7959849	0.00
16816.00	90.00	0.08	7442.00	9015.54	8856.03	1694.53	39.9687306	-104.7959844	0.00
16916.00	90.00	0.08	7442.00	9114.07	8956.03	1694.67	39.9690052	-104.7959839	0.00
17016.00	90.00	0.08	7442.00	9212.60	9056.03	1694.81	39.9692797	-104.7959833	0.00
17116.00	90.00	0.08	7442.00	9311.13	9156.03	1694.95	39.9695542	-104.7959828	0.00
17216.00	90.00	0.08	7442.00	9409.66	9256.03	1695.08	39.9698287	-104.7959823	0.00
17316.00	90.00	0.08	7442.00	9508.19	9356.03	1695.22	39.9701032	-104.7959818	0.00
17416.00	90.00	0.08	7442.00	9606.72	9456.03	1695.36	39.9703777	-104.7959813	0.00
17516.00	90.00	0.08	7442.00	9705.25	9556.03	1695.50	39.9706522	-104.7959808	0.00
17616.00	90.00	0.08	7442.00	9803.78	9656.03	1695.64	39.9709267	-104.7959802	0.00
17660.90	90.00	0.08	7442.00	9848.02	9700.93	1695.70	39.9710500	-104.7959800	0.00

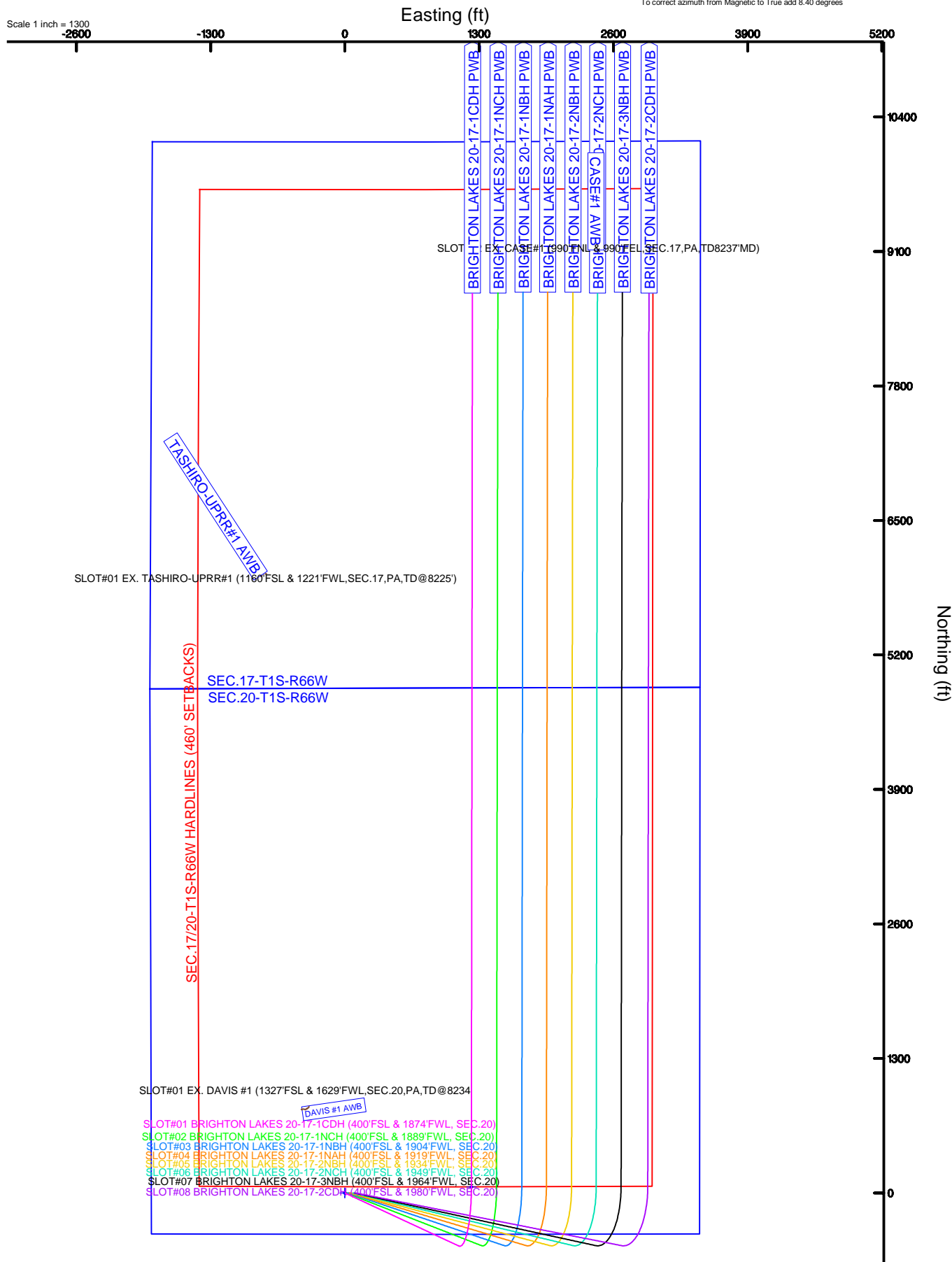
PETROSHARE

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

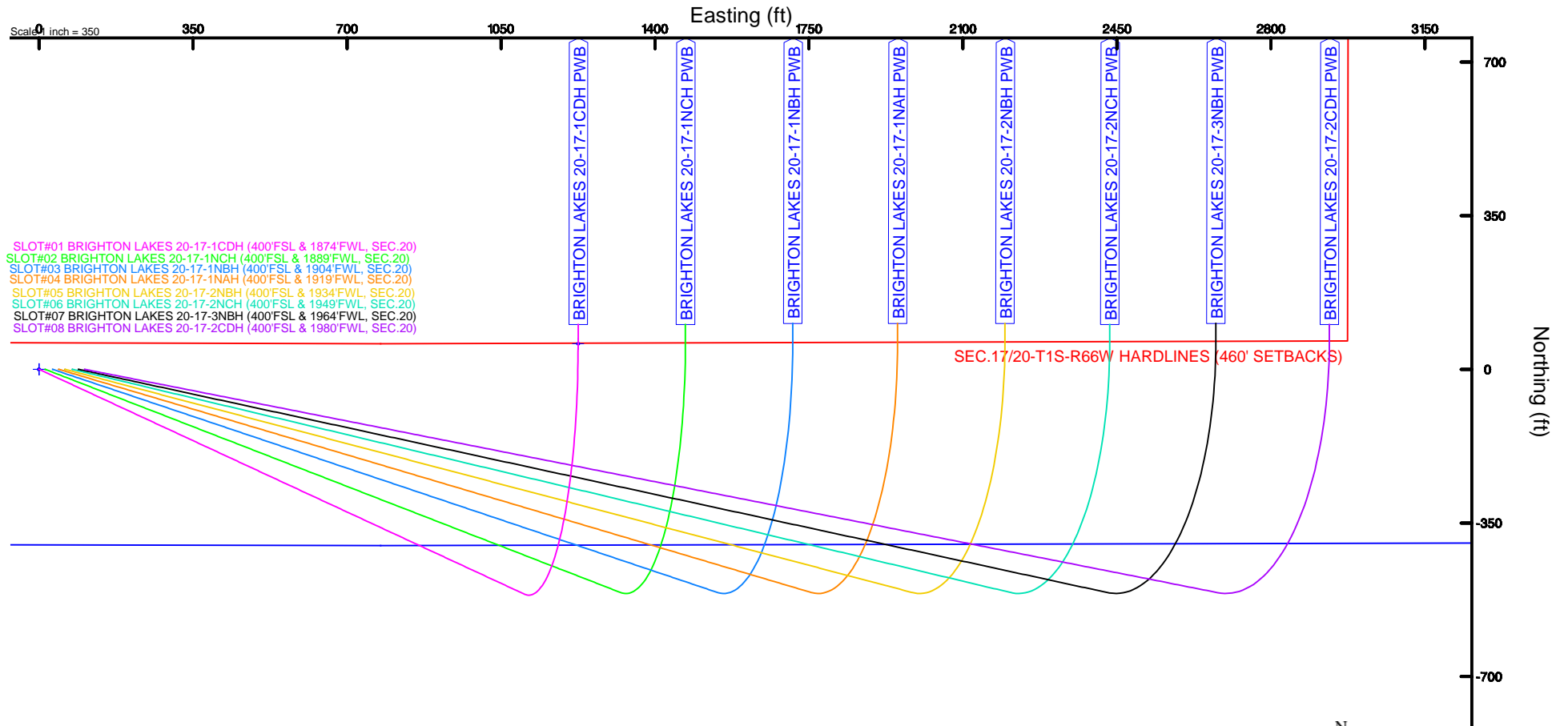


PETROSHARE

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	85.40	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	700.28	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	-263.55	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