

Location:	COLORADO	Slot:	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Field:	ADAMS COUNTY (NAD83/ TRUE NORTH)	Well:	BRIGHTON LAKES 20-17-2CDH
Facility:	SEC.20-T01S-R66W	Wellbore:	BRIGHTON LAKES 20-17-2CDH PWB

Grid System: NAD83 / Lambert Colorado SP. Northern Zone (501). US feet

* = Wellpath was transformed from a different geodetic datum

North Reference: True north

Scale: True distance

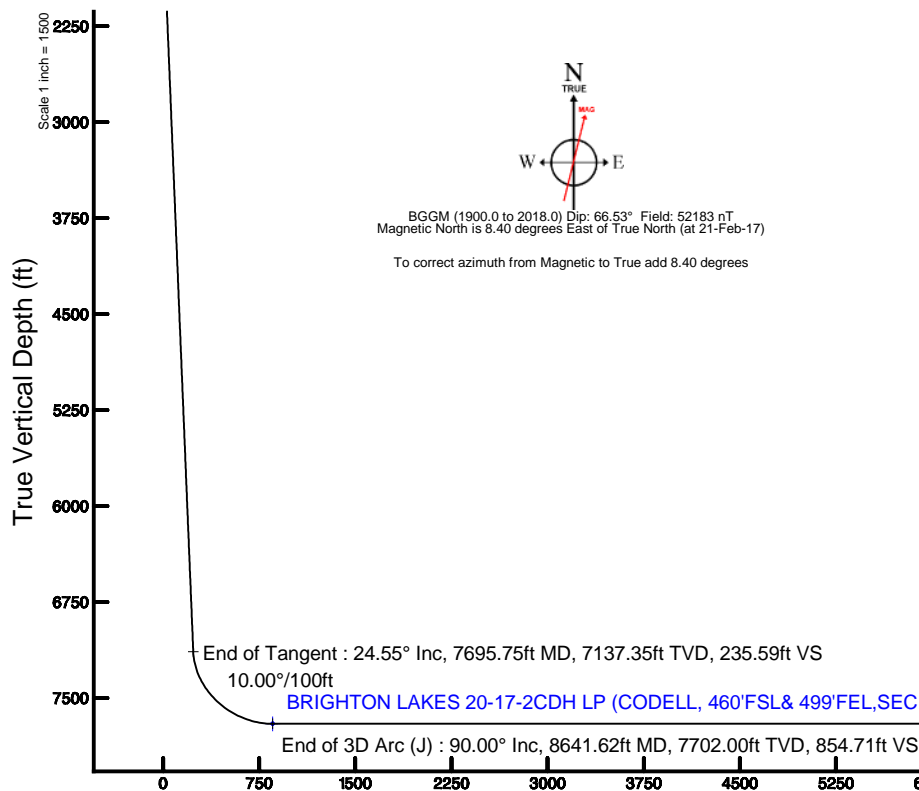
Depths are in feet

Created by: cookdanm on 2017-02-23

Database: WA_Denver

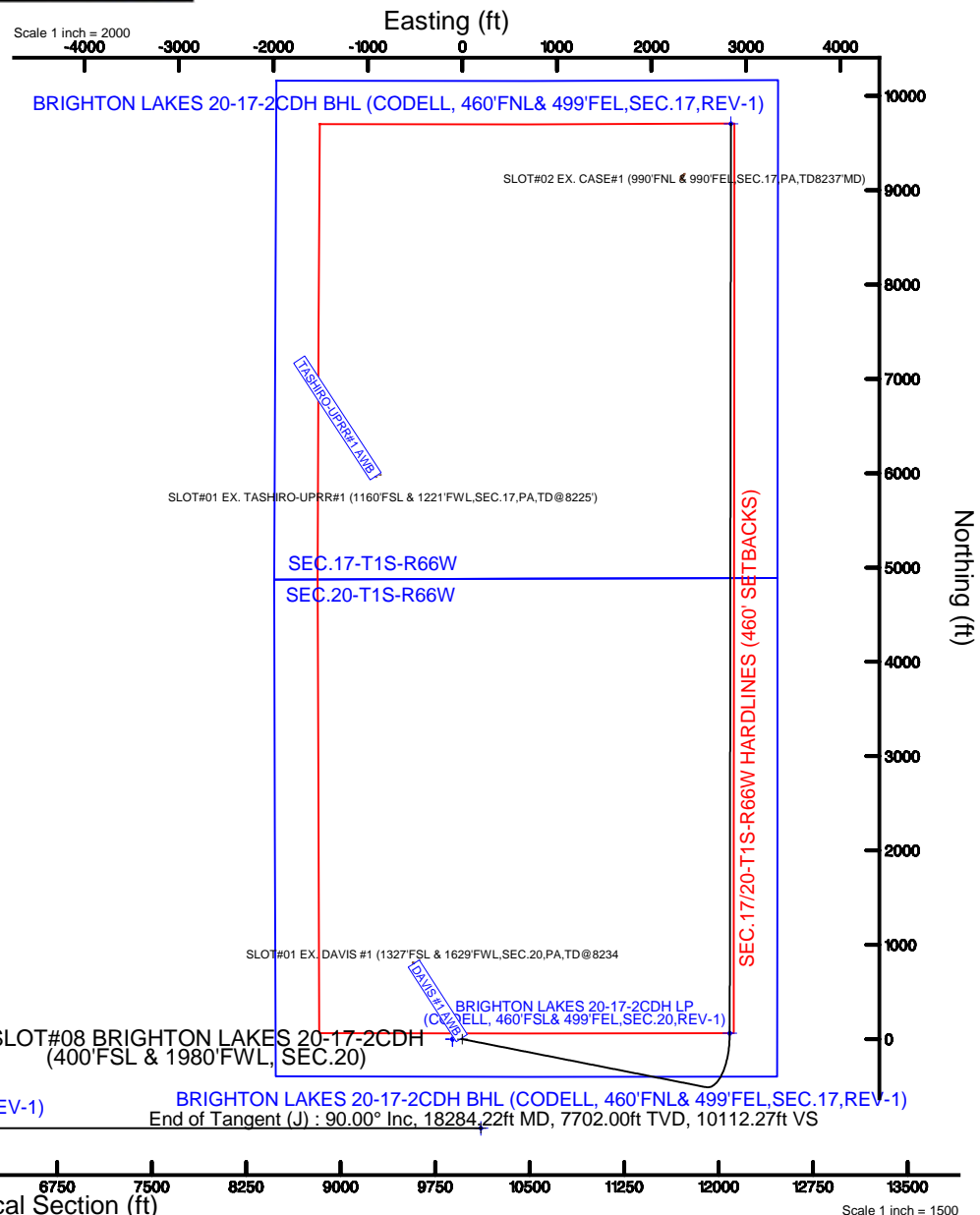
Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC.20-T01S-R66W			3195665.301	1223370.474	39°56'39.912"N	104°48'07.704"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SLOT#08 BRIGHTON LAKES 20-17-2CDH (400 FSL & 1980 FWL, SEC.20)	0.00	103.74	3195769.039	1223371.291	39°56'39.912"N	104°48'06.372"W
RIG (16'RKb) (RKb) to Mud line (At Slot: SLOT#08 BRIGHTON LAKES 20-17-2CDH (400 FSL & 1980 FWL, SEC.20))					5063ft	
Mean Sea Level to Mud line (At Slot: SLOT#08 BRIGHTON LAKES 20-17-2CDH (400 FSL & 1980 FWL, SEC.20))					0ft	
RIG (16'RKb) (RKb) to Mean Sea Level					5063ft	

Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (ft)	Wellbore
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	0.00	0.00	0.00	BRIGHTON LAKES 20-17-2CDH 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 20-17-2CDH PWB
8.5in Open Hole	882.00	18285.00	17403.00	882.00	N/A	0.00	0.00	N/A	N/A	BRIGHTON LAKES 20-17-2CDH PWB



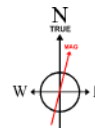
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	16.00	0.000	101.174	16.00	0.00	0.00	0.00	0.00
End of Tangent	975.00	0.000	101.174	975.00	0.00	0.00	0.00	0.00
End of Build	1793.33	24.550	101.174	1768.52	-33.46	169.38	3.00	15.50
End of Tangent	7695.75	24.550	101.174	7137.35	-508.69	2575.27	0.00	235.59
End of 3D Arc (J)	8641.62	90.000	0.777	7702.00	62.09	2829.13	10.00	854.71
End of Tangent (J)	18284.22	90.000	0.777	7702.00	9704.68	2842.05	0.00	10112.27

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



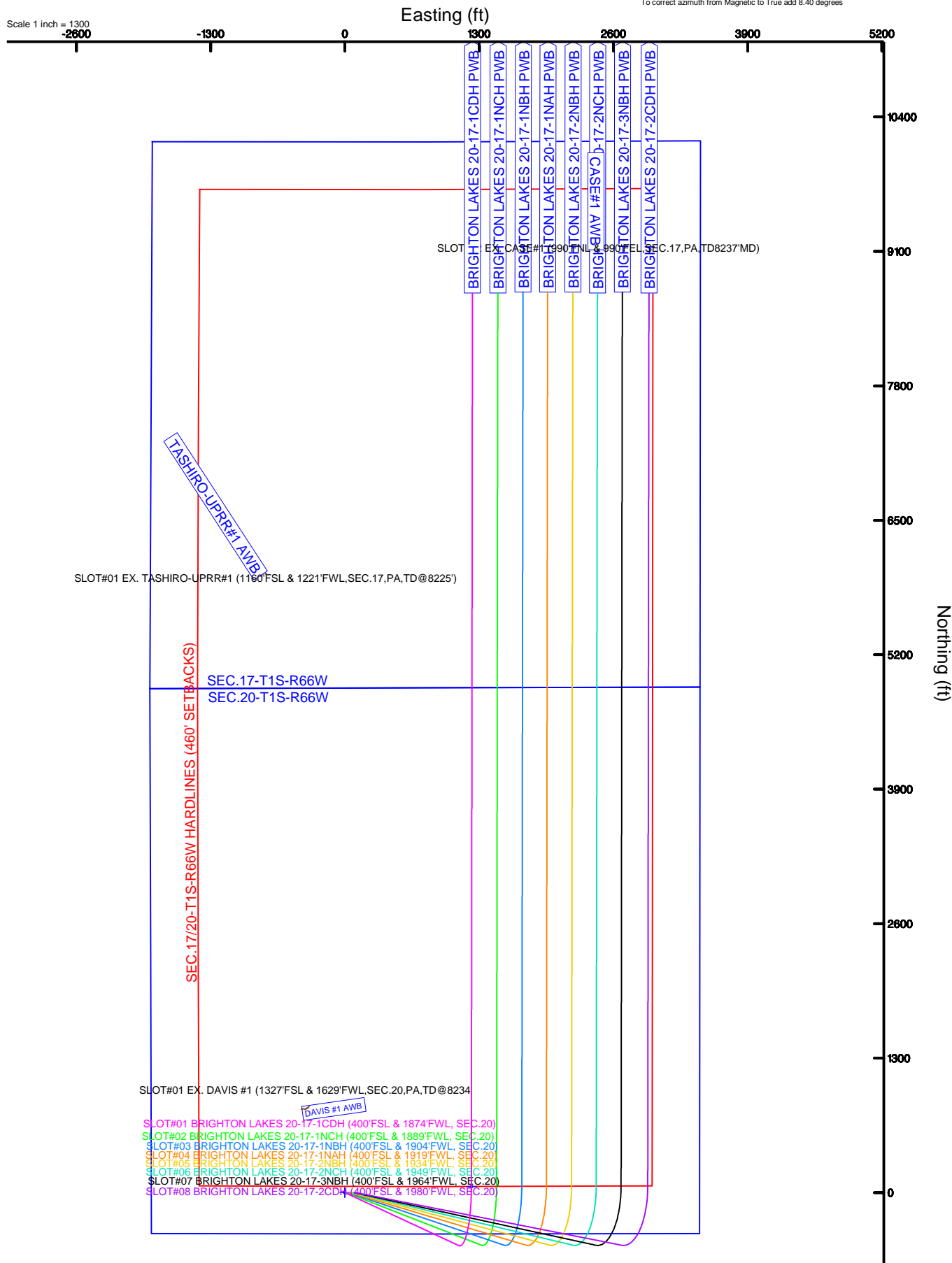
PETROSHARE

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



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

To correct azimuth from Magnetic to True add 8.40 degrees

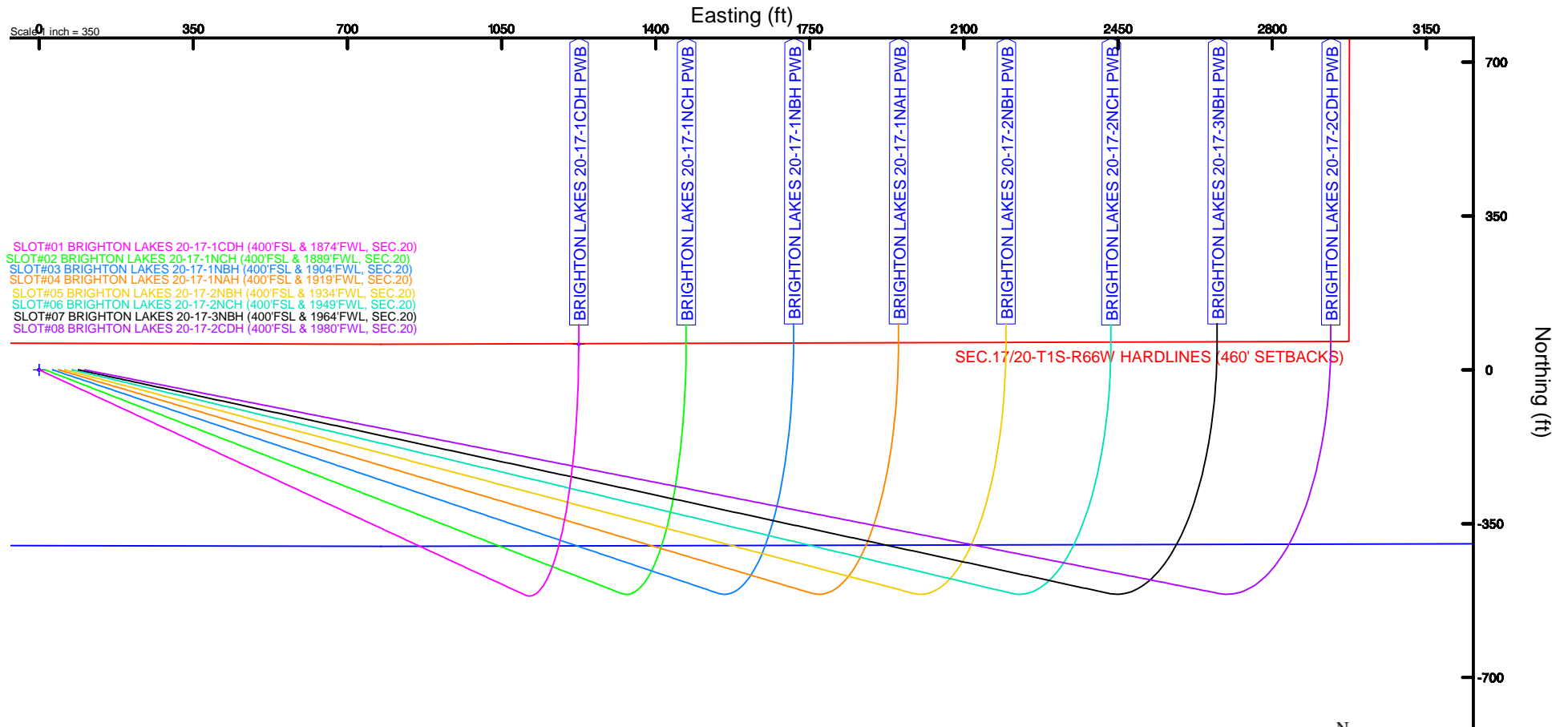


PETROSHARE

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



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



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



Planned Wellpath Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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 11:08:38 AM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/BRIGHTON_LAKES_20-17-2CDH_CODELL_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	103.74	3195769.04	1223371.29	39°56'39.912"N	104°48'06.372"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#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'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	16.32°



Planned Wellpath Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH DATA (200 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	101.174	0.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.372"W	0.00	
16.00	0.000	101.174	16.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.372"W	0.00	Tie On
116.00†	0.000	101.174	116.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.372"W	0.00	
216.00†	0.000	101.174	216.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.372"W	0.00	
316.00†	0.000	101.174	316.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.372"W	0.00	
416.00†	0.000	101.174	416.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.372"W	0.00	
516.00†	0.000	101.174	516.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.372"W	0.00	
616.00†	0.000	101.174	616.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.372"W	0.00	
716.00†	0.000	101.174	716.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.372"W	0.00	
816.00†	0.000	101.174	816.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.372"W	0.00	
882.00†	0.000	101.174	882.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.372"W	0.00	Fox Hills
916.00†	0.000	101.174	916.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.372"W	0.00	
975.00	0.000	101.174	975.00	0.00	0.00	0.00	39°56'39.912"N	104°48'06.372"W	0.00	End of Tangent
1016.00†	1.230	101.174	1016.00	0.04	-0.09	0.43	39°56'39.911"N	104°48'06.366"W	3.00	
1116.00†	4.230	101.174	1115.87	0.47	-1.01	5.10	39°56'39.902"N	104°48'06.306"W	3.00	
1216.00†	7.230	101.174	1215.36	1.36	-2.94	14.90	39°56'39.883"N	104°48'06.181"W	3.00	
1316.00†	10.230	101.174	1314.19	2.72	-5.88	29.79	39°56'39.854"N	104°48'05.990"W	3.00	
1416.00†	13.230	101.174	1412.09	4.55	-9.82	49.73	39°56'39.815"N	104°48'05.734"W	3.00	
1516.00†	16.230	101.174	1508.79	6.83	-14.75	74.67	39°56'39.766"N	104°48'05.413"W	3.00	
1616.00†	19.230	101.174	1604.03	9.56	-20.65	104.54	39°56'39.708"N	104°48'05.030"W	3.00	
1716.00†	22.230	101.174	1697.55	12.74	-27.51	139.26	39°56'39.640"N	104°48'04.584"W	3.00	
1793.33	24.550	101.174	1768.52	15.50	-33.46	169.38	39°56'39.581"N	104°48'04.197"W	3.00	End of Build
1816.00†	24.550	101.174	1789.14	16.34	-35.28	178.62	39°56'39.563"N	104°48'04.079"W	0.00	
1916.00†	24.550	101.174	1880.10	20.07	-43.33	219.38	39°56'39.484"N	104°48'03.555"W	0.00	
2016.00†	24.550	101.174	1971.06	23.80	-51.39	260.14	39°56'39.404"N	104°48'03.032"W	0.00	
2116.00†	24.550	101.174	2062.02	27.53	-59.44	300.90	39°56'39.325"N	104°48'02.509"W	0.00	
2216.00†	24.550	101.174	2152.98	31.26	-67.49	341.66	39°56'39.245"N	104°48'01.985"W	0.00	
2316.00†	24.550	101.174	2243.94	34.98	-75.54	382.43	39°56'39.165"N	104°48'01.462"W	0.00	
2416.00†	24.550	101.174	2334.90	38.71	-83.59	423.19	39°56'39.086"N	104°48'00.939"W	0.00	
2516.00†	24.550	101.174	2425.86	42.44	-91.64	463.95	39°56'39.006"N	104°48'00.415"W	0.00	
2616.00†	24.550	101.174	2516.82	46.17	-99.70	504.71	39°56'38.927"N	104°47'59.892"W	0.00	
2716.00†	24.550	101.174	2607.78	49.90	-107.75	545.47	39°56'38.847"N	104°47'59.369"W	0.00	
2816.00†	24.550	101.174	2698.74	53.63	-115.80	586.23	39°56'38.768"N	104°47'58.845"W	0.00	
2916.00†	24.550	101.174	2789.70	57.36	-123.85	626.99	39°56'38.688"N	104°47'58.322"W	0.00	
3016.00†	24.550	101.174	2880.66	61.09	-131.90	667.75	39°56'38.608"N	104°47'57.799"W	0.00	
3116.00†	24.550	101.174	2971.62	64.82	-139.95	708.51	39°56'38.529"N	104°47'57.275"W	0.00	
3216.00†	24.550	101.174	3062.58	68.54	-148.00	749.28	39°56'38.449"N	104°47'56.752"W	0.00	
3316.00†	24.550	101.174	3153.54	72.27	-156.06	790.04	39°56'38.370"N	104°47'56.229"W	0.00	
3416.00†	24.550	101.174	3244.50	76.00	-164.11	830.80	39°56'38.290"N	104°47'55.705"W	0.00	
3516.00†	24.550	101.174	3335.46	79.73	-172.16	871.56	39°56'38.210"N	104°47'55.182"W	0.00	
3616.00†	24.550	101.174	3426.42	83.46	-180.21	912.32	39°56'38.131"N	104°47'54.659"W	0.00	
3716.00†	24.550	101.174	3517.38	87.19	-188.26	953.08	39°56'38.051"N	104°47'54.135"W	0.00	
3816.00†	24.550	101.174	3608.34	90.92	-196.31	993.84	39°56'37.972"N	104°47'53.612"W	0.00	
3916.00†	24.550	101.174	3699.30	94.65	-204.37	1034.60	39°56'37.892"N	104°47'53.089"W	0.00	
4016.00†	24.550	101.174	3790.26	98.38	-212.42	1075.36	39°56'37.813"N	104°47'52.565"W	0.00	



Planned Wellpath Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH DATA (200 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4116.00†	24.550	101.174	3881.22	102.10	-220.47	1116.13	39°56'37.733"N	104°47'52.042"W	0.00	
4216.00†	24.550	101.174	3972.18	105.83	-228.52	1156.89	39°56'37.653"N	104°47'51.519"W	0.00	
4316.00†	24.550	101.174	4063.14	109.56	-236.57	1197.65	39°56'37.574"N	104°47'50.995"W	0.00	
4416.00†	24.550	101.174	4154.10	113.29	-244.62	1238.41	39°56'37.494"N	104°47'50.472"W	0.00	
4516.00†	24.550	101.174	4245.06	117.02	-252.67	1279.17	39°56'37.415"N	104°47'49.949"W	0.00	
4616.00†	24.550	101.174	4336.02	120.75	-260.73	1319.93	39°56'37.335"N	104°47'49.425"W	0.00	
4716.00†	24.550	101.174	4426.98	124.48	-268.78	1360.69	39°56'37.255"N	104°47'48.902"W	0.00	
4816.00†	24.550	101.174	4517.94	128.21	-276.83	1401.45	39°56'37.176"N	104°47'48.379"W	0.00	
4916.00†	24.550	101.174	4608.90	131.94	-284.88	1442.21	39°56'37.096"N	104°47'47.855"W	0.00	
5016.00†	24.550	101.174	4699.86	135.66	-292.93	1482.98	39°56'37.017"N	104°47'47.332"W	0.00	
5116.00†	24.550	101.174	4790.82	139.39	-300.98	1523.74	39°56'36.937"N	104°47'46.809"W	0.00	
5172.27†	24.550	101.174	4842.00	141.49	-305.51	1546.67	39°56'36.892"N	104°47'46.514"W	0.00	Sussex / Shannon
5216.00†	24.550	101.174	4881.78	143.12	-309.04	1564.50	39°56'36.857"N	104°47'46.285"W	0.00	
5316.00†	24.550	101.174	4972.74	146.85	-317.09	1605.26	39°56'36.778"N	104°47'45.762"W	0.00	
5416.00†	24.550	101.174	5063.70	150.58	-325.14	1646.02	39°56'36.698"N	104°47'45.239"W	0.00	
5516.00†	24.550	101.174	5154.66	154.31	-333.19	1686.78	39°56'36.619"N	104°47'44.715"W	0.00	
5616.00†	24.550	101.174	5245.62	158.04	-341.24	1727.54	39°56'36.539"N	104°47'44.192"W	0.00	
5716.00†	24.550	101.174	5336.58	161.77	-349.29	1768.30	39°56'36.460"N	104°47'43.669"W	0.00	
5816.00†	24.550	101.174	5427.54	165.50	-357.35	1809.06	39°56'36.380"N	104°47'43.145"W	0.00	
5916.00†	24.550	101.174	5518.50	169.22	-365.40	1849.83	39°56'36.300"N	104°47'42.622"W	0.00	
6016.00†	24.550	101.174	5609.46	172.95	-373.45	1890.59	39°56'36.221"N	104°47'42.099"W	0.00	
6116.00†	24.550	101.174	5700.42	176.68	-381.50	1931.35	39°56'36.141"N	104°47'41.575"W	0.00	
6216.00†	24.550	101.174	5791.38	180.41	-389.55	1972.11	39°56'36.062"N	104°47'41.052"W	0.00	
6316.00†	24.550	101.174	5882.33	184.14	-397.60	2012.87	39°56'35.982"N	104°47'40.529"W	0.00	
6416.00†	24.550	101.174	5973.29	187.87	-405.65	2053.63	39°56'35.902"N	104°47'40.005"W	0.00	
6516.00†	24.550	101.174	6064.25	191.60	-413.71	2094.39	39°56'35.823"N	104°47'39.482"W	0.00	
6616.00†	24.550	101.174	6155.21	195.33	-421.76	2135.15	39°56'35.743"N	104°47'38.959"W	0.00	
6716.00†	24.550	101.174	6246.17	199.06	-429.81	2175.91	39°56'35.664"N	104°47'38.435"W	0.00	
6816.00†	24.550	101.174	6337.13	202.78	-437.86	2216.68	39°56'35.584"N	104°47'37.912"W	0.00	
6916.00†	24.550	101.174	6428.09	206.51	-445.91	2257.44	39°56'35.504"N	104°47'37.389"W	0.00	
7016.00†	24.550	101.174	6519.05	210.24	-453.96	2298.20	39°56'35.425"N	104°47'36.865"W	0.00	
7116.00†	24.550	101.174	6610.01	213.97	-462.02	2338.96	39°56'35.345"N	104°47'36.342"W	0.00	
7216.00†	24.550	101.174	6700.97	217.70	-470.07	2379.72	39°56'35.265"N	104°47'35.819"W	0.00	
7316.00†	24.550	101.174	6791.93	221.43	-478.12	2420.48	39°56'35.186"N	104°47'35.295"W	0.00	
7416.00†	24.550	101.174	6882.89	225.16	-486.17	2461.24	39°56'35.106"N	104°47'34.772"W	0.00	
7516.00†	24.550	101.174	6973.85	228.89	-494.22	2502.00	39°56'35.027"N	104°47'34.249"W	0.00	
7616.00†	24.550	101.174	7064.81	232.62	-502.27	2542.77	39°56'34.947"N	104°47'33.726"W	0.00	
7695.75	24.550	101.174	7137.35	235.59	-508.69	2575.27	39°56'34.884"N	104°47'33.308"W	0.00	End of Tangent
7716.00†	24.271	96.319	7155.80	236.69	-509.97	2583.54	39°56'34.871"N	104°47'33.202"W	10.00	
7816.00†	25.198	72.374	7246.85	252.19	-505.77	2624.36	39°56'34.912"N	104°47'32.678"W	10.00	
7838.33†	25.901	67.458	7267.00	257.90	-502.46	2633.39	39°56'34.945"N	104°47'32.562"W	10.00	Niobrara A Chalk
7894.47†	28.329	56.327	7317.00	275.81	-490.37	2655.82	39°56'35.065"N	104°47'32.274"W	10.00	Niobrara A Marl
7916.00†	29.474	52.554	7335.85	284.00	-484.32	2664.28	39°56'35.124"N	104°47'32.165"W	10.00	
8016.00†	35.917	38.308	7420.08	331.16	-446.25	2702.09	39°56'35.501"N	104°47'31.680"W	10.00	
8037.09†	37.454	35.889	7437.00	342.94	-436.19	2709.68	39°56'35.600"N	104°47'31.582"W	10.00	Niobrara B Chalk



Planned Wellpath Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH DATA (200 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8109.13†	43.017	28.787	7492.00	387.63	-396.86	2734.39	39°56'35.989"N	104°47'31.265"W	10.00	Niobrara B Marl
8116.00†	43.569	28.190	7497.00	392.24	-392.72	2736.64	39°56'36.029"N	104°47'31.236"W	10.00	
8166.04†	47.670	24.175	7532.00	427.46	-360.63	2752.37	39°56'36.347"N	104°47'31.034"W	10.00	Niobrara C Chalk
8216.00†	51.887	20.664	7564.26	465.38	-325.37	2766.87	39°56'36.695"N	104°47'30.848"W	10.00	
8238.76†	53.841	19.198	7578.00	483.48	-308.31	2773.06	39°56'36.864"N	104°47'30.769"W	10.00	Niobrara C Marl
8316.00†	60.585	14.715	7619.82	548.35	-246.23	2791.88	39°56'37.477"N	104°47'30.527"W	10.00	
8416.00†	69.506	9.722	7661.99	638.64	-157.72	2810.90	39°56'38.352"N	104°47'30.282"W	10.00	
8463.72†	73.811	7.554	7677.00	683.52	-112.95	2817.69	39°56'38.794"N	104°47'30.195"W	10.00	Fort Hays
8516.00†	78.553	5.284	7689.48	733.51	-62.52	2823.36	39°56'39.293"N	104°47'30.122"W	10.00	
8616.00†	87.663	1.125	7701.48	830.06	36.48	2828.87	39°56'40.271"N	104°47'30.051"W	10.00	
8641.48†	89.988	0.082	7702.00	854.59	61.96	2829.13	39°56'40.523"N	104°47'30.048"W	10.00	Codell
8641.62	90.000	0.077	7702.00†	854.71	62.09	2829.13	39°56'40.524"N	104°47'30.048"W	10.00	End of 3D Arc (J)
8716.00†	90.000	0.077	7702.00	926.13	136.47	2829.23	39°56'41.259"N	104°47'30.047"W	0.00	
8816.00†	90.000	0.077	7702.00	1022.13	236.47	2829.37	39°56'42.247"N	104°47'30.045"W	0.00	
8916.00†	90.000	0.077	7702.00	1118.14	336.47	2829.50	39°56'43.236"N	104°47'30.043"W	0.00	
9016.00†	90.000	0.077	7702.00	1214.15	436.47	2829.64	39°56'44.224"N	104°47'30.041"W	0.00	
9116.00†	90.000	0.077	7702.00	1310.15	536.47	2829.77	39°56'45.212"N	104°47'30.039"W	0.00	
9216.00†	90.000	0.077	7702.00	1406.16	636.47	2829.90	39°56'46.200"N	104°47'30.037"W	0.00	
9316.00†	90.000	0.077	7702.00	1502.17	736.47	2830.04	39°56'47.189"N	104°47'30.035"W	0.00	
9416.00†	90.000	0.077	7702.00	1598.17	836.47	2830.17	39°56'48.177"N	104°47'30.034"W	0.00	
9516.00†	90.000	0.077	7702.00	1694.18	936.47	2830.31	39°56'49.165"N	104°47'30.032"W	0.00	
9616.00†	90.000	0.077	7702.00	1790.19	1036.47	2830.44	39°56'50.153"N	104°47'30.030"W	0.00	
9716.00†	90.000	0.077	7702.00	1886.20	1136.47	2830.57	39°56'51.141"N	104°47'30.028"W	0.00	
9816.00†	90.000	0.077	7702.00	1982.20	1236.47	2830.71	39°56'52.130"N	104°47'30.026"W	0.00	
9916.00†	90.000	0.077	7702.00	2078.21	1336.47	2830.84	39°56'53.118"N	104°47'30.024"W	0.00	
10016.00†	90.000	0.077	7702.00	2174.22	1436.47	2830.98	39°56'54.106"N	104°47'30.022"W	0.00	
10116.00†	90.000	0.077	7702.00	2270.22	1536.47	2831.11	39°56'55.094"N	104°47'30.020"W	0.00	
10216.00†	90.000	0.077	7702.00	2366.23	1636.47	2831.24	39°56'56.083"N	104°47'30.019"W	0.00	
10316.00†	90.000	0.077	7702.00	2462.24	1736.47	2831.38	39°56'57.071"N	104°47'30.017"W	0.00	
10416.00†	90.000	0.077	7702.00	2558.24	1836.47	2831.51	39°56'58.059"N	104°47'30.015"W	0.00	
10516.00†	90.000	0.077	7702.00	2654.25	1936.47	2831.64	39°56'59.047"N	104°47'30.013"W	0.00	
10616.00†	90.000	0.077	7702.00	2750.26	2036.47	2831.78	39°57'00.036"N	104°47'30.011"W	0.00	
10716.00†	90.000	0.077	7702.00	2846.26	2136.47	2831.91	39°57'01.024"N	104°47'30.009"W	0.00	
10816.00†	90.000	0.077	7702.00	2942.27	2236.47	2832.05	39°57'02.012"N	104°47'30.007"W	0.00	
10916.00†	90.000	0.077	7702.00	3038.28	2336.47	2832.18	39°57'03.000"N	104°47'30.006"W	0.00	
11016.00†	90.000	0.077	7702.00	3134.28	2436.47	2832.31	39°57'03.989"N	104°47'30.004"W	0.00	
11116.00†	90.000	0.077	7702.00	3230.29	2536.47	2832.45	39°57'04.977"N	104°47'30.002"W	0.00	
11216.00†	90.000	0.077	7702.00	3326.30	2636.47	2832.58	39°57'05.965"N	104°47'30.000"W	0.00	
11316.00†	90.000	0.077	7702.00	3422.31	2736.47	2832.72	39°57'06.953"N	104°47'29.998"W	0.00	
11416.00†	90.000	0.077	7702.00	3518.31	2836.47	2832.85	39°57'07.942"N	104°47'29.996"W	0.00	
11516.00†	90.000	0.077	7702.00	3614.32	2936.47	2832.98	39°57'08.930"N	104°47'29.994"W	0.00	
11616.00†	90.000	0.077	7702.00	3710.33	3036.47	2833.12	39°57'09.918"N	104°47'29.992"W	0.00	
11716.00†	90.000	0.077	7702.00	3806.33	3136.47	2833.25	39°57'10.906"N	104°47'29.991"W	0.00	
11816.00†	90.000	0.077	7702.00	3902.34	3236.47	2833.39	39°57'11.895"N	104°47'29.989"W	0.00	
11916.00†	90.000	0.077	7702.00	3998.35	3336.47	2833.52	39°57'12.883"N	104°47'29.987"W	0.00	



Planned Wellpath Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH DATA (200 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12016.00†	90.000	0.077	7702.00	4094.35	3436.47	2833.65	39°57'13.871"N	104°47'29.985"W	0.00	
12116.00†	90.000	0.077	7702.00	4190.36	3536.47	2833.79	39°57'14.859"N	104°47'29.983"W	0.00	
12216.00†	90.000	0.077	7702.00	4286.37	3636.47	2833.92	39°57'15.847"N	104°47'29.981"W	0.00	
12316.00†	90.000	0.077	7702.00	4382.37	3736.47	2834.06	39°57'16.836"N	104°47'29.979"W	0.00	
12416.00†	90.000	0.077	7702.00	4478.38	3836.47	2834.19	39°57'17.824"N	104°47'29.978"W	0.00	
12516.00†	90.000	0.077	7702.00	4574.39	3936.47	2834.32	39°57'18.812"N	104°47'29.976"W	0.00	
12616.00†	90.000	0.077	7702.00	4670.40	4036.47	2834.46	39°57'19.800"N	104°47'29.974"W	0.00	
12716.00†	90.000	0.077	7702.00	4766.40	4136.47	2834.59	39°57'20.789"N	104°47'29.972"W	0.00	
12816.00†	90.000	0.077	7702.00	4862.41	4236.47	2834.73	39°57'21.777"N	104°47'29.970"W	0.00	
12916.00†	90.000	0.077	7702.00	4958.42	4336.47	2834.86	39°57'22.765"N	104°47'29.968"W	0.00	
13016.00†	90.000	0.077	7702.00	5054.42	4436.47	2834.99	39°57'23.753"N	104°47'29.966"W	0.00	
13116.00†	90.000	0.077	7702.00	5150.43	4536.47	2835.13	39°57'24.742"N	104°47'29.964"W	0.00	
13216.00†	90.000	0.077	7702.00	5246.44	4636.47	2835.26	39°57'25.730"N	104°47'29.963"W	0.00	
13316.00†	90.000	0.077	7702.00	5342.44	4736.47	2835.40	39°57'26.718"N	104°47'29.961"W	0.00	
13416.00†	90.000	0.077	7702.00	5438.45	4836.47	2835.53	39°57'27.706"N	104°47'29.959"W	0.00	
13462.92†	90.000	0.077	7702.00	5483.49	4883.39	2835.59	39°57'28.170"N	104°47'29.958"W	0.00	Codell
13516.00†	90.000	0.077	7702.00	5534.46	4936.47	2835.66	39°57'28.695"N	104°47'29.957"W	0.00	
13616.00†	90.000	0.077	7702.00	5630.46	5036.47	2835.80	39°57'29.683"N	104°47'29.955"W	0.00	
13716.00†	90.000	0.077	7702.00	5726.47	5136.47	2835.93	39°57'30.671"N	104°47'29.953"W	0.00	
13816.00†	90.000	0.077	7702.00	5822.48	5236.47	2836.07	39°57'31.659"N	104°47'29.951"W	0.00	
13916.00†	90.000	0.077	7702.00	5918.48	5336.47	2836.20	39°57'32.648"N	104°47'29.950"W	0.00	
14016.00†	90.000	0.077	7702.00	6014.49	5436.47	2836.33	39°57'33.636"N	104°47'29.948"W	0.00	
14116.00†	90.000	0.077	7702.00	6110.50	5536.47	2836.47	39°57'34.624"N	104°47'29.946"W	0.00	
14216.00†	90.000	0.077	7702.00	6206.51	5636.47	2836.60	39°57'35.612"N	104°47'29.944"W	0.00	
14316.00†	90.000	0.077	7702.00	6302.51	5736.47	2836.74	39°57'36.601"N	104°47'29.942"W	0.00	
14416.00†	90.000	0.077	7702.00	6398.52	5836.47	2836.87	39°57'37.589"N	104°47'29.940"W	0.00	
14516.00†	90.000	0.077	7702.00	6494.53	5936.47	2837.00	39°57'38.577"N	104°47'29.938"W	0.00	
14616.00†	90.000	0.077	7702.00	6590.53	6036.47	2837.14	39°57'39.565"N	104°47'29.936"W	0.00	
14716.00†	90.000	0.077	7702.00	6686.54	6136.47	2837.27	39°57'40.553"N	104°47'29.935"W	0.00	
14816.00†	90.000	0.077	7702.00	6782.55	6236.47	2837.40	39°57'41.542"N	104°47'29.933"W	0.00	
14916.00†	90.000	0.077	7702.00	6878.55	6336.47	2837.54	39°57'42.530"N	104°47'29.931"W	0.00	
15016.00†	90.000	0.077	7702.00	6974.56	6436.47	2837.67	39°57'43.518"N	104°47'29.929"W	0.00	
15116.00†	90.000	0.077	7702.00	7070.57	6536.47	2837.81	39°57'44.506"N	104°47'29.927"W	0.00	
15216.00†	90.000	0.077	7702.00	7166.57	6636.47	2837.94	39°57'45.495"N	104°47'29.925"W	0.00	
15316.00†	90.000	0.077	7702.00	7262.58	6736.47	2838.07	39°57'46.483"N	104°47'29.923"W	0.00	
15416.00†	90.000	0.077	7702.00	7358.59	6836.47	2838.21	39°57'47.471"N	104°47'29.922"W	0.00	
15516.00†	90.000	0.077	7702.00	7454.59	6936.47	2838.34	39°57'48.459"N	104°47'29.920"W	0.00	
15616.00†	90.000	0.077	7702.00	7550.60	7036.47	2838.48	39°57'49.448"N	104°47'29.918"W	0.00	
15716.00†	90.000	0.077	7702.00	7646.61	7136.47	2838.61	39°57'50.436"N	104°47'29.916"W	0.00	
15816.00†	90.000	0.077	7702.00	7742.62	7236.47	2838.74	39°57'51.424"N	104°47'29.914"W	0.00	
15916.00†	90.000	0.077	7702.00	7838.62	7336.47	2838.88	39°57'52.412"N	104°47'29.912"W	0.00	
16016.00†	90.000	0.077	7702.00	7934.63	7436.47	2839.01	39°57'53.401"N	104°47'29.910"W	0.00	
16116.00†	90.000	0.077	7702.00	8030.64	7536.47	2839.15	39°57'54.389"N	104°47'29.908"W	0.00	
16216.00†	90.000	0.077	7702.00	8126.64	7636.47	2839.28	39°57'55.377"N	104°47'29.907"W	0.00	
16316.00†	90.000	0.077	7702.00	8222.65	7736.47	2839.41	39°57'56.365"N	104°47'29.905"W	0.00	



Planned Wellpath Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH DATA (200 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
16416.00†	90.000	0.077	7702.00	8318.66	7836.47	2839.55	39°57'57.354"N	104°47'29.903"W	0.00	
16516.00†	90.000	0.077	7702.00	8414.66	7936.47	2839.68	39°57'58.342"N	104°47'29.901"W	0.00	
16616.00†	90.000	0.077	7702.00	8510.67	8036.47	2839.82	39°57'59.330"N	104°47'29.899"W	0.00	
16716.00†	90.000	0.077	7702.00	8606.68	8136.47	2839.95	39°58'00.318"N	104°47'29.897"W	0.00	
16816.00†	90.000	0.077	7702.00	8702.68	8236.47	2840.08	39°58'01.307"N	104°47'29.895"W	0.00	
16916.00†	90.000	0.077	7702.00	8798.69	8336.47	2840.22	39°58'02.295"N	104°47'29.894"W	0.00	
17016.00†	90.000	0.077	7702.00	8894.70	8436.46	2840.35	39°58'03.283"N	104°47'29.892"W	0.00	
17116.00†	90.000	0.077	7702.00	8990.71	8536.46	2840.49	39°58'04.271"N	104°47'29.890"W	0.00	
17216.00†	90.000	0.077	7702.00	9086.71	8636.46	2840.62	39°58'05.259"N	104°47'29.888"W	0.00	
17316.00†	90.000	0.077	7702.00	9182.72	8736.46	2840.75	39°58'06.248"N	104°47'29.886"W	0.00	
17416.00†	90.000	0.077	7702.00	9278.73	8836.46	2840.89	39°58'07.236"N	104°47'29.884"W	0.00	
17516.00†	90.000	0.077	7702.00	9374.73	8936.46	2841.02	39°58'08.224"N	104°47'29.882"W	0.00	
17616.00†	90.000	0.077	7702.00	9470.74	9036.46	2841.16	39°58'09.212"N	104°47'29.880"W	0.00	
17716.00†	90.000	0.077	7702.00	9566.75	9136.46	2841.29	39°58'10.201"N	104°47'29.879"W	0.00	
17816.00†	90.000	0.077	7702.00	9662.75	9236.46	2841.42	39°58'11.189"N	104°47'29.877"W	0.00	
17916.00†	90.000	0.077	7702.00	9758.76	9336.46	2841.56	39°58'12.177"N	104°47'29.875"W	0.00	
18016.00†	90.000	0.077	7702.00	9854.77	9436.46	2841.69	39°58'13.165"N	104°47'29.873"W	0.00	
18116.00†	90.000	0.077	7702.00	9950.77	9536.46	2841.83	39°58'14.154"N	104°47'29.871"W	0.00	
18216.00†	90.000	0.077	7702.00	10046.78	9636.46	2841.96	39°58'15.142"N	104°47'29.869"W	0.00	
18284.22	90.000	0.077	7702.00 ²	10112.27	9704.68	2842.05	39°58'15.816"N	104°47'29.868"W	0.00	End of Tangent (J)

HOLE & CASING SECTIONS

- Ref Wellbore: BRIGHTON LAKES 20-17-2CDH PWB Ref 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	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	18285.00	17403.00	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	-103.74	3195665.30	1223370.47	39°56'39.912"N	104°48'07.704"W	polygon
SEC.20-T1S-R66W		0.00	0.00	-103.74	3195665.30	1223370.47	39°56'39.912"N	104°48'07.704"W	polygon
2) BRIGHTON LAKES 20-17-2CDH BHL (CODELL, 460'FNL& 499'FEL, SEC.17, REV-1)	18284.22	7702.00	9704.68	2842.05	3198534.50	1233097.75	39°58'15.816"N	104°47'29.868"W	point
1) BRIGHTON LAKES 20-17-2CDH LP (CODELL, 460'FSL& 499'FEL, SEC.20, REV-1)	8641.62	7702.00	62.09	2829.13	3198597.51	1223455.65	39°56'40.524"N	104°47'30.048"W	point



Planned Wellpath Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Page 7 of 8



REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

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



Planned Wellpath Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Page 8 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
882.00	0.000	101.174	882.00	Fox Hills
5172.27	24.550	101.174	4842.00	Sussex / Shannon
7838.33	25.901	67.458	7267.00	Niobrara A Chalk
7894.47	28.329	56.327	7317.00	Niobrara A Marl
8037.09	37.454	35.889	7437.00	Niobrara B Chalk
8109.13	43.017	28.787	7492.00	Niobrara B Marl
8166.04	47.670	24.175	7532.00	Niobrara C Chalk
8238.76	53.841	19.198	7578.00	Niobrara C Marl
8463.72	73.811	7.554	7677.00	Fort Hays
8641.48	89.988	0.082	7702.00	Codell
13462.92	90.000	0.077	7702.00	Codell

~VERSION INFORMATION

VERS. 2.0 : CWLS LOG ASCII STANDARD-VERSION 2.0

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

~WELL INFORMATION

#MNE	UNITS	DATA	DESCRIPTION
STRT	.ft	0.00	:START MD
STOP	.ft	18284.22	:STOP MD
STEP	.ft	0.0	:STEP (non-uniform increment)
NULL	.	-999.99	:NULL
COMP	.	PETROSHARE	:OPERATOR
WELL	.	BRIGHTON LAKES 20-17-2CDH	:WELL
FLD	.	ADAMS COUNTY (NAD83/ TRUE NORTH)	:FIELD
LOC	.	COLORADO	:AREA (aka: Location)
CNTY	.	N/A	:COUNTY
STAT	.	N/A	:STATE
CTRY	.	N/A	:COUNTRY
SRVC	.	Baker Hughes	:CONTRACTOR
DATE	.	02/21/2017	:LOG REV DATE
API	.		:API NUMBER

~OTHER INFORMATION

#Software: wellArchitect(R) Version 5.0

#MNE	UNITS	DATA	DESCRIPTION
WPTYPE	.	PLANNED WELLPATH	:WELLPATH TYPE
FACILITY	.	SEC.20-T01S-R66W	:FACILITY
SLOT	.	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)	:SLOT
WELLBORE	.	BRIGHTON LAKES 20-17-2CDH PWB	:WELLBORE
WELLPATH	.	BRIGHTON LAKES 20-17-2CDH (CODELL, 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	16.32	:VERTICAL SECTION AZIMUTH
VSORIGIN	.ft	0.00	:VERTICAL SECTION ORIGIN NORTH
VSORIGE	.ft	0.00	:VERTICAL SECTION ORIGIN EAST

~CURVE (WELLPATH) INFORMATION

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

PETROSHARE_BRIGHTON_LAKES_20-17-2CDH__CODELL__REV-A.0__PWP_02-22-17.1as

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

~ASCII DATA

0.00	0.00	101.17	0.00	0.00	0.00	0.00	39.9444200	-104.8017700	0.00
16.00	0.00	101.17	16.00	0.00	0.00	0.00	39.9444200	-104.8017700	0.00
116.00	0.00	101.17	116.00	0.00	0.00	0.00	39.9444200	-104.8017700	0.00
216.00	0.00	101.17	216.00	0.00	0.00	0.00	39.9444200	-104.8017700	0.00
316.00	0.00	101.17	316.00	0.00	0.00	0.00	39.9444200	-104.8017700	0.00
416.00	0.00	101.17	416.00	0.00	0.00	0.00	39.9444200	-104.8017700	0.00
516.00	0.00	101.17	516.00	0.00	0.00	0.00	39.9444200	-104.8017700	0.00
616.00	0.00	101.17	616.00	0.00	0.00	0.00	39.9444200	-104.8017700	0.00
716.00	0.00	101.17	716.00	0.00	0.00	0.00	39.9444200	-104.8017700	0.00
816.00	0.00	101.17	816.00	0.00	0.00	0.00	39.9444200	-104.8017700	0.00
916.00	0.00	101.17	916.00	0.00	0.00	0.00	39.9444200	-104.8017700	0.00
975.00	0.00	101.17	975.00	0.00	0.00	0.00	39.9444200	-104.8017700	0.00
1016.00	1.23	101.17	1016.00	0.04	-0.09	0.43	39.9444198	-104.8017685	3.00
1116.00	4.23	101.17	1115.87	0.47	-1.01	5.10	39.9444172	-104.8017518	3.00
1216.00	7.23	101.17	1215.36	1.36	-2.94	14.90	39.9444119	-104.8017169	3.00
1316.00	10.23	101.17	1314.19	2.72	-5.88	29.79	39.9444038	-104.8016638	3.00
1416.00	13.23	101.17	1412.09	4.55	-9.82	49.73	39.9443930	-104.8015926	3.00
1516.00	16.23	101.17	1508.79	6.83	-14.75	74.67	39.9443795	-104.8015037	3.00
1616.00	19.23	101.17	1604.03	9.56	-20.65	104.54	39.9443633	-104.8013972	3.00
1716.00	22.23	101.17	1697.55	12.74	-27.51	139.26	39.9443445	-104.8012733	3.00
1793.33	24.55	101.17	1768.52	15.50	-33.46	169.38	39.9443282	-104.8011659	3.00
1816.00	24.55	101.17	1789.14	16.34	-35.28	178.62	39.9443231	-104.8011330	0.00
1916.00	24.55	101.17	1880.10	20.07	-43.33	219.38	39.9443010	-104.8009876	0.00
2016.00	24.55	101.17	1971.06	23.80	-51.39	260.14	39.9442789	-104.8008422	0.00
2116.00	24.55	101.17	2062.02	27.53	-59.44	300.90	39.9442568	-104.8006968	0.00
2216.00	24.55	101.17	2152.98	31.26	-67.49	341.66	39.9442347	-104.8005515	0.00
2316.00	24.55	101.17	2243.94	34.98	-75.54	382.43	39.9442126	-104.8004061	0.00
2416.00	24.55	101.17	2334.90	38.71	-83.59	423.19	39.9441905	-104.8002607	0.00
2516.00	24.55	101.17	2425.86	42.44	-91.64	463.95	39.9441684	-104.8001154	0.00
2616.00	24.55	101.17	2516.82	46.17	-99.70	504.71	39.9441463	-104.7999700	0.00
2716.00	24.55	101.17	2607.78	49.90	-107.75	545.47	39.9441242	-104.7998246	0.00
2816.00	24.55	101.17	2698.74	53.63	-115.80	586.23	39.9441021	-104.7996792	0.00
2916.00	24.55	101.17	2789.70	57.36	-123.85	626.99	39.9440800	-104.7995339	0.00
3016.00	24.55	101.17	2880.66	61.09	-131.90	667.75	39.9440579	-104.7993885	0.00
3116.00	24.55	101.17	2971.62	64.82	-139.95	708.51	39.9440358	-104.7992431	0.00
3216.00	24.55	101.17	3062.58	68.54	-148.00	749.28	39.9440137	-104.7990978	0.00
3316.00	24.55	101.17	3153.54	72.27	-156.06	790.04	39.9439916	-104.7989524	0.00
3416.00	24.55	101.17	3244.50	76.00	-164.11	830.80	39.9439695	-104.7988070	0.00
3516.00	24.55	101.17	3335.46	79.73	-172.16	871.56	39.9439474	-104.7986616	0.00
3616.00	24.55	101.17	3426.42	83.46	-180.21	912.32	39.9439253	-104.7985163	0.00
3716.00	24.55	101.17	3517.38	87.19	-188.26	953.08	39.9439031	-104.7983709	0.00
3816.00	24.55	101.17	3608.34	90.92	-196.31	993.84	39.9438810	-104.7982255	0.00
3916.00	24.55	101.17	3699.30	94.65	-204.37	1034.60	39.9438589	-104.7980802	0.00

PETROSHARE_BRIGHTON_LAKES_20-17-2CDH__CODELL__REV-A.0__PWP_02-22-17.1as									
4016.00	24.55	101.17	3790.26	98.38	-212.42	1075.36	39.9438368	-104.7979348	0.00
4116.00	24.55	101.17	3881.22	102.10	-220.47	1116.13	39.9438147	-104.7977894	0.00
4216.00	24.55	101.17	3972.18	105.83	-228.52	1156.89	39.9437926	-104.7976441	0.00
4316.00	24.55	101.17	4063.14	109.56	-236.57	1197.65	39.9437705	-104.7974987	0.00
4416.00	24.55	101.17	4154.10	113.29	-244.62	1238.41	39.9437484	-104.7973533	0.00
4516.00	24.55	101.17	4245.06	117.02	-252.67	1279.17	39.9437263	-104.7972079	0.00
4616.00	24.55	101.17	4336.02	120.75	-260.73	1319.93	39.9437042	-104.7970626	0.00
4716.00	24.55	101.17	4426.98	124.48	-268.78	1360.69	39.9436821	-104.7969172	0.00
4816.00	24.55	101.17	4517.94	128.21	-276.83	1401.45	39.9436600	-104.7967718	0.00
4916.00	24.55	101.17	4608.90	131.94	-284.88	1442.21	39.9436379	-104.7966265	0.00
5016.00	24.55	101.17	4699.86	135.66	-292.93	1482.98	39.9436157	-104.7964811	0.00
5116.00	24.55	101.17	4790.82	139.39	-300.98	1523.74	39.9435936	-104.7963357	0.00
5216.00	24.55	101.17	4881.78	143.12	-309.04	1564.50	39.9435715	-104.7961904	0.00
5316.00	24.55	101.17	4972.74	146.85	-317.09	1605.26	39.9435494	-104.7960450	0.00
5416.00	24.55	101.17	5063.70	150.58	-325.14	1646.02	39.9435273	-104.7958996	0.00
5516.00	24.55	101.17	5154.66	154.31	-333.19	1686.78	39.9435052	-104.7957543	0.00
5616.00	24.55	101.17	5245.62	158.04	-341.24	1727.54	39.9434831	-104.7956089	0.00
5716.00	24.55	101.17	5336.58	161.77	-349.29	1768.30	39.9434610	-104.7954635	0.00
5816.00	24.55	101.17	5427.54	165.50	-357.35	1809.06	39.9434389	-104.7953181	0.00
5916.00	24.55	101.17	5518.50	169.22	-365.40	1849.83	39.9434168	-104.7951728	0.00
6016.00	24.55	101.17	5609.46	172.95	-373.45	1890.59	39.9433946	-104.7950274	0.00
6116.00	24.55	101.17	5700.42	176.68	-381.50	1931.35	39.9433725	-104.7948820	0.00
6216.00	24.55	101.17	5791.38	180.41	-389.55	1972.11	39.9433504	-104.7947367	0.00
6316.00	24.55	101.17	5882.33	184.14	-397.60	2012.87	39.9433283	-104.7945913	0.00
6416.00	24.55	101.17	5973.29	187.87	-405.65	2053.63	39.9433062	-104.7944459	0.00
6516.00	24.55	101.17	6064.25	191.60	-413.71	2094.39	39.9432841	-104.7943006	0.00
6616.00	24.55	101.17	6155.21	195.33	-421.76	2135.15	39.9432620	-104.7941552	0.00
6716.00	24.55	101.17	6246.17	199.06	-429.81	2175.91	39.9432399	-104.7940098	0.00
6816.00	24.55	101.17	6337.13	202.78	-437.86	2216.68	39.9432178	-104.7938645	0.00
6916.00	24.55	101.17	6428.09	206.51	-445.91	2257.44	39.9431956	-104.7937191	0.00
7016.00	24.55	101.17	6519.05	210.24	-453.96	2298.20	39.9431735	-104.7935737	0.00
7116.00	24.55	101.17	6610.01	213.97	-462.02	2338.96	39.9431514	-104.7934284	0.00
7216.00	24.55	101.17	6700.97	217.70	-470.07	2379.72	39.9431293	-104.7932830	0.00
7316.00	24.55	101.17	6791.93	221.43	-478.12	2420.48	39.9431072	-104.7931376	0.00
7416.00	24.55	101.17	6882.89	225.16	-486.17	2461.24	39.9430851	-104.7929923	0.00
7516.00	24.55	101.17	6973.85	228.89	-494.22	2502.00	39.9430630	-104.7928469	0.00
7616.00	24.55	101.17	7064.81	232.62	-502.27	2542.77	39.9430408	-104.7927015	0.00
7695.75	24.55	101.17	7137.35	235.59	-508.69	2575.27	39.9430232	-104.7925856	0.00
7716.00	24.27	96.32	7155.80	236.69	-509.97	2583.54	39.9430197	-104.7925561	10.00
7816.00	25.20	72.37	7246.85	252.19	-505.77	2624.36	39.9430312	-104.7924105	10.00
7916.00	29.47	52.55	7335.85	284.00	-484.32	2664.28	39.9430901	-104.7922682	10.00
8016.00	35.92	38.31	7420.08	331.16	-446.25	2702.09	39.9431946	-104.7921333	10.00
8116.00	43.57	28.19	7497.00	392.24	-392.72	2736.64	39.9433415	-104.7920101	10.00
8216.00	51.89	20.66	7564.26	465.38	-325.37	2766.87	39.9435264	-104.7919022	10.00
8316.00	60.59	14.72	7619.82	548.35	-246.23	2791.88	39.9437436	-104.7918130	10.00
8416.00	69.51	9.72	7661.99	638.64	-157.72	2810.90	39.9439866	-104.7917451	10.00
8516.00	78.55	5.28	7689.48	733.51	-62.52	2823.36	39.9442479	-104.7917007	10.00
8616.00	87.66	1.13	7701.48	830.06	36.48	2828.87	39.9445197	-104.7916810	10.00

PETROSHARE_BRIGHTON_LAKES_20-17-2CDH__CODELL__REV-A.0__PWP_02-22-17.1as

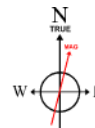
8641.62	90.00	0.08	7702.00	854.71	62.09	2829.13	39.9445900	-104.7916800	10.00
8716.00	90.00	0.08	7702.00	926.13	136.47	2829.23	39.9447942	-104.7916796	0.00
8816.00	90.00	0.08	7702.00	1022.13	236.47	2829.37	39.9450687	-104.7916791	0.00
8916.00	90.00	0.08	7702.00	1118.14	336.47	2829.50	39.9453432	-104.7916786	0.00
9016.00	90.00	0.08	7702.00	1214.15	436.47	2829.64	39.9456177	-104.7916781	0.00
9116.00	90.00	0.08	7702.00	1310.15	536.47	2829.77	39.9458922	-104.7916775	0.00
9216.00	90.00	0.08	7702.00	1406.16	636.47	2829.90	39.9461667	-104.7916770	0.00
9316.00	90.00	0.08	7702.00	1502.17	736.47	2830.04	39.9464413	-104.7916765	0.00
9416.00	90.00	0.08	7702.00	1598.17	836.47	2830.17	39.9467158	-104.7916760	0.00
9516.00	90.00	0.08	7702.00	1694.18	936.47	2830.31	39.9469903	-104.7916755	0.00
9616.00	90.00	0.08	7702.00	1790.19	1036.47	2830.44	39.9472648	-104.7916749	0.00
9716.00	90.00	0.08	7702.00	1886.20	1136.47	2830.57	39.9475393	-104.7916744	0.00
9816.00	90.00	0.08	7702.00	1982.20	1236.47	2830.71	39.9478138	-104.7916739	0.00
9916.00	90.00	0.08	7702.00	2078.21	1336.47	2830.84	39.9480883	-104.7916734	0.00
10016.00	90.00	0.08	7702.00	2174.22	1436.47	2830.98	39.9483628	-104.7916729	0.00
10116.00	90.00	0.08	7702.00	2270.22	1536.47	2831.11	39.9486373	-104.7916724	0.00
10216.00	90.00	0.08	7702.00	2366.23	1636.47	2831.24	39.9489119	-104.7916718	0.00
10316.00	90.00	0.08	7702.00	2462.24	1736.47	2831.38	39.9491864	-104.7916713	0.00
10416.00	90.00	0.08	7702.00	2558.24	1836.47	2831.51	39.9494609	-104.7916708	0.00
10516.00	90.00	0.08	7702.00	2654.25	1936.47	2831.64	39.9497354	-104.7916703	0.00
10616.00	90.00	0.08	7702.00	2750.26	2036.47	2831.78	39.9500099	-104.7916698	0.00
10716.00	90.00	0.08	7702.00	2846.26	2136.47	2831.91	39.9502844	-104.7916692	0.00
10816.00	90.00	0.08	7702.00	2942.27	2236.47	2832.05	39.9505589	-104.7916687	0.00
10916.00	90.00	0.08	7702.00	3038.28	2336.47	2832.18	39.9508334	-104.7916682	0.00
11016.00	90.00	0.08	7702.00	3134.28	2436.47	2832.31	39.9511079	-104.7916677	0.00
11116.00	90.00	0.08	7702.00	3230.29	2536.47	2832.45	39.9513825	-104.7916672	0.00
11216.00	90.00	0.08	7702.00	3326.30	2636.47	2832.58	39.9516570	-104.7916667	0.00
11316.00	90.00	0.08	7702.00	3422.31	2736.47	2832.72	39.9519315	-104.7916661	0.00
11416.00	90.00	0.08	7702.00	3518.31	2836.47	2832.85	39.9522060	-104.7916656	0.00
11516.00	90.00	0.08	7702.00	3614.32	2936.47	2832.98	39.9524805	-104.7916651	0.00
11616.00	90.00	0.08	7702.00	3710.33	3036.47	2833.12	39.9527550	-104.7916646	0.00
11716.00	90.00	0.08	7702.00	3806.33	3136.47	2833.25	39.9530295	-104.7916641	0.00
11816.00	90.00	0.08	7702.00	3902.34	3236.47	2833.39	39.9533040	-104.7916635	0.00
11916.00	90.00	0.08	7702.00	3998.35	3336.47	2833.52	39.9535785	-104.7916630	0.00
12016.00	90.00	0.08	7702.00	4094.35	3436.47	2833.65	39.9538531	-104.7916625	0.00
12116.00	90.00	0.08	7702.00	4190.36	3536.47	2833.79	39.9541276	-104.7916620	0.00
12216.00	90.00	0.08	7702.00	4286.37	3636.47	2833.92	39.9544021	-104.7916615	0.00
12316.00	90.00	0.08	7702.00	4382.37	3736.47	2834.06	39.9546766	-104.7916610	0.00
12416.00	90.00	0.08	7702.00	4478.38	3836.47	2834.19	39.9549511	-104.7916604	0.00
12516.00	90.00	0.08	7702.00	4574.39	3936.47	2834.32	39.9552256	-104.7916599	0.00
12616.00	90.00	0.08	7702.00	4670.40	4036.47	2834.46	39.9555001	-104.7916594	0.00
12716.00	90.00	0.08	7702.00	4766.40	4136.47	2834.59	39.9557746	-104.7916589	0.00
12816.00	90.00	0.08	7702.00	4862.41	4236.47	2834.73	39.9560491	-104.7916584	0.00
12916.00	90.00	0.08	7702.00	4958.42	4336.47	2834.86	39.9563237	-104.7916578	0.00
13016.00	90.00	0.08	7702.00	5054.42	4436.47	2834.99	39.9565982	-104.7916573	0.00
13116.00	90.00	0.08	7702.00	5150.43	4536.47	2835.13	39.9568727	-104.7916568	0.00
13216.00	90.00	0.08	7702.00	5246.44	4636.47	2835.26	39.9571472	-104.7916563	0.00
13316.00	90.00	0.08	7702.00	5342.44	4736.47	2835.40	39.9574217	-104.7916558	0.00

PETROSHARE_BRIGHTON_LAKES_20-17-2CDH__CODELL__REV-A.0__PWP_02-22-17.1as									
13416.00	90.00	0.08	7702.00	5438.45	4836.47	2835.53	39.9576962	-104.7916552	0.00
13516.00	90.00	0.08	7702.00	5534.46	4936.47	2835.66	39.9579707	-104.7916547	0.00
13616.00	90.00	0.08	7702.00	5630.46	5036.47	2835.80	39.9582452	-104.7916542	0.00
13716.00	90.00	0.08	7702.00	5726.47	5136.47	2835.93	39.9585197	-104.7916537	0.00
13816.00	90.00	0.08	7702.00	5822.48	5236.47	2836.07	39.9587943	-104.7916532	0.00
13916.00	90.00	0.08	7702.00	5918.48	5336.47	2836.20	39.9590688	-104.7916527	0.00
14016.00	90.00	0.08	7702.00	6014.49	5436.47	2836.33	39.9593433	-104.7916521	0.00
14116.00	90.00	0.08	7702.00	6110.50	5536.47	2836.47	39.9596178	-104.7916516	0.00
14216.00	90.00	0.08	7702.00	6206.51	5636.47	2836.60	39.9598923	-104.7916511	0.00
14316.00	90.00	0.08	7702.00	6302.51	5736.47	2836.74	39.9601668	-104.7916506	0.00
14416.00	90.00	0.08	7702.00	6398.52	5836.47	2836.87	39.9604413	-104.7916501	0.00
14516.00	90.00	0.08	7702.00	6494.53	5936.47	2837.00	39.9607158	-104.7916495	0.00
14616.00	90.00	0.08	7702.00	6590.53	6036.47	2837.14	39.9609903	-104.7916490	0.00
14716.00	90.00	0.08	7702.00	6686.54	6136.47	2837.27	39.9612649	-104.7916485	0.00
14816.00	90.00	0.08	7702.00	6782.55	6236.47	2837.40	39.9615394	-104.7916480	0.00
14916.00	90.00	0.08	7702.00	6878.55	6336.47	2837.54	39.9618139	-104.7916475	0.00
15016.00	90.00	0.08	7702.00	6974.56	6436.47	2837.67	39.9620884	-104.7916470	0.00
15116.00	90.00	0.08	7702.00	7070.57	6536.47	2837.81	39.9623629	-104.7916464	0.00
15216.00	90.00	0.08	7702.00	7166.57	6636.47	2837.94	39.9626374	-104.7916459	0.00
15316.00	90.00	0.08	7702.00	7262.58	6736.47	2838.07	39.9629119	-104.7916454	0.00
15416.00	90.00	0.08	7702.00	7358.59	6836.47	2838.21	39.9631864	-104.7916449	0.00
15516.00	90.00	0.08	7702.00	7454.59	6936.47	2838.34	39.9634609	-104.7916444	0.00
15616.00	90.00	0.08	7702.00	7550.60	7036.47	2838.48	39.9637355	-104.7916438	0.00
15716.00	90.00	0.08	7702.00	7646.61	7136.47	2838.61	39.9640100	-104.7916433	0.00
15816.00	90.00	0.08	7702.00	7742.62	7236.47	2838.74	39.9642845	-104.7916428	0.00
15916.00	90.00	0.08	7702.00	7838.62	7336.47	2838.88	39.9645590	-104.7916423	0.00
16016.00	90.00	0.08	7702.00	7934.63	7436.47	2839.01	39.9648335	-104.7916418	0.00
16116.00	90.00	0.08	7702.00	8030.64	7536.47	2839.15	39.9651080	-104.7916412	0.00
16216.00	90.00	0.08	7702.00	8126.64	7636.47	2839.28	39.9653825	-104.7916407	0.00
16316.00	90.00	0.08	7702.00	8222.65	7736.47	2839.41	39.9656570	-104.7916402	0.00
16416.00	90.00	0.08	7702.00	8318.66	7836.47	2839.55	39.9659315	-104.7916397	0.00
16516.00	90.00	0.08	7702.00	8414.66	7936.47	2839.68	39.9662061	-104.7916392	0.00
16616.00	90.00	0.08	7702.00	8510.67	8036.47	2839.82	39.9664806	-104.7916387	0.00
16716.00	90.00	0.08	7702.00	8606.68	8136.47	2839.95	39.9667551	-104.7916381	0.00
16816.00	90.00	0.08	7702.00	8702.68	8236.47	2840.08	39.9670296	-104.7916376	0.00
16916.00	90.00	0.08	7702.00	8798.69	8336.47	2840.22	39.9673041	-104.7916371	0.00
17016.00	90.00	0.08	7702.00	8894.70	8436.46	2840.35	39.9675786	-104.7916366	0.00
17116.00	90.00	0.08	7702.00	8990.71	8536.46	2840.49	39.9678531	-104.7916361	0.00
17216.00	90.00	0.08	7702.00	9086.71	8636.46	2840.62	39.9681276	-104.7916355	0.00
17316.00	90.00	0.08	7702.00	9182.72	8736.46	2840.75	39.9684021	-104.7916350	0.00
17416.00	90.00	0.08	7702.00	9278.73	8836.46	2840.89	39.9686766	-104.7916345	0.00
17516.00	90.00	0.08	7702.00	9374.73	8936.46	2841.02	39.9689512	-104.7916340	0.00
17616.00	90.00	0.08	7702.00	9470.74	9036.46	2841.16	39.9692257	-104.7916335	0.00
17716.00	90.00	0.08	7702.00	9566.75	9136.46	2841.29	39.9695002	-104.7916329	0.00
17816.00	90.00	0.08	7702.00	9662.75	9236.46	2841.42	39.9697747	-104.7916324	0.00
17916.00	90.00	0.08	7702.00	9758.76	9336.46	2841.56	39.9700492	-104.7916319	0.00
18016.00	90.00	0.08	7702.00	9854.77	9436.46	2841.69	39.9703237	-104.7916314	0.00
18116.00	90.00	0.08	7702.00	9950.77	9536.46	2841.83	39.9705982	-104.7916309	0.00

			PETROSHARE_BRIGHTON_LAKES_20-17-2CDH__CODELL__REV-A.0__PWP_02-22-17.las							
18216.00	90.00	0.08	7702.00	10046.78	9636.46	2841.96	39.9708727	-104.7916304	0.00	
18284.22	90.00	0.08	7702.00	10112.27	9704.68	2842.05	39.9710600	-104.7916300	0.00	

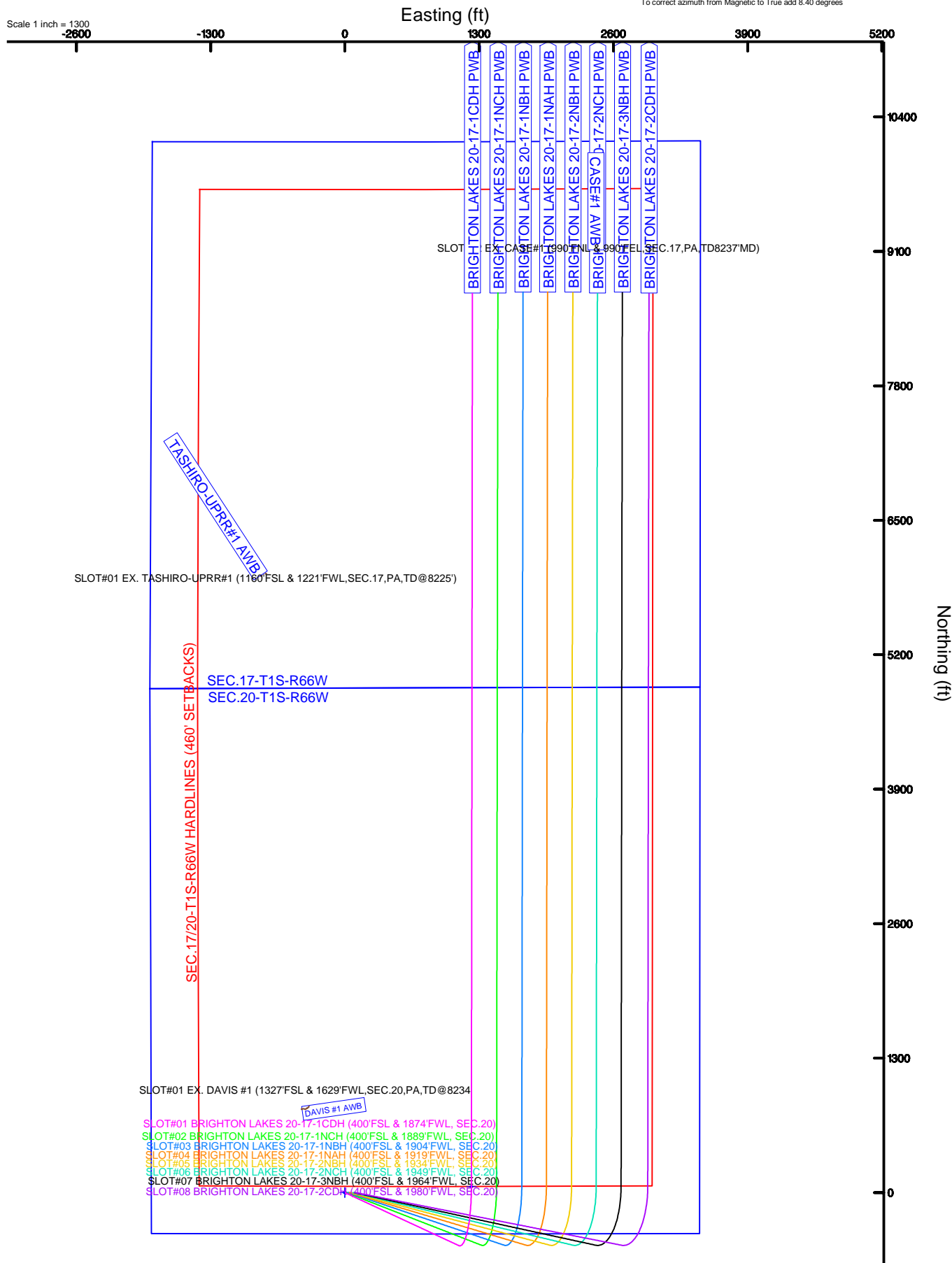
PETROSHARE

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

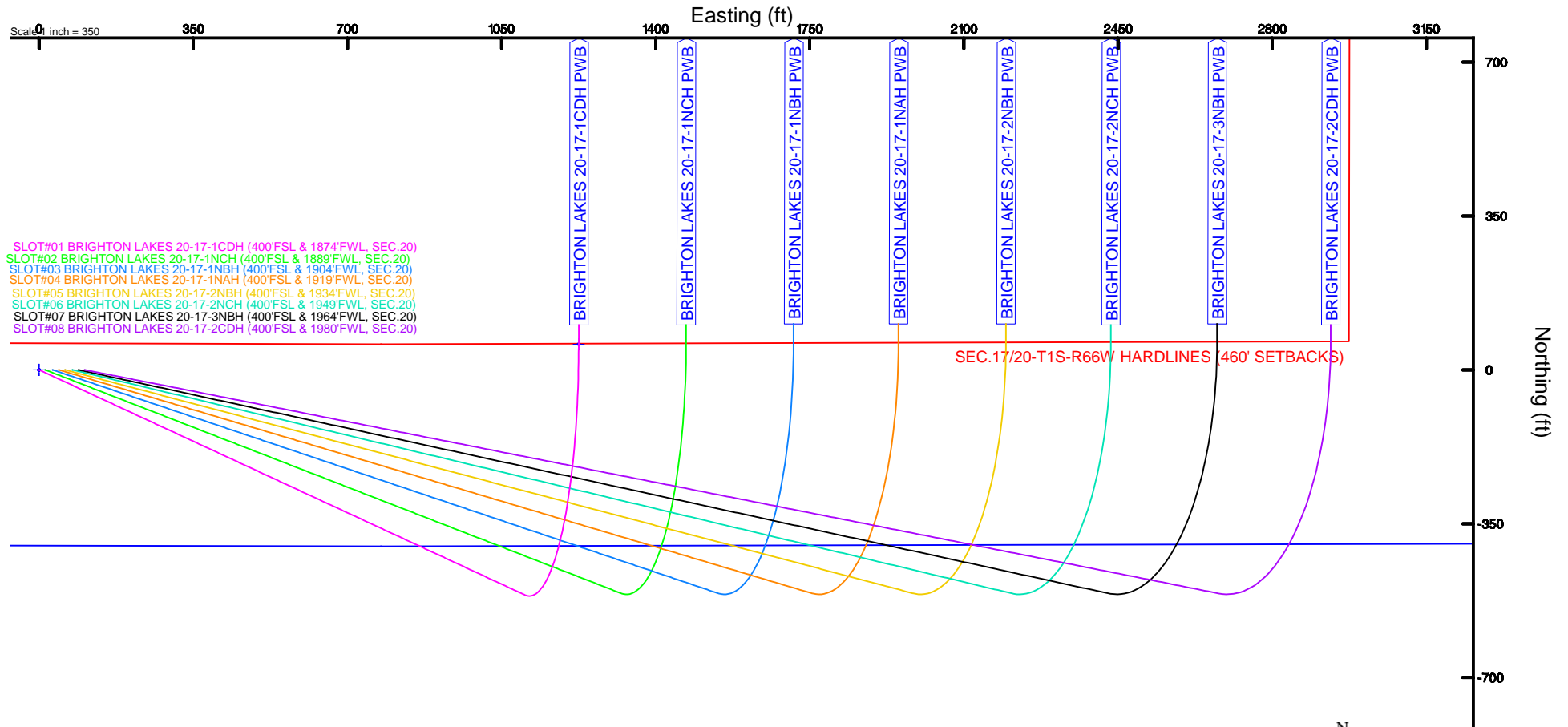


PETROSHARE

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 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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 11:17:46 AM
Convergence at slot	0.46° East	Database/Source file	WA_Denver/BRIGHTON_LAKES_20-17-2CDH_CODELL_REV-A.0_PWP_CR.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	103.74	3195769.04	1223371.29	39°56'39.912"N	104°48'06.372"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#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'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 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

HOLE & CASING SECTIONS - Ref Wellbore: BRIGHTON LAKES 20-17-2CDH PWB Ref 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	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	18285.00	17403.00	882.00	N/A	0.00	0.00	N/A	N/A

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

CALCULATION RANGE & CUTOFF

From: 16.00ft MD	To: 18284.22ft 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#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	14.02	18283.84	18283.84	0.84	18283.84	FAIL
SEC.20-T01S-R66W	SLOT#06 BRIGHTON LAKES 20-17-2NCH (400'FSL & 1949'FWL, SEC.20)	BRIGHTON LAKES 20-17-2NCH	BRIGHTON LAKES 20-17-2NCH PWB	BRIGHTON LAKES 20-17-2NCH (REV-A.0, NIO C CK)	16.00	28.04	18279.84	18279.84	0.89	18279.84	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	18279.49	18279.49	1.33	18279.49	PASS
SEC.17-T01S-R66W	SLOT#02 EX. CASE#1 (990'FNL & 990'FEL SEC.17,PA,TD8237MD)	CASE#1	CASE#1 AWB	CASE#1 AWP	17691.00	514.72	17691.00	17638.80	1.55	17638.80	PASS
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	58.88	18279.13	18279.13	1.86	18279.13	PASS
SEC.20-T01S-R66W	SLOT#03 BRIGHTON LAKES 20-17-1NBH (400'FSL & 1904'FWL, SEC.20)	BRIGHTON LAKES 20-17-1NBH	BRIGHTON LAKES 20-17-1NBH PWB	BRIGHTON LAKES 20-17-1NBH (NIO B CK, REV-A.0) PWP	16.00	72.90	18278.77	18278.77	2.04	18278.77	PASS
SEC.20-T01S-R66W	SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20)	BRIGHTON LAKES 20-17-1NCH	BRIGHTON LAKES 20-17-1NCH PWB	BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP	16.00	89.72	18274.76	18274.76	2.36	18274.76	PASS
SEC.20-T01S-R66W	SLOT#01 BRIGHTON LAKES 20-17-1CDH (400'FSL & 1874'FWL, SEC.20)	BRIGHTON LAKES 20-17-1CDH	BRIGHTON LAKES 20-17-1CDH PWB	BRIGHTON LAKES 20-17-1CDH (REV-A.0,CODELL) PWP	16.00	103.74	975.00	18274.88	2.72	18274.88	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	14541.00	3756.59	14541.00	14916.00	16.03	14916.00	PASS
SEC.20-T01S-R66W	SLOT#01 EX. DAVIS #1 (1327'FSL & 1629'FWL,SEC.20,PA,TD@8234	DAVIS #1	DAVIS #1 AWB	DAVIS #1 AWP	981.18	941.72	9416.00	1001.98	18.99	10516.00	PASS



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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 MSD [ft]	Sep Ratio	ACR Status											
16.00	16.00	0.00	0.00	16.00	16.00	0.00	-14.02	-90.00	14.02	1.56	21.76	PASS											
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	-14.02	-90.00	14.02	1.89	14.02	PASS											
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-14.02	-90.00	14.02	2.47	8.66	PASS											
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-14.02	-90.00	14.02	3.08	6.17	PASS											
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	-14.02	-90.00	14.02	3.69	4.78	PASS											
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	-14.02	-90.00	14.02	4.32	3.89	PASS											
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	-14.02	-90.00	14.02	4.94	3.28	PASS											
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	-14.02	-90.00	14.02	5.56	2.84	PASS											
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	-14.02	-90.00	14.02	6.19	2.50	PASS											
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	-14.02	-90.00	14.02	6.26	2.40	PASS											
975.00	975.00	0.00	0.00	975.00	975.00	0.00	-14.02	-90.00	14.02	6.33	2.37	PASS											
1016.00†	1016.00	-0.09	0.43	1016.00	1016.00	0.00	-14.02	169.16	14.45	6.41	2.41	PASS											
1116.00†	1115.87	-1.01	5.10	1116.71	1116.67	-0.47	-11.87	170.66	17.00	7.27	2.48	PASS											
1216.00†	1215.36	-2.94	14.90	1217.63	1217.30	-2.06	-4.54	171.46	19.55	9.32	2.19	PASS											
1316.00†	1314.19	-5.88	29.79	1318.68	1317.53	-4.79	8.00	171.80	22.07	11.19	2.04	PASS											
1416.00†	1412.09	-9.82	49.73	1419.87	1417.06	-8.64	25.73	171.81	24.54	12.87	1.96	PASS											
1516.00†	1508.79	-14.75	74.67	1521.19	1515.63	-13.62	48.61	171.59	26.96	14.43	1.91	PASS											
1616.00†	1604.03	-20.65	104.54	1622.64	1612.93	-19.71	76.61	171.19	29.33	15.90	1.88	PASS											
1716.00†	1697.55	-27.51	139.26	1724.21	1708.69	-26.90	109.66	170.66	31.64	17.34	1.86	PASS											
1793.33	1768.52	-33.46	169.38	1802.83	1781.51	-33.20	138.63	170.16	33.38	18.38	1.85	PASS											
1816.00†	1789.14	-35.28	178.62	1825.77	1802.52	-35.15	147.62	169.97	33.76	18.63	1.84	PASS											
1916.00†	1880.10	-43.33	219.38	1925.76	1894.00	-43.73	187.06	169.11	35.19	19.49	1.84	PASS											
2016.00†	1971.06	-51.39	260.14	2025.75	1985.48	-52.30	226.50	168.31	36.61	20.42	1.82	PASS											
2116.00†	2062.02	-59.44	300.90	2125.73	2076.96	-60.88	265.94	167.57	38.05	21.48	1.80	PASS											
2216.00†	2152.98	-67.49	341.66	2225.72	2168.44	-69.46	305.38	166.88	39.49	22.63	1.77	PASS											
2316.00†	2243.94	-75.54	382.43	2325.71	2259.92	-78.03	344.82	166.24	40.94	23.86	1.74	PASS											
2416.00†	2334.90	-83.59	423.19	2425.70	2351.40	-86.61	384.26	165.65	42.39	25.17	1.70	PASS											
2516.00†	2425.86	-91.64	463.95	2525.69	2442.88	-95.19	423.70	165.09	43.85	26.55	1.67	PASS											
2616.00†	2516.82	-99.70	504.71	2625.68	2534.36	-103.77	463.14	164.57	45.30	27.99	1.63	PASS											
2716.00†	2607.78	-107.75	545.47	2725.67	2625.84	-112.34	502.58	164.09	46.77	29.49	1.60	PASS											
2816.00†	2698.74	-115.80	586.23	2825.65	2717.32	-120.92	542.02	163.63	48.23	31.03	1.57	PASS											
2916.00†	2789.70	-123.85	626.99	2925.64	2808.80	-129.50	581.46	163.20	49.70	32.61	1.54	PASS											
3016.00†	2880.66	-131.90	667.75	3025.63	2900.28	-138.07	620.90	162.80	51.17	34.24	1.51	PASS											
3116.00†	2971.62	-139.95	708.51	3125.62	2991.76	-146.65	660.34	162.41	52.65	35.90	1.48	PASS											
3216.00†	3062.58	-148.00	749.28	3225.61	3083.24	-155.23	699.77	162.05	54.12	37.59	1.45	PASS											
3316.00†	3153.54	-156.06	790.04	3325.60	3174.72	-163.80	739.21	161.71	55.60	39.31	1.42	PASS											
3416.00†	3244.50	-164.11	830.80	3425.59	3266.20	-172.38	778.65	161.38	57.08	41.06	1.40	PASS											
3516.00†	3335.46	-172.16	871.56	3525.57	3357.68	-180.96	818.09	161.08	58.56	42.83	1.37	PASS											
3616.00†	3426.42	-180.21	912.32	3625.56	3449.16	-189.53	857.53	160.78	60.05	44.63	1.35	PASS											
3716.00†	3517.38	-188.26	953.08	3725.55	3540.64	-198.11	896.97	160.50	61.53	46.44	1.33	PASS											
3816.00†	3608.34	-196.31	993.84	3825.54	3632.12	-206.69	936.41	160.24	63.02	48.27	1.31	PASS											
3916.00†	3699.30	-204.37	1034.60	3925.53	3723.60	-215.26	975.85	159.99	64.51	50.12	1.29	PASS											
4016.00†	3790.26	-212.42	1075.36	4025.52	3815.09	-223.84	1015.29	159.74	66.00	51.98	1.27	PASS											
4116.00†	3881.22	-220.47	1116.13	4125.50	3906.57	-232.42	1054.73	159.51	67.49	53.86	1.26	PASS											
4216.00†	3972.18	-228.52	1156.89	4225.49	3998.05	-240.99	1094.17	159.29	68.98	55.75	1.24	PASS											

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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†	4063.14	-236.57	1197.65	4325.48	4089.53	-249.57	1133.61	159.08	70.47	57.65	1.23	PASS	
4416.00†	4154.10	-244.62	1238.41	4425.47	4181.01	-258.15	1173.05	158.87	71.96	59.56	1.21	PASS	
4516.00†	4245.06	-252.67	1279.17	4525.46	4272.49	-266.72	1212.49	158.68	73.46	61.48	1.20	PASS	
4616.00†	4336.02	-260.73	1319.93	4625.45	4363.97	-275.30	1251.93	158.49	74.95	63.41	1.18	PASS	
4716.00†	4426.98	-268.78	1360.69	4725.44	4455.45	-283.88	1291.37	158.31	76.45	65.36	1.17	PASS	
4816.00†	4517.94	-276.83	1401.45	4825.42	4546.93	-292.46	1330.81	158.14	77.94	67.30	1.16	PASS	
4916.00†	4608.90	-284.88	1442.21	4925.41	4638.41	-301.03	1370.25	157.97	79.44	69.26	1.15	PASS	
5016.00†	4699.86	-292.93	1482.98	5025.40	4729.89	-309.61	1409.69	157.81	80.94	71.23	1.14	PASS	
5116.00†	4790.82	-300.98	1523.74	5125.39	4821.37	-318.19	1449.13	157.66	82.44	73.20	1.13	PASS	
5216.00†	4881.78	-309.04	1564.50	5225.38	4912.85	-326.76	1488.57	157.51	83.93	75.17	1.12	PASS	
5316.00†	4972.74	-317.09	1605.26	5325.37	5004.33	-335.34	1528.01	157.37	85.43	77.16	1.11	PASS	
5416.00†	5063.70	-325.14	1646.02	5425.36	5095.81	-343.92	1567.45	157.23	86.93	79.15	1.10	PASS	
5516.00†	5154.66	-333.19	1686.78	5525.34	5187.29	-352.49	1606.89	157.09	88.43	81.14	1.09	PASS	
5616.00†	5245.62	-341.24	1727.54	5625.33	5278.77	-361.07	1646.33	156.96	89.93	83.14	1.08	PASS	
5716.00†	5336.58	-349.29	1768.30	5725.32	5370.25	-369.65	1685.77	156.84	91.44	85.14	1.07	PASS	
5816.00†	5427.54	-357.35	1809.06	5825.31	5461.73	-378.22	1725.21	156.72	92.94	87.15	1.07	PASS	
5916.00†	5518.50	-365.40	1849.83	5925.30	5553.21	-386.80	1764.65	156.60	94.44	89.16	1.06	PASS	
6016.00†	5609.46	-373.45	1890.59	6025.29	5644.69	-395.38	1804.09	156.49	95.94	91.18	1.05	PASS	
6116.00†	5700.42	-381.50	1931.35	6125.28	5736.17	-403.95	1843.53	156.38	97.44	93.20	1.05	PASS	
6216.00†	5791.38	-389.55	1972.11	6225.26	5827.65	-412.53	1882.97	156.27	98.95	95.22	1.04	PASS	
6316.00†	5882.33	-397.60	2012.87	6325.25	5919.13	-421.11	1922.41	156.16	100.45	97.25	1.03	PASS	
6416.00†	5973.29	-405.65	2053.63	6425.24	6010.61	-429.68	1961.85	156.06	101.96	99.28	1.03	PASS	
6516.00†	6064.25	-413.71	2094.39	6525.23	6102.09	-438.26	2001.28	155.97	103.46	101.32	1.02	PASS	
6616.00†	6155.21	-421.76	2135.15	6625.22	6193.57	-446.84	2040.72	155.87	104.96	103.35	1.02	PASS	
6716.00†	6246.17	-429.81	2175.91	6725.21	6285.05	-455.41	2080.16	155.78	106.47	105.39	1.01	PASS	
6816.00†	6337.13	-437.86	2216.68	6825.20	6376.53	-463.99	2119.60	155.69	107.97	107.43	1.01	PASS	
6916.00†	6428.09	-445.91	2257.44	6925.18	6468.02	-472.57	2159.04	155.60	109.48	109.48	1.00	PASS	
7016.00†	6519.05	-453.96	2298.20	7025.17	6559.50	-481.14	2198.48	155.52	110.98	111.52	1.00	FAIL	
7116.00†	6610.01	-462.02	2338.96	7125.16	6650.98	-489.72	2237.92	155.43	112.49	113.57	0.99	FAIL	
7216.00†	6700.97	-470.07	2379.72	7225.15	6742.46	-498.30	2277.36	155.35	114.00	115.62	0.99	FAIL	
7316.00†	6791.93	-478.12	2420.48	7325.14	6833.94	-506.88	2316.80	155.28	115.50	117.68	0.98	FAIL	
7416.00†	6882.89	-486.17	2461.24	7428.91	6929.09	-509.47	2357.83	155.22	116.63	119.78	1.02	PASS	
7516.00†	6973.85	-494.22	2502.00	7528.48	7019.38	-494.65	2396.79	169.54	114.64	97.16	1.18	PASS	
7616.00†	7064.81	-502.27	2542.77	7617.94	7097.40	-467.01	2430.48	-173.89	122.12	93.07	1.31	PASS	
7695.75	7137.35	-508.69	2575.27	7680.52	7149.18	-439.97	2452.84	-160.91	140.90	107.90	1.31	PASS	
7716.00†	7155.80	-509.97	2583.54	7695.32	7161.00	-432.68	2457.95	-153.01	147.55	111.95	1.32	PASS	
7816.00†	7246.85	-505.77	2624.36	7766.34	7215.15	-393.22	2481.36	-117.68	184.72	123.46	1.50	PASS	
7916.00†	7335.85	-484.32	2664.28	7834.62	7262.60	-348.68	2501.88	-91.23	223.91	123.60	1.82	PASS	
8016.00†	7420.08	-446.25	2702.09	7900.85	7303.67	-299.90	2519.66	-73.40	261.25	117.12	2.24	PASS	
8116.00†	7497.00	-392.72	2736.64	7965.56	7338.53	-247.56	2534.76	-61.68	294.85	106.98	2.77	PASS	
8216.00†	7564.26	-325.37	2766.87	8029.12	7367.29	-192.31	2547.24	-53.92	323.63	95.00	3.42	PASS	
8316.00†	7619.82	-246.23	2791.88	8091.84	7389.99	-134.71	2557.11	-48.76	346.95	82.63	4.23	PASS	
8416.00†	7661.99	-157.72	2810.90	8153.97	7406.65	-75.34	2564.37	-45.44	364.37	71.45	5.14	PASS	
8516.00†	7689.48	-62.52	2823.36	8215.69	7417.25	-14.73	2569.02	-43.49	375.60	63.51	5.97	PASS	
8616.00†	7701.48	36.48	2828.87	8277.21	7421.81	46.55	2571.07	-42.69	380.49	60.84	6.32	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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	
8641.62	7702.00	62.09	2829.13	8293.10	7422.00	62.44	2571.18	-42.65	380.71	61.06	6.30	PASS	
8716.00†	7702.00	136.47	2829.23	8367.48	7422.00	136.82	2571.28	-42.65	380.71	61.27	6.27	PASS	
8816.00†	7702.00	236.47	2829.37	8467.48	7422.00	236.82	2571.41	-42.65	380.71	61.79	6.22	PASS	
8916.00†	7702.00	336.47	2829.50	8567.48	7422.00	336.82	2571.55	-42.65	380.71	62.68	6.13	PASS	
9016.00†	7702.00	436.47	2829.64	8667.48	7422.00	436.82	2571.68	-42.65	380.71	63.90	6.01	PASS	
9116.00†	7702.00	536.47	2829.77	8767.48	7422.00	536.82	2571.82	-42.65	380.71	65.44	5.87	PASS	
9216.00†	7702.00	636.47	2829.90	8867.48	7422.00	636.82	2571.95	-42.65	380.71	80.61	4.76	PASS	
9316.00†	7702.00	736.47	2830.04	8967.48	7422.00	736.82	2572.09	-42.65	380.71	69.35	5.54	PASS	
9416.00†	7702.00	836.47	2830.17	9067.48	7422.00	836.82	2572.22	-42.65	380.71	71.68	5.35	PASS	
9516.00†	7702.00	936.47	2830.31	9167.48	7422.00	936.82	2572.36	-42.65	380.71	74.23	5.17	PASS	
9616.00†	7702.00	1036.47	2830.44	9267.48	7422.00	1036.82	2572.49	-42.65	380.71	76.98	4.98	PASS	
9716.00†	7702.00	1136.47	2830.57	9367.48	7422.00	1136.82	2572.63	-42.65	380.71	79.91	4.80	PASS	
9816.00†	7702.00	1236.47	2830.71	9467.48	7422.00	1236.82	2572.76	-42.65	380.70	82.99	4.62	PASS	
9916.00†	7702.00	1336.47	2830.84	9567.48	7422.00	1336.82	2572.90	-42.65	380.70	86.22	4.44	PASS	
10016.00†	7702.00	1436.47	2830.98	9667.48	7422.00	1436.82	2573.03	-42.65	380.70	89.57	4.28	PASS	
10116.00†	7702.00	1536.47	2831.11	9767.48	7422.00	1536.82	2573.17	-42.65	380.70	93.03	4.12	PASS	
10216.00†	7702.00	1636.47	2831.24	9867.48	7422.00	1636.82	2573.30	-42.65	380.70	96.60	3.96	PASS	
10316.00†	7702.00	1736.47	2831.38	9967.48	7422.00	1736.82	2573.44	-42.65	380.70	100.25	3.82	PASS	
10416.00†	7702.00	1836.47	2831.51	10067.48	7422.00	1836.82	2573.57	-42.65	380.70	103.98	3.68	PASS	
10516.00†	7702.00	1936.47	2831.64	10167.48	7422.00	1936.82	2573.71	-42.65	380.70	107.78	3.55	PASS	
10616.00†	7702.00	2036.47	2831.78	10267.48	7422.00	2036.82	2573.84	-42.65	380.70	111.65	3.43	PASS	
10716.00†	7702.00	2136.47	2831.91	10367.48	7422.00	2136.82	2573.98	-42.65	380.70	115.57	3.31	PASS	
10816.00†	7702.00	2236.47	2832.05	10467.48	7422.00	2236.82	2574.11	-42.65	380.70	119.55	3.20	PASS	
10916.00†	7702.00	2336.47	2832.18	10567.48	7422.00	2336.82	2574.25	-42.65	380.70	123.57	3.09	PASS	
11016.00†	7702.00	2436.47	2832.31	10667.48	7422.00	2436.82	2574.38	-42.65	380.70	127.64	2.99	PASS	
11116.00†	7702.00	2536.47	2832.45	10767.48	7422.00	2536.82	2574.52	-42.65	380.70	131.74	2.90	PASS	
11216.00†	7702.00	2636.47	2832.58	10867.48	7422.00	2636.82	2574.65	-42.65	380.70	135.88	2.81	PASS	
11316.00†	7702.00	2736.47	2832.72	10967.48	7422.00	2736.82	2574.79	-42.65	380.69	140.05	2.73	PASS	
11416.00†	7702.00	2836.47	2832.85	11067.48	7422.00	2836.82	2574.92	-42.65	380.69	144.25	2.65	PASS	
11516.00†	7702.00	2936.47	2832.98	11167.48	7422.00	2936.82	2575.06	-42.65	380.69	148.47	2.57	PASS	
11616.00†	7702.00	3036.47	2833.12	11267.48	7422.00	3036.82	2575.19	-42.65	380.69	152.72	2.50	PASS	
11716.00†	7702.00	3136.47	2833.25	11367.48	7422.00	3136.82	2575.33	-42.65	380.69	157.00	2.43	PASS	
11816.00†	7702.00	3236.47	2833.39	11467.48	7422.00	3236.82	2575.46	-42.65	380.69	161.29	2.37	PASS	
11916.00†	7702.00	3336.47	2833.52	11567.48	7422.00	3336.82	2575.60	-42.65	380.69	165.60	2.30	PASS	
12016.00†	7702.00	3436.47	2833.65	11667.48	7422.00	3436.82	2575.73	-42.65	380.69	169.93	2.25	PASS	
12116.00†	7702.00	3536.47	2833.79	11767.48	7422.00	3536.82	2575.87	-42.65	380.69	174.28	2.19	PASS	
12216.00†	7702.00	3636.47	2833.92	11867.48	7422.00	3636.82	2576.00	-42.65	380.69	178.64	2.14	PASS	
12316.00†	7702.00	3736.47	2834.06	11967.48	7422.00	3736.82	2576.14	-42.65	380.69	183.01	2.08	PASS	
12416.00†	7702.00	3836.47	2834.19	12067.48	7422.00	3836.82	2576.27	-42.65	380.69	187.40	2.04	PASS	
12516.00†	7702.00	3936.47	2834.32	12167.48	7422.00	3936.82	2576.41	-42.65	380.69	191.80	1.99	PASS	
12616.00†	7702.00	4036.47	2834.46	12267.48	7422.00	4036.82	2576.54	-42.65	380.69	196.21	1.94	PASS	
12716.00†	7702.00	4136.47	2834.59	12367.48	7422.00	4136.82	2576.68	-42.65	380.68	200.63	1.90	PASS	
12816.00†	7702.00	4236.47	2834.73	12467.48	7422.00	4236.82	2576.81	-42.65	380.68	205.07	1.86	PASS	
12916.00†	7702.00	4336.47	2834.86	12567.48	7422.00	4336.82	2576.95	-42.65	380.68	209.51	1.82	PASS	
13016.00†	7702.00	4436.47	2834.99	12667.48	7422.00	4436.82	2577.08	-42.65	380.68	213.96	1.78	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-3NBH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
13116.00†	7702.00	4536.47	2835.13	12767.48	7422.00	4536.82	2577.22	-42.65	380.68	218.41	1.75	PASS	
13216.00†	7702.00	4636.47	2835.26	12867.48	7422.00	4636.82	2577.35	-42.65	380.68	222.88	1.71	PASS	
13316.00†	7702.00	4736.47	2835.40	12967.48	7422.00	4736.82	2577.49	-42.65	380.68	227.35	1.68	PASS	
13416.00†	7702.00	4836.47	2835.53	13067.48	7422.00	4836.82	2577.62	-42.65	380.68	231.83	1.64	PASS	
13516.00†	7702.00	4936.47	2835.66	13167.48	7422.00	4936.82	2577.76	-42.65	380.68	236.31	1.61	PASS	
13616.00†	7702.00	5036.47	2835.80	13267.48	7422.00	5036.82	2577.89	-42.65	380.68	240.81	1.58	PASS	
13716.00†	7702.00	5136.47	2835.93	13367.48	7422.00	5136.82	2578.03	-42.65	380.68	245.30	1.55	PASS	
13816.00†	7702.00	5236.47	2836.07	13467.48	7422.00	5236.82	2578.16	-42.65	380.68	249.80	1.53	PASS	
13916.00†	7702.00	5336.47	2836.20	13567.48	7422.00	5336.82	2578.30	-42.65	380.68	254.31	1.50	PASS	
14016.00†	7702.00	5436.47	2836.33	13667.48	7422.00	5436.82	2578.43	-42.65	380.68	258.82	1.47	PASS	
14116.00†	7702.00	5536.47	2836.47	13767.48	7422.00	5536.82	2578.57	-42.65	380.67	263.34	1.45	PASS	
14216.00†	7702.00	5636.47	2836.60	13867.48	7422.00	5636.82	2578.70	-42.65	380.67	267.86	1.42	PASS	
14316.00†	7702.00	5736.47	2836.74	13967.48	7422.00	5736.82	2578.84	-42.65	380.67	272.39	1.40	PASS	
14416.00†	7702.00	5836.47	2836.87	14067.48	7422.00	5836.82	2578.97	-42.65	380.67	276.91	1.38	PASS	
14516.00†	7702.00	5936.47	2837.00	14167.48	7422.00	5936.82	2579.11	-42.65	380.67	281.45	1.35	PASS	
14616.00†	7702.00	6036.47	2837.14	14267.48	7422.00	6036.82	2579.24	-42.65	380.67	285.98	1.33	PASS	
14716.00†	7702.00	6136.47	2837.27	14367.48	7422.00	6136.82	2579.38	-42.65	380.67	290.52	1.31	PASS	
14816.00†	7702.00	6236.47	2837.40	14467.48	7422.00	6236.82	2579.51	-42.65	380.67	295.07	1.29	PASS	
14916.00†	7702.00	6336.47	2837.54	14567.48	7422.00	6336.81	2579.65	-42.65	380.67	299.61	1.27	PASS	
15016.00†	7702.00	6436.47	2837.67	14667.48	7422.00	6436.81	2579.78	-42.65	380.67	304.16	1.25	PASS	
15116.00†	7702.00	6536.47	2837.81	14767.48	7422.00	6536.81	2579.92	-42.65	380.67	308.71	1.23	PASS	
15216.00†	7702.00	6636.47	2837.94	14867.48	7422.00	6636.81	2580.05	-42.65	380.67	313.27	1.22	PASS	
15316.00†	7702.00	6736.47	2838.07	14967.48	7422.00	6736.81	2580.19	-42.65	380.67	317.82	1.20	PASS	
15416.00†	7702.00	6836.47	2838.21	15067.48	7422.00	6836.81	2580.32	-42.65	380.67	322.38	1.18	PASS	
15516.00†	7702.00	6936.47	2838.34	15167.48	7422.00	6936.81	2580.46	-42.65	380.66	326.94	1.16	PASS	
15616.00†	7702.00	7036.47	2838.48	15267.48	7422.00	7036.81	2580.59	-42.65	380.66	331.51	1.15	PASS	
15716.00†	7702.00	7136.47	2838.61	15367.48	7422.00	7136.81	2580.73	-42.65	380.66	336.07	1.13	PASS	
15816.00†	7702.00	7236.47	2838.74	15467.48	7422.00	7236.81	2580.86	-42.65	380.66	340.64	1.12	PASS	
15916.00†	7702.00	7336.47	2838.88	15567.48	7422.00	7336.81	2581.00	-42.65	380.66	345.21	1.10	PASS	
16016.00†	7702.00	7436.47	2839.01	15667.48	7422.00	7436.81	2581.13	-42.65	380.66	349.78	1.09	PASS	
16116.00†	7702.00	7536.47	2839.15	15767.48	7422.00	7536.81	2581.27	-42.65	380.66	354.36	1.07	PASS	
16216.00†	7702.00	7636.47	2839.28	15867.48	7422.00	7636.81	2581.40	-42.65	380.66	358.93	1.06	PASS	
16316.00†	7702.00	7736.47	2839.41	15967.48	7422.00	7736.81	2581.54	-42.65	380.66	363.51	1.05	PASS	
16416.00†	7702.00	7836.47	2839.55	16067.48	7422.00	7836.81	2581.67	-42.65	380.66	368.09	1.03	PASS	
16516.00†	7702.00	7936.47	2839.68	16167.48	7422.00	7936.81	2581.81	-42.65	380.66	372.67	1.02	PASS	
16616.00†	7702.00	8036.47	2839.82	16267.48	7422.00	8036.81	2581.94	-42.65	380.66	377.25	1.01	PASS	
16716.00†	7702.00	8136.47	2839.95	16367.48	7422.00	8136.81	2582.08	-42.64	380.66	381.83	1.00	FAIL	
16816.00†	7702.00	8236.47	2840.08	16467.48	7422.00	8236.81	2582.21	-42.64	380.66	386.42	0.99	FAIL	
16916.00†	7702.00	8336.47	2840.22	16567.48	7422.00	8336.81	2582.35	-42.64	380.66	391.00	0.97	FAIL	
17016.00†	7702.00	8436.46	2840.35	16667.48	7422.00	8436.81	2582.48	-42.64	380.65	395.59	0.96	FAIL	
17116.00†	7702.00	8536.46	2840.49	16767.48	7422.00	8536.81	2582.62	-42.64	380.65	400.18	0.95	FAIL	
17216.00†	7702.00	8636.46	2840.62	16867.48	7422.00	8636.81	2582.75	-42.64	380.65	404.77	0.94	FAIL	
17316.00†	7702.00	8736.46	2840.75	16967.48	7422.00	8736.81	2582.89	-42.64	380.65	409.36	0.93	FAIL	
17416.00†	7702.00	8836.46	2840.89	17067.48	7422.00	8836.81	2583.02	-42.64	380.65	413.95	0.92	FAIL	
17516.00†	7702.00	8936.46	2841.02	17167.48	7422.00	8936.81	2583.16	-42.64	380.65	418.55	0.91	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#07 BRIGHTON LAKES 20-17-3NBH (400'FSL & 1964'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-3NBH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
17616.00†	7702.00	9036.46	2841.16	17267.48	7422.00	9036.81	2583.29	-42.64	380.65	423.14	0.90	FAIL	
17716.00†	7702.00	9136.46	2841.29	17367.48	7422.00	9136.81	2583.43	-42.64	380.65	427.73	0.89	FAIL	
17816.00†	7702.00	9236.46	2841.42	17467.48	7422.00	9236.81	2583.56	-42.64	380.65	432.33	0.88	FAIL	
17916.00†	7702.00	9336.46	2841.56	17567.48	7422.00	9336.81	2583.70	-42.64	380.65	436.93	0.87	FAIL	
18016.00†	7702.00	9436.46	2841.69	17667.48	7422.00	9436.81	2583.83	-42.64	380.65	441.53	0.86	FAIL	
18116.00†	7702.00	9536.46	2841.83	17767.48	7422.00	9536.81	2583.97	-42.64	380.65	446.13	0.85	FAIL	
18216.00†	7702.00	9636.46	2841.96	17867.48	7422.00	9636.81	2584.10	-42.64	380.65	450.73	0.84	FAIL	
18283.84†	7702.00	9704.31	2842.05	17935.30	7422.00	9704.63	2584.19	-42.64	380.65	453.83	0.84	FAIL	
18284.22	7702.00	9704.68	2842.05	17935.33	7422.00	9704.65	2584.19	-42.64	380.65	453.72	0.84	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

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

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	-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	17936.00	17054.00	882.00	N/A	0.00	-8.55	N/A	N/A

SURVEY PROGRAM - Offset Wellbore: 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 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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	-28.04	-90.00	28.04	1.56	45.13	PASS
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	-28.04	-90.00	28.04	1.89	29.08	PASS
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-28.04	-90.00	28.04	2.47	17.95	PASS
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-28.04	-90.00	28.04	3.08	12.80	PASS
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	-28.04	-90.00	28.04	3.69	9.91	PASS
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	-28.04	-90.00	28.04	4.32	8.08	PASS
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	-28.04	-90.00	28.04	4.94	6.81	PASS
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	-28.04	-90.00	28.04	5.56	5.89	PASS
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	-28.04	-90.00	28.04	6.19	5.18	PASS
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	-28.04	-90.00	28.04	6.26	4.92	PASS
975.00	975.00	0.00	0.00	975.00	975.00	0.00	-28.04	-90.00	28.04	6.33	4.86	PASS
1016.00†	1016.00	-0.09	0.43	1016.00	1016.00	0.00	-28.04	169.00	28.47	6.41	4.87	PASS
1116.00†	1115.87	-1.01	5.10	1116.57	1116.57	-0.10	-27.60	170.40	32.72	7.09	5.02	PASS
1216.00†	1215.36	-2.94	14.90	1218.28	1218.15	-1.25	-22.81	171.42	37.85	8.74	4.62	PASS
1316.00†	1314.19	-5.88	29.79	1320.27	1319.60	-3.65	-12.74	171.89	42.93	10.72	4.22	PASS
1416.00†	1412.09	-9.82	49.73	1422.54	1420.63	-7.31	2.64	172.00	47.93	12.50	4.01	PASS
1516.00†	1508.79	-14.75	74.67	1525.08	1520.93	-12.24	23.31	171.84	52.83	14.12	3.89	PASS
1616.00†	1604.03	-20.65	104.54	1627.89	1620.20	-18.43	49.27	171.47	57.64	15.84	3.81	PASS
1716.00†	1697.55	-27.51	139.26	1730.96	1718.14	-25.87	80.46	170.96	62.32	17.10	3.76	PASS
1793.33	1768.52	-33.46	169.38	1810.41	1792.39	-32.43	107.96	170.48	65.90	18.10	3.75	PASS
1816.00†	1789.14	-35.28	178.62	1833.05	1813.42	-34.37	116.10	170.36	67.07	18.31	3.77	PASS
1916.00†	1880.10	-43.33	219.38	1932.91	1906.21	-42.93	152.01	169.90	72.25	19.25	3.86	PASS
2016.00†	1971.06	-51.39	260.14	2032.78	1999.00	-51.49	187.92	169.50	77.44	20.07	3.96	PASS
2116.00†	2062.02	-59.44	300.90	2132.64	2091.79	-60.05	223.83	169.15	82.63	21.08	4.02	PASS
2216.00†	2152.98	-67.49	341.66	2232.50	2184.58	-68.61	259.74	168.84	87.82	22.15	4.06	PASS
2316.00†	2243.94	-75.54	382.43	2332.37	2277.37	-77.18	295.65	168.56	93.01	23.28	4.09	PASS
2416.00†	2334.90	-83.59	423.19	2432.23	2370.16	-85.74	331.56	168.32	98.20	24.47	4.10	PASS
2516.00†	2425.86	-91.64	463.95	2532.10	2462.95	-94.30	367.47	168.09	103.40	25.69	4.11	PASS
2616.00†	2516.82	-99.70	504.71	2631.96	2555.74	-102.86	403.38	167.89	108.59	26.96	4.11	PASS
2716.00†	2607.78	-107.75	545.47	2731.82	2648.53	-111.42	439.29	167.71	113.79	28.26	4.10	PASS
2816.00†	2698.74	-115.80	586.23	2831.69	2741.32	-119.99	475.20	167.55	118.99	29.59	4.09	PASS
2916.00†	2789.70	-123.85	626.99	2931.55	2834.11	-128.55	511.11	167.40	124.19	30.95	4.08	PASS
3016.00†	2880.66	-131.90	667.75	3031.42	2926.90	-137.11	547.02	167.26	129.39	32.33	4.07	PASS
3116.00†	2971.62	-139.95	708.51	3131.28	3019.69	-145.67	582.93	167.13	134.59	33.73	4.05	PASS
3216.00†	3062.58	-148.00	749.28	3231.15	3112.48	-154.23	618.84	167.01	139.80	35.15	4.04	PASS
3316.00†	3153.54	-156.06	790.04	3331.01	3205.27	-162.80	654.75	166.90	145.00	36.58	4.02	PASS
3416.00†	3244.50	-164.11	830.80	3430.87	3298.06	-171.36	690.66	166.79	150.20	38.03	4.01	PASS
3516.00†	3335.46	-172.16	871.56	3530.74	3390.85	-179.92	726.57	166.70	155.41	39.49	3.99	PASS
3616.00†	3426.42	-180.21	912.32	3630.60	3483.64	-188.48	762.48	166.61	160.61	40.96	3.97	PASS
3716.00†	3517.38	-188.26	953.08	3730.47	3576.43	-197.04	798.39	166.52	165.82	42.44	3.96	PASS
3816.00†	3608.34	-196.31	993.84	3830.33	3669.22	-205.61	834.30	166.44	171.02	43.93	3.94	PASS
3916.00†	3699.30	-204.37	1034.60	3930.19	3762.01	-214.17	870.21	166.37	176.23	45.43	3.93	PASS
4016.00†	3790.26	-212.42	1075.36	4030.06	3854.80	-222.73	906.12	166.30	181.43	46.93	3.91	PASS
4116.00†	3881.22	-220.47	1116.13	4129.92	3947.59	-231.29	942.03	166.23	186.64	48.44	3.90	PASS
4216.00†	3972.18	-228.52	1156.89	4229.79	4040.39	-239.85	977.94	166.17	191.84	49.96	3.88	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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†	4063.14	-236.57	1197.65	4329.65	4133.18	-248.42	1013.85	166.11	197.05	51.48	3.87	PASS	
4416.00†	4154.10	-244.62	1238.41	4429.52	4225.97	-256.98	1049.78	166.05	202.28	53.01	3.85	PASS	
4516.00†	4245.06	-252.67	1279.17	4529.38	4318.76	-265.54	1085.67	166.00	207.46	54.55	3.84	PASS	
4616.00†	4336.02	-260.73	1319.93	4629.24	4411.55	-274.10	1121.58	165.95	212.67	56.08	3.83	PASS	
4716.00†	4426.98	-268.78	1360.69	4729.11	4504.34	-282.66	1157.49	165.90	217.88	57.62	3.82	PASS	
4816.00†	4517.94	-276.83	1401.45	4828.97	4597.13	-291.23	1193.39	165.86	223.08	59.17	3.80	PASS	
4916.00†	4608.90	-284.88	1442.21	4928.84	4689.92	-299.79	1229.30	165.81	228.29	60.72	3.79	PASS	
5016.00†	4699.86	-292.93	1482.98	5028.70	4782.71	-308.35	1265.21	165.77	233.50	62.27	3.78	PASS	
5116.00†	4790.82	-300.98	1523.74	5128.57	4875.50	-316.91	1301.12	165.73	238.71	63.82	3.77	PASS	
5216.00†	4881.78	-309.04	1564.50	5228.43	4968.29	-325.47	1337.03	165.69	243.91	65.38	3.76	PASS	
5316.00†	4972.74	-317.09	1605.26	5328.29	5061.08	-334.04	1372.94	165.65	249.12	66.94	3.75	PASS	
5416.00†	5063.70	-325.14	1646.02	5428.16	5153.87	-342.60	1408.85	165.62	254.33	68.50	3.74	PASS	
5516.00†	5154.66	-333.19	1686.78	5528.02	5246.66	-351.16	1444.76	165.58	259.54	70.07	3.73	PASS	
5616.00†	5245.62	-341.24	1727.54	5627.89	5339.45	-359.72	1480.67	165.55	264.75	71.63	3.72	PASS	
5716.00†	5336.58	-349.29	1768.30	5727.75	5432.24	-368.28	1516.58	165.52	269.95	73.20	3.71	PASS	
5816.00†	5427.54	-357.35	1809.06	5827.61	5525.03	-376.85	1552.49	165.49	275.16	74.77	3.71	PASS	
5916.00†	5518.50	-365.40	1849.83	5927.48	5617.82	-385.41	1588.40	165.46	280.37	76.35	3.70	PASS	
6016.00†	5609.46	-373.45	1890.59	6027.34	5710.61	-393.97	1624.31	165.43	285.58	77.92	3.69	PASS	
6116.00†	5700.42	-381.50	1931.35	6127.21	5803.40	-402.53	1660.22	165.41	290.79	79.49	3.68	PASS	
6216.00†	5791.38	-389.55	1972.11	6227.07	5896.19	-411.09	1696.13	165.38	296.00	81.07	3.67	PASS	
6316.00†	5882.33	-397.60	2012.87	6326.94	5988.98	-419.66	1732.04	165.35	301.20	82.65	3.67	PASS	
6416.00†	5973.29	-405.65	2053.63	6426.80	6081.77	-428.22	1767.95	165.33	306.41	84.23	3.66	PASS	
6516.00†	6064.25	-413.71	2094.39	6526.66	6174.56	-436.78	1803.86	165.31	311.62	85.81	3.65	PASS	
6616.00†	6155.21	-421.76	2135.15	6626.53	6267.35	-445.34	1839.77	165.28	316.83	87.39	3.65	PASS	
6716.00†	6246.17	-429.81	2175.91	6726.39	6360.14	-453.90	1875.68	165.26	322.04	88.97	3.64	PASS	
6816.00†	6337.13	-437.86	2216.68	6826.26	6452.93	-462.47	1911.59	165.24	327.25	90.56	3.63	PASS	
6916.00†	6428.09	-445.91	2257.44	6926.12	6545.72	-471.03	1947.50	165.22	332.46	92.14	3.63	PASS	
7016.00†	6519.05	-453.96	2298.20	7025.98	6638.51	-479.59	1983.41	165.20	337.67	93.73	3.62	PASS	
7116.00†	6610.01	-462.02	2338.96	7125.85	6731.30	-488.15	2019.32	165.18	342.87	95.31	3.62	PASS	
7216.00†	6700.97	-470.07	2379.72	7225.71	6824.09	-496.71	2055.23	165.16	348.08	96.90	3.61	PASS	
7316.00†	6791.93	-478.12	2420.48	7325.58	6916.88	-505.28	2091.14	165.14	353.29	98.49	3.61	PASS	
7416.00†	6882.89	-486.17	2461.24	7426.45	7012.56	-510.42	2128.17	165.11	358.50	99.21	3.63	PASS	
7516.00†	6973.85	-494.22	2502.00	7529.08	7105.73	-498.86	2164.26	168.86	362.61	96.39	3.78	PASS	
7616.00†	7064.81	-502.27	2542.77	7620.51	7187.50	-473.36	2195.95	173.93	369.01	92.54	4.01	PASS	
7695.75	7137.35	-508.69	2575.27	7684.89	7242.31	-447.19	2217.20	178.61	378.17	90.94	4.18	PASS	
7716.00†	7155.80	-509.97	2583.54	7700.15	7254.87	-440.03	2222.07	-175.47	381.26	90.89	4.22	PASS	
7816.00†	7246.85	-505.77	2624.36	7773.29	7312.41	-400.86	2244.40	-146.66	399.59	92.04	4.37	PASS	
7916.00†	7335.85	-484.32	2664.28	7843.49	7362.82	-356.18	2263.98	-122.77	421.17	93.64	4.52	PASS	
8016.00†	7420.08	-446.25	2702.09	7911.49	7406.44	-306.90	2280.93	-105.41	443.82	94.02	4.75	PASS	
8116.00†	7497.00	-392.72	2736.64	7977.84	7443.46	-253.80	2295.33	-93.20	465.74	92.77	5.05	PASS	
8216.00†	7564.26	-325.37	2766.87	8042.96	7473.99	-197.57	2307.23	-84.62	485.54	90.26	5.41	PASS	
8316.00†	7619.82	-246.23	2791.88	8107.17	7498.08	-138.83	2316.64	-78.65	502.21	87.17	5.80	PASS	
8416.00†	7661.99	-157.72	2810.90	8170.73	7515.75	-78.20	2323.56	-74.64	514.99	84.33	6.15	PASS	
8516.00†	7689.48	-62.52	2823.36	8233.87	7526.99	-16.26	2327.99	-72.24	523.38	82.56	6.39	PASS	
8616.00†	7701.48	36.48	2828.87	8296.78	7531.80	46.40	2329.94	-71.24	527.08	82.46	6.44	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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	
8641.62	7702.00	62.09	2829.13	8313.15	7532.00	62.77	2330.04	-71.19	527.25	82.68	6.42	PASS	
8716.00†	7702.00	136.47	2829.23	8387.53	7532.00	137.15	2330.14	-71.19	527.25	82.93	6.40	PASS	
8816.00†	7702.00	236.47	2829.37	8487.53	7532.00	237.15	2330.28	-71.19	527.25	83.72	6.34	PASS	
8916.00†	7702.00	336.47	2829.50	8587.53	7532.00	337.15	2330.41	-71.19	527.25	84.98	6.25	PASS	
9016.00†	7702.00	436.47	2829.64	8687.53	7532.00	437.15	2330.55	-71.19	527.24	86.66	6.13	PASS	
9116.00†	7702.00	536.47	2829.77	8787.53	7532.00	537.15	2330.69	-71.19	527.24	89.38	5.94	PASS	
9216.00†	7702.00	636.47	2829.90	8887.53	7532.00	637.15	2330.82	-71.19	527.24	91.13	5.82	PASS	
9316.00†	7702.00	736.47	2830.04	8987.53	7532.00	737.15	2330.96	-71.19	527.24	93.88	5.65	PASS	
9416.00†	7702.00	836.47	2830.17	9087.53	7532.00	837.15	2331.09	-71.19	527.24	96.94	5.47	PASS	
9516.00†	7702.00	936.47	2830.31	9187.53	7532.00	937.15	2331.23	-71.19	527.23	100.27	5.29	PASS	
9616.00†	7702.00	1036.47	2830.44	9287.53	7532.00	1037.15	2331.37	-71.19	527.23	103.84	5.11	PASS	
9716.00†	7702.00	1136.47	2830.57	9387.53	7532.00	1137.15	2331.50	-71.19	527.23	107.64	4.92	PASS	
9816.00†	7702.00	1236.47	2830.71	9487.53	7532.00	1237.15	2331.64	-71.19	527.23	111.65	4.75	PASS	
9916.00†	7702.00	1336.47	2830.84	9587.53	7532.00	1337.15	2331.77	-71.19	527.23	115.83	4.57	PASS	
10016.00†	7702.00	1436.47	2830.98	9687.53	7532.00	1437.15	2331.91	-71.19	527.22	120.17	4.41	PASS	
10116.00†	7702.00	1536.47	2831.11	9787.53	7532.00	1537.15	2332.05	-71.19	527.22	124.66	4.25	PASS	
10216.00†	7702.00	1636.47	2831.24	9887.53	7532.00	1637.15	2332.18	-71.19	527.22	129.27	4.10	PASS	
10316.00†	7702.00	1736.47	2831.38	9987.53	7532.00	1737.15	2332.32	-71.19	527.22	134.00	3.95	PASS	
10416.00†	7702.00	1836.47	2831.51	10087.53	7532.00	1837.15	2332.45	-71.19	527.22	138.84	3.81	PASS	
10516.00†	7702.00	1936.47	2831.64	10187.53	7532.00	1937.15	2332.59	-71.19	527.22	143.76	3.68	PASS	
10616.00†	7702.00	2036.47	2831.78	10287.53	7532.00	2037.15	2332.73	-71.19	527.21	148.78	3.56	PASS	
10716.00†	7702.00	2136.47	2831.91	10387.53	7532.00	2137.15	2332.86	-71.19	527.21	153.86	3.44	PASS	
10816.00†	7702.00	2236.47	2832.05	10487.53	7532.00	2237.15	2333.00	-71.19	527.21	159.02	3.33	PASS	
10916.00†	7702.00	2336.47	2832.18	10587.53	7532.00	2337.15	2333.13	-71.19	527.21	164.24	3.22	PASS	
11016.00†	7702.00	2436.47	2832.31	10687.53	7532.00	2437.15	2333.27	-71.19	527.21	169.51	3.12	PASS	
11116.00†	7702.00	2536.47	2832.45	10787.53	7532.00	2537.15	2333.41	-71.19	527.20	174.84	3.02	PASS	
11216.00†	7702.00	2636.47	2832.58	10887.53	7532.00	2637.15	2333.54	-71.19	527.20	180.21	2.93	PASS	
11316.00†	7702.00	2736.47	2832.72	10987.53	7532.00	2737.15	2333.68	-71.19	527.20	185.62	2.85	PASS	
11416.00†	7702.00	2836.47	2832.85	11087.53	7532.00	2837.15	2333.81	-71.19	527.20	191.08	2.77	PASS	
11516.00†	7702.00	2936.47	2832.98	11187.53	7532.00	2937.15	2333.95	-71.19	527.20	196.56	2.69	PASS	
11616.00†	7702.00	3036.47	2833.12	11287.53	7532.00	3037.15	2334.09	-71.19	527.19	202.09	2.61	PASS	
11716.00†	7702.00	3136.47	2833.25	11387.53	7532.00	3137.15	2334.22	-71.19	527.19	207.64	2.54	PASS	
11816.00†	7702.00	3236.47	2833.39	11487.53	7532.00	3237.15	2334.36	-71.19	527.19	213.22	2.48	PASS	
11916.00†	7702.00	3336.47	2833.52	11587.53	7532.00	3337.15	2334.49	-71.19	527.19	218.82	2.41	PASS	
12016.00†	7702.00	3436.47	2833.65	11687.53	7532.00	3437.15	2334.63	-71.19	527.19	224.45	2.35	PASS	
12116.00†	7702.00	3536.47	2833.79	11787.53	7532.00	3537.15	2334.77	-71.19	527.18	230.10	2.30	PASS	
12216.00†	7702.00	3636.47	2833.92	11887.53	7532.00	3637.15	2334.90	-71.19	527.18	235.77	2.24	PASS	
12316.00†	7702.00	3736.47	2834.06	11987.53	7532.00	3737.15	2335.04	-71.19	527.18	241.46	2.19	PASS	
12416.00†	7702.00	3836.47	2834.19	12087.53	7532.00	3837.15	2335.17	-71.19	527.18	247.17	2.14	PASS	
12516.00†	7702.00	3936.47	2834.32	12187.53	7532.00	3937.15	2335.31	-71.19	527.18	252.89	2.09	PASS	
12616.00†	7702.00	4036.47	2834.46	12287.53	7532.00	4037.15	2335.45	-71.19	527.17	258.63	2.04	PASS	
12716.00†	7702.00	4136.47	2834.59	12387.53	7532.00	4137.15	2335.58	-71.19	527.17	264.38	2.00	PASS	
12816.00†	7702.00	4236.47	2834.73	12487.53	7532.00	4237.15	2335.72	-71.19	527.17	270.15	1.95	PASS	
12916.00†	7702.00	4336.47	2834.86	12587.53	7532.00	4337.15	2335.85	-71.19	527.17	275.93	1.91	PASS	
13016.00†	7702.00	4436.47	2834.99	12687.53	7532.00	4437.15	2335.99	-71.19	527.17	281.72	1.87	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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†	7702.00	4536.47	2835.13	12787.53	7532.00	4537.15	2336.13	-71.19	527.16	287.52	1.84	PASS	
13216.00†	7702.00	4636.47	2835.26	12887.53	7532.00	4637.15	2336.26	-71.19	527.16	293.33	1.80	PASS	
13316.00†	7702.00	4736.47	2835.40	12987.53	7532.00	4737.15	2336.40	-71.19	527.16	299.15	1.76	PASS	
13416.00†	7702.00	4836.47	2835.53	13087.53	7532.00	4837.15	2336.54	-71.19	527.16	304.99	1.73	PASS	
13516.00†	7702.00	4936.47	2835.66	13187.53	7532.00	4937.15	2336.67	-71.19	527.16	310.83	1.70	PASS	
13616.00†	7702.00	5036.47	2835.80	13287.53	7532.00	5037.15	2336.81	-71.19	527.15	316.67	1.67	PASS	
13716.00†	7702.00	5136.47	2835.93	13387.53	7532.00	5137.15	2336.94	-71.19	527.15	322.53	1.64	PASS	
13816.00†	7702.00	5236.47	2836.07	13487.53	7532.00	5237.15	2337.08	-71.19	527.15	328.39	1.61	PASS	
13916.00†	7702.00	5336.47	2836.20	13587.53	7532.00	5337.15	2337.22	-71.19	527.15	334.26	1.58	PASS	
14016.00†	7702.00	5436.47	2836.33	13687.53	7532.00	5437.15	2337.35	-71.19	527.15	340.14	1.55	PASS	
14116.00†	7702.00	5536.47	2836.47	13787.53	7532.00	5537.15	2337.49	-71.19	527.14	346.02	1.52	PASS	
14216.00†	7702.00	5636.47	2836.60	13887.53	7532.00	5637.15	2337.62	-71.19	527.14	351.91	1.50	PASS	
14316.00†	7702.00	5736.47	2836.74	13987.53	7532.00	5737.15	2337.76	-71.19	527.14	357.81	1.47	PASS	
14416.00†	7702.00	5836.47	2836.87	14087.53	7532.00	5837.15	2337.90	-71.19	527.14	363.71	1.45	PASS	
14516.00†	7702.00	5936.47	2837.00	14187.53	7532.00	5937.15	2338.03	-71.19	527.14	369.61	1.43	PASS	
14616.00†	7702.00	6036.47	2837.14	14287.53	7532.00	6037.15	2338.17	-71.19	527.14	375.52	1.40	PASS	
14716.00†	7702.00	6136.47	2837.27	14387.53	7532.00	6137.15	2338.30	-71.19	527.13	381.44	1.38	PASS	
14816.00†	7702.00	6236.47	2837.40	14487.53	7532.00	6237.15	2338.44	-71.19	527.13	387.36	1.36	PASS	
14916.00†	7702.00	6336.47	2837.54	14587.53	7532.00	6337.15	2338.58	-71.19	527.13	393.28	1.34	PASS	
15016.00†	7702.00	6436.47	2837.67	14687.53	7532.00	6437.15	2338.71	-71.19	527.13	399.21	1.32	PASS	
15116.00†	7702.00	6536.47	2837.81	14787.53	7532.00	6537.15	2338.85	-71.19	527.13	405.14	1.30	PASS	
15216.00†	7702.00	6636.47	2837.94	14887.53	7532.00	6637.15	2338.98	-71.19	527.12	411.08	1.28	PASS	
15316.00†	7702.00	6736.47	2838.07	14987.53	7532.00	6737.15	2339.12	-71.19	527.12	417.02	1.26	PASS	
15416.00†	7702.00	6836.47	2838.21	15087.53	7532.00	6837.15	2339.26	-71.19	527.12	422.96	1.25	PASS	
15516.00†	7702.00	6936.47	2838.34	15187.53	7532.00	6937.14	2339.39	-71.19	527.12	428.90	1.23	PASS	
15616.00†	7702.00	7036.47	2838.48	15287.53	7532.00	7037.14	2339.53	-71.19	527.12	434.85	1.21	PASS	
15716.00†	7702.00	7136.47	2838.61	15387.53	7532.00	7137.14	2339.66	-71.19	527.11	440.80	1.20	PASS	
15816.00†	7702.00	7236.47	2838.74	15487.53	7532.00	7237.14	2339.80	-71.19	527.11	446.76	1.18	PASS	
15916.00†	7702.00	7336.47	2838.88	15587.53	7532.00	7337.14	2339.94	-71.19	527.11	452.71	1.16	PASS	
16016.00†	7702.00	7436.47	2839.01	15687.53	7532.00	7437.14	2340.07	-71.19	527.11	458.67	1.15	PASS	
16116.00†	7702.00	7536.47	2839.15	15787.53	7532.00	7537.14	2340.21	-71.19	527.11	464.64	1.13	PASS	
16216.00†	7702.00	7636.47	2839.28	15887.53	7532.00	7637.14	2340.34	-71.19	527.10	470.60	1.12	PASS	
16316.00†	7702.00	7736.47	2839.41	15987.53	7532.00	7737.14	2340.48	-71.19	527.10	476.57	1.11	PASS	
16416.00†	7702.00	7836.47	2839.55	16087.53	7532.00	7837.14	2340.62	-71.19	527.10	482.54	1.09	PASS	
16516.00†	7702.00	7936.47	2839.68	16187.53	7532.00	7937.14	2340.75	-71.19	527.10	488.51	1.08	PASS	
16616.00†	7702.00	8036.47	2839.82	16287.53	7532.00	8037.14	2340.89	-71.18	527.10	494.48	1.07	PASS	
16716.00†	7702.00	8136.47	2839.95	16387.53	7532.00	8137.14	2341.02	-71.18	527.09	500.46	1.05	PASS	
16816.00†	7702.00	8236.47	2840.08	16487.53	7532.00	8237.14	2341.16	-71.18	527.09	506.44	1.04	PASS	
16916.00†	7702.00	8336.47	2840.22	16587.53	7532.00	8337.14	2341.30	-71.18	527.09	512.42	1.03	PASS	
17016.00†	7702.00	8436.46	2840.35	16687.53	7532.00	8437.14	2341.43	-71.18	527.09	518.40	1.02	PASS	
17116.00†	7702.00	8536.46	2840.49	16787.53	7532.00	8537.14	2341.57	-71.18	527.09	524.38	1.01	PASS	
17216.00†	7702.00	8636.46	2840.62	16887.53	7532.00	8637.14	2341.70	-71.18	527.08	530.37	0.99	FAIL	
17316.00†	7702.00	8736.46	2840.75	16987.53	7532.00	8737.14	2341.84	-71.18	527.08	536.35	0.98	FAIL	
17416.00†	7702.00	8836.46	2840.89	17087.53	7532.00	8837.14	2341.98	-71.18	527.08	542.34	0.97	FAIL	
17516.00†	7702.00	8936.46	2841.02	17187.53	7532.00	8937.14	2342.11	-71.18	527.08	548.33	0.96	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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†	7702.00	9036.46	2841.16	17287.53	7532.00	9037.14	2342.25	-71.18	527.08	554.32	0.95	FAIL	
17716.00†	7702.00	9136.46	2841.29	17387.53	7532.00	9137.14	2342.38	-71.18	527.07	560.32	0.94	FAIL	
17816.00†	7702.00	9236.46	2841.42	17487.53	7532.00	9237.14	2342.52	-71.18	527.07	566.31	0.93	FAIL	
17916.00†	7702.00	9336.46	2841.56	17587.53	7532.00	9337.14	2342.66	-71.18	527.07	572.30	0.92	FAIL	
18016.00†	7702.00	9436.46	2841.69	17687.53	7532.00	9437.14	2342.79	-71.18	527.07	578.30	0.91	FAIL	
18116.00†	7702.00	9536.46	2841.83	17787.53	7532.00	9537.14	2342.93	-71.18	527.07	584.30	0.90	FAIL	
18216.00†	7702.00	9636.46	2841.96	17887.53	7532.00	9637.14	2343.06	-71.18	527.06	590.30	0.89	FAIL	
18279.84†	7702.00	9700.31	2842.04	17951.38	7532.00	9700.99	2343.15	-71.18	527.06	594.12	0.89	FAIL	
18284.22	7702.00	9704.68	2842.05	17951.38	7532.00	9700.99	2343.15	-71.18	527.08	593.04	0.89	FAIL	

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

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

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	-17.09	0.00	-17.09
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	-17.09	0.00	-17.09
8.5in Open Hole	882.00	17952.00	17070.00	882.00	N/A	0.00	-17.09	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 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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	47.16	PASS
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-44.86	-90.00	44.86	2.47	29.11	PASS
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-44.86	-90.00	44.86	3.08	20.76	PASS
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	-44.86	-90.00	44.86	3.69	16.07	PASS
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	-44.86	-90.00	44.86	4.32	13.10	PASS
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	-44.86	-90.00	44.86	4.94	11.04	PASS
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	-44.86	-90.00	44.86	5.56	9.54	PASS
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	-44.86	-90.00	44.86	6.19	8.40	PASS
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	-44.86	-90.00	44.86	6.26	7.96	PASS
975.00	975.00	0.00	0.00	975.00	975.00	0.00	-44.86	-90.00	44.86	6.33	7.85	PASS
1016.00†	1016.00	-0.09	0.43	1016.00	1016.00	0.00	-44.86	168.93	45.29	6.41	7.82	PASS
1116.00†	1115.87	-1.01	5.10	1115.87	1115.87	0.00	-44.86	169.96	49.98	7.08	7.73	PASS
1216.00†	1215.36	-2.94	14.90	1218.14	1218.11	-0.58	-42.67	171.16	57.68	8.58	7.24	PASS
1316.00†	1314.19	-5.88	29.79	1321.09	1320.75	-2.57	-35.14	171.77	65.34	10.48	6.61	PASS
1416.00†	1412.09	-9.82	49.73	1424.47	1423.24	-5.98	-22.21	171.96	72.90	12.30	6.23	PASS
1516.00†	1508.79	-14.75	74.67	1528.27	1525.28	-10.83	-3.85	171.84	80.33	13.95	6.01	PASS
1616.00†	1604.03	-20.65	104.54	1632.49	1626.54	-17.11	19.95	171.50	87.61	15.51	5.87	PASS
1716.00†	1697.55	-27.51	139.26	1737.12	1726.69	-24.83	49.17	170.97	94.73	16.98	5.78	PASS
1793.33	1768.52	-33.46	169.38	1817.46	1802.41	-31.68	75.13	170.48	100.17	18.00	5.75	PASS
1816.00†	1789.14	-35.28	178.62	1840.06	1823.60	-33.68	82.71	170.36	101.92	18.20	5.79	PASS
1916.00†	1880.10	-43.33	219.38	1939.75	1917.10	-42.51	116.16	169.89	109.66	19.08	5.93	PASS
2016.00†	1971.06	-51.39	260.14	2039.45	2010.61	-51.34	149.61	169.48	117.39	19.95	6.06	PASS
2116.00†	2062.02	-59.44	300.90	2139.15	2104.11	-60.18	183.06	169.12	125.14	20.94	6.15	PASS
2216.00†	2152.98	-67.49	341.66	2238.84	2197.61	-69.01	216.51	168.80	132.88	22.00	6.21	PASS
2316.00†	2243.94	-75.54	382.43	2338.54	2291.11	-77.84	249.96	168.51	140.63	23.12	6.24	PASS
2416.00†	2334.90	-83.59	423.19	2438.24	2384.61	-86.67	283.41	168.26	148.39	24.30	6.26	PASS
2516.00†	2425.86	-91.64	463.95	2537.93	2478.11	-95.50	316.86	168.03	156.14	25.51	6.27	PASS
2616.00†	2516.82	-99.70	504.71	2637.63	2571.62	-104.33	350.31	167.82	163.90	26.77	6.26	PASS
2716.00†	2607.78	-107.75	545.47	2737.33	2665.12	-113.16	383.76	167.63	171.66	28.06	6.25	PASS
2816.00†	2698.74	-115.80	586.23	2837.02	2758.62	-121.99	417.21	167.46	179.43	29.37	6.23	PASS
2916.00†	2789.70	-123.85	626.99	2936.72	2852.12	-130.83	450.65	167.30	187.19	30.72	6.21	PASS
3016.00†	2880.66	-131.90	667.75	3036.42	2945.62	-139.66	484.10	167.16	194.96	32.08	6.19	PASS
3116.00†	2971.62	-139.95	708.51	3136.11	3039.13	-148.49	517.55	167.03	202.72	33.47	6.17	PASS
3216.00†	3062.58	-148.00	749.28	3235.81	3132.63	-157.32	551.00	166.90	210.49	34.87	6.14	PASS
3316.00†	3153.54	-156.06	790.04	3335.51	3226.13	-166.15	584.43	166.79	218.26	36.29	6.11	PASS
3416.00†	3244.50	-164.11	830.80	3435.21	3319.63	-174.98	617.90	166.68	226.03	37.73	6.09	PASS
3516.00†	3335.46	-172.16	871.56	3534.90	3413.13	-183.81	651.35	166.58	233.80	39.17	6.06	PASS
3616.00†	3426.42	-180.21	912.32	3634.60	3506.64	-192.64	684.80	166.48	241.57	40.63	6.03	PASS
3716.00†	3517.38	-188.26	953.08	3734.30	3600.14	-201.47	718.25	166.40	249.34	42.09	6.01	PASS
3816.00†	3608.34	-196.31	993.84	3833.99	3693.64	-210.31	751.70	166.31	257.11	43.57	5.98	PASS
3916.00†	3699.30	-204.37	1034.60	3933.69	3787.14	-219.14	785.15	166.24	264.88	45.05	5.96	PASS
4016.00†	3790.26	-212.42	1075.36	4033.39	3880.64	-227.97	818.60	166.16	272.65	46.54	5.93	PASS
4116.00†	3881.22	-220.47	1116.13	4133.08	3974.15	-236.80	852.05	166.09	280.43	48.04	5.91	PASS
4216.00†	3972.18	-228.52	1156.89	4232.78	4067.65	-245.63	885.50	166.03	288.20	49.54	5.89	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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†	4063.14	-236.57	1197.65	4332.48	4161.15	-254.46	918.95	165.97	295.97	51.05	5.86	PASS	
4416.00†	4154.10	-244.62	1238.41	4432.17	4254.65	-263.29	952.40	165.91	303.78	52.57	5.84	PASS	
4516.00†	4245.06	-252.67	1279.17	4531.87	4348.15	-272.12	985.85	165.85	311.52	54.09	5.82	PASS	
4616.00†	4336.02	-260.73	1319.93	4631.57	4441.66	-280.96	1019.29	165.80	319.30	55.61	5.80	PASS	
4716.00†	4426.98	-268.78	1360.69	4731.26	4535.16	-289.79	1052.74	165.75	327.07	57.14	5.78	PASS	
4816.00†	4517.94	-276.83	1401.45	4830.96	4628.66	-298.62	1086.19	165.70	334.85	58.67	5.77	PASS	
4916.00†	4608.90	-284.88	1442.21	4930.66	4722.16	-307.45	1119.64	165.65	342.62	60.20	5.75	PASS	
5016.00†	4699.86	-292.93	1482.98	5030.36	4815.66	-316.28	1153.09	165.61	350.40	61.74	5.73	PASS	
5116.00†	4790.82	-300.98	1523.74	5130.05	4909.17	-325.11	1186.54	165.57	358.17	63.28	5.71	PASS	
5216.00†	4881.78	-309.04	1564.50	5229.75	5002.67	-333.94	1219.99	165.53	365.98	64.82	5.70	PASS	
5316.00†	4972.74	-317.09	1605.26	5329.45	5096.17	-342.77	1253.44	165.49	373.73	66.37	5.68	PASS	
5416.00†	5063.70	-325.14	1646.02	5429.14	5189.67	-351.61	1286.89	165.45	381.50	67.92	5.67	PASS	
5516.00†	5154.66	-333.19	1686.78	5528.84	5283.17	-360.44	1320.34	165.41	389.28	69.47	5.65	PASS	
5616.00†	5245.62	-341.24	1727.54	5628.54	5376.68	-369.27	1353.79	165.38	397.06	71.02	5.64	PASS	
5716.00†	5336.58	-349.29	1768.30	5728.23	5470.18	-378.10	1387.24	165.35	404.83	72.57	5.62	PASS	
5816.00†	5427.54	-357.35	1809.06	5827.93	5563.68	-386.93	1420.69	165.31	412.61	74.13	5.61	PASS	
5916.00†	5518.50	-365.40	1849.83	5927.63	5657.18	-395.76	1454.14	165.28	420.39	75.69	5.60	PASS	
6016.00†	5609.46	-373.45	1890.59	6027.32	5750.68	-404.59	1487.59	165.25	428.16	77.25	5.58	PASS	
6116.00†	5700.42	-381.50	1931.35	6127.02	5844.18	-413.42	1521.04	165.23	435.94	78.81	5.57	PASS	
6216.00†	5791.38	-389.55	1972.11	6226.72	5937.69	-422.26	1554.49	165.20	443.72	80.37	5.56	PASS	
6316.00†	5882.33	-397.60	2012.87	6326.42	6031.19	-431.09	1587.94	165.17	451.50	81.93	5.55	PASS	
6416.00†	5973.29	-405.65	2053.63	6426.11	6124.69	-439.92	1621.38	165.15	459.27	83.50	5.54	PASS	
6516.00†	6064.25	-413.71	2094.39	6525.81	6218.19	-448.75	1654.83	165.12	467.05	85.07	5.53	PASS	
6616.00†	6155.21	-421.76	2135.15	6625.51	6311.69	-457.58	1688.28	165.10	474.83	86.63	5.52	PASS	
6716.00†	6246.17	-429.81	2175.91	6725.20	6405.20	-466.41	1721.73	165.08	482.61	88.20	5.51	PASS	
6816.00†	6337.13	-437.86	2216.68	6824.90	6498.70	-475.24	1755.18	165.05	490.38	89.77	5.50	PASS	
6916.00†	6428.09	-445.91	2257.44	6924.60	6592.20	-484.07	1788.63	165.03	498.16	91.34	5.49	PASS	
7016.00†	6519.05	-453.96	2298.20	7024.29	6685.70	-492.91	1822.08	165.01	505.94	92.91	5.48	PASS	
7116.00†	6610.01	-462.02	2338.96	7123.99	6779.20	-501.74	1855.53	164.99	513.72	94.48	5.47	PASS	
7216.00†	6700.97	-470.07	2379.72	7223.69	6874.49	-510.57	1889.02	165.03	521.45	95.97	5.47	PASS	
7316.00†	6791.93	-478.12	2420.48	7323.39	6969.79	-519.40	1922.51	165.01	529.23	97.54	5.46	PASS	
7416.00†	6882.89	-486.17	2461.24	7423.09	7065.09	-528.23	1956.00	165.00	537.01	99.11	5.45	PASS	
7516.00†	6973.85	-494.22	2502.00	7522.79	7160.39	-537.06	1989.49	165.00	544.79	100.68	5.44	PASS	
7616.00†	7064.81	-502.27	2542.77	7622.49	7255.69	-545.89	2022.98	165.00	552.57	102.25	5.43	PASS	
7695.75	7137.35	-508.69	2575.27	7635.41	7233.63	-548.06	2018.32	-178.73	578.37	88.54	6.58	PASS	
7716.00†	7155.80	-509.97	2583.54	7646.96	7242.07	-548.77	2021.35	-173.00	583.71	88.60	6.63	PASS	
7816.00†	7246.85	-505.77	2624.36	7703.36	7281.20	-540.70	2035.40	-144.88	612.62	89.09	6.92	PASS	
7916.00†	7335.85	-484.32	2664.28	7758.87	7316.09	-529.40	2047.94	-121.40	643.78	89.31	7.26	PASS	
8016.00†	7420.08	-446.25	2702.09	7813.76	7346.72	-525.24	2058.97	-104.27	674.88	88.71	7.66	PASS	
8116.00†	7497.00	-392.72	2736.64	7868.19	7373.03	-508.57	2068.45	-92.18	704.10	87.29	8.12	PASS	
8216.00†	7564.26	-325.37	2766.87	7922.28	7394.94	-489.77	2076.35	-83.65	730.01	85.31	8.62	PASS	
8316.00†	7619.82	-246.23	2791.88	7976.14	7412.34	-469.22	2082.65	-77.69	751.55	83.21	9.10	PASS	
8416.00†	7661.99	-157.72	2810.90	8029.82	7425.17	-457.31	2087.31	-73.69	767.95	81.47	9.50	PASS	
8516.00†	7689.48	-62.52	2823.36	8083.40	7433.36	-447.00	2090.31	-71.28	778.67	80.53	9.75	PASS	
8616.00†	7701.48	36.48	2828.87	8136.91	7436.86	-48.89	2091.64	-70.28	783.38	80.69	9.79	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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	
8641.62	7702.00	62.09	2829.13	8151.12	7437.00	63.10	2091.71	-70.23	783.59	80.85	9.77	PASS	
8716.00†	7702.00	136.47	2829.23	8225.51	7437.00	137.48	2091.81	-70.23	783.59	81.10	9.74	PASS	
8816.00†	7702.00	236.47	2829.37	8325.51	7437.00	237.48	2091.95	-70.23	783.59	81.90	9.64	PASS	
8916.00†	7702.00	336.47	2829.50	8425.51	7437.00	337.48	2092.09	-70.23	783.59	83.18	9.49	PASS	
9016.00†	7702.00	436.47	2829.64	8525.51	7437.00	437.48	2092.22	-70.23	783.58	84.87	9.30	PASS	
9116.00†	7702.00	536.47	2829.77	8625.51	7437.00	537.48	2092.36	-70.23	783.58	86.80	9.09	PASS	
9216.00†	7702.00	636.47	2829.90	8725.51	7437.00	637.48	2092.50	-70.23	783.58	89.39	8.83	PASS	
9316.00†	7702.00	736.47	2830.04	8825.51	7437.00	737.48	2092.63	-70.23	783.58	92.17	8.56	PASS	
9416.00†	7702.00	836.47	2830.17	8925.51	7437.00	837.48	2092.77	-70.23	783.57	95.25	8.28	PASS	
9516.00†	7702.00	936.47	2830.31	9025.51	7437.00	937.48	2092.91	-70.23	783.57	98.60	8.00	PASS	
9616.00†	7702.00	1036.47	2830.44	9125.51	7437.00	1037.48	2093.04	-70.23	783.57	102.20	7.71	PASS	
9716.00†	7702.00	1136.47	2830.57	9225.51	7437.00	1137.48	2093.18	-70.23	783.56	106.03	7.43	PASS	
9816.00†	7702.00	1236.47	2830.71	9325.51	7437.00	1237.48	2093.32	-70.23	783.56	110.05	7.16	PASS	
9916.00†	7702.00	1336.47	2830.84	9425.51	7437.00	1337.48	2093.46	-70.23	783.56	114.25	6.89	PASS	
10016.00†	7702.00	1436.47	2830.98	9525.51	7437.00	1437.48	2093.59	-70.23	783.56	118.61	6.64	PASS	
10116.00†	7702.00	1536.47	2831.11	9625.51	7437.00	1537.48	2093.73	-70.23	783.55	123.11	6.40	PASS	
10216.00†	7702.00	1636.47	2831.24	9725.51	7437.00	1637.48	2093.87	-70.23	783.55	127.73	6.16	PASS	
10316.00†	7702.00	1736.47	2831.38	9825.51	7437.00	1737.48	2094.00	-70.23	783.55	132.47	5.94	PASS	
10416.00†	7702.00	1836.47	2831.51	9925.51	7437.00	1837.48	2094.14	-70.23	783.54	137.31	5.73	PASS	
10516.00†	7702.00	1936.47	2831.64	10025.51	7437.00	1937.48	2094.28	-70.23	783.54	142.25	5.53	PASS	
10616.00†	7702.00	2036.47	2831.78	10125.51	7437.00	2037.48	2094.41	-70.23	783.54	147.26	5.34	PASS	
10716.00†	7702.00	2136.47	2831.91	10225.51	7437.00	2137.48	2094.55	-70.23	783.54	152.35	5.16	PASS	
10816.00†	7702.00	2236.47	2832.05	10325.51	7437.00	2237.48	2094.69	-70.23	783.53	157.51	4.99	PASS	
10916.00†	7702.00	2336.47	2832.18	10425.51	7437.00	2337.48	2094.83	-70.23	783.53	162.72	4.83	PASS	
11016.00†	7702.00	2436.47	2832.31	10525.51	7437.00	2437.48	2094.96	-70.23	783.53	167.99	4.68	PASS	
11116.00†	7702.00	2536.47	2832.45	10625.51	7437.00	2537.48	2095.10	-70.23	783.52	173.31	4.54	PASS	
11216.00†	7702.00	2636.47	2832.58	10725.51	7437.00	2637.48	2095.24	-70.23	783.52	178.67	4.40	PASS	
11316.00†	7702.00	2736.47	2832.72	10825.51	7437.00	2737.48	2095.37	-70.23	783.52	184.08	4.27	PASS	
11416.00†	7702.00	2836.47	2832.85	10925.51	7437.00	2837.48	2095.51	-70.23	783.52	189.52	4.15	PASS	
11516.00†	7702.00	2936.47	2832.98	11025.51	7437.00	2937.48	2095.65	-70.23	783.51	195.00	4.03	PASS	
11616.00†	7702.00	3036.47	2833.12	11125.51	7437.00	3037.48	2095.78	-70.23	783.51	200.51	3.92	PASS	
11716.00†	7702.00	3136.47	2833.25	11225.51	7437.00	3137.48	2095.92	-70.23	783.51	206.05	3.81	PASS	
11816.00†	7702.00	3236.47	2833.39	11325.51	7437.00	3237.48	2096.06	-70.23	783.50	211.62	3.71	PASS	
11916.00†	7702.00	3336.47	2833.52	11425.51	7437.00	3337.48	2096.20	-70.23	783.50	217.21	3.62	PASS	
12016.00†	7702.00	3436.47	2833.65	11525.51	7437.00	3437.48	2096.33	-70.23	783.50	222.82	3.52	PASS	
12116.00†	7702.00	3536.47	2833.79	11625.51	7437.00	3537.48	2096.47	-70.23	783.50	228.46	3.44	PASS	
12216.00†	7702.00	3636.47	2833.92	11725.51	7437.00	3637.48	2096.61	-70.23	783.49	234.11	3.35	PASS	
12316.00†	7702.00	3736.47	2834.06	11825.51	7437.00	3737.48	2096.74	-70.23	783.49	239.78	3.27	PASS	
12416.00†	7702.00	3836.47	2834.19	11925.51	7437.00	3837.48	2096.88	-70.23	783.49	245.47	3.20	PASS	
12516.00†	7702.00	3936.47	2834.32	12025.51	7437.00	3937.48	2097.02	-70.23	783.48	251.18	3.13	PASS	
12616.00†	7702.00	4036.47	2834.46	12125.51	7437.00	4037.48	2097.15	-70.23	783.48	256.90	3.06	PASS	
12716.00†	7702.00	4136.47	2834.59	12225.51	7437.00	4137.48	2097.29	-70.23	783.48	262.64	2.99	PASS	
12816.00†	7702.00	4236.47	2834.73	12325.51	7437.00	4237.48	2097.43	-70.23	783.48	268.38	2.92	PASS	
12916.00†	7702.00	4336.47	2834.86	12425.51	7437.00	4337.48	2097.56	-70.23	783.47	274.14	2.86	PASS	
13016.00†	7702.00	4436.47	2834.99	12525.51	7437.00	4437.48	2097.70	-70.23	783.47	279.91	2.80	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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†	7702.00	4536.47	2835.13	12625.51	7437.00	4537.48	2097.84	-70.23	783.47	285.69	2.75	PASS	
13216.00†	7702.00	4636.47	2835.26	12725.51	7437.00	4637.48	2097.98	-70.23	783.46	291.49	2.69	PASS	
13316.00†	7702.00	4736.47	2835.40	12825.51	7437.00	4737.48	2098.11	-70.23	783.46	297.29	2.64	PASS	
13416.00†	7702.00	4836.47	2835.53	12925.51	7437.00	4837.48	2098.25	-70.23	783.46	303.10	2.59	PASS	
13516.00†	7702.00	4936.47	2835.66	13025.51	7437.00	4937.48	2098.39	-70.23	783.46	308.91	2.54	PASS	
13616.00†	7702.00	5036.47	2835.80	13125.51	7437.00	5037.48	2098.52	-70.23	783.45	314.74	2.49	PASS	
13716.00†	7702.00	5136.47	2835.93	13225.51	7437.00	5137.48	2098.66	-70.23	783.45	320.57	2.45	PASS	
13816.00†	7702.00	5236.47	2836.07	13325.51	7437.00	5237.48	2098.80	-70.23	783.45	326.41	2.40	PASS	
13916.00†	7702.00	5336.47	2836.20	13425.51	7437.00	5337.48	2098.93	-70.23	783.44	332.26	2.36	PASS	
14016.00†	7702.00	5436.47	2836.33	13525.51	7437.00	5437.48	2099.07	-70.23	783.44	338.12	2.32	PASS	
14116.00†	7702.00	5536.47	2836.47	13625.51	7437.00	5537.48	2099.21	-70.23	783.44	343.98	2.28	PASS	
14216.00†	7702.00	5636.47	2836.60	13725.51	7437.00	5637.48	2099.35	-70.23	783.44	349.84	2.24	PASS	
14316.00†	7702.00	5736.47	2836.74	13825.51	7437.00	5737.48	2099.48	-70.23	783.43	355.71	2.20	PASS	
14416.00†	7702.00	5836.47	2836.87	13925.51	7437.00	5837.48	2099.62	-70.23	783.43	361.59	2.17	PASS	
14516.00†	7702.00	5936.47	2837.00	14025.51	7437.00	5937.48	2099.76	-70.23	783.43	367.47	2.13	PASS	
14616.00†	7702.00	6036.47	2837.14	14125.51	7437.00	6037.48	2099.89	-70.23	783.42	373.36	2.10	PASS	
14716.00†	7702.00	6136.47	2837.27	14225.51	7437.00	6137.48	2100.03	-70.23	783.42	379.25	2.07	PASS	
14816.00†	7702.00	6236.47	2837.40	14325.51	7437.00	6237.48	2100.17	-70.23	783.42	385.14	2.04	PASS	
14916.00†	7702.00	6336.47	2837.54	14425.51	7437.00	6337.48	2100.30	-70.23	783.42	391.04	2.01	PASS	
15016.00†	7702.00	6436.47	2837.67	14525.51	7437.00	6437.48	2100.44	-70.23	783.41	396.94	1.98	PASS	
15116.00†	7702.00	6536.47	2837.81	14625.51	7437.00	6537.48	2100.58	-70.23	783.41	402.85	1.95	PASS	
15216.00†	7702.00	6636.47	2837.94	14725.51	7437.00	6637.48	2100.72	-70.23	783.41	408.76	1.92	PASS	
15316.00†	7702.00	6736.47	2838.07	14825.51	7437.00	6737.48	2100.85	-70.23	783.40	414.67	1.89	PASS	
15416.00†	7702.00	6836.47	2838.21	14925.51	7437.00	6837.48	2100.99	-70.23	783.40	420.59	1.86	PASS	
15516.00†	7702.00	6936.47	2838.34	15025.51	7437.00	6937.48	2101.13	-70.23	783.40	426.51	1.84	PASS	
15616.00†	7702.00	7036.47	2838.48	15125.51	7437.00	7037.48	2101.26	-70.23	783.40	432.43	1.81	PASS	
15716.00†	7702.00	7136.47	2838.61	15225.51	7437.00	7137.48	2101.40	-70.23	783.39	438.36	1.79	PASS	
15816.00†	7702.00	7236.47	2838.74	15325.51	7437.00	7237.48	2101.54	-70.23	783.39	444.29	1.76	PASS	
15916.00†	7702.00	7336.47	2838.88	15425.51	7437.00	7337.48	2101.67	-70.23	783.39	450.22	1.74	PASS	
16016.00†	7702.00	7436.47	2839.01	15525.51	7437.00	7437.48	2101.81	-70.23	783.38	456.15	1.72	PASS	
16116.00†	7702.00	7536.47	2839.15	15625.51	7437.00	7537.48	2101.95	-70.23	783.38	462.09	1.70	PASS	
16216.00†	7702.00	7636.47	2839.28	15725.51	7437.00	7637.48	2102.09	-70.23	783.38	468.02	1.67	PASS	
16316.00†	7702.00	7736.47	2839.41	15825.51	7437.00	7737.48	2102.22	-70.23	783.38	473.97	1.65	PASS	
16416.00†	7702.00	7836.47	2839.55	15925.51	7437.00	7837.48	2102.36	-70.23	783.37	479.91	1.63	PASS	
16516.00†	7702.00	7936.47	2839.68	16025.51	7437.00	7937.48	2102.50	-70.23	783.37	485.85	1.61	PASS	
16616.00†	7702.00	8036.47	2839.82	16125.51	7437.00	8037.48	2102.63	-70.23	783.37	491.80	1.59	PASS	
16716.00†	7702.00	8136.47	2839.95	16225.51	7437.00	8137.47	2102.77	-70.23	783.36	497.75	1.57	PASS	
16816.00†	7702.00	8236.47	2840.08	16325.51	7437.00	8237.47	2102.91	-70.23	783.36	503.70	1.56	PASS	
16916.00†	7702.00	8336.47	2840.22	16425.51	7437.00	8337.47	2103.04	-70.23	783.36	509.65	1.54	PASS	
17016.00†	7702.00	8436.46	2840.35	16525.51	7437.00	8437.47	2103.18	-70.23	783.36	515.61	1.52	PASS	
17116.00†	7702.00	8536.46	2840.49	16625.51	7437.00	8537.47	2103.32	-70.23	783.35	521.56	1.50	PASS	
17216.00†	7702.00	8636.46	2840.62	16725.51	7437.00	8637.47	2103.45	-70.23	783.35	527.52	1.49	PASS	
17316.00†	7702.00	8736.46	2840.75	16825.51	7437.00	8737.47	2103.59	-70.23	783.35	533.48	1.47	PASS	
17416.00†	7702.00	8836.46	2840.89	16925.51	7437.00	8837.47	2103.73	-70.23	783.34	539.44	1.45	PASS	
17516.00†	7702.00	8936.46	2841.02	17025.51	7437.00	8937.47	2103.87	-70.23	783.34	545.40	1.44	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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†	7702.00	9036.46	2841.16	17125.51	7437.00	9037.47	2104.00	-70.23	783.34	551.37	1.42	PASS	
17716.00†	7702.00	9136.46	2841.29	17225.51	7437.00	9137.47	2104.14	-70.23	783.34	557.33	1.41	PASS	
17816.00†	7702.00	9236.46	2841.42	17325.51	7437.00	9237.47	2104.28	-70.23	783.33	563.30	1.39	PASS	
17916.00†	7702.00	9336.46	2841.56	17425.51	7437.00	9337.47	2104.41	-70.23	783.33	569.27	1.38	PASS	
18016.00†	7702.00	9436.46	2841.69	17525.51	7437.00	9437.47	2104.55	-70.23	783.33	575.24	1.36	PASS	
18116.00†	7702.00	9536.46	2841.83	17625.51	7437.00	9537.47	2104.69	-70.23	783.32	581.21	1.35	PASS	
18216.00†	7702.00	9636.46	2841.96	17725.51	7437.00	9637.47	2104.82	-70.23	783.32	587.18	1.33	PASS	
18279.49†	7702.00	9699.96	2842.04	17789.00	7437.00	9700.96	2104.91	-70.23	783.32	590.97	1.33	PASS	
18284.22	7702.00	9704.68	2842.05	17789.00	7437.00	9700.97	2104.91	-70.23	783.33	590.26	1.33	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 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.17-T01S-R66W Slot: SLOT#02 EX. CASE#1 (990'FNL & 990'FEL, SEC.17, PA, TD8237'MD) Well: CASE#1 Threshold Value=1.00 † = Interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
16.00	16.00	0.00	0.00	-14.00	16.00	9172.37	2351.61	14.38	9469.03	25.57	384.85	PASS	
116.00†	116.00	0.00	0.00	71.47	101.47	9172.42	2351.62	14.38	9469.09	50.13	192.41	PASS	
216.00†	216.00	0.00	0.00	243.63	273.65	9172.00	2351.50	14.38	9468.82	49.97	192.35	PASS	
316.00†	316.00	0.00	0.00	380.55	410.54	9171.18	2350.84	14.38	9468.16	50.00	192.25	PASS	
416.00†	416.00	0.00	0.00	538.51	568.49	9169.36	2349.46	14.37	9466.80	50.04	192.06	PASS	
516.00†	516.00	0.00	0.00	703.95	733.89	9166.63	2347.32	14.36	9464.90	50.10	191.79	PASS	
616.00†	616.00	0.00	0.00	777.69	807.61	9165.28	2346.16	14.36	9462.74	50.15	191.55	PASS	
716.00†	716.00	0.00	0.00	875.76	905.65	9163.63	2344.77	14.35	9460.77	50.21	191.26	PASS	
816.00†	816.00	0.00	0.00	970.08	999.95	9162.07	2343.31	14.35	9458.77	50.29	190.93	PASS	
916.00†	916.00	0.00	0.00	1070.56	1100.41	9160.49	2341.66	14.34	9456.84	50.14	190.64	PASS	
975.00	975.00	0.00	0.00	1124.14	1153.97	9159.61	2340.89	14.34	9455.70	50.18	190.49	PASS	
1016.00†	1016.00	-0.09	0.43	1155.94	1185.76	9159.11	2340.47	-86.87	9454.92	50.20	190.39	PASS	
1116.00†	1115.87	-1.01	5.10	1229.23	1259.04	9158.08	2339.55	-86.95	9452.99	50.26	190.10	PASS	
1216.00†	1215.36	-2.94	14.90	1296.75	1326.55	9157.34	2338.76	-87.05	9451.11	50.34	189.76	PASS	
1316.00†	1314.19	-5.88	29.79	1381.01	1410.80	9156.65	2337.74	-87.19	9449.23	50.45	189.30	PASS	
1416.00†	1412.09	-9.82	49.73	1473.25	1503.04	9156.02	2336.52	-87.37	9447.24	50.60	188.70	PASS	
1516.00†	1508.79	-14.75	74.67	1569.00	1598.77	9155.41	2335.19	-87.59	9445.10	50.80	187.91	PASS	
1616.00†	1604.03	-20.65	104.54	1663.05	1692.81	9154.79	2333.96	-87.83	9442.83	51.08	186.84	PASS	
1716.00†	1697.55	-27.51	139.26	1748.17	1777.92	9154.27	2332.82	-88.09	9440.51	51.45	185.44	PASS	
1793.33	1768.52	-33.46	169.38	1811.63	1841.38	9153.96	2331.95	-88.30	9438.78	51.82	184.06	PASS	
1816.00†	1789.14	-35.28	178.62	1833.77	1863.52	9153.85	2331.65	-88.36	9438.28	51.95	183.59	PASS	
1916.00†	1880.10	-43.33	219.38	1929.72	1959.46	9153.30	2330.54	-88.60	9436.17	52.58	181.33	PASS	
2016.00†	1971.06	-51.39	260.14	2021.25	2050.98	9152.68	2329.74	-88.84	9434.22	53.32	178.75	PASS	
2116.00†	2062.02	-59.44	300.90	2109.76	2139.48	9152.10	2328.96	-89.07	9432.47	54.15	175.94	PASS	
2216.00†	2152.98	-67.49	341.66	2192.60	2222.32	9151.61	2328.18	-89.28	9430.95	55.06	172.98	PASS	
2316.00†	2243.94	-75.54	382.43	2282.20	2311.91	9151.13	2327.31	-89.51	9429.67	56.05	169.86	PASS	
2416.00†	2334.90	-83.59	423.19	2429.73	2459.45	9149.93	2325.58	-89.89	9428.29	57.18	166.45	PASS	
2516.00†	2425.86	-91.64	463.95	2518.82	2548.51	9148.93	2324.49	-90.12	9426.82	58.32	163.14	PASS	
2616.00†	2516.82	-99.70	504.71	2584.90	2614.58	9148.30	2323.71	-90.29	9425.69	59.49	159.88	PASS	
2716.00†	2607.78	-107.75	545.47	2652.52	2682.20	9147.83	2322.88	-90.46	9424.99	60.72	156.62	PASS	
2816.00†	2698.74	-115.80	586.23	2729.29	2758.96	9147.49	2321.91	-90.66	9424.68	61.99	153.37	PASS	
2916.00†	2789.70	-123.85	626.99	2822.62	2852.28	9147.06	2320.83	-90.90	9424.58	63.32	150.11	PASS	
3016.00†	2880.66	-131.90	667.75	2905.49	2935.15	9146.68	2319.99	-91.12	9424.70	64.69	146.92	PASS	
3116.00†	2971.62	-139.95	708.51	2980.75	3010.40	9146.44	2319.20	-91.31	9425.12	66.07	143.82	PASS	
3216.00†	3062.58	-148.00	749.28	3067.37	3097.02	9146.27	2318.30	-91.54	9425.84	67.50	140.77	PASS	
3316.00†	3153.54	-156.06	790.04	3160.89	3190.53	9146.03	2317.58	-91.78	9426.75	68.96	137.78	PASS	
3416.00†	3244.50	-164.11	830.80	3244.68	3274.32	9145.84	2316.79	-91.99	9427.84	70.43	134.88	PASS	
3516.00†	3335.46	-172.16	871.56	3330.63	3360.27	9145.72	2316.19	-92.21	9429.23	71.93	132.07	PASS	
3616.00†	3426.42	-180.21	912.32	3432.16	3461.79	9145.48	2315.38	-92.47	9430.71	73.47	129.30	PASS	
3716.00†	3517.38	-188.26	953.08	3519.62	3549.24	9145.30	2314.58	-92.70	9432.39	75.02	126.64	PASS	
3816.00†	3608.34	-196.31	993.84	3615.41	3645.03	9145.06	2313.71	-92.94	9434.22	76.59	124.05	PASS	
3916.00†	3699.30	-204.37	1034.60	3695.83	3725.45	9144.88	2313.02	-93.15	9436.28	78.15	121.58	PASS	
4016.00†	3790.26	-212.42	1075.36	3825.19	3854.80	9144.32	2311.59	-93.48	9438.27	79.80	119.08	PASS	
4116.00†	3881.22	-220.47	1116.13	3884.54	3914.15	9144.10	2310.91	-93.63	9440.53	81.37	116.79	PASS	
4216.00†	3972.18	-228.52	1156.89	3993.17	4022.77	9143.80	2309.88	-93.91	9443.11	83.01	114.49	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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†	4063.14	-236.57	1197.65	4088.59	4118.19	9143.34	2309.21	-94.16	9445.70	84.67	112.27	PASS	
4416.00†	4154.10	-244.62	1238.41	4213.23	4242.82	9142.41	2308.88	-94.47	9448.29	86.40	110.04	PASS	
4516.00†	4245.06	-252.67	1279.17	4297.76	4327.35	9141.65	2308.82	-94.68	9450.94	88.08	107.95	PASS	
4616.00†	4336.02	-260.73	1319.93	4408.07	4437.65	9140.58	2308.68	-94.96	9453.70	89.82	105.88	PASS	
4716.00†	4426.98	-268.78	1360.69	4499.83	4529.41	9139.57	2308.79	-95.19	9456.56	91.54	103.92	PASS	
4816.00†	4517.94	-276.83	1401.45	4716.48	4746.02	9135.98	2309.70	-95.73	9459.27	93.48	101.77	PASS	
4916.00†	4608.90	-284.88	1442.21	4838.93	4868.43	9132.69	2310.18	-96.03	9461.04	95.28	99.86	PASS	
5016.00†	4699.86	-292.93	1482.98	4936.03	4965.49	9129.98	2310.50	-96.27	9462.91	97.03	98.07	PASS	
5116.00†	4790.82	-300.98	1523.74	5030.17	5059.59	9127.22	2310.89	-96.50	9464.82	98.78	96.34	PASS	
5216.00†	4881.78	-309.04	1564.50	5096.60	5126.00	9125.41	2310.94	-96.66	9467.08	100.49	94.72	PASS	
5316.00†	4972.74	-317.09	1605.26	5158.78	5188.16	9123.90	2310.84	-96.82	9469.77	102.19	93.16	PASS	
5416.00†	5063.70	-325.14	1646.02	5219.64	5249.00	9122.62	2310.72	-96.97	9472.92	103.89	91.65	PASS	
5516.00†	5154.66	-333.19	1686.78	5278.37	5307.73	9121.57	2310.61	-97.12	9476.56	105.58	90.21	PASS	
5616.00†	5245.62	-341.24	1727.54	5344.16	5373.50	9120.62	2310.51	-97.28	9480.66	107.31	88.79	PASS	
5716.00†	5336.58	-349.29	1768.30	5414.25	5443.59	9119.75	2310.42	-97.46	9485.16	109.03	87.42	PASS	
5816.00†	5427.54	-357.35	1809.06	5485.19	5514.52	9119.03	2310.32	-97.64	9490.02	110.76	86.10	PASS	
5916.00†	5518.50	-365.40	1849.83	5547.37	5576.70	9118.55	2310.27	-97.79	9495.30	112.47	84.83	PASS	
6016.00†	5609.46	-373.45	1890.59	5610.81	5640.14	9118.27	2310.32	-97.95	9501.04	114.18	83.60	PASS	
6116.00†	5700.42	-381.50	1931.35	5699.80	5729.13	9117.98	2310.45	-98.17	9507.09	115.95	82.38	PASS	
6216.00†	5791.38	-389.55	1972.11	5808.79	5838.12	9117.54	2310.72	-98.44	9513.23	117.75	81.16	PASS	
6316.00†	5882.33	-397.60	2012.87	5906.96	5936.29	9116.99	2310.99	-98.68	9519.41	119.54	79.99	PASS	
6416.00†	5973.29	-405.65	2053.63	5970.05	5999.38	9116.72	2311.21	-98.83	9525.89	121.23	78.93	PASS	
6516.00†	6064.25	-413.71	2094.39	6024.76	6054.09	9116.65	2311.47	-98.97	9532.83	122.87	77.92	PASS	
6616.00†	6155.21	-421.76	2135.15	6071.83	6101.15	9116.80	2311.69	-99.08	9540.34	124.48	76.97	PASS	
6716.00†	6246.17	-429.81	2175.91	6140.28	6169.61	9117.33	2311.94	-99.25	9548.41	126.08	76.05	PASS	
6816.00†	6337.13	-437.86	2216.68	6307.30	6336.62	9118.15	2312.55	-99.66	9556.49	127.77	75.11	PASS	
6916.00†	6428.09	-445.91	2257.44	6381.31	6410.63	9118.21	2313.23	-99.84	9564.30	129.43	74.20	PASS	
7016.00†	6519.05	-453.96	2298.20	6484.66	6513.97	9118.36	2313.73	-100.09	9572.34	131.11	73.31	PASS	
7116.00†	6610.01	-462.02	2338.96	6582.35	6611.66	9118.37	2313.98	-100.33	9580.42	132.80	72.44	PASS	
7216.00†	6700.97	-470.07	2379.72	6669.93	6699.25	9118.37	2314.52	-100.54	9588.66	134.47	71.59	PASS	
7316.00†	6791.93	-478.12	2420.48	6746.96	6776.28	9118.43	2315.11	-100.72	9597.14	136.13	70.78	PASS	
7416.00†	6882.89	-486.17	2461.24	6858.69	6887.99	9118.64	2316.29	-100.99	9605.91	137.84	69.96	PASS	
7516.00†	6973.85	-494.22	2502.00	6980.05	7009.33	9118.34	2318.45	-101.27	9614.37	139.59	69.14	PASS	
7616.00†	7064.81	-502.27	2542.77	7073.51	7102.78	9118.01	2319.96	-101.49	9622.93	141.30	68.36	PASS	
7695.75	7137.35	-508.69	2575.27	7243.77	7273.01	9116.31	2322.92	-101.89	9629.26	142.88	67.65	PASS	
7716.00†	7155.80	-509.97	2583.54	7256.55	7285.78	9116.14	2323.14	-97.50	9630.50	143.22	67.49	PASS	
7816.00†	7246.85	-505.77	2624.36	7322.67	7351.90	9115.37	2324.07	-75.86	9626.40	145.00	66.63	PASS	
7916.00†	7335.85	-484.32	2664.28	7394.12	7423.34	9114.67	2324.64	-58.47	9605.39	146.98	65.59	PASS	
8016.00†	7420.08	-446.25	2702.09	7495.56	7524.77	9113.69	2325.25	-46.89	9567.93	148.90	64.49	PASS	
8116.00†	7497.00	-392.72	2736.64	7606.16	7635.36	9112.28	2326.13	-39.75	9514.86	150.60	63.41	PASS	
8216.00†	7564.26	-325.37	2766.87	7641.84	7671.03	9111.83	2326.37	-35.38	9448.07	151.86	62.44	PASS	
8316.00†	7619.82	-246.23	2791.88	7671.33	7700.52	9111.54	2326.52	-33.22	9369.68	152.83	61.52	PASS	
8416.00†	7661.99	-157.72	2810.90	7693.74	7722.93	9111.37	2326.60	-33.27	9281.93	153.55	60.66	PASS	
8516.00†	7689.48	-62.52	2823.36	7710.24	7739.44	9111.28	2326.65	-37.35	9187.37	154.02	59.86	PASS	
8616.00†	7701.48	36.48	2828.87	7717.92	7747.11	9111.24	2326.68	-64.53	9088.76	154.28	59.11	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.17-T01S-R66W Slot: SLO#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	
8641.62	7702.00	62.09	2829.13	7718.19	7747.38	9111.24	2326.68	-95.04	9063.20	154.32	58.93	PASS	
8716.00†	7702.00	136.47	2829.23	7717.95	7747.14	9111.24	2326.68	-95.01	8988.94	154.41	58.42	PASS	
8816.00†	7702.00	236.47	2829.37	7717.62	7746.81	9111.24	2326.67	-94.98	8889.11	154.53	57.72	PASS	
8916.00†	7702.00	336.47	2829.50	7717.29	7746.48	9111.24	2326.67	-94.94	8789.28	154.66	57.03	PASS	
9016.00†	7702.00	436.47	2829.64	7716.96	7746.15	9111.24	2326.67	-94.90	8689.45	154.78	56.33	PASS	
9116.00†	7702.00	536.47	2829.77	7716.63	7745.82	9111.24	2326.67	-94.87	8589.63	154.92	55.64	PASS	
9216.00†	7702.00	636.47	2829.90	7716.29	7745.48	9111.25	2326.67	-94.83	8489.81	155.05	54.94	PASS	
9316.00†	7702.00	736.47	2830.04	7715.95	7745.14	9111.25	2326.67	-94.79	8390.00	155.19	54.25	PASS	
9416.00†	7702.00	836.47	2830.17	7715.61	7744.80	9111.25	2326.67	-94.76	8290.19	155.33	53.55	PASS	
9516.00†	7702.00	936.47	2830.31	7715.27	7744.46	9111.25	2326.67	-94.72	8190.39	155.48	52.86	PASS	
9616.00†	7702.00	1036.47	2830.44	7714.92	7744.11	9111.25	2326.67	-94.68	8090.59	155.63	52.16	PASS	
9716.00†	7702.00	1136.47	2830.57	7714.57	7743.76	9111.26	2326.66	-94.64	7990.80	155.79	51.47	PASS	
9816.00†	7702.00	1236.47	2830.71	7714.22	7743.41	9111.26	2326.66	-94.60	7891.01	155.95	50.77	PASS	
9916.00†	7702.00	1336.47	2830.84	7713.86	7743.05	9111.26	2326.66	-94.56	7791.23	156.11	50.08	PASS	
10016.00†	7702.00	1436.47	2830.98	7713.50	7742.69	9111.26	2326.66	-94.52	7691.45	156.28	49.38	PASS	
10116.00†	7702.00	1536.47	2831.11	7713.14	7742.33	9111.26	2326.66	-94.48	7591.68	156.46	48.69	PASS	
10216.00†	7702.00	1636.47	2831.24	7712.78	7741.97	9111.26	2326.66	-94.44	7491.91	156.64	47.99	PASS	
10316.00†	7702.00	1736.47	2831.38	7712.41	7741.60	9111.27	2326.66	-94.40	7392.15	156.82	47.30	PASS	
10416.00†	7702.00	1836.47	2831.51	7712.04	7741.23	9111.27	2326.66	-94.36	7292.40	157.01	46.60	PASS	
10516.00†	7702.00	1936.47	2831.64	7711.67	7740.86	9111.27	2326.66	-94.32	7192.65	157.21	45.91	PASS	
10616.00†	7702.00	2036.47	2831.78	7711.29	7740.48	9111.27	2326.65	-94.28	7092.92	157.41	45.21	PASS	
10716.00†	7702.00	2136.47	2831.91	7710.91	7740.11	9111.27	2326.65	-94.24	6993.18	157.62	44.52	PASS	
10816.00†	7702.00	2236.47	2832.05	7710.53	7739.72	9111.28	2326.65	-94.19	6893.46	157.84	43.82	PASS	
10916.00†	7702.00	2336.47	2832.18	7710.15	7739.34	9111.28	2326.65	-94.15	6793.75	158.06	43.13	PASS	
11016.00†	7702.00	2436.47	2832.31	7709.76	7738.95	9111.28	2326.65	-94.11	6694.04	158.29	42.43	PASS	
11116.00†	7702.00	2536.47	2832.45	7709.37	7738.56	9111.28	2326.65	-94.06	6594.34	158.52	41.74	PASS	
11216.00†	7702.00	2636.47	2832.58	7708.97	7738.16	9111.28	2326.65	-94.02	6494.65	158.77	41.04	PASS	
11316.00†	7702.00	2736.47	2832.72	7708.58	7737.77	9111.29	2326.65	-93.98	6394.97	159.02	40.35	PASS	
11416.00†	7702.00	2836.47	2832.85	7708.18	7737.37	9111.29	2326.65	-93.93	6295.30	159.28	39.66	PASS	
11516.00†	7702.00	2936.47	2832.98	7707.77	7736.96	9111.29	2326.64	-93.89	6195.64	159.55	38.96	PASS	
11616.00†	7702.00	3036.47	2833.12	7707.36	7736.55	9111.29	2326.64	-93.84	6096.00	159.83	38.27	PASS	
11716.00†	7702.00	3136.47	2833.25	7706.95	7736.14	9111.30	2326.64	-93.80	5996.36	160.11	37.57	PASS	
11816.00†	7702.00	3236.47	2833.39	7706.54	7735.73	9111.30	2326.64	-93.75	5896.74	160.41	36.88	PASS	
11916.00†	7702.00	3336.47	2833.52	7706.12	7735.31	9111.30	2326.64	-93.70	5797.13	160.72	36.19	PASS	
12016.00†	7702.00	3436.47	2833.65	7705.70	7734.89	9111.30	2326.64	-93.66	5697.53	161.04	35.50	PASS	
12116.00†	7702.00	3536.47	2833.79	7705.27	7734.46	9111.30	2326.64	-93.61	5597.95	161.37	34.80	PASS	
12216.00†	7702.00	3636.47	2833.92	7704.84	7734.03	9111.31	2326.64	-93.56	5498.38	161.72	34.11	PASS	
12316.00†	7702.00	3736.47	2834.06	7704.41	7733.60	9111.31	2326.63	-93.51	5398.83	162.07	33.42	PASS	
12416.00†	7702.00	3836.47	2834.19	7703.97	7733.16	9111.31	2326.63	-93.47	5299.30	162.44	32.73	PASS	
12516.00†	7702.00	3936.47	2834.32	7703.53	7732.72	9111.31	2326.63	-93.42	5199.78	162.83	32.04	PASS	
12616.00†	7702.00	4036.47	2834.46	7703.09	7732.28	9111.32	2326.63	-93.37	5100.28	163.23	31.35	PASS	
12716.00†	7702.00	4136.47	2834.59	7702.64	7731.83	9111.32	2326.63	-93.32	5000.81	163.65	30.66	PASS	
12816.00†	7702.00	4236.47	2834.73	7702.19	7731.38	9111.32	2326.63	-93.27	4901.35	164.08	29.97	PASS	
12916.00†	7702.00	4336.47	2834.86	7701.73	7730.92	9111.32	2326.63	-93.22	4801.91	164.54	29.28	PASS	
13016.00†	7702.00	4436.47	2834.99	7701.27	7730.46	9111.33	2326.63	-93.17	4702.50	165.01	28.59	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.17-T01S-R66W Slot: SLOT#02 EX. CASE#1 (990'FNL & 990'FEL, SEC.17, PA, TD8237'MD) Well: CASE#1 Threshold Value=1.00 † = Interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
13116.00†	7702.00	4536.47	2835.13	7700.81	7730.00	9111.33	2326.62	-93.11	4603.12	165.50	27.90	PASS	
13216.00†	7702.00	4636.47	2835.28	7700.34	7729.53	9111.33	2326.62	-93.06	4503.76	166.02	27.21	PASS	
13316.00†	7702.00	4736.47	2835.40	7699.88	7729.07	9111.34	2326.62	-93.01	4404.43	166.56	26.53	PASS	
13416.00†	7702.00	4836.47	2835.53	7699.47	7728.66	9111.34	2326.62	-92.97	4305.14	167.12	25.84	PASS	
13516.00†	7702.00	4936.47	2835.66	7699.04	7728.23	9111.34	2326.62	-92.92	4205.87	167.72	25.16	PASS	
13616.00†	7702.00	5036.47	2835.80	7698.62	7727.81	9111.34	2326.62	-92.87	4106.65	168.34	24.47	PASS	
13716.00†	7702.00	5136.47	2835.93	7698.18	7727.38	9111.35	2326.62	-92.82	4007.46	168.99	23.79	PASS	
13816.00†	7702.00	5236.47	2836.07	7697.75	7726.94	9111.35	2326.62	-92.77	3908.31	169.68	23.10	PASS	
13916.00†	7702.00	5336.47	2836.20	7697.30	7726.49	9111.35	2326.61	-92.73	3809.20	170.40	22.42	PASS	
14016.00†	7702.00	5436.47	2836.33	7696.85	7726.04	9111.35	2326.61	-92.68	3710.15	171.17	21.74	PASS	
14116.00†	7702.00	5536.47	2836.47	7696.40	7725.59	9111.36	2326.61	-92.62	3611.14	171.97	21.06	PASS	
14216.00†	7702.00	5636.47	2836.60	7695.93	7725.13	9111.36	2326.61	-92.57	3512.19	172.83	20.38	PASS	
14316.00†	7702.00	5736.47	2836.74	7695.47	7724.66	9111.36	2326.61	-92.52	3413.31	173.73	19.71	PASS	
14416.00†	7702.00	5836.47	2836.87	7694.99	7724.18	9111.37	2326.61	-92.47	3314.49	174.69	19.03	PASS	
14516.00†	7702.00	5936.47	2837.00	7694.51	7723.70	9111.37	2326.61	-92.42	3215.74	175.71	18.35	PASS	
14616.00†	7702.00	6036.47	2837.14	7694.02	7723.21	9111.37	2326.60	-92.36	3117.07	176.79	17.68	PASS	
14716.00†	7702.00	6136.47	2837.27	7693.53	7722.72	9111.37	2326.60	-92.31	3018.49	177.95	17.01	PASS	
14816.00†	7702.00	6236.47	2837.40	7693.03	7722.22	9111.38	2326.60	-92.25	2920.01	179.19	16.34	PASS	
14916.00†	7702.00	6336.47	2837.54	7692.52	7721.71	9111.38	2326.60	-92.19	2821.63	180.52	15.67	PASS	
15016.00†	7702.00	6436.47	2837.67	7692.01	7721.20	9111.38	2326.60	-92.14	2723.37	181.94	15.01	PASS	
15116.00†	7702.00	6536.47	2837.81	7691.48	7720.67	9111.39	2326.60	-92.08	2625.24	183.47	14.35	PASS	
15216.00†	7702.00	6636.47	2837.94	7690.95	7720.14	9111.39	2326.60	-92.02	2527.26	185.12	13.69	PASS	
15316.00†	7702.00	6736.47	2838.07	7690.42	7719.61	9111.39	2326.59	-91.96	2429.45	186.91	13.03	PASS	
15416.00†	7702.00	6836.47	2838.21	7689.87	7719.06	9111.40	2326.59	-91.90	2331.81	188.85	12.38	PASS	
15516.00†	7702.00	6936.47	2838.34	7689.32	7718.51	9111.40	2326.59	-91.84	2234.39	190.96	11.73	PASS	
15616.00†	7702.00	7036.47	2838.48	7688.76	7717.95	9111.41	2326.59	-91.78	2137.21	193.26	11.09	PASS	
15716.00†	7702.00	7136.47	2838.61	7688.19	7717.38	9111.41	2326.59	-91.71	2040.30	195.78	10.45	PASS	
15816.00†	7702.00	7236.47	2838.74	7687.61	7716.80	9111.41	2326.58	-91.65	1943.70	198.56	9.81	PASS	
15916.00†	7702.00	7336.47	2838.88	7687.02	7716.21	9111.42	2326.58	-91.58	1847.46	201.62	9.19	PASS	
16016.00†	7702.00	7436.47	2839.01	7686.42	7715.61	9111.42	2326.58	-91.52	1751.64	205.00	8.56	PASS	
16116.00†	7702.00	7536.47	2839.15	7685.82	7715.01	9111.43	2326.58	-91.45	1656.32	208.77	7.95	PASS	
16216.00†	7702.00	7636.47	2839.28	7685.20	7714.40	9111.43	2326.58	-91.38	1561.58	212.98	7.35	PASS	
16316.00†	7702.00	7736.47	2839.41	7684.58	7713.77	9111.44	2326.57	-91.31	1467.54	217.71	6.76	PASS	
16416.00†	7702.00	7836.47	2839.55	7683.95	7713.14	9111.44	2326.57	-91.24	1374.35	223.03	6.17	PASS	
16516.00†	7702.00	7936.47	2839.68	7683.30	7712.49	9111.44	2326.57	-91.17	1282.17	229.05	5.61	PASS	
16616.00†	7702.00	8036.47	2839.82	7682.65	7711.84	9111.45	2326.57	-91.10	1191.27	235.90	5.06	PASS	
16716.00†	7702.00	8136.47	2839.95	7681.99	7711.18	9111.45	2326.56	-91.02	1101.93	243.70	4.53	PASS	
16816.00†	7702.00	8236.47	2840.08	7681.31	7710.50	9111.46	2326.56	-90.95	1014.59	252.60	4.02	PASS	
16916.00†	7702.00	8336.47	2840.22	7680.62	7709.82	9111.46	2326.56	-90.87	929.80	262.74	3.54	PASS	
17016.00†	7702.00	8436.46	2840.35	7679.93	7709.12	9111.47	2326.56	-90.79	848.33	274.21	3.10	PASS	
17116.00†	7702.00	8536.46	2840.49	7679.22	7708.41	9111.48	2326.55	-90.71	771.24	286.99	2.69	PASS	
17216.00†	7702.00	8636.46	2840.62	7678.50	7707.69	9111.48	2326.55	-90.63	699.96	300.77	2.33	PASS	
17316.00†	7702.00	8736.46	2840.75	7677.77	7706.96	9111.49	2326.55	-90.55	636.45	314.71	2.02	PASS	
17416.00†	7702.00	8836.46	2840.89	7677.02	7706.21	9111.49	2326.54	-90.47	583.27	327.13	1.78	PASS	
17516.00†	7702.00	8936.46	2841.02	7676.26	7705.45	9111.50	2326.54	-90.38	543.45	335.27	1.62	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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	
17616.00†	7702.00	9036.46	2841.16	7675.49	7704.68	9111.50	2326.54	-90.30	520.07	335.86	1.55	PASS	
17638.80†	7702.00	9059.27	2841.19	7675.31	7704.51	9111.51	2326.54	-90.28	517.30	334.66	1.55	PASS	
17691.00†	7702.00	9111.46	2841.26	7675.00	7704.19	9111.51	2326.54	-90.24	514.72	329.90	1.56	PASS	
17716.00†	7702.00	9136.46	2841.29	7674.71	7703.90	9111.51	2326.54	-90.21	515.36	326.65	1.58	PASS	
17816.00†	7702.00	9236.46	2841.42	7673.91	7703.10	9111.52	2326.53	-90.12	529.84	308.19	1.72	PASS	
17916.00†	7702.00	9336.46	2841.56	7673.10	7702.29	9111.52	2326.53	-90.03	562.01	283.83	1.98	PASS	
18016.00†	7702.00	9436.46	2841.69	7672.27	7701.46	9111.53	2326.53	-89.94	609.08	257.71	2.37	PASS	
18116.00†	7702.00	9536.46	2841.83	7671.43	7700.62	9111.54	2326.52	-89.85	667.91	232.98	2.87	PASS	
18216.00†	7702.00	9636.46	2841.96	7670.57	7699.76	9111.55	2326.52	-89.75	735.68	211.25	3.49	PASS	
18284.22	7702.00	9704.68	2842.05	7669.98	7699.17	9111.55	2326.52	-89.69	785.87	198.42	3.97	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

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

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	113.00	113.00	14.00	127.00	5591.54	1433.27	5591.58	1433.28
8.625in Casing Surface	0.00	113.00	113.00	14.00	127.00	5591.54	1433.27	5591.58	1433.28
7.875in Open Hole	113.00	8237.00	8124.00	127.00	8250.10	5591.58	1433.28	5573.98	1426.16
4.5in Casing Production	0.00	8237.00	8237.00	14.00	8250.10	5591.54	1433.27	5573.98	1426.16

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

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

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

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



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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	-58.88	-90.00	58.88	1.56	96.53	PASS
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	-58.88	-90.00	58.88	1.89	62.23	PASS
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-58.88	-90.00	58.88	2.47	38.41	PASS
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-58.88	-90.00	58.88	3.08	27.39	PASS
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	-58.88	-90.00	58.88	3.69	21.21	PASS
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	-58.88	-90.00	58.88	4.32	17.28	PASS
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	-58.88	-90.00	58.88	4.94	14.57	PASS
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	-58.88	-90.00	58.88	5.56	12.59	PASS
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	-58.88	-90.00	58.88	6.19	11.09	PASS
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	-58.88	-90.00	58.88	6.26	10.48	PASS
975.00	975.00	0.00	0.00	975.00	975.00	0.00	-58.88	-90.00	58.88	6.33	10.35	PASS
1016.00†	1016.00	-0.09	0.43	1016.00	1016.00	0.00	-58.88	168.91	59.31	6.41	10.28	PASS
1116.00†	1115.87	-1.01	5.10	1115.87	1115.87	0.00	-58.88	169.70	63.99	7.08	9.93	PASS
1216.00†	1215.36	-2.94	14.90	1216.93	1216.92	-0.13	-58.44	170.98	73.41	8.40	9.45	PASS
1316.00†	1314.19	-5.88	29.79	1320.53	1320.38	-1.58	-53.57	171.76	83.70	9.95	8.98	PASS
1416.00†	1412.09	-9.82	49.73	1424.72	1424.01	-4.65	-43.26	172.04	93.89	11.81	8.39	PASS
1516.00†	1508.79	-14.75	74.67	1529.49	1527.46	-9.35	-27.44	171.95	103.94	13.58	8.02	PASS
1616.00†	1604.03	-20.65	104.54	1634.84	1630.41	-15.70	-6.07	171.58	113.83	15.20	7.81	PASS
1716.00†	1697.55	-27.51	139.26	1740.76	1732.52	-23.71	20.86	171.01	123.52	16.72	7.67	PASS
1793.33	1768.52	-33.46	169.38	1822.08	1809.79	-30.93	45.15	170.46	130.93	17.77	7.63	PASS
1816.00†	1789.14	-35.28	178.62	1844.63	1831.11	-33.02	52.19	170.32	133.24	17.97	7.68	PASS
1916.00†	1880.10	-43.33	219.38	1944.10	1925.16	-42.25	83.24	169.78	143.41	18.80	7.89	PASS
2016.00†	1971.06	-51.39	260.14	2043.57	2019.20	-51.48	114.29	169.30	153.59	19.85	7.99	PASS
2116.00†	2062.02	-59.44	300.90	2143.05	2113.25	-60.71	145.34	168.89	163.79	20.71	8.15	PASS
2216.00†	2152.98	-67.49	341.66	2242.52	2207.30	-69.94	176.39	168.52	173.99	21.78	8.22	PASS
2316.00†	2243.94	-75.54	382.43	2341.99	2301.35	-79.18	207.44	168.20	184.20	22.90	8.27	PASS
2416.00†	2334.90	-83.59	423.19	2441.46	2395.40	-88.41	238.49	167.91	194.41	24.08	8.29	PASS
2516.00†	2425.86	-91.64	463.95	2540.94	2489.45	-97.64	269.55	167.65	204.63	25.30	8.29	PASS
2616.00†	2516.82	-99.70	504.71	2640.41	2583.50	-106.87	300.60	167.41	214.85	26.56	8.28	PASS
2716.00†	2607.78	-107.75	545.47	2739.88	2677.55	-116.10	331.65	167.19	225.07	27.85	8.27	PASS
2816.00†	2698.74	-115.80	586.23	2839.35	2771.60	-125.33	362.70	167.00	235.30	29.17	8.24	PASS
2916.00†	2789.70	-123.85	626.99	2938.83	2865.65	-134.56	393.75	166.82	245.53	30.52	8.21	PASS
3016.00†	2880.66	-131.90	667.75	3038.30	2959.70	-143.80	424.80	166.65	255.76	31.89	8.18	PASS
3116.00†	2971.62	-139.95	708.51	3137.77	3053.75	-153.03	455.86	166.50	266.00	33.29	8.14	PASS
3216.00†	3062.58	-148.00	749.28	3237.24	3147.80	-162.26	486.91	166.35	276.23	34.69	8.11	PASS
3316.00†	3153.54	-156.06	790.04	3336.72	3241.85	-171.49	517.96	166.22	286.47	36.12	8.07	PASS
3416.00†	3244.50	-164.11	830.80	3436.19	3335.90	-180.72	549.01	166.10	296.71	37.56	8.03	PASS
3516.00†	3335.46	-172.16	871.56	3535.66	3429.95	-189.95	580.06	165.99	306.95	39.01	8.00	PASS
3616.00†	3426.42	-180.21	912.32	3635.13	3524.00	-199.18	611.11	165.88	317.19	40.47	7.96	PASS
3716.00†	3517.38	-188.26	953.08	3734.61	3618.05	-208.41	642.16	165.78	327.43	41.95	7.92	PASS
3816.00†	3608.34	-196.31	993.84	3834.08	3712.10	-217.65	673.22	165.68	337.67	43.43	7.89	PASS
3916.00†	3699.30	-204.37	1034.60	3933.55	3806.15	-226.88	704.27	165.60	347.92	44.92	7.85	PASS
4016.00†	3790.26	-212.42	1075.36	4033.02	3900.20	-236.11	735.32	165.51	358.16	46.42	7.82	PASS
4116.00†	3881.22	-220.47	1116.13	4132.50	3994.25	-245.34	766.37	165.43	368.41	47.92	7.79	PASS
4216.00†	3972.18	-228.52	1156.89	4231.97	4088.30	-254.57	797.42	165.36	378.65	49.43	7.76	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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†	4063.14	-236.57	1197.65	4331.44	4182.35	-263.80	828.47	165.29	388.90	50.95	7.73	PASS
4416.00†	4154.10	-244.62	1238.41	4430.91	4276.40	-273.03	859.52	165.22	399.15	52.47	7.70	PASS
4516.00†	4245.06	-252.67	1279.17	4530.39	4370.45	-282.27	890.58	165.16	409.39	53.99	7.67	PASS
4616.00†	4336.02	-260.73	1319.93	4629.86	4464.50	-291.50	921.63	165.10	419.64	55.52	7.64	PASS
4716.00†	4426.98	-268.78	1360.69	4729.33	4558.55	-300.73	952.68	165.04	429.89	57.06	7.62	PASS
4816.00†	4517.94	-276.83	1401.45	4828.80	4652.60	-309.96	983.73	164.98	440.14	58.59	7.59	PASS
4916.00†	4608.90	-284.88	1442.21	4928.28	4746.65	-319.19	1014.78	164.93	450.39	60.13	7.57	PASS
5016.00†	4699.86	-292.93	1482.98	5027.75	4840.70	-328.42	1045.83	164.88	460.64	61.68	7.54	PASS
5116.00†	4790.82	-300.98	1523.74	5127.22	4934.75	-337.65	1076.89	164.83	470.89	63.23	7.52	PASS
5216.00†	4881.78	-309.04	1564.50	5226.69	5028.80	-346.89	1107.94	164.79	481.14	64.78	7.50	PASS
5316.00†	4972.74	-317.09	1605.26	5326.17	5122.85	-356.12	1138.99	164.74	491.39	66.33	7.48	PASS
5416.00†	5063.70	-325.14	1646.02	5425.64	5216.90	-365.35	1170.04	164.70	501.64	67.88	7.46	PASS
5516.00†	5154.66	-333.19	1686.78	5525.11	5310.95	-374.58	1201.09	164.66	511.89	69.44	7.44	PASS
5616.00†	5245.62	-341.24	1727.54	5624.58	5405.00	-383.81	1232.14	164.62	522.15	71.00	7.42	PASS
5716.00†	5336.58	-349.29	1768.30	5724.06	5499.05	-393.04	1263.19	164.58	532.40	72.56	7.40	PASS
5816.00†	5427.54	-357.35	1809.06	5823.53	5593.10	-402.27	1294.25	164.55	542.65	74.12	7.38	PASS
5916.00†	5518.50	-365.40	1849.83	5923.00	5687.15	-411.50	1325.30	164.51	552.90	75.69	7.36	PASS
6016.00†	5609.46	-373.45	1890.59	6022.47	5781.20	-420.74	1356.35	164.48	563.15	77.25	7.35	PASS
6116.00†	5700.42	-381.50	1931.35	6121.95	5875.25	-429.97	1387.40	164.45	573.41	78.82	7.33	PASS
6216.00†	5791.38	-389.55	1972.11	6221.42	5969.30	-439.20	1418.45	164.41	583.66	80.39	7.32	PASS
6316.00†	5882.33	-397.60	2012.87	6320.89	6063.35	-448.43	1449.50	164.38	593.91	81.96	7.30	PASS
6416.00†	5973.29	-405.65	2053.63	6420.36	6157.40	-457.66	1480.56	164.35	604.16	83.53	7.29	PASS
6516.00†	6064.25	-413.71	2094.39	6519.84	6251.45	-466.89	1511.61	164.33	614.42	85.11	7.27	PASS
6616.00†	6155.21	-421.76	2135.15	6619.31	6345.50	-476.12	1542.66	164.30	624.67	86.68	7.26	PASS
6716.00†	6246.17	-429.81	2175.91	6718.78	6439.55	-485.36	1573.71	164.27	634.92	88.26	7.24	PASS
6816.00†	6337.13	-437.86	2216.68	6818.25	6533.60	-494.59	1604.76	164.25	645.18	89.83	7.23	PASS
6916.00†	6428.09	-445.91	2257.44	6917.73	6627.65	-503.82	1635.81	164.22	655.43	91.41	7.22	PASS
7016.00†	6519.05	-453.96	2298.20	7023.09	6727.43	-510.70	1668.76	164.45	665.45	92.69	7.23	PASS
7116.00†	6610.01	-462.02	2338.96	7130.14	6828.40	-499.89	1702.13	166.17	674.30	91.87	7.39	PASS
7216.00†	6700.97	-470.07	2379.72	7227.06	6916.75	-473.22	1731.35	169.09	683.34	89.67	7.67	PASS
7316.00†	6791.93	-478.12	2420.48	7310.61	6988.57	-437.91	1755.12	172.53	694.98	87.42	8.01	PASS
7416.00†	6882.89	-486.17	2461.24	7380.57	7044.42	-400.14	1773.62	175.98	711.56	85.88	8.35	PASS
7516.00†	6973.85	-494.22	2502.00	7438.39	7087.00	-363.70	1787.73	179.16	734.86	85.15	8.69	PASS
7616.00†	7064.81	-502.27	2542.77	7486.05	7119.34	-330.39	1798.46	-178.05	765.84	84.85	9.09	PASS
7695.75	7137.35	-508.69	2575.27	7518.10	7139.55	-306.45	1805.16	-176.11	796.22	84.69	9.47	PASS
7716.00†	7155.80	-509.97	2583.54	7525.70	7144.15	-300.59	1806.69	-170.34	804.65	84.63	9.58	PASS
7816.00†	7246.85	-505.77	2624.36	7564.45	7166.46	-269.80	1814.10	-141.91	847.73	84.22	10.14	PASS
7916.00†	7335.85	-484.32	2664.28	7604.80	7187.54	-236.12	1821.11	-118.07	891.36	83.53	10.75	PASS
8016.00†	7420.08	-446.25	2702.09	7646.34	7206.82	-199.91	1827.53	-100.63	933.28	82.41	11.41	PASS
8116.00†	7497.00	-392.72	2736.64	7688.75	7223.89	-161.51	1833.22	-88.31	971.70	80.93	12.10	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

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

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



Clearance Report
BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

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	-35.89	0.00	-35.89
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	-35.89	0.00	-35.89
8.5in Open Hole	882.00	17558.00	16676.00	882.00	N/A	0.00	-35.89	N/A	N/A

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

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

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

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



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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	-72.90	-90.00	72.90	1.56	119.90	PASS	
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	-72.90	-90.00	72.90	1.89	77.31	PASS	
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-72.90	-90.00	72.90	2.47	47.72	PASS	
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-72.90	-90.00	72.90	3.08	34.03	PASS	
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	-72.90	-90.00	72.90	3.69	26.35	PASS	
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	-72.90	-90.00	72.90	4.31	21.47	PASS	
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	-72.90	-90.00	72.90	4.94	18.10	PASS	
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	-72.90	-90.00	72.90	5.56	15.64	PASS	
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	-72.90	-90.00	72.90	6.19	13.77	PASS	
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	-72.90	-90.00	72.90	6.26	13.01	PASS	
975.00	975.00	0.00	0.00	975.00	975.00	0.00	-72.90	-90.00	72.90	6.33	12.84	PASS	
1016.00†	1016.00	-0.09	0.43	1016.00	1016.00	0.00	-72.90	168.89	73.33	6.41	12.74	PASS	
1116.00†	1115.87	-1.01	5.10	1115.87	1115.87	0.00	-72.90	169.54	78.01	7.08	12.13	PASS	
1216.00†	1215.36	-2.94	14.90	1215.36	1215.36	0.00	-72.90	170.67	87.85	8.39	11.35	PASS	
1316.00†	1314.19	-5.88	29.79	1319.00	1318.96	-0.74	-70.71	171.70	100.74	9.78	11.02	PASS	
1416.00†	1412.09	-9.82	49.73	1423.84	1423.48	-3.30	-63.10	172.11	113.59	11.59	10.37	PASS	
1516.00†	1508.79	-14.75	74.67	1529.43	1528.14	-7.72	-49.95	172.09	126.31	13.38	9.92	PASS	
1616.00†	1604.03	-20.65	104.54	1635.76	1632.60	-14.03	-31.20	171.73	138.87	15.02	9.65	PASS	
1716.00†	1697.55	-27.51	139.26	1742.81	1736.49	-22.24	-6.78	171.13	151.23	16.54	9.51	PASS	
1793.33	1768.52	-33.46	169.38	1822.32	1812.77	-29.39	14.48	170.61	161.15	17.47	9.57	PASS	
1816.00†	1789.14	-35.28	178.62	1844.75	1834.26	-31.44	20.56	170.50	164.42	17.67	9.65	PASS	
1916.00†	1880.10	-43.33	219.38	1943.70	1929.07	-40.47	47.41	170.07	178.83	18.49	10.02	PASS	
2016.00†	1971.06	-51.39	260.14	2042.65	2023.88	-49.51	74.26	169.71	193.25	19.44	10.28	PASS	
2116.00†	2062.02	-59.44	300.90	2141.60	2118.68	-58.54	101.11	169.39	207.68	20.37	10.53	PASS	
2216.00†	2152.98	-67.49	341.66	2240.54	2213.49	-67.57	127.95	169.12	222.11	21.40	10.70	PASS	
2316.00†	2243.94	-75.54	382.43	2339.49	2308.30	-76.60	154.80	168.88	236.55	22.48	10.83	PASS	
2416.00†	2334.90	-83.59	423.19	2438.44	2403.10	-85.63	181.65	168.67	250.99	23.61	10.93	PASS	
2516.00†	2425.86	-91.64	463.95	2537.39	2497.91	-94.66	208.49	168.48	265.44	24.78	11.00	PASS	
2616.00†	2516.82	-99.70	504.71	2636.33	2592.72	-103.70	235.34	168.31	279.88	25.99	11.04	PASS	
2716.00†	2607.78	-107.75	545.47	2735.28	2687.52	-112.73	262.19	168.16	294.33	27.22	11.07	PASS	
2816.00†	2698.74	-115.80	586.23	2834.23	2782.33	-121.76	289.04	168.02	308.78	28.48	11.09	PASS	
2916.00†	2789.70	-123.85	626.99	2933.18	2877.14	-130.79	315.88	167.89	323.24	29.76	11.10	PASS	
3016.00†	2880.66	-131.90	667.75	3032.13	2971.94	-139.82	342.73	167.78	337.69	31.06	11.10	PASS	
3116.00†	2971.62	-139.95	708.51	3131.07	3066.75	-148.85	369.58	167.67	352.14	32.38	11.10	PASS	
3216.00†	3062.58	-148.00	749.28	3230.02	3161.56	-157.89	396.43	167.57	366.60	33.72	11.08	PASS	
3316.00†	3153.54	-156.06	790.04	3328.97	3256.36	-166.92	423.27	167.48	381.06	35.06	11.07	PASS	
3416.00†	3244.50	-164.11	830.80	3427.92	3351.17	-175.95	450.12	167.40	395.52	36.42	11.05	PASS	
3516.00†	3335.46	-172.16	871.56	3526.86	3445.98	-184.98	476.97	167.32	409.98	37.79	11.04	PASS	
3616.00†	3426.42	-180.21	912.32	3625.81	3540.78	-194.01	503.82	167.25	424.43	39.17	11.02	PASS	
3716.00†	3517.38	-188.26	953.08	3724.76	3635.59	-203.04	530.66	167.18	438.90	40.56	10.99	PASS	
3816.00†	3608.34	-196.31	993.84	3823.71	3730.40	-212.08	557.51	167.12	453.36	41.96	10.97	PASS	
3916.00†	3699.30	-204.37	1034.60	3922.65	3825.20	-221.11	584.36	167.06	467.82	43.36	10.95	PASS	
4016.00†	3790.26	-212.42	1075.36	4021.60	3920.01	-230.14	611.21	167.00	482.28	44.77	10.93	PASS	
4116.00†	3881.22	-220.47	1116.13	4120.55	4014.82	-239.17	638.05	166.95	496.74	46.19	10.91	PASS	
4216.00†	3972.18	-228.52	1156.89	4219.50	4109.62	-248.20	664.90	166.90	511.20	47.61	10.88	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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†	4063.14	-236.57	1197.65	4318.45	4204.43	-257.23	691.75	166.85	525.67	49.04	10.86	PASS	
4416.00†	4154.10	-244.62	1238.41	4417.39	4299.24	-266.27	718.60	166.81	540.13	50.47	10.84	PASS	
4516.00†	4245.06	-252.67	1279.17	4516.34	4394.04	-275.30	745.44	166.77	554.59	51.90	10.82	PASS	
4616.00†	4336.02	-260.73	1319.93	4615.29	4488.85	-284.33	772.29	166.73	569.06	53.34	10.80	PASS	
4716.00†	4426.98	-268.78	1360.69	4714.24	4583.66	-293.36	799.14	166.69	583.52	54.78	10.78	PASS	
4816.00†	4517.94	-276.83	1401.45	4813.18	4678.46	-302.39	825.99	166.65	597.98	56.22	10.76	PASS	
4916.00†	4608.90	-284.88	1442.21	4912.13	4773.27	-311.42	852.83	166.62	612.45	57.67	10.74	PASS	
5016.00†	4699.86	-292.93	1482.98	5011.08	4868.08	-320.46	879.68	166.59	626.91	59.12	10.72	PASS	
5116.00†	4790.82	-300.98	1523.74	5110.03	4962.88	-329.49	906.53	166.55	641.38	60.58	10.70	PASS	
5216.00†	4881.78	-309.04	1564.50	5208.97	5057.69	-338.52	933.38	166.52	655.84	62.03	10.68	PASS	
5316.00†	4972.74	-317.09	1605.26	5307.92	5152.50	-347.55	960.22	166.50	670.31	63.49	10.67	PASS	
5416.00†	5063.70	-325.14	1646.02	5406.87	5247.30	-356.58	987.07	166.47	684.77	64.95	10.65	PASS	
5516.00†	5154.66	-333.19	1686.78	5505.82	5342.11	-365.61	1013.92	166.44	699.24	66.41	10.63	PASS	
5616.00†	5245.62	-341.24	1727.54	5604.77	5436.92	-374.64	1040.76	166.42	713.71	67.87	10.62	PASS	
5716.00†	5336.58	-349.29	1768.30	5703.71	5531.72	-383.68	1067.61	166.39	728.17	69.34	10.60	PASS	
5816.00†	5427.54	-357.35	1809.06	5802.66	5626.53	-392.71	1094.46	166.37	742.64	70.80	10.58	PASS	
5916.00†	5518.50	-365.40	1849.83	5901.61	5721.34	-401.74	1121.31	166.35	757.10	72.27	10.57	PASS	
6016.00†	5609.46	-373.45	1890.59	6000.56	5816.14	-410.77	1148.15	166.33	771.57	73.74	10.55	PASS	
6116.00†	5700.42	-381.50	1931.35	6099.50	5910.95	-419.80	1175.00	166.30	786.04	75.21	10.54	PASS	
6216.00†	5791.38	-389.55	1972.11	6198.45	6005.76	-428.83	1201.85	166.28	800.50	76.68	10.53	PASS	
6316.00†	5882.33	-397.60	2012.87	6297.40	6100.56	-437.87	1228.70	166.27	814.97	78.16	10.51	PASS	
6416.00†	5973.29	-405.65	2053.63	6396.35	6195.37	-446.90	1255.54	166.25	829.43	79.63	10.50	PASS	
6516.00†	6064.25	-413.71	2094.39	6495.30	6290.18	-455.93	1282.39	166.23	843.90	81.11	10.49	PASS	
6616.00†	6155.21	-421.76	2135.15	6594.24	6384.98	-464.96	1309.24	166.21	858.37	82.58	10.48	PASS	
6716.00†	6246.17	-429.81	2175.91	6693.19	6479.79	-473.99	1336.09	166.19	872.83	84.06	10.46	PASS	
6816.00†	6337.13	-437.86	2216.68	6792.14	6574.60	-483.02	1362.93	166.18	887.30	85.54	10.45	PASS	
6916.00†	6428.09	-445.91	2257.44	6891.09	6669.40	-492.06	1389.78	166.16	901.77	87.02	10.44	PASS	
7016.00†	6519.05	-453.96	2298.20	6990.03	6764.21	-501.09	1416.63	166.15	916.24	88.50	10.43	PASS	
7116.00†	6610.01	-462.02	2338.96	7090.79	6860.78	-509.90	1443.98	166.16	930.68	89.96	10.42	PASS	
7216.00†	6700.97	-470.07	2379.72	7197.22	6962.95	-505.85	1472.93	166.98	944.56	90.41	10.52	PASS	
7316.00†	6791.93	-478.12	2420.48	7295.84	7055.49	-484.64	1499.17	168.76	958.28	89.65	10.77	PASS	
7416.00†	6882.89	-486.17	2461.24	7382.49	7132.87	-452.63	1521.14	171.06	973.35	88.40	11.09	PASS	
7516.00†	6973.85	-494.22	2502.00	7456.03	7194.27	-416.21	1538.59	173.49	991.38	87.24	11.45	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft

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

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



Clearance Report
BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

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	-44.44	0.00	-44.44
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	-44.44	0.00	-44.44
8.5in Open Hole	882.00	17661.00	16779.00	882.00	N/A	0.00	-44.44	N/A	N/A

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

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

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

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



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NCH Threshold Value=1.00 † = interpolated/extrapolated station													
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status	
16.00	16.00	0.00	0.00	16.00	16.00	0.00	-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	
975.00	975.00	0.00	0.00	975.00	975.00	0.00	-89.72	-90.00	89.72	6.33	15.85	PASS	
1016.00	1016.00	-0.09	0.43	1016.00	1016.00	0.00	-89.72	168.88	90.16	6.40	15.71	PASS	
1116.00†	1115.87	-1.01	5.10	1115.87	1115.87	0.00	-89.72	169.41	94.83	7.07	14.80	PASS	
1216.00†	1215.36	-2.94	14.90	1215.36	1215.36	0.00	-89.72	170.36	104.66	8.37	13.57	PASS	
1316.00†	1314.19	-5.88	29.79	1316.66	1316.66	-0.16	-89.30	171.47	119.25	9.60	13.33	PASS	
1416.00†	1412.09	-9.82	49.73	1422.11	1421.96	-2.05	-84.45	172.07	134.76	11.09	12.91	PASS	
1516.00†	1508.79	-14.75	74.67	1528.46	1527.72	-6.09	-74.07	172.13	150.19	12.86	12.30	PASS	
1616.00†	1604.03	-20.65	104.54	1635.72	1633.58	-12.31	-58.07	171.80	165.48	14.63	11.84	PASS	
1716.00†	1697.55	-27.51	139.26	1743.87	1739.17	-20.75	-36.35	171.17	180.61	16.19	11.62	PASS	
1793.33	1768.52	-33.46	169.38	1821.52	1814.36	-27.79	-18.26	170.67	193.24	17.05	11.78	PASS	
1816.00†	1789.14	-35.28	178.62	1843.80	1835.93	-29.81	-13.05	170.58	197.37	17.25	11.89	PASS	
1916.00†	1880.10	-43.33	219.38	1942.12	1931.10	-38.74	9.93	170.20	215.62	18.07	12.38	PASS	
2016.00†	1971.06	-51.39	260.14	2040.43	2026.27	-47.68	32.91	169.88	233.88	18.96	12.77	PASS	
2116.00†	2062.02	-59.44	300.90	2138.74	2121.44	-56.61	55.88	169.61	252.14	19.99	13.04	PASS	
2216.00†	2152.98	-67.49	341.66	2237.05	2216.61	-65.55	78.86	169.37	270.40	20.93	13.34	PASS	
2316.00†	2243.94	-75.54	382.43	2335.36	2311.78	-74.48	101.84	169.17	288.67	21.99	13.53	PASS	
2416.00†	2334.90	-83.59	423.19	2433.68	2406.95	-83.41	124.82	168.99	306.95	23.10	13.68	PASS	
2516.00†	2425.86	-91.64	463.95	2531.99	2502.12	-92.35	147.80	168.83	325.22	24.24	13.79	PASS	
2616.00†	2516.82	-99.70	504.71	2630.30	2597.29	-101.28	170.77	168.68	343.50	25.41	13.88	PASS	
2716.00†	2607.78	-107.75	545.47	2728.61	2692.47	-110.22	193.75	168.56	361.78	26.60	13.94	PASS	
2816.00†	2698.74	-115.80	586.23	2826.92	2787.64	-119.15	216.73	168.44	380.06	27.82	13.99	PASS	
2916.00†	2789.70	-123.85	626.99	2925.24	2882.81	-128.08	239.71	168.33	398.34	29.07	14.02	PASS	
3016.00†	2880.66	-131.90	667.75	3023.55	2977.98	-137.02	262.69	168.24	416.63	30.32	14.04	PASS	
3116.00†	2971.62	-139.95	708.51	3121.86	3073.15	-145.95	285.66	168.15	434.91	31.60	14.06	PASS	
3216.00†	3062.58	-148.00	749.28	3220.17	3168.32	-154.88	308.64	168.07	453.20	32.89	14.06	PASS	
3316.00†	3153.54	-156.06	790.04	3318.48	3263.49	-163.82	331.62	167.99	471.48	34.19	14.06	PASS	
3416.00†	3244.50	-164.11	830.80	3416.80	3358.66	-172.75	354.60	167.92	489.77	35.50	14.06	PASS	
3516.00†	3335.46	-172.16	871.56	3515.11	3453.83	-181.69	377.58	167.86	508.06	36.83	14.05	PASS	
3616.00†	3426.42	-180.21	912.32	3613.42	3549.00	-190.62	400.55	167.80	526.35	38.16	14.04	PASS	
3716.00†	3517.38	-188.26	953.08	3711.73	3644.17	-199.55	423.53	167.74	544.63	39.50	14.02	PASS	
3816.00†	3608.34	-196.31	993.84	3810.04	3739.34	-208.49	446.51	167.69	562.92	40.84	14.01	PASS	
3916.00†	3699.30	-204.37	1034.60	3908.36	3834.51	-217.42	469.49	167.64	581.21	42.19	13.99	PASS	
4016.00†	3790.26	-212.42	1075.36	4006.67	3929.68	-226.35	492.47	167.59	599.50	43.55	13.98	PASS	
4116.00†	3881.22	-220.47	1116.13	4104.98	4024.85	-235.29	515.44	167.55	617.80	44.92	13.96	PASS	
4216.00†	3972.18	-228.52	1156.89	4203.29	4120.03	-244.22	538.42	167.51	636.09	46.28	13.94	PASS	

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.20-T01S-R66W Slot: SLOT#02 BRIGHTON LAKES 20-17-1NCH (400'FSL & 1889'FWL, SEC.20) Well: BRIGHTON LAKES 20-17-1NCH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
4316.00†	4063.14	-236.57	1197.65	4301.60	4215.20	-253.16	561.40	167.47	654.38	47.66	13.92	PASS
4416.00†	4154.10	-244.62	1238.41	4399.92	4310.37	-262.09	584.38	167.43	672.67	49.03	13.90	PASS
4516.00†	4245.06	-252.67	1279.17	4498.23	4405.54	-271.02	607.35	167.40	690.96	50.42	13.89	PASS
4616.00†	4336.02	-260.73	1319.93	4596.54	4500.71	-279.96	630.33	167.37	709.25	51.80	13.87	PASS
4716.00†	4426.98	-268.78	1360.69	4694.85	4595.88	-288.89	653.31	167.34	727.54	53.19	13.85	PASS
4816.00†	4517.94	-276.83	1401.45	4793.16	4691.05	-297.82	676.29	167.31	745.84	54.58	13.83	PASS
4916.00†	4608.90	-284.88	1442.21	4891.48	4786.22	-306.76	699.27	167.28	764.13	55.97	13.81	PASS
5016.00†	4699.86	-292.93	1482.98	4989.79	4881.39	-315.69	722.24	167.25	782.42	57.37	13.80	PASS
5116.00†	4790.82	-300.98	1523.74	5088.10	4976.56	-324.63	745.22	167.23	800.72	58.76	13.78	PASS
5216.00†	4881.78	-309.04	1564.50	5186.41	5071.73	-333.56	768.20	167.20	819.01	60.16	13.76	PASS
5316.00†	4972.74	-317.09	1605.26	5284.72	5166.90	-342.49	791.18	167.18	837.30	61.57	13.75	PASS
5416.00†	5063.70	-325.14	1646.02	5383.04	5262.07	-351.43	814.16	167.16	855.59	62.97	13.73	PASS
5516.00†	5154.66	-333.19	1686.78	5481.35	5357.24	-360.36	837.13	167.13	873.89	64.38	13.71	PASS
5616.00†	5245.62	-341.24	1727.54	5579.66	5452.41	-369.29	860.11	167.11	892.18	65.78	13.70	PASS
5716.00†	5336.58	-349.29	1768.30	5677.97	5547.58	-378.23	883.09	167.09	910.48	67.19	13.68	PASS
5816.00†	5427.54	-357.35	1809.06	5776.28	5642.76	-387.16	906.07	167.08	928.77	68.60	13.67	PASS
5916.00†	5518.50	-365.40	1849.83	5874.60	5737.93	-396.10	929.05	167.06	947.06	70.01	13.65	PASS
6016.00†	5609.46	-373.45	1890.59	5972.91	5833.10	-405.03	952.02	167.04	965.36	71.43	13.64	PASS
6116.00†	5700.42	-381.50	1931.35	6071.22	5928.27	-413.96	975.00	167.02	983.65	72.84	13.63	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

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

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	-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	17698.07	16816.07	882.00	7542.00	0.00	-54.70	2955.73	392.98

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

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



Clearance Report
BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: BRIGHTON LAKES 20-17-1NCH PWB Offset Wellpath: BRIGHTON LAKES 20-17-1NCH (REV-A.0, NIO C CK) PWP	
MD Reference: RIG (16'RKB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	16.00ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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	-103.74	-90.00	103.74	1.56	171.30	PASS
116.00†	116.00	0.00	0.00	116.00	116.00	0.00	-103.74	-90.00	103.74	1.89	110.52	PASS
216.00†	216.00	0.00	0.00	216.00	216.00	0.00	-103.74	-90.00	103.74	2.47	68.23	PASS
316.00†	316.00	0.00	0.00	316.00	316.00	0.00	-103.74	-90.00	103.74	3.08	48.65	PASS
416.00†	416.00	0.00	0.00	416.00	416.00	0.00	-103.74	-90.00	103.74	3.69	37.66	PASS
516.00†	516.00	0.00	0.00	516.00	516.00	0.00	-103.74	-90.00	103.74	4.31	30.68	PASS
616.00†	616.00	0.00	0.00	616.00	616.00	0.00	-103.74	-90.00	103.74	4.94	25.87	PASS
716.00†	716.00	0.00	0.00	716.00	716.00	0.00	-103.74	-90.00	103.74	5.56	22.36	PASS
816.00†	816.00	0.00	0.00	816.00	816.00	0.00	-103.74	-90.00	103.74	6.19	19.68	PASS
916.00†	916.00	0.00	0.00	916.00	916.00	0.00	-103.74	-90.00	103.74	6.26	18.58	PASS
975.00	975.00	0.00	0.00	975.00	975.00	0.00	-103.74	-90.00	103.74	6.33	18.33	PASS
1016.00†	1016.00	-0.09	0.43	1016.00	1016.00	0.00	-103.74	168.87	104.18	6.41	18.16	PASS
1116.00†	1115.87	-1.01	5.10	1115.87	1115.87	0.00	-103.74	169.33	108.85	7.08	16.98	PASS
1216.00†	1215.36	-2.94	14.90	1215.36	1215.36	0.00	-103.74	170.17	118.68	8.38	15.38	PASS
1316.00†	1314.19	-5.88	29.79	1314.19	1314.19	0.00	-103.74	171.21	133.66	9.60	14.96	PASS
1416.00†	1412.09	-9.82	49.73	1419.08	1419.04	-0.98	-101.64	172.05	151.79	10.94	14.76	PASS
1516.00†	1508.79	-14.75	74.67	1525.78	1525.41	-4.44	-94.18	172.23	169.98	12.65	14.18	PASS
1616.00†	1604.03	-20.65	104.54	1633.53	1632.18	-10.47	-81.19	171.92	188.13	14.41	13.68	PASS
1716.00†	1697.55	-27.51	139.26	1741.67	1738.37	-19.06	-62.69	171.25	206.21	15.96	13.48	PASS
1793.33	1768.52	-33.46	169.38	1817.37	1812.33	-25.87	-48.02	170.77	221.90	16.77	13.77	PASS
1816.00†	1789.14	-35.28	178.62	1839.47	1833.92	-27.86	-43.74	170.69	226.95	16.97	13.91	PASS
1916.00†	1880.10	-43.33	219.38	1936.95	1929.15	-36.63	-24.86	170.34	249.21	17.79	14.55	PASS
2016.00†	1971.06	-51.39	260.14	2034.43	2024.38	-45.39	-5.98	170.06	271.47	18.68	15.07	PASS
2116.00†	2062.02	-59.44	300.90	2131.91	2119.61	-54.16	12.91	169.82	293.74	19.64	15.48	PASS
2216.00†	2152.98	-67.49	341.66	2229.40	2214.85	-62.93	31.79	169.61	316.02	20.65	15.81	PASS
2316.00†	2243.94	-75.54	382.43	2326.88	2310.08	-71.70	50.68	169.43	338.30	21.67	16.11	PASS
2416.00†	2334.90	-83.59	423.19	2424.36	2405.31	-80.47	69.56	169.27	360.58	22.75	16.33	PASS
2516.00†	2425.86	-91.64	463.95	2521.84	2500.54	-89.23	88.44	169.13	382.87	23.87	16.50	PASS
2616.00†	2516.82	-99.70	504.71	2619.32	2595.77	-98.00	107.33	169.00	405.15	25.02	16.64	PASS
2716.00†	2607.78	-107.75	545.47	2716.80	2691.01	-106.77	126.21	168.89	427.44	26.19	16.75	PASS
2816.00†	2698.74	-115.80	586.23	2814.28	2786.24	-115.54	145.10	168.79	449.73	27.38	16.84	PASS
2916.00†	2789.70	-123.85	626.99	2911.77	2881.47	-124.30	163.98	168.70	472.02	28.59	16.90	PASS
3016.00†	2880.66	-131.90	667.75	3009.25	2976.70	-133.07	182.86	168.62	494.31	29.82	16.96	PASS
3116.00†	2971.62	-139.95	708.51	3106.73	3071.93	-141.84	201.75	168.54	516.60	31.06	17.00	PASS
3216.00†	3062.58	-148.00	749.28	3204.21	3167.17	-150.61	220.63	168.47	538.90	32.32	17.03	PASS
3316.00†	3153.54	-156.06	790.04	3301.69	3262.40	-159.38	239.52	168.41	561.19	33.59	17.05	PASS
3416.00†	3244.50	-164.11	830.80	3399.17	3357.63	-168.14	258.40	168.35	583.48	34.87	17.06	PASS
3516.00†	3335.46	-172.16	871.56	3496.65	3452.86	-176.91	277.28	168.29	605.78	36.15	17.07	PASS
3616.00†	3426.42	-180.21	912.32	3594.13	3548.09	-185.68	296.17	168.24	628.07	37.45	17.08	PASS
3716.00†	3517.38	-188.26	953.08	3691.62	3643.33	-194.45	315.05	168.20	650.37	38.75	17.08	PASS
3816.00†	3608.34	-196.31	993.84	3789.10	3738.56	-203.22	333.94	168.15	672.67	40.06	17.08	PASS
3916.00†	3699.30	-204.37	1034.60	3886.58	3833.79	-211.98	352.82	168.11	694.96	41.38	17.07	PASS
4016.00†	3790.26	-212.42	1075.36	3984.06	3929.02	-220.75	371.70	168.07	717.26	42.70	17.07	PASS
4116.00†	3881.22	-220.47	1116.13	4081.54	4024.25	-229.52	390.59	168.03	739.56	44.02	17.06	PASS
4216.00†	3972.18	-228.52	1156.89	4179.02	4119.49	-238.29	409.47	168.00	761.85	45.35	17.05	PASS

C-C Clearance Distance Cutoff: 1000.00 ft



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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†	4063.14	-236.57	1197.65	4276.50	4214.72	-247.06	428.36	167.97	784.15	46.69	17.04	PASS
4416.00†	4154.10	-244.62	1238.41	4373.99	4309.95	-255.82	447.24	167.94	806.45	48.03	17.03	PASS
4516.00†	4245.06	-252.67	1279.17	4471.47	4405.18	-264.59	466.12	167.91	828.75	49.37	17.02	PASS
4616.00†	4336.02	-260.73	1319.93	4568.95	4500.41	-273.36	485.01	167.88	851.05	50.71	17.00	PASS
4716.00†	4426.98	-268.78	1360.69	4666.43	4595.65	-282.13	503.89	167.85	873.35	52.06	16.99	PASS
4816.00†	4517.94	-276.83	1401.45	4763.91	4690.88	-290.90	522.78	167.83	895.64	53.41	16.98	PASS
4916.00†	4608.90	-284.88	1442.21	4861.39	4786.11	-299.66	541.66	167.81	917.94	54.77	16.97	PASS
5016.00†	4699.86	-292.93	1482.98	4958.87	4881.34	-308.43	560.55	167.78	940.24	56.12	16.95	PASS
5116.00†	4790.82	-300.98	1523.74	5056.36	4976.57	-317.20	579.43	167.76	962.54	57.48	16.94	PASS
5216.00†	4881.78	-309.04	1564.50	5153.84	5071.81	-325.97	598.31	167.74	984.84	58.84	16.93	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

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

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.5in Open Hole	16.00	882.00	866.00	16.00	882.00	0.00	-63.24	0.00	-63.24
9.625in Casing Surface	16.00	882.00	866.00	16.00	882.00	0.00	-63.24	0.00	-63.24
8.5in Open Hole	882.00	17814.81	16932.81	882.00	7707.00	0.00	-63.24	2955.72	313.53

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

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

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

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



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

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

Facility: SEC.17-T01S-R66W Slot: SLOT#01 EX. TASHIRO-UPRR#1 (1160'FSL & 1221'FWL, SEC.17, PA, TD@8225') Well: TASHIRO-UPRR#1 Threshold Value=1.00 † = Interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
16.00	16.00	0.00	0.00	-16.00	18.00	5981.15	-870.09	-8.28	6044.10	25.57	245.64	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	-530.34	3646.40	-530.01
8.625in Casing Surface	0.00	158.00	158.00	18.00	175.99	3646.11	-530.34	3646.40	-530.01
7.875in Open Hole	158.00	8210.00	8052.00	175.99	8226.90	3646.40	-530.01	3641.73	-545.42
4.5in Casing Production	0.00	8210.00	8210.00	18.00	8226.90	3646.11	-530.34	3641.73	-545.42

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 20-17-2CDH (CODELL, REV-A.0) PWP
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH 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	-455.31	-28.55	952.60	25.57	38.68	PASS	
116.00†	116.00	0.00	0.00	104.99	127.99	836.45	-454.44	-28.52	952.00	50.13	19.33	PASS	
216.00†	216.00	0.00	0.00	211.03	234.01	835.50	-452.61	-28.45	950.39	49.98	19.29	PASS	
316.00†	316.00	0.00	0.00	311.48	334.43	834.05	-451.20	-28.41	948.45	50.00	19.24	PASS	
416.00†	416.00	0.00	0.00	407.50	430.44	832.38	-450.79	-28.44	946.72	50.04	19.19	PASS	
516.00†	516.00	0.00	0.00	504.52	527.44	830.47	-451.54	-28.53	945.35	50.09	19.15	PASS	
616.00†	616.00	0.00	0.00	603.31	626.18	828.18	-453.37	-28.70	944.21	50.13	19.10	PASS	
716.00†	716.00	0.00	0.00	703.64	726.45	825.61	-455.75	-28.90	943.10	50.19	19.06	PASS	
816.00†	816.00	0.00	0.00	797.50	820.26	823.46	-458.11	-29.09	942.32	50.24	19.02	PASS	
916.00†	916.00	0.00	0.00	896.84	919.54	821.62	-460.59	-29.27	941.92	50.08	19.00	PASS	
975.00	975.00	0.00	0.00	954.78	977.47	820.66	-461.92	-29.37	941.73	50.10	18.99	PASS	
981.18†	981.18	0.00	0.01	961.41	984.09	820.56	-462.06	-130.56	941.72	50.10	18.99	PASS	
1001.98†	1001.98	-0.04	0.19	981.27	1003.94	820.26	-462.49	-130.60	941.79	50.11	18.99	PASS	
1016.00†	1016.00	-0.09	0.43	995.02	1017.69	820.07	-462.77	-130.63	941.92	50.11	18.99	PASS	
1116.00†	1115.87	-1.01	5.10	1087.96	1110.61	819.27	-464.51	-130.87	945.21	50.18	19.03	PASS	
1216.00†	1215.36	-2.94	14.90	1185.29	1207.93	819.24	-465.94	-131.23	952.49	50.29	19.13	PASS	
1316.00†	1314.19	-5.88	29.79	1294.13	1316.76	818.97	-467.11	-131.80	962.96	50.44	19.29	PASS	
1416.00†	1412.09	-9.82	49.73	1391.67	1414.30	818.09	-468.01	-132.45	976.48	50.63	19.49	PASS	
1516.00†	1508.79	-14.75	74.67	1487.75	1510.37	817.15	-469.15	-133.20	993.88	50.84	19.75	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	-277.55	509.94	-277.15
8.625in Casing Surface	0.00	132.00	132.00	7.00	138.99	510.08	-277.55	509.94	-277.15
7.875in Open Hole	132.00	8231.00	8099.00	138.99	8236.91	509.94	-277.15	499.15	-295.70
4.5in Casing Production	0.00	8231.00	8231.00	7.00	8236.91	510.08	-277.55	499.15	-295.70

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

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



Clearance Report

BRIGHTON LAKES 20-17-2CDH (CODELL, REV-A.0) PWP
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#08 BRIGHTON LAKES 20-17-2CDH (400'FSL & 1980'FWL, SEC.20)
Area	COLORADO	Well	BRIGHTON LAKES 20-17-2CDH
Field	ADAMS COUNTY (NAD83/ TRUE NORTH)	Wellbore	BRIGHTON LAKES 20-17-2CDH PWB
Facility	SEC.20-T01S-R66W		

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