

PETROSHARE CORPORATION

Location: COLORADO Slot: SLOT#04 WAKEMAN 20-17-4NCH (293°FSL & 2068°FEL, SEC.20)
Field: ADAMS COUNTY (NAD83/ GRID NORTH) Well: WAKEMAN 20-17-4NCH
Facility: SEC.20-T01S-R65W Wellbore: WAKEMAN 20-17-4NCH PWB

Plot reference wellpath is WAKEMAN 20-17-4NCH PWP (REV-B.0)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to RIG (13KB) (RKB)	North Reference: Grid north
Measured depths are referenced to RIG (13KB) (RKB)	Scale: True distance
RIG (13KB) (RKB) to Mean Sea Level: 5203 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: SLOT #04 WAKEMAN 20-17-4NCH (293°FSL & 2068°FEL, SEC.20)): 0 feet	Created by: wagnjam on 2018-10-25
Coordinates are in feet referenced to Slot	Database: WA DENVER

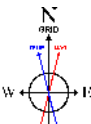
Location Information					
Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude
SEC.20-T01S-R65W			3228360.558	1223518.730	39°56'38.622"N
Slot			Local N (ft)	Local E (ft)	Longitude
SLOT#04 WAKEMAN 20-17-4NCH (293°FSL & 2068°FEL, SEC.20)			-0.05	-44.95	104°41'07.909"W
RIG (13KB) (RKB) to Ground level (At Slot: SLOT #04 WAKEMAN 20-17-4NCH (293°FSL & 2068°FEL, SEC.20))			Grid East (US ft)	Grid North (US ft)	Latitude
Mean Sea Level to Ground level (At Slot: SLOT #04 WAKEMAN 20-17-4NCH (293°FSL & 2068°FEL, SEC.20))			3228315.612	1223518.678	39°56'38.625"N
RIG (13KB) (RKB) to Mean Sea Level			Longitude		
			5203ft		
			0ft		
			5203ft		

Hole and Casing Sections									
Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (ft)
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1795.31	0.00	0.00	-34.91	63.92
8.5in Open Hole	1800.00	17656.24	15856.24	1795.31	7458.00	-34.91	63.92	9968.78	680.01

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	13.00	0.000	118.640	13.00	0.00	0.00	0.00	0.00
End of Tangent	1100.00	0.000	118.640	1100.00	0.00	0.00	0.00	0.00
End of Build (S)	1532.69	8.654	118.640	1531.05	-15.63	28.62	2.00	-13.65
End of Tangent (S)	6910.92	8.654	118.640	6848.04	-403.50	738.84	0.00	-352.28
End of 3D Arc (S)	7853.29	90.000	359.228	7458.00	168.93	812.01	10.00	223.80
End of Tangent	13153.29	90.000	359.228	7458.00	5468.45	740.60	0.00	5506.17
End of 3D Arc	13466.89	90.000	5.500	7458.00	5781.62	753.53	2.00	5819.50
End of 3D Arc	14066.89	90.000	353.500	7458.00	6380.50	748.30	2.00	6416.64
End of 3D Arc	14348.41	90.000	359.130	7458.00	6661.33	730.21	2.00	6695.58
End of Tangent	17656.24	90.000	359.130	7458.00	9968.78	680.01	0.00	9991.95

Scale 1 inch = 1500

True Vertical Depth (ft)



BGGM(1900.0 to 2019.0) Dip: 66.52° Field: 52153.3 nT
Magnetic North is 8.30 degrees East of True North (at 9/19/2017)
Grid North is 0.53 degrees East of True North
To correct azimuth from True to Grid subtract 0.53 degrees
To correct azimuth from Magnetic to Grid add 7.77 degrees

End of Tangent (S) : 8.65° Inc, 6910.92ft MD, 6848.04ft TVD, -352.28ft VS

10.00°/100ft
End of 3D Arc (S) : 90.00° Inc, 7853.29ft MD, 7458.00ft TVD, 223.80ft VS

WAKEMAN 20-17-4NCH EP (460°FSL & 1252°FEL, SEC.20)

End of Tangent : 90.00° Inc, 13153.29ft MD, 7458.00ft TVD, 5506.17ft VS

2.00°/100ft

End of 3D Arc : 90.00° Inc, 13466.89ft MD, 7458.00ft TVD, 5819.50ft VS

2.00°/100ft

End of 3D Arc : 90.00° Inc, 14066.89ft MD, 7458.00ft TVD, 6416.64ft VS

2.00°/100ft

End of 3D Arc : 90.00° Inc, 14348.41ft MD, 7458.00ft TVD, 6695.58ft VS

Vertical Section (ft)

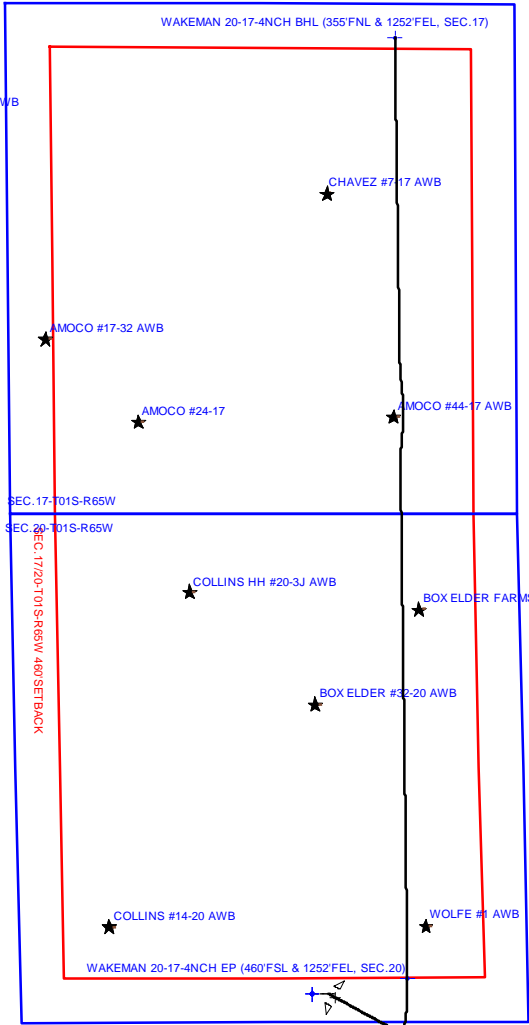
Azimuth 3.90° with reference 0.00 N, 0.00 E

Survey Program

Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
13.00	17656.24	BHI NavTrak	Custom BHI NavTrak (Standard Rotating-Axial Cor) (Rockies 0.03G model)		WAKEMAN 20-17-4NCH PWB

Scale 1 inch = 2000

Easting (ft)



9.625in Casing Surface : 1795.31ft TVD, 34.91ft S, 63.92ft E
SLOT#04 WAKEMAN 20-17-4NCH (293°FSL & 2068°FEL, SEC.20)

WAKEMAN 20-17-4NCH BHL (355°FNL & 1252°FEL, SEC.17)

End of Tangent : 90.00° Inc, 17656.24ft MD, 7458.00ft TVD, 9991.95ft VS

Scale 1 inch = 1500

Northing (ft)

Planned Wellpath Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)

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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Wagnjam
Scale	0.999971	Report Generated	10/25/2018 at 4:35:13 PM
Convergence at slot	0.53° East	Database/Source file	WA DENVER/WAKEMAN_20-17-4NCH_PWP__REV-B.0_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-0.05	-44.95	3228315.61	1223518.68	39°56'38.625"N	104°41'08.486"W
Facility Reference Pt			3228360.56	1223518.73	39°56'38.622"N	104°41'07.909"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 (13'KB) (RKB) to Facility Vertical Datum	5203.00ft
Horizontal Reference Pt	Slot	RIG (13'KB) (RKB) to Mean Sea Level	5203.00ft
Vertical Reference Pt	RIG (13'KB) (RKB)	RIG (13'KB) (RKB) to Ground Level at Slot (SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20))	5203.00ft
MD Reference Pt	RIG (13'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	3.90°

Planned Wellpath Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)

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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	118.640	0.00	0.00	0.00	0.00	39°56'38.625"N	104°41'08.486"W	0.00	
13.00	0.000	118.640	13.00	0.00	0.00	0.00	39°56'38.625"N	104°41'08.486"W	0.00	Tie On
113.00†	0.000	118.640	113.00	0.00	0.00	0.00	39°56'38.625"N	104°41'08.486"W	0.00	
213.00†	0.000	118.640	213.00	0.00	0.00	0.00	39°56'38.625"N	104°41'08.486"W	0.00	
313.00†	0.000	118.640	313.00	0.00	0.00	0.00	39°56'38.625"N	104°41'08.486"W	0.00	
413.00†	0.000	118.640	413.00	0.00	0.00	0.00	39°56'38.625"N	104°41'08.486"W	0.00	
513.00†	0.000	118.640	513.00	0.00	0.00	0.00	39°56'38.625"N	104°41'08.486"W	0.00	
613.00†	0.000	118.640	613.00	0.00	0.00	0.00	39°56'38.625"N	104°41'08.486"W	0.00	
713.00†	0.000	118.640	713.00	0.00	0.00	0.00	39°56'38.625"N	104°41'08.486"W	0.00	
813.00†	0.000	118.640	813.00	0.00	0.00	0.00	39°56'38.625"N	104°41'08.486"W	0.00	
913.00†	0.000	118.640	913.00	0.00	0.00	0.00	39°56'38.625"N	104°41'08.486"W	0.00	
1013.00†	0.000	118.640	1013.00	0.00	0.00	0.00	39°56'38.625"N	104°41'08.486"W	0.00	
1100.00	0.000	118.640	1100.00	0.00	0.00	0.00	39°56'38.625"N	104°41'08.486"W	0.00	End of Tangent
1113.00†	0.260	118.640	1113.00	-0.01	-0.01	0.03	39°56'38.625"N	104°41'08.486"W	2.00	
1213.00†	2.260	118.640	1212.97	-0.93	-1.07	1.96	39°56'38.615"N	104°41'08.461"W	2.00	
1313.00†	4.260	118.640	1312.80	-3.31	-3.79	6.95	39°56'38.587"N	104°41'08.397"W	2.00	
1413.00†	6.260	118.640	1412.38	-7.15	-8.19	14.99	39°56'38.543"N	104°41'08.295"W	2.00	
1501.31†	8.026	118.640	1500.00	-11.74	-13.45	24.63	39°56'38.490"N	104°41'08.172"W	2.00	FOX HILLS
1513.00†	8.260	118.640	1511.57	-12.44	-14.24	26.08	39°56'38.482"N	104°41'08.153"W	2.00	
1532.69	8.654	118.640	1531.05	-13.65	-15.63	28.62	39°56'38.468"N	104°41'08.121"W	2.00	End of Build (S)
1613.00†	8.654	118.640	1610.44	-18.70	-21.42	39.23	39°56'38.410"N	104°41'07.985"W	0.00	
1713.00†	8.654	118.640	1709.30	-25.00	-28.64	52.43	39°56'38.338"N	104°41'07.816"W	0.00	
1813.00†	8.654	118.640	1808.17	-31.30	-35.85	65.64	39°56'38.265"N	104°41'07.648"W	0.00	
1913.00†	8.654	118.640	1907.03	-37.59	-43.06	78.85	39°56'38.193"N	104°41'07.479"W	0.00	
2013.00†	8.654	118.640	2005.89	-43.89	-50.27	92.05	39°56'38.120"N	104°41'07.310"W	0.00	
2113.00†	8.654	118.640	2104.75	-50.19	-57.48	105.26	39°56'38.048"N	104°41'07.142"W	0.00	
2213.00†	8.654	118.640	2203.61	-56.48	-64.70	118.46	39°56'37.975"N	104°41'06.973"W	0.00	
2313.00†	8.654	118.640	2302.47	-62.78	-71.91	131.67	39°56'37.903"N	104°41'06.804"W	0.00	
2413.00†	8.654	118.640	2401.33	-69.08	-79.12	144.87	39°56'37.830"N	104°41'06.636"W	0.00	
2513.00†	8.654	118.640	2500.20	-75.37	-86.33	158.08	39°56'37.758"N	104°41'06.467"W	0.00	

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WAKEMAN 20-17-4NCH PWP (REV-B.0)

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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2613.00†	8.654	118.640	2599.06	-81.67	-93.54	171.28	39°56'37.685"N	104°41'06.298"W	0.00	
2713.00†	8.654	118.640	2697.92	-87.97	-100.75	184.49	39°56'37.613"N	104°41'06.129"W	0.00	
2813.00†	8.654	118.640	2796.78	-94.26	-107.97	197.69	39°56'37.540"N	104°41'05.961"W	0.00	
2913.00†	8.654	118.640	2895.64	-100.56	-115.18	210.90	39°56'37.468"N	104°41'05.792"W	0.00	
3013.00†	8.654	118.640	2994.50	-106.85	-122.39	224.11	39°56'37.396"N	104°41'05.623"W	0.00	
3113.00†	8.654	118.640	3093.37	-113.15	-129.60	237.31	39°56'37.323"N	104°41'05.455"W	0.00	
3213.00†	8.654	118.640	3192.23	-119.45	-136.81	250.52	39°56'37.251"N	104°41'05.286"W	0.00	
3313.00†	8.654	118.640	3291.09	-125.74	-144.03	263.72	39°56'37.178"N	104°41'05.117"W	0.00	
3413.00†	8.654	118.640	3389.95	-132.04	-151.24	276.93	39°56'37.106"N	104°41'04.949"W	0.00	
3513.00†	8.654	118.640	3488.81	-138.34	-158.45	290.13	39°56'37.033"N	104°41'04.780"W	0.00	
3613.00†	8.654	118.640	3587.67	-144.63	-165.66	303.34	39°56'36.961"N	104°41'04.611"W	0.00	
3713.00†	8.654	118.640	3686.53	-150.93	-172.87	316.54	39°56'36.888"N	104°41'04.443"W	0.00	
3813.00†	8.654	118.640	3785.40	-157.23	-180.08	329.75	39°56'36.816"N	104°41'04.274"W	0.00	
3913.00†	8.654	118.640	3884.26	-163.52	-187.30	342.96	39°56'36.743"N	104°41'04.105"W	0.00	
4013.00†	8.654	118.640	3983.12	-169.82	-194.51	356.16	39°56'36.671"N	104°41'03.937"W	0.00	
4113.00†	8.654	118.640	4081.98	-176.11	-201.72	369.37	39°56'36.598"N	104°41'03.768"W	0.00	
4213.00†	8.654	118.640	4180.84	-182.41	-208.93	382.57	39°56'36.526"N	104°41'03.599"W	0.00	
4313.00†	8.654	118.640	4279.70	-188.71	-216.14	395.78	39°56'36.453"N	104°41'03.430"W	0.00	
4413.00†	8.654	118.640	4378.57	-195.00	-223.36	408.98	39°56'36.381"N	104°41'03.262"W	0.00	
4513.00†	8.654	118.640	4477.43	-201.30	-230.57	422.19	39°56'36.309"N	104°41'03.093"W	0.00	
4613.00†	8.654	118.640	4576.29	-207.60	-237.78	435.39	39°56'36.236"N	104°41'02.924"W	0.00	
4713.00†	8.654	118.640	4675.15	-213.89	-244.99	448.60	39°56'36.164"N	104°41'02.756"W	0.00	
4813.00†	8.654	118.640	4774.01	-220.19	-252.20	461.80	39°56'36.091"N	104°41'02.587"W	0.00	
4889.86†	8.654	118.640	4850.00	-225.03	-257.75	471.95	39°56'36.035"N	104°41'02.457"W	0.00	SUSSEX/SHANNON
4913.00†	8.654	118.640	4872.87	-226.49	-259.42	475.01	39°56'36.019"N	104°41'02.418"W	0.00	
5013.00†	8.654	118.640	4971.73	-232.78	-266.63	488.22	39°56'35.946"N	104°41'02.250"W	0.00	
5113.00†	8.654	118.640	5070.60	-239.08	-273.84	501.42	39°56'35.874"N	104°41'02.081"W	0.00	
5213.00†	8.654	118.640	5169.46	-245.38	-281.05	514.63	39°56'35.801"N	104°41'01.912"W	0.00	
5313.00†	8.654	118.640	5268.32	-251.67	-288.26	527.83	39°56'35.729"N	104°41'01.744"W	0.00	
5413.00†	8.654	118.640	5367.18	-257.97	-295.47	541.04	39°56'35.656"N	104°41'01.575"W	0.00	

Planned Wellpath Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)

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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5513.00†	8.654	118.640	5466.04	-264.26	-302.69	554.24	39°56'35.584"N	104°41'01.406"W	0.00	
5613.00†	8.654	118.640	5564.90	-270.56	-309.90	567.45	39°56'35.511"N	104°41'01.238"W	0.00	
5713.00†	8.654	118.640	5663.77	-276.86	-317.11	580.65	39°56'35.439"N	104°41'01.069"W	0.00	
5813.00†	8.654	118.640	5762.63	-283.15	-324.32	593.86	39°56'35.366"N	104°41'00.900"W	0.00	
5913.00†	8.654	118.640	5861.49	-289.45	-331.53	607.07	39°56'35.294"N	104°41'00.731"W	0.00	
6013.00†	8.654	118.640	5960.35	-295.75	-338.75	620.27	39°56'35.222"N	104°41'00.563"W	0.00	
6113.00†	8.654	118.640	6059.21	-302.04	-345.96	633.48	39°56'35.149"N	104°41'00.394"W	0.00	
6213.00†	8.654	118.640	6158.07	-308.34	-353.17	646.68	39°56'35.077"N	104°41'00.225"W	0.00	
6313.00†	8.654	118.640	6256.93	-314.64	-360.38	659.89	39°56'35.004"N	104°41'00.057"W	0.00	
6413.00†	8.654	118.640	6355.80	-320.93	-367.59	673.09	39°56'34.932"N	104°40'59.888"W	0.00	
6513.00†	8.654	118.640	6454.66	-327.23	-374.80	686.30	39°56'34.859"N	104°40'59.719"W	0.00	
6613.00†	8.654	118.640	6553.52	-333.53	-382.02	699.50	39°56'34.787"N	104°40'59.551"W	0.00	
6713.00†	8.654	118.640	6652.38	-339.82	-389.23	712.71	39°56'34.714"N	104°40'59.382"W	0.00	
6813.00†	8.654	118.640	6751.24	-346.12	-396.44	725.91	39°56'34.642"N	104°40'59.213"W	0.00	
6910.92	8.654	118.640	6848.04	-352.28	-403.50	738.84	39°56'34.571"N	104°40'59.048"W	0.00	End of Tangent (S)
6913.00†	8.554	117.416	6850.10	-352.41	-403.65	739.12	39°56'34.569"N	104°40'59.045"W	10.00	
7013.00†	9.617	50.715	6949.10	-349.65	-401.78	752.22	39°56'34.587"N	104°40'58.876"W	10.00	
7113.00†	17.624	23.894	7046.29	-329.66	-382.60	764.85	39°56'34.775"N	104°40'58.712"W	10.00	
7213.00†	26.973	14.328	7138.74	-293.04	-346.69	776.62	39°56'35.129"N	104°40'58.556"W	10.00	
7302.31†	35.608	9.897	7215.00	-247.17	-301.37	786.12	39°56'35.576"N	104°40'58.429"W	10.00	NIORARA A CHALK
7313.00†	36.650	9.493	7223.63	-240.90	-295.15	787.19	39°56'35.637"N	104°40'58.415"W	10.00	
7324.76†	37.798	9.070	7233.00	-233.81	-288.13	788.33	39°56'35.706"N	104°40'58.399"W	10.00	NIORARA A MARL
7413.00†	46.449	6.469	7298.39	-174.82	-229.54	796.21	39°56'36.285"N	104°40'58.291"W	10.00	
7513.00†	56.306	4.300	7360.73	-96.82	-151.85	803.43	39°56'37.052"N	104°40'58.189"W	10.00	
7572.18†	62.155	3.244	7391.00	-45.99	-101.13	806.76	39°56'37.553"N	104°40'58.140"W	10.00	NIORARA B CHALK
7613.00†	66.192	2.581	7408.78	-9.27	-64.45	808.63	39°56'37.915"N	104°40'58.112"W	10.00	
7648.20†	69.677	2.043	7422.00	23.34	-31.86	809.94	39°56'38.237"N	104°40'58.091"W	10.00	NIORARA B MARL
7713.00†	76.095	1.109	7441.06	85.18	30.02	811.63	39°56'38.848"N	104°40'58.062"W	10.00	
7813.00†	86.006	359.758	7456.60	183.66	128.67	812.36	39°56'39.823"N	104°40'58.041"W	10.00	
7853.00†	89.971	359.232	7458.00	223.51	168.64	812.01	39°56'40.218"N	104°40'58.041"W	10.00	NIORARA C CHALK

Planned Wellpath Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)

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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7853.29	90.000	359.228	7458.00 [†]	223.80	168.93	812.01	39°56'40.221"N	104°40'58.041"W	10.00	End of 3D Arc (S)
7913.00 [†]	90.000	359.228	7458.00	283.31	228.63	811.20	39°56'40.811"N	104°40'58.044"W	0.00	
8013.00 [†]	90.000	359.228	7458.00	382.98	328.62	809.86	39°56'41.799"N	104°40'58.050"W	0.00	
8113.00 [†]	90.000	359.228	7458.00	482.64	428.61	808.51	39°56'42.787"N	104°40'58.055"W	0.00	
8213.00 [†]	90.000	359.228	7458.00	582.31	528.60	807.16	39°56'43.776"N	104°40'58.061"W	0.00	
8313.00 [†]	90.000	359.228	7458.00	681.98	628.60	805.81	39°56'44.764"N	104°40'58.066"W	0.00	
8413.00 [†]	90.000	359.228	7458.00	781.65	728.59	804.47	39°56'45.752"N	104°40'58.072"W	0.00	
8513.00 [†]	90.000	359.228	7458.00	881.31	828.58	803.12	39°56'46.740"N	104°40'58.077"W	0.00	
8613.00 [†]	90.000	359.228	7458.00	980.98	928.57	801.77	39°56'47.729"N	104°40'58.083"W	0.00	
8713.00 [†]	90.000	359.228	7458.00	1080.65	1028.56	800.42	39°56'48.717"N	104°40'58.088"W	0.00	
8813.00 [†]	90.000	359.228	7458.00	1180.32	1128.55	799.08	39°56'49.705"N	104°40'58.094"W	0.00	
8913.00 [†]	90.000	359.228	7458.00	1279.98	1228.54	797.73	39°56'50.693"N	104°40'58.099"W	0.00	
9013.00 [†]	90.000	359.228	7458.00	1379.65	1328.53	796.38	39°56'51.682"N	104°40'58.105"W	0.00	
9113.00 [†]	90.000	359.228	7458.00	1479.32	1428.52	795.03	39°56'52.670"N	104°40'58.110"W	0.00	
9213.00 [†]	90.000	359.228	7458.00	1578.98	1528.51	793.69	39°56'53.658"N	104°40'58.115"W	0.00	
9313.00 [†]	90.000	359.228	7458.00	1678.65	1628.50	792.34	39°56'54.646"N	104°40'58.121"W	0.00	
9413.00 [†]	90.000	359.228	7458.00	1778.32	1728.50	790.99	39°56'55.634"N	104°40'58.126"W	0.00	
9513.00 [†]	90.000	359.228	7458.00	1877.99	1828.49	789.65	39°56'56.623"N	104°40'58.132"W	0.00	
9613.00 [†]	90.000	359.228	7458.00	1977.65	1928.48	788.30	39°56'57.611"N	104°40'58.137"W	0.00	
9713.00 [†]	90.000	359.228	7458.00	2077.32	2028.47	786.95	39°56'58.599"N	104°40'58.143"W	0.00	
9813.00 [†]	90.000	359.228	7458.00	2176.99	2128.46	785.60	39°56'59.587"N	104°40'58.148"W	0.00	
9913.00 [†]	90.000	359.228	7458.00	2276.66	2228.45	784.26	39°57'00.576"N	104°40'58.154"W	0.00	
10013.00 [†]	90.000	359.228	7458.00	2376.32	2328.44	782.91	39°57'01.564"N	104°40'58.159"W	0.00	
10113.00 [†]	90.000	359.228	7458.00	2475.99	2428.43	781.56	39°57'02.552"N	104°40'58.165"W	0.00	
10213.00 [†]	90.000	359.228	7458.00	2575.66	2528.42	780.21	39°57'03.540"N	104°40'58.170"W	0.00	
10313.00 [†]	90.000	359.228	7458.00	2675.33	2628.41	778.87	39°57'04.529"N	104°40'58.176"W	0.00	
10413.00 [†]	90.000	359.228	7458.00	2774.99	2728.40	777.52	39°57'05.517"N	104°40'58.181"W	0.00	
10513.00 [†]	90.000	359.228	7458.00	2874.66	2828.40	776.17	39°57'06.505"N	104°40'58.187"W	0.00	
10613.00 [†]	90.000	359.228	7458.00	2974.33	2928.39	774.82	39°57'07.493"N	104°40'58.192"W	0.00	
10713.00 [†]	90.000	359.228	7458.00	3074.00	3028.38	773.48	39°57'08.481"N	104°40'58.197"W	0.00	

Planned Wellpath Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)

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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10813.00†	90.000	359.228	7458.00	3173.66	3128.37	772.13	39°57'09.470"N	104°40'58.203"W	0.00	
10913.00†	90.000	359.228	7458.00	3273.33	3228.36	770.78	39°57'10.458"N	104°40'58.208"W	0.00	
11013.00†	90.000	359.228	7458.00	3373.00	3328.35	769.43	39°57'11.446"N	104°40'58.214"W	0.00	
11113.00†	90.000	359.228	7458.00	3472.67	3428.34	768.09	39°57'12.434"N	104°40'58.219"W	0.00	
11213.00†	90.000	359.228	7458.00	3572.33	3528.33	766.74	39°57'13.423"N	104°40'58.225"W	0.00	
11313.00†	90.000	359.228	7458.00	3672.00	3628.32	765.39	39°57'14.411"N	104°40'58.230"W	0.00	
11413.00†	90.000	359.228	7458.00	3771.67	3728.31	764.05	39°57'15.399"N	104°40'58.236"W	0.00	
11513.00†	90.000	359.228	7458.00	3871.34	3828.30	762.70	39°57'16.387"N	104°40'58.241"W	0.00	
11613.00†	90.000	359.228	7458.00	3971.00	3928.30	761.35	39°57'17.376"N	104°40'58.247"W	0.00	
11713.00†	90.000	359.228	7458.00	4070.67	4028.29	760.00	39°57'18.364"N	104°40'58.252"W	0.00	
11813.00†	90.000	359.228	7458.00	4170.34	4128.28	758.66	39°57'19.352"N	104°40'58.258"W	0.00	
11913.00†	90.000	359.228	7458.00	4270.00	4228.27	757.31	39°57'20.340"N	104°40'58.263"W	0.00	
12013.00†	90.000	359.228	7458.00	4369.67	4328.26	755.96	39°57'21.328"N	104°40'58.269"W	0.00	
12113.00†	90.000	359.228	7458.00	4469.34	4428.25	754.61	39°57'22.317"N	104°40'58.274"W	0.00	
12213.00†	90.000	359.228	7458.00	4569.01	4528.24	753.27	39°57'23.305"N	104°40'58.280"W	0.00	
12313.00†	90.000	359.228	7458.00	4668.67	4628.23	751.92	39°57'24.293"N	104°40'58.285"W	0.00	
12413.00†	90.000	359.228	7458.00	4768.34	4728.22	750.57	39°57'25.281"N	104°40'58.290"W	0.00	
12513.00†	90.000	359.228	7458.00	4868.01	4828.21	749.22	39°57'26.270"N	104°40'58.296"W	0.00	
12613.00†	90.000	359.228	7458.00	4967.68	4928.20	747.88	39°57'27.258"N	104°40'58.301"W	0.00	
12713.00†	90.000	359.228	7458.00	5067.34	5028.20	746.53	39°57'28.246"N	104°40'58.307"W	0.00	
12813.00†	90.000	359.228	7458.00	5167.01	5128.19	745.18	39°57'29.234"N	104°40'58.312"W	0.00	
12913.00†	90.000	359.228	7458.00	5266.68	5228.18	743.84	39°57'30.223"N	104°40'58.318"W	0.00	
13013.00†	90.000	359.228	7458.00	5366.35	5328.17	742.49	39°57'31.211"N	104°40'58.323"W	0.00	
13113.00†	90.000	359.228	7458.00	5466.01	5428.16	741.14	39°57'32.199"N	104°40'58.329"W	0.00	
13153.29	90.000	359.228	7458.00	5506.17	5468.45	740.60	39°57'32.597"N	104°40'58.331"W	0.00	End of Tangent
13213.00†	90.000	0.422	7458.00	5565.73	5528.15	740.42	39°57'33.187"N	104°40'58.326"W	2.00	
13313.00†	90.000	2.422	7458.00	5665.63	5628.12	742.90	39°57'34.175"N	104°40'58.283"W	2.00	
13413.00†	90.000	4.422	7458.00	5765.62	5727.94	748.87	39°57'35.161"N	104°40'58.194"W	2.00	
13466.89	90.000	5.500	7458.00	5819.50	5781.62	753.53	39°57'35.691"N	104°40'58.128"W	2.00	End of 3D Arc
13513.00†	90.000	4.578	7458.00	5865.60	5827.55	757.58	39°57'36.144"N	104°40'58.070"W	2.00	

Planned Wellpath Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)

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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13613.00†	90.000	2.578	7458.00	5965.59	5927.35	763.82	39°57'37.130"N	104°40'57.978"W	2.00	
13713.00†	90.000	0.578	7458.00	6065.51	6027.31	766.57	39°57'38.118"N	104°40'57.931"W	2.00	
13813.00†	90.000	358.578	7458.00	6165.22	6127.30	765.83	39°57'39.106"N	104°40'57.929"W	2.00	
13913.00†	90.000	356.578	7458.00	6264.60	6227.21	761.61	39°57'40.093"N	104°40'57.971"W	2.00	
14013.00†	90.000	354.578	7458.00	6363.54	6326.91	753.90	39°57'41.079"N	104°40'58.059"W	2.00	
14066.89	90.000	353.500	7458.00	6416.64	6380.50	748.30	39°57'41.609"N	104°40'58.124"W	2.00	End of 3D Arc
14113.00†	90.000	354.422	7458.00	6462.05	6426.36	743.45	39°57'42.063"N	104°40'58.181"W	2.00	
14213.00†	90.000	356.422	7458.00	6560.96	6526.03	735.47	39°57'43.049"N	104°40'58.272"W	2.00	
14313.00†	90.000	358.422	7458.00	6660.31	6625.93	730.97	39°57'44.036"N	104°40'58.318"W	2.00	
14348.41	90.000	359.130	7458.00	6695.58	6661.33	730.21	39°57'44.386"N	104°40'58.323"W	2.00	End of 3D Arc
14413.00†	90.000	359.130	7458.00	6759.95	6725.91	729.23	39°57'45.024"N	104°40'58.328"W	0.00	
14513.00†	90.000	359.130	7458.00	6859.60	6825.90	727.72	39°57'46.013"N	104°40'58.336"W	0.00	
14613.00†	90.000	359.130	7458.00	6959.25	6925.89	726.20	39°57'47.001"N	104°40'58.343"W	0.00	
14713.00†	90.000	359.130	7458.00	7058.91	7025.88	724.68	39°57'47.989"N	104°40'58.351"W	0.00	
14813.00†	90.000	359.130	7458.00	7158.56	7125.87	723.16	39°57'48.977"N	104°40'58.359"W	0.00	
14913.00†	90.000	359.130	7458.00	7258.21	7225.85	721.65	39°57'49.966"N	104°40'58.366"W	0.00	
15013.00†	90.000	359.130	7458.00	7357.87	7325.84	720.13	39°57'50.954"N	104°40'58.374"W	0.00	
15113.00†	90.000	359.130	7458.00	7457.52	7425.83	718.61	39°57'51.942"N	104°40'58.382"W	0.00	
15213.00†	90.000	359.130	7458.00	7557.17	7525.82	717.09	39°57'52.930"N	104°40'58.389"W	0.00	
15313.00†	90.000	359.130	7458.00	7656.83	7625.81	715.58	39°57'53.918"N	104°40'58.397"W	0.00	
15413.00†	90.000	359.130	7458.00	7756.48	7725.80	714.06	39°57'54.907"N	104°40'58.405"W	0.00	
15513.00†	90.000	359.130	7458.00	7856.13	7825.78	712.54	39°57'55.895"N	104°40'58.412"W	0.00	
15613.00†	90.000	359.130	7458.00	7955.79	7925.77	711.02	39°57'56.883"N	104°40'58.420"W	0.00	
15713.00†	90.000	359.130	7458.00	8055.44	8025.76	709.50	39°57'57.871"N	104°40'58.428"W	0.00	
15813.00†	90.000	359.130	7458.00	8155.09	8125.75	707.99	39°57'58.860"N	104°40'58.435"W	0.00	
15913.00†	90.000	359.130	7458.00	8254.75	8225.74	706.47	39°57'59.848"N	104°40'58.443"W	0.00	
16013.00†	90.000	359.130	7458.00	8354.40	8325.73	704.95	39°58'00.836"N	104°40'58.451"W	0.00	
16113.00†	90.000	359.130	7458.00	8454.05	8425.72	703.43	39°58'01.824"N	104°40'58.458"W	0.00	
16213.00†	90.000	359.130	7458.00	8553.71	8525.70	701.92	39°58'02.812"N	104°40'58.466"W	0.00	
16313.00†	90.000	359.130	7458.00	8653.36	8625.69	700.40	39°58'03.801"N	104°40'58.474"W	0.00	

Planned Wellpath Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)

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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
16413.00†	90.000	359.130	7458.00	8753.01	8725.68	698.88	39°58'04.789"N	104°40'58.481"W	0.00	
16513.00†	90.000	359.130	7458.00	8852.67	8825.67	697.36	39°58'05.777"N	104°40'58.489"W	0.00	
16613.00†	90.000	359.130	7458.00	8952.32	8925.66	695.84	39°58'06.765"N	104°40'58.497"W	0.00	
16713.00†	90.000	359.130	7458.00	9051.97	9025.65	694.33	39°58'07.754"N	104°40'58.504"W	0.00	
16813.00†	90.000	359.130	7458.00	9151.63	9125.63	692.81	39°58'08.742"N	104°40'58.512"W	0.00	
16913.00†	90.000	359.130	7458.00	9251.28	9225.62	691.29	39°58'09.730"N	104°40'58.520"W	0.00	
17013.00†	90.000	359.130	7458.00	9350.93	9325.61	689.77	39°58'10.718"N	104°40'58.527"W	0.00	
17113.00†	90.000	359.130	7458.00	9450.59	9425.60	688.26	39°58'11.706"N	104°40'58.535"W	0.00	
17213.00†	90.000	359.130	7458.00	9550.24	9525.59	686.74	39°58'12.695"N	104°40'58.542"W	0.00	
17313.00†	90.000	359.130	7458.00	9649.89	9625.58	685.22	39°58'13.683"N	104°40'58.550"W	0.00	
17413.00†	90.000	359.130	7458.00	9749.55	9725.57	683.70	39°58'14.671"N	104°40'58.558"W	0.00	
17513.00†	90.000	359.130	7458.00	9849.20	9825.55	682.19	39°58'15.659"N	104°40'58.565"W	0.00	
17613.00†	90.000	359.130	7458.00	9948.85	9925.54	680.67	39°58'16.648"N	104°40'58.573"W	0.00	
17656.24	90.000	359.130	7458.00 ²	9991.95	9968.78	680.01	39°58'17.075"N	104°40'58.576"W	0.00	End of Tangent

HOLE & CASING SECTIONS - Ref Wellbore: WAKEMAN 20-17-4NCH PWB Ref Wellpath: WAKEMAN 20-17-4NCH PWP (REV-B.0)

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]
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1795.31	0.00	0.00	-34.91	63.92
8.5in Open Hole	1800.00	17656.24	15856.24	1795.31	7458.00	-34.91	63.92	9968.78	680.01

Planned Wellpath Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)

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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.17-T01S-R65W		0.00	1.05	-179.30	3228136.32	1223519.73	39°56'38.652"N	104°41'10.788"W	polygon
SEC.20-T01S-R65W		0.00	1.05	-179.30	3228136.32	1223519.73	39°56'38.652"N	104°41'10.788"W	polygon
2) WAKEMAN 20-17-4NCH BHL (355'FNL & 1252'FEL, SEC.17)	17656.24	7458.00	9968.78	680.01	3228995.60	1233487.15	39°58'17.075"N	104°40'58.576"W	point
1) WAKEMAN 20-17-4NCH EP (460'FSL & 1252'FEL, SEC.20)		7458.00	168.94	812.02	3229127.60	1223687.61	39°56'40.221"N	104°40'58.041"W	point
SEC.17/20-T01S-R65W 460'SETBACK		7638.00	1.05	-179.30	3228136.32	1223519.73	39°56'38.652"N	104°41'10.788"W	polygon

SURVEY PROGRAM - Ref Wellbore: WAKEMAN 20-17-4NCH PWB Ref Wellpath: WAKEMAN 20-17-4NCH PWP (REV-B.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17656.24	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-4NCH PWB

Planned Wellpath Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)

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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
1501.31	8.026	118.640	1500.00	FOX HILLS
4889.86	8.654	118.640	4850.00	SUSSEX/SHANNON
7302.31	35.608	9.897	7215.00	NIOBRARA A CHALK
7324.76	37.798	9.070	7233.00	NIOBRARA A MARL
7572.18	62.155	3.244	7391.00	NIOBRARA B CHALK
7648.20	69.677	2.043	7422.00	NIOBRARA B MARL
7853.00	89.971	359.232	7458.00	NIOBRARA C CHALK

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Wagnjam
Scale	0.999971	Report Generated	10/25/2018 at 3:39:32 PM
Convergence at slot	0.53° East	Database/Source file	WA DENVER/WAKEMAN_20-17-4NCH_PWP_REV-B.0_CR.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-0.05	-44.95	3228315.61	1223518.68	39°56'38.625"N	104°41'08.486"W
Facility Reference Pt			3228360.56	1223518.73	39°56'38.622"N	104°41'07.909"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 (13'KB) (RKB) to Facility Vertical Datum	5203.00ft
Horizontal Reference Pt	Slot	RIG (13'KB) (RKB) to Mean Sea Level	5203.00ft
Vertical Reference Pt	RIG (13'KB) (RKB)	RIG (13'KB) (RKB) to Ground Level at Slot (SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20))	5203.00ft
MD Reference Pt	RIG (13'KB) (RKB)		
Field Vertical Reference	Mean Sea Level		

POSITIONAL UNCERTAINTY CALCULATION SETTINGS					
Ellipse Confidence Limit	3.00 Std Dev	Ellipse Start MD	13.00ft	Surface Position Uncertainty	Included
Declination	8.30° East of TN	Dip Angle	66.52°	Mag Field Strength	52153 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					

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

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

HOLE & CASING SECTIONS - Ref Wellbore: WAKEMAN 20-17-4NCH PWB Ref Wellpath: WAKEMAN 20-17-4NCH PWP (REV-B.0)

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]
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1795.31	0.00	0.00	-34.91	63.92
8.5in Open Hole	1800.00	17656.24	15856.24	1795.31	7458.00	-34.91	63.92	9968.78	680.01

SURVEY PROGRAM - Ref Wellbore: WAKEMAN 20-17-4NCH PWB Ref Wellpath: WAKEMAN 20-17-4NCH PWP (REV-B.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17656.24	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-4NCH PWB

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)

Closest Approach

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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CALCULATION RANGE & CUTOFF		
From: 13.00ft MD	To: 17656.24ft MD	C-C Cutoff: 1000.00 ft

OFFSET WELL CLEARANCE SUMMARY (27 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.17-T1S-R65W	SLOT#03 EX. AMOCO #44-17 (990'FSL & 1320'FEL,SEC.17,OG,PR,8130)	AMOCO #44-17	AMOCO #44-17 AWB	AMOCO #44-17 AWP	13708.92	53.56	13708.92	13707.03	0.14	13707.03	FAIL
SEC.20-T01S-R65W	SLOT#03 WAKEMAN 20-17-4NBH (293'FSL & 2053'FEL, SEC.20)	WAKEMAN 20-17-4NBH	WAKEMAN 20-17-4NBH PWB	WAKEMAN 20-17-4NBH PWP (REV-A.0)	13.00	15.00	13813.00	17656.24	0.65	17656.24	FAIL
SEC.20-T01S-R65W	SLOT#01 EX. BOX ELDER FARMS #41-20 (990'FNL & 990'FEL, SEC.20,OG,PA, 8145)	BOX ELDER FARMS #41-20	BOX ELDER FARMS #41-20 AWB	BOX ELDER FARMS #41-20 AWP	11696.90	225.00	11696.90	11713.00	0.68	11713.00	FAIL
SEC.20-T01S-R65W	SLOT#05 WAKEMAN 20-17-3CDH (293'FSL & 2083'FEL, SEC.20)	WAKEMAN 20-17-3CDH	WAKEMAN 20-17-3CDH PWB	WAKEMAN 20-17-3CDH PWP (REV-A.0)	13.00	15.00	17656.24	17656.24	0.74	17656.24	FAIL
SEC.20-T01S-R65W	SLOT#06 WAKEMAN 20-17-3NAH (293'FSL & 2098'FEL, SEC.20)	WAKEMAN 20-17-3NAH	WAKEMAN 20-17-3NAH PWB	WAKEMAN 20-17-3NAH PWP (REV-A.0)	13.00	30.03	17656.24	17656.24	0.96	17656.24	FAIL
SEC.20-T01S-R65W	SLOT#01 EX. WOLFE #1 (990'FSL & 990'FEL,SEC.20,OG,PR, 8200)	WOLFE #1	WOLFE #1 AWB	WOLFE #1 AWP	8400.24	238.19	8400.24	8419.47	0.98	8419.47	FAIL
SEC.20-T01S-R65W	SLOT#02 WAKEMAN 20-17-4NAH (293'FSL & 2038'FEL, SEC.20)	WAKEMAN 20-17-4NAH	WAKEMAN 20-17-4NAH PWB	WAKEMAN 20-17-4NAH PWP (REV-A.0)	13.00	29.95	13813.00	17656.24	1.22	17656.24	PASS
SEC.20-T01S-R65W	SLOT#07 WAKEMAN 20-17-3NBH (293'FSL & 2113'FEL, SEC.20)	WAKEMAN 20-17-3NBH	WAKEMAN 20-17-3NBH PWB	WAKEMAN 20-17-3NBH PWP (REV-A.0)	13.00	44.98	17656.24	17656.24	1.27	17656.24	PASS
SEC.20-T01S-R65W	SLOT#01 WAKEMAN 20-17-4CDH (293'FSL & 2023'FEL, SEC.20)	WAKEMAN 20-17-4CDH	WAKEMAN 20-17-4CDH PWB	WAKEMAN 20-17-4CDH PWB (REV-A.0)	13.00	44.95	13713.00	17656.24	1.32	17656.24	PASS
SEC.17-T01S-R65W	SLOT#01 EX. CHAVEZ #7-17 (1971'FNL & 1926'FEL,SEC.17,OG,SI, 8190)	CHAVEZ #7-17	CHAVEZ #7-17 AWB	CHAVEZ #7-17 AWP	16054.23	704.44	16054.23	16054.23	1.52	16054.23	PASS
SEC.20-T01S-R65W	SLOT#08 WAKEMAN 20-17-3NCH (293'FSL & 2128'FEL, SEC.20)	WAKEMAN 20-17-3NCH	WAKEMAN 20-17-3NCH PWB	WAKEMAN 20-17-3NCH PWP (REV-A.0)	13.00	60.03	17656.24	17656.24	1.89	17656.24	PASS
SEC.20-T01S-R65W	SLOT#09 WAKEMAN 20-17-2NBH (293'FSL & 2143'FEL, SEC.20)	WAKEMAN 20-17-2NBH	WAKEMAN 20-17-2NBH PWB	WAKEMAN 20-17-2NBH PWP (REV-A.0)	13.00	75.01	14348.41	17656.24	2.57	17656.24	PASS
SEC.20-T01S-R65W	SLOT#02 EX. BOX ELDER #32-20 (1980'FNL & 2080'FEL,SEC.20,OG,PR)	BOX ELDER #32-20	BOX ELDER #32-20 AWB	BOX ELDER #32-20 AWP	10720.86	875.35	10720.86	10720.86	2.92	10720.86	PASS
SEC.20-T01S-R65W	SLOT#10 WAKEMAN 20-17-2NCH (293'FSL & 2158'FEL, SEC.20)	WAKEMAN 20-17-2NCH	WAKEMAN 20-17-2NCH PWB	WAKEMAN 20-17-2NCH PWP (REV-A.0)	13.00	89.98	14348.41	17656.24	3.20	17656.24	PASS
SEC.20-T01S-R65W	SLOT#11 WAKEMAN 20-17-2NAH (293'FSL & 2173'FEL, SEC.20)	WAKEMAN 20-17-2NAH	WAKEMAN 20-17-2NAH PWB	WAKEMAN 20-17-2NAH PWP (REV-A.0)	13.00	105.04	14313.00	17656.24	3.71	17656.24	PASS
SEC.20-T01S-R65W	SLOT#12 WAKEMAN 20-17-2CDH (293'FSL & 2188'FEL, SEC.20)	WAKEMAN 20-17-2CDH	WAKEMAN 20-17-2CDH PWB	WAKEMAN 20-17-2CDH PWP (REV-A.0)	13.00	120.01	14348.41	17656.24	3.85	17656.24	PASS
SEC.20-T01S-R65W	SLOT#13 WAKEMAN 20-17-1NBH (293'FSL & 2203'FEL, SEC.20)	WAKEMAN 20-17-1NBH	WAKEMAN 20-17-1NBH PWB	WAKEMAN 20-17-1NBH PWP (REV-A.0)	13.00	135.02	14348.41	17656.24	4.46	17656.24	PASS
SEC.16-T01S-R65W	SLOT#01 EX STATE #11-16 (990'FNL & 990'FWL,SEC.16,OG,PR,8173)	STATE #11-16	STATE #11-16 AWB	STATE #11-16 AWP	17000.50	2231.66	17000.50	17266.90	4.49	17266.90	PASS
SEC.20-T01S-R65W	SLOT#14 WAKEMAN 20-17-1NCH (293'FSL & 2218'FEL, SEC.20)	WAKEMAN 20-17-1NCH	WAKEMAN 20-17-1NCH PWB	WAKEMAN 20-17-1NCH PWP (REV-A.0)	13.00	149.96	14348.41	17656.24	5.09	17656.24	PASS
SEC.20-T01S-R65W	SLOT#15 WAKEMAN 20-17-1NAH (293'FSL & 2233'FEL, SEC.20)	WAKEMAN 20-17-1NAH	WAKEMAN 20-17-1NAH PWB	WAKEMAN 20-17-1NAH PWP (REV-A.0)	13.00	165.02	14313.00	17656.24	5.58	17656.24	PASS
SEC.20-T01S-R65W	SLOT#16 WAKEMAN 20-17-1CDH (293'FSL & 2248'FEL, SEC.20)	WAKEMAN 20-17-1CDH	WAKEMAN 20-17-1CDH PWB	WAKEMAN 20-17-1CDH PWP (REV-B.0)	13.00	179.96	14613.00	17656.24	5.73	17656.24	PASS
SEC.20-T1S-R65W	SLOT#02 EX. COLLINS HH #20-3J (814'FNL & 1886'FWL,SEC.20,8163, PR)	COLLINS HH #20-3J	COLLINS HH #20-3J AWB	COLLINS HH #20-3J AWP	11908.00	2172.47	11908.00	12098.40	6.46	12098.40	PASS
SEC.17-T1S-R65W	SLOT#02 EX. AMOCO #24-17 (990'FSL & 1360'FWL,SEC.17,OG,PR,8130)	AMOCO #24-17	AMOCO #24-17	AMOCO #24-17 AWP	13426.47	2711.81	13426.47	14113.00	6.93	14113.00	PASS
SEC.16-T01S-R65W	SLOT#02 EX STATE #22-16 (1800'FNL & 2080'FWL, SEC.16, PR,8200)	STATE #22-16	STATE #22-16 AWB	STATE #22-16 AWP	16167.72	3323.04	16167.72	16737.51	6.96	16737.51	PASS
SEC.17-T1S-R65W	SLOT#01 EX. AMOCO #17-32 (2013'FSL & 464'FWL,SEC.17,OG,PR, 8140)	AMOCO #17-32	AMOCO #17-32 AWB	AMOCO #17-32 AWP	14575.50	3635.09	14575.50	15067.48	8.63	15067.48	PASS

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CALCULATION RANGE & CUTOFF		
From: 13.00ft MD	To: 17656.24ft MD	C-C Cutoff: 1000.00 ft

OFFSET WELL CLEARANCE SUMMARY (27 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.18-T01S-R65W	SLOT#01 EX PUTNAM 41-18 (990'FNL & 990'FEL, SEC.18, SI,8092)	PUTNAM 41-18	PUTNAM 41-18 AWB	PUTNAM 41-18 AWP	16963.00	5088.67	16963.00	17656.24	10.19	17656.24	PASS
SEC.20-T1S-R65W	SLOT#01 EX. COLLINS #14-20 (990'FSL & 990'FWL,SEC.20,OG,PR,8202)	COLLINS #14-20	COLLINS #14-20 AWB	COLLINS #14-20 AWP	113.00	2356.88	8413.00	8764.12	12.02	9013.00	PASS

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: AMOCO #44-17 AWB Offset Wellpath: AMOCO #44-17 AWP

Facility: SEC.17-T1S-R65W Slot: SLOT#03 EX. AMOCO #44-17 (990'FSL & 1320'FEL, SEC.17, OG, PR, 8130) Well: AMOCO #44-17 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
13.00	13.00	0.00	0.00	-13.00	46.00	6023.83	712.97	6.75	6065.97	25.40	246.54	PASS
113.00†	113.00	0.00	0.00	54.00	113.00	6023.83	712.97	6.75	6065.88	51.27	120.18	PASS
213.00†	213.00	0.00	0.00	154.00	213.00	6023.83	712.97	6.75	6065.88	53.61	114.86	PASS
313.00†	313.00	0.00	0.00	254.00	313.00	6023.83	712.97	6.75	6065.88	55.74	109.98	PASS
413.00†	413.00	0.00	0.00	354.00	413.00	6023.83	712.97	6.75	6065.88	58.09	105.49	PASS
513.00†	513.00	0.00	0.00	454.00	513.00	6023.83	712.97	6.75	6065.88	60.44	101.34	PASS
613.00†	613.00	0.00	0.00	554.00	613.00	6023.83	712.97	6.75	6065.88	62.79	97.51	PASS
713.00†	713.00	0.00	0.00	654.00	713.00	6023.83	712.97	6.75	6065.88	65.15	93.94	PASS
813.00†	813.00	0.00	0.00	754.00	813.00	6023.83	712.97	6.75	6065.88	67.52	90.62	PASS
913.00†	913.00	0.00	0.00	854.00	913.00	6023.83	712.97	6.75	6065.88	69.88	87.53	PASS
1013.00†	1013.00	0.00	0.00	954.00	1013.00	6023.83	712.97	6.75	6065.88	72.26	84.63	PASS
1100.00	1100.00	0.00	0.00	1041.00	1100.00	6023.83	712.97	6.75	6065.88	74.32	82.26	PASS
1113.00†	1113.00	-0.01	0.03	1054.00	1113.00	6023.83	712.97	-111.89	6065.89	74.63	81.92	PASS
1213.00†	1212.97	-1.07	1.96	1153.97	1212.97	6023.83	712.97	-111.89	6066.71	77.01	79.38	PASS
1313.00†	1312.80	-3.79	6.95	1253.80	1312.80	6023.83	712.97	-111.90	6068.83	79.40	77.00	PASS
1413.00†	1412.38	-8.19	14.99	1353.38	1412.38	6023.83	712.97	-111.92	6072.27	81.79	74.77	PASS
1513.00†	1511.57	-14.24	26.08	1452.57	1511.57	6023.83	712.97	-111.94	6077.02	84.18	72.69	PASS
1532.69	1531.05	-15.63	28.62	1472.05	1531.05	6023.83	712.97	-111.95	6078.11	84.65	72.30	PASS
1613.00†	1610.44	-21.42	39.23	1551.44	1610.44	6023.83	712.97	-112.05	6082.68	86.57	70.74	PASS
1713.00†	1709.30	-28.64	52.43	1650.30	1709.30	6023.83	712.97	-112.18	6088.40	88.97	68.88	PASS
1813.00†	1808.17	-35.85	65.64	1749.17	1808.17	6023.83	712.97	-112.31	6094.16	91.33	67.12	PASS
1913.00†	1907.03	-43.06	78.85	1848.03	1907.03	6023.83	712.97	-112.44	6099.94	93.75	65.44	PASS
2013.00†	2005.89	-50.27	92.05	1946.89	2005.89	6023.83	712.97	-112.57	6105.76	96.18	63.84	PASS
2113.00†	2104.75	-57.48	105.26	2045.75	2104.75	6023.83	712.97	-112.70	6111.60	98.62	62.31	PASS
2213.00†	2203.61	-64.70	118.46	2144.61	2203.61	6023.83	712.97	-112.83	6117.48	101.07	60.85	PASS
2313.00†	2302.47	-71.91	131.67	2243.47	2302.47	6023.83	712.97	-112.96	6123.39	103.53	59.45	PASS
2413.00†	2401.33	-79.12	144.87	2342.33	2401.33	6023.83	712.97	-113.08	6129.33	106.00	58.11	PASS
2513.00†	2500.20	-86.33	158.08	2441.20	2500.20	6023.83	712.97	-113.21	6135.31	108.48	56.83	PASS
2613.00†	2599.06	-93.54	171.28	2540.06	2599.06	6023.83	712.97	-113.34	6141.31	110.97	55.61	PASS
2713.00†	2697.92	-100.75	184.49	2638.92	2697.92	6023.83	712.97	-113.47	6147.34	113.47	54.43	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: AMOCO #44-17 AWB Offset Wellpath: AMOCO #44-17 AWP

Facility: SEC.17-T1S-R65W Slot: SLOT#03 EX. AMOCO #44-17 (990'FSL & 1320'FEL, SEC.17, OG, PR, 8130) Well: AMOCO #44-17 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
2813.00†	2796.78	-107.97	197.69	2737.78	2796.78	6023.83	712.97	-113.60	6153.41	115.98	53.30	PASS
2913.00†	2895.64	-115.18	210.90	2836.64	2895.64	6023.83	712.97	-113.72	6159.50	118.50	52.21	PASS
3013.00†	2994.50	-122.39	224.11	2935.50	2994.50	6023.83	712.97	-113.85	6165.63	121.02	51.17	PASS
3113.00†	3093.37	-129.60	237.31	3034.37	3093.37	6023.83	712.97	-113.98	6171.79	123.56	50.17	PASS
3213.00†	3192.23	-136.81	250.52	3133.23	3192.23	6023.83	712.97	-114.10	6177.98	126.10	49.20	PASS
3313.00†	3291.09	-144.03	263.72	3232.09	3291.09	6023.83	712.97	-114.23	6184.20	128.65	48.27	PASS
3413.00†	3389.95	-151.24	276.93	3330.95	3389.95	6023.83	712.97	-114.35	6190.44	131.20	47.37	PASS
3513.00†	3488.81	-158.45	290.13	3429.81	3488.81	6023.83	712.97	-114.48	6196.72	133.77	46.51	PASS
3613.00†	3587.67	-165.66	303.34	3528.67	3587.67	6023.83	712.97	-114.60	6203.03	136.34	45.67	PASS
3713.00†	3686.53	-172.87	316.54	3627.53	3686.53	6023.83	712.97	-114.73	6209.37	138.92	44.87	PASS
3813.00†	3785.40	-180.08	329.75	3726.40	3785.40	6023.83	712.97	-114.85	6215.74	141.50	44.09	PASS
3913.00†	3884.26	-187.30	342.96	3825.26	3884.26	6023.83	712.97	-114.98	6222.14	144.09	43.34	PASS
4013.00†	3983.12	-194.51	356.16	3924.12	3983.12	6023.83	712.97	-115.10	6228.57	146.69	42.62	PASS
4113.00†	4081.98	-201.72	369.37	4022.98	4081.98	6023.83	712.97	-115.23	6235.03	149.29	41.91	PASS
4213.00†	4180.84	-208.93	382.57	4121.84	4180.84	6023.83	712.97	-115.35	6241.51	151.90	41.23	PASS
4313.00†	4279.70	-216.14	395.78	4220.70	4279.70	6023.83	712.97	-115.47	6248.03	154.51	40.58	PASS
4413.00†	4378.57	-223.36	408.98	4319.57	4378.57	6023.83	712.97	-115.60	6254.58	157.13	39.94	PASS
4513.00†	4477.43	-230.57	422.19	4418.43	4477.43	6023.83	712.97	-115.72	6261.15	159.76	39.32	PASS
4613.00†	4576.29	-237.78	435.39	4517.29	4576.29	6023.83	712.97	-115.84	6267.76	162.39	38.72	PASS
4713.00†	4675.15	-244.99	448.60	4616.15	4675.15	6023.83	712.97	-115.97	6274.39	165.02	38.14	PASS
4813.00†	4774.01	-252.20	461.80	4715.01	4774.01	6023.83	712.97	-116.09	6281.06	167.66	37.58	PASS
4913.00†	4872.87	-259.42	475.01	4813.87	4872.87	6023.83	712.97	-116.21	6287.75	170.30	37.04	PASS
5013.00†	4971.73	-266.63	488.22	4912.73	4971.73	6023.83	712.97	-116.33	6294.47	172.95	36.51	PASS
5113.00†	5070.60	-273.84	501.42	5011.60	5070.60	6023.83	712.97	-116.45	6301.22	175.60	35.99	PASS
5213.00†	5169.46	-281.05	514.63	5110.46	5169.46	6023.83	712.97	-116.58	6308.00	178.26	35.49	PASS
5313.00†	5268.32	-288.26	527.83	5209.32	5268.32	6023.83	712.97	-116.70	6314.81	180.92	35.01	PASS
5413.00†	5367.18	-295.47	541.04	5308.18	5367.18	6023.83	712.97	-116.82	6321.64	183.58	34.53	PASS
5513.00†	5466.04	-302.69	554.24	5407.04	5466.04	6023.83	712.97	-116.94	6328.51	186.24	34.08	PASS
5613.00†	5564.90	-309.90	567.45	5505.90	5564.90	6023.83	712.97	-117.06	6335.40	188.91	33.63	PASS
5713.00†	5663.77	-317.11	580.65	5604.77	5663.77	6023.83	712.97	-117.18	6342.32	191.59	33.20	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: AMOCO #44-17 AWB Offset Wellpath: AMOCO #44-17 AWP

Facility: SEC.17-T1S-R65W Slot: SLOT#03 EX. AMOCO #44-17 (990'FSL & 1320'FEL, SEC.17, OG, PR, 8130) Well: AMOCO #44-17 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
5813.00†	5762.63	-324.32	593.86	5703.63	5762.63	6023.83	712.97	-117.30	6349.27	194.26	32.77	PASS
5913.00†	5861.49	-331.53	607.07	5802.49	5861.49	6023.83	712.97	-117.42	6356.25	196.94	32.36	PASS
6013.00†	5960.35	-338.75	620.27	5901.35	5960.35	6023.83	712.97	-117.54	6363.25	199.63	31.96	PASS
6113.00†	6059.21	-345.96	633.48	6000.21	6059.21	6023.83	712.97	-117.65	6370.28	202.31	31.57	PASS
6213.00†	6158.07	-353.17	646.68	6099.07	6158.07	6023.83	712.97	-117.77	6377.34	205.00	31.19	PASS
6313.00†	6256.93	-360.38	659.89	6197.93	6256.93	6023.83	712.97	-117.89	6384.43	207.69	30.82	PASS
6413.00†	6355.80	-367.59	673.09	6296.80	6355.80	6023.83	712.97	-118.01	6391.55	210.38	30.46	PASS
6513.00†	6454.66	-374.80	686.30	6395.66	6454.66	6023.83	712.97	-118.13	6398.69	213.07	30.10	PASS
6613.00†	6553.52	-382.02	699.50	6494.52	6553.52	6023.83	712.97	-118.25	6405.86	215.77	29.76	PASS
6713.00†	6652.38	-389.23	712.71	6593.38	6652.38	6023.83	712.97	-118.36	6413.06	218.47	29.42	PASS
6813.00†	6751.24	-396.44	725.91	6692.24	6751.24	6023.83	712.97	-118.48	6420.28	221.17	29.10	PASS
6910.92	6848.04	-403.50	738.84	6789.04	6848.04	6023.83	712.97	-118.59	6427.38	223.82	28.78	PASS
6913.00†	6850.10	-403.65	739.12	6791.10	6850.10	6023.83	712.97	-117.39	6427.53	223.88	28.78	PASS
7013.00†	6949.10	-401.78	752.22	6890.10	6949.10	6023.83	712.97	-51.46	6425.73	226.77	28.40	PASS
7113.00†	7046.29	-382.60	764.85	6987.29	7046.29	6023.83	712.97	-25.41	6406.64	230.25	27.89	PASS
7213.00†	7138.74	-346.69	776.62	7079.74	7138.74	6023.83	712.97	-16.62	6370.84	233.63	27.33	PASS
7313.00†	7223.63	-295.15	787.19	7164.63	7223.63	6023.83	712.97	-12.60	6319.42	236.58	26.77	PASS
7413.00†	7298.39	-229.54	796.21	7239.39	7298.39	6023.83	712.97	-10.44	6253.92	239.10	26.21	PASS
7513.00†	7360.73	-151.85	803.43	7301.73	7360.73	6023.83	712.97	-9.21	6176.34	241.12	25.67	PASS
7613.00†	7408.78	-64.45	808.63	7349.78	7408.78	6023.83	712.97	-8.57	6089.03	242.62	25.15	PASS
7713.00†	7441.06	30.02	811.63	7382.06	7441.06	6023.83	712.97	-8.48	5994.63	243.59	24.66	PASS
7813.00†	7456.60	128.67	812.36	7397.60	7456.60	6023.83	712.97	-10.29	5896.00	244.05	24.21	PASS
7853.29	7458.00	168.93	812.01	7399.00	7458.00	6023.83	712.97	-90.00	5855.74	244.09	24.04	PASS
7913.00†	7458.00	228.63	811.20	7399.00	7458.00	6023.83	712.97	-90.00	5796.03	244.10	23.80	PASS
8013.00†	7458.00	328.62	809.86	7399.00	7458.00	6023.83	712.97	-90.00	5696.03	244.11	23.38	PASS
8113.00†	7458.00	428.61	808.51	7399.00	7458.00	6023.83	712.97	-90.00	5596.03	244.12	22.97	PASS
8213.00†	7458.00	528.60	807.16	7399.00	7458.00	6023.83	712.97	-90.00	5496.03	244.13	22.56	PASS
8313.00†	7458.00	628.60	805.81	7399.00	7458.00	6023.83	712.97	-90.00	5396.03	244.15	22.15	PASS
8413.00†	7458.00	728.59	804.47	7399.00	7458.00	6023.83	712.97	-90.00	5296.03	244.17	21.74	PASS
8513.00†	7458.00	828.58	803.12	7399.00	7458.00	6023.83	712.97	-90.00	5196.04	244.18	21.32	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: AMOCO #44-17 AWB Offset Wellpath: AMOCO #44-17 AWP

Facility: SEC.17-T1S-R65W Slot: SLOT#03 EX. AMOCO #44-17 (990'FSL & 1320'FEL, SEC.17, OG, PR, 8130) Well: AMOCO #44-17 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
8613.00†	7458.00	928.57	801.77	7399.00	7458.00	6023.83	712.97	-90.00	5096.04	244.21	20.91	PASS
8713.00†	7458.00	1028.56	800.42	7399.00	7458.00	6023.83	712.97	-90.00	4996.04	244.23	20.50	PASS
8813.00†	7458.00	1128.55	799.08	7399.00	7458.00	6023.83	712.97	-90.00	4896.04	244.25	20.09	PASS
8913.00†	7458.00	1228.54	797.73	7399.00	7458.00	6023.83	712.97	-90.00	4796.04	244.27	19.68	PASS
9013.00†	7458.00	1328.53	796.38	7399.00	7458.00	6023.83	712.97	-90.00	4696.04	244.30	19.26	PASS
9113.00†	7458.00	1428.52	795.03	7399.00	7458.00	6023.83	712.97	-90.00	4596.04	244.33	18.85	PASS
9213.00†	7458.00	1528.51	793.69	7399.00	7458.00	6023.83	712.97	-90.00	4496.04	244.36	18.44	PASS
9313.00†	7458.00	1628.50	792.34	7399.00	7458.00	6023.83	712.97	-90.00	4396.04	244.39	18.03	PASS
9413.00†	7458.00	1728.50	790.99	7399.00	7458.00	6023.83	712.97	-90.00	4296.04	244.42	17.61	PASS
9513.00†	7458.00	1828.49	789.65	7399.00	7458.00	6023.83	712.97	-90.00	4196.04	244.46	17.20	PASS
9613.00†	7458.00	1928.48	788.30	7399.00	7458.00	6023.83	712.97	-90.00	4096.05	244.49	16.79	PASS
9713.00†	7458.00	2028.47	786.95	7399.00	7458.00	6023.83	712.97	-90.00	3996.05	244.53	16.38	PASS
9813.00†	7458.00	2128.46	785.60	7399.00	7458.00	6023.83	712.97	-90.00	3896.05	244.57	15.96	PASS
9913.00†	7458.00	2228.45	784.26	7399.00	7458.00	6023.83	712.97	-90.00	3796.05	244.62	15.55	PASS
10013.00†	7458.00	2328.44	782.91	7399.00	7458.00	6023.83	712.97	-90.00	3696.05	244.66	15.14	PASS
10113.00†	7458.00	2428.43	781.56	7399.00	7458.00	6023.83	712.97	-90.00	3596.05	244.71	14.73	PASS
10213.00†	7458.00	2528.42	780.21	7399.00	7458.00	6023.83	712.97	-90.00	3496.05	244.75	14.31	PASS
10313.00†	7458.00	2628.41	778.87	7399.00	7458.00	6023.83	712.97	-90.00	3396.06	244.80	13.90	PASS
10413.00†	7458.00	2728.40	777.52	7399.00	7458.00	6023.83	712.97	-90.00	3296.06	244.86	13.49	PASS
10513.00†	7458.00	2828.40	776.17	7399.00	7458.00	6023.83	712.97	-90.00	3196.06	244.91	13.08	PASS
10613.00†	7458.00	2928.39	774.82	7399.00	7458.00	6023.83	712.97	-90.00	3096.06	244.97	12.66	PASS
10713.00†	7458.00	3028.38	773.48	7399.00	7458.00	6023.83	712.97	-90.00	2996.06	245.03	12.25	PASS
10813.00†	7458.00	3128.37	772.13	7399.00	7458.00	6023.83	712.97	-90.00	2896.07	245.09	11.84	PASS
10913.00†	7458.00	3228.36	770.78	7399.00	7458.00	6023.83	712.97	-90.00	2796.07	245.16	11.43	PASS
11013.00†	7458.00	3328.35	769.43	7399.00	7458.00	6023.83	712.97	-90.00	2696.07	245.23	11.02	PASS
11113.00†	7458.00	3428.34	768.09	7399.00	7458.00	6023.83	712.97	-90.00	2596.07	245.30	10.60	PASS
11213.00†	7458.00	3528.33	766.74	7399.00	7458.00	6023.83	712.97	-90.00	2496.08	245.38	10.19	PASS
11313.00†	7458.00	3628.32	765.39	7399.00	7458.00	6023.83	712.97	-90.00	2396.08	245.46	9.78	PASS
11413.00†	7458.00	3728.31	764.05	7399.00	7458.00	6023.83	712.97	-90.00	2296.08	245.54	9.37	PASS
11513.00†	7458.00	3828.30	762.70	7399.00	7458.00	6023.83	712.97	-90.00	2196.09	245.63	8.96	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: AMOCO #44-17 AWB Offset Wellpath: AMOCO #44-17 AWP

Facility: SEC.17-T1S-R65W Slot: SLOT#03 EX. AMOCO #44-17 (990'FSL & 1320'FEL, SEC.17, OG, PR, 8130) Well: AMOCO #44-17 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
11613.00†	7458.00	3928.30	761.35	7399.00	7458.00	6023.83	712.97	-90.00	2096.09	245.72	8.55	PASS
11713.00†	7458.00	4028.29	760.00	7399.00	7458.00	6023.83	712.97	-90.00	1996.10	245.82	8.14	PASS
11813.00†	7458.00	4128.28	758.66	7399.00	7458.00	6023.83	712.97	-90.00	1896.10	245.93	7.72	PASS
11913.00†	7458.00	4228.27	757.31	7399.00	7458.00	6023.83	712.97	-90.00	1796.11	246.04	7.31	PASS
12013.00†	7458.00	4328.26	755.96	7399.00	7458.00	6023.83	712.97	-90.00	1696.12	246.16	6.90	PASS
12113.00†	7458.00	4428.25	754.61	7399.00	7458.00	6023.83	712.97	-90.00	1596.12	246.29	6.49	PASS
12213.00†	7458.00	4528.24	753.27	7399.00	7458.00	6023.83	712.97	-90.00	1496.13	246.44	6.08	PASS
12313.00†	7458.00	4628.23	751.92	7399.00	7458.00	6023.83	712.97	-90.00	1396.14	246.60	5.67	PASS
12413.00†	7458.00	4728.22	750.57	7399.00	7458.00	6023.83	712.97	-90.00	1296.15	246.77	5.26	PASS
12513.00†	7458.00	4828.21	749.22	7399.00	7458.00	6023.83	712.97	-90.00	1196.17	246.97	4.85	PASS
12613.00†	7458.00	4928.20	747.88	7399.00	7458.00	6023.83	712.97	-90.00	1096.18	247.19	4.44	PASS
12713.00†	7458.00	5028.20	746.53	7399.00	7458.00	6023.83	712.97	-90.00	996.20	247.45	4.03	PASS
12813.00†	7458.00	5128.19	745.18	7399.00	7458.00	6023.83	712.97	-90.00	896.22	247.76	3.62	PASS
12913.00†	7458.00	5228.18	743.84	7399.00	7458.00	6023.83	712.97	-90.00	796.25	248.13	3.21	PASS
13013.00†	7458.00	5328.17	742.49	7399.00	7458.00	6023.83	712.97	-90.00	696.29	248.60	2.80	PASS
13113.00†	7458.00	5428.16	741.14	7399.00	7458.00	6023.83	712.97	-90.00	596.34	249.21	2.40	PASS
13153.29	7458.00	5468.45	740.60	7399.00	7458.00	6023.83	712.97	-90.00	556.07	249.51	2.23	PASS
13213.00†	7458.00	5528.15	740.42	7399.00	7458.00	6023.83	712.97	-90.00	496.44	250.20	1.99	PASS
13313.00†	7458.00	5628.12	742.90	7399.00	7458.00	6023.83	712.97	-90.00	396.84	252.70	1.57	PASS
13413.00†	7458.00	5727.94	748.87	7399.00	7458.00	6023.83	712.97	-90.00	298.06	258.66	1.15	PASS
13466.89	7458.00	5781.62	753.53	7399.00	7458.00	6023.83	712.97	-90.00	245.58	265.03	0.93	FAIL
13513.00†	7458.00	5827.55	757.58	7399.00	7458.00	6023.83	712.97	-90.00	201.28	273.53	0.74	FAIL
13613.00†	7458.00	5927.35	763.82	7399.00	7458.00	6023.83	712.97	-90.00	109.06	312.96	0.35	FAIL
13707.03†	7458.00	6021.34	766.50	7399.00	7458.00	6023.83	712.97	-90.00	53.59	390.91	0.14	FAIL
13708.92†	7458.00	6023.23	766.53	7398.94	7457.94	6023.83	712.97	-89.93	53.56	390.31	0.14	FAIL
13713.00†	7458.00	6027.31	766.57	7399.00	7458.00	6023.83	712.97	-90.00	53.71	388.26	0.14	FAIL
13813.00†	7458.00	6127.30	765.83	7399.00	7458.00	6023.83	712.97	-90.00	116.19	274.99	0.42	FAIL
13913.00†	7458.00	6227.21	761.61	7399.00	7458.00	6023.83	712.97	-90.00	209.11	244.43	0.86	FAIL
14013.00†	7458.00	6326.91	753.90	7399.00	7458.00	6023.83	712.97	-90.00	305.83	239.28	1.28	PASS
14066.89	7458.00	6380.50	748.30	7399.00	7458.00	6023.83	712.97	-90.00	358.42	239.43	1.50	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: AMOCO #44-17 AWB Offset Wellpath: AMOCO #44-17 AWP

Facility: SEC.17-T1S-R65W Slot: SLOT#03 EX. AMOCO #44-17 (990'FSL & 1320'FEL, SEC.17, OG, PR, 8130) Well: AMOCO #44-17 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
14113.00†	7458.00	6426.36	743.45	7399.00	7458.00	6023.83	712.97	-90.00	403.68	240.12	1.68	PASS
14213.00†	7458.00	6526.03	735.47	7399.00	7458.00	6023.83	712.97	-90.00	502.71	241.73	2.08	PASS
14313.00†	7458.00	6625.93	730.97	7399.00	7458.00	6023.83	712.97	-90.00	602.37	242.80	2.48	PASS
14348.41	7458.00	6661.33	730.21	7399.00	7458.00	6023.83	712.97	-90.00	637.73	243.04	2.63	PASS
14413.00†	7458.00	6725.91	729.23	7399.00	7458.00	6023.83	712.97	-90.00	702.27	243.38	2.89	PASS
14513.00†	7458.00	6825.90	727.72	7399.00	7458.00	6023.83	712.97	-90.00	802.20	243.84	3.30	PASS
14613.00†	7458.00	6925.89	726.20	7399.00	7458.00	6023.83	712.97	-90.00	902.15	244.22	3.70	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: AMOCO #44-17 AWB Offset Wellpath: AMOCO #44-17 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: AMOCO #44-17 AWB Offset Wellpath: AMOCO #44-17 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]
13.75in Open Hole	0.00	224.00	224.00	46.00	270.00	3674.05	417.70	3674.05	417.70
9.625in Casing Surface	0.00	224.00	224.00	46.00	270.00	3674.05	417.70	3674.05	417.70
7.875in Open Hole	224.00	8129.00	7905.00	270.00	8175.00	3674.05	417.70	3674.05	417.70
4.5in Casing Production	0.00	8129.00	8129.00	46.00	8175.00	3674.05	417.70	3674.05	417.70

WELLPATH COMPOSITION - Offset Wellbore: AMOCO #44-17 AWB Offset Wellpath: AMOCO #44-17 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8130.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL COGCC <8130>	AMOCO #44-17 AWB

Clearance Report
WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: AMOCO #44-17 AWB Offset Wellpath: AMOCO #44-17 AWP	
MD Reference: Rig on SLOT#03 EX. AMOCO #44-17 (990'FSL & 1320'FWL,SEC.17,OG,PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4NBH PWB Offset Wellpath: WAKEMAN 20-17-4NBH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#03 WAKEMAN 20-17-4NBH (293'FSL & 2053'FEL, SEC.20) Well: WAKEMAN 20-17-4NBH 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
13.00	13.00	0.00	0.00	13.00	13.00	0.06	15.00	89.75	15.00	1.40	23.67	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	0.06	15.00	89.75	15.00	1.73	15.29	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	0.06	15.00	89.75	15.00	2.31	9.44	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	0.06	15.00	89.75	15.00	2.91	6.73	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	0.06	15.00	89.75	15.00	3.53	5.21	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	0.06	15.00	89.75	15.00	4.15	4.24	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	0.06	15.00	89.75	15.00	4.77	3.58	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	0.06	15.00	89.75	15.00	5.40	3.09	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	0.06	15.00	89.75	15.00	6.02	2.72	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	0.06	15.00	89.75	15.00	6.65	2.43	PASS
1013.00†	1013.00	0.00	0.00	1012.94	1012.94	0.05	15.03	89.75	15.03	7.27	2.20	PASS
1100.00	1100.00	0.00	0.00	1099.47	1099.45	-0.54	16.62	91.86	16.64	7.90	2.23	PASS
1113.00†	1113.00	-0.01	0.03	1112.39	1112.36	-0.70	17.07	-26.32	17.07	8.00	2.26	PASS
1213.00†	1212.97	-1.07	1.96	1211.71	1211.52	-2.67	22.33	-24.11	20.49	9.04	2.39	PASS
1313.00†	1312.80	-3.79	6.95	1310.90	1310.29	-5.82	30.79	-23.66	24.06	10.22	2.47	PASS
1413.00†	1412.38	-8.19	14.99	1409.97	1408.57	-10.16	42.44	-24.30	27.78	11.30	2.57	PASS
1513.00†	1511.57	-14.24	26.08	1508.91	1506.24	-15.68	57.25	-25.63	31.65	12.30	2.68	PASS
1532.69	1531.05	-15.63	28.62	1528.38	1525.39	-16.90	60.53	-25.95	32.43	12.46	2.71	PASS
1613.00†	1610.44	-21.42	39.23	1607.83	1603.29	-22.36	75.17	-26.64	36.66	13.03	2.93	PASS
1713.00†	1709.30	-28.64	52.43	1707.64	1700.96	-29.54	94.43	-26.90	42.82	13.63	3.28	PASS
1813.00†	1808.17	-35.85	65.64	1807.45	1798.63	-36.71	113.69	-27.09	48.99	14.17	3.59	PASS
1913.00†	1907.03	-43.06	78.85	1907.26	1896.30	-43.89	132.95	-27.24	55.16	14.82	3.86	PASS
2013.00†	2005.89	-50.27	92.05	2007.07	1993.97	-51.07	152.21	-27.36	61.33	15.51	4.10	PASS
2113.00†	2104.75	-57.48	105.26	2106.88	2091.64	-58.25	171.47	-27.46	67.50	16.20	4.31	PASS
2213.00†	2203.61	-64.70	118.46	2206.69	2189.31	-65.43	190.73	-27.54	73.67	16.91	4.50	PASS
2313.00†	2302.47	-71.91	131.67	2306.50	2286.98	-72.61	209.99	-27.61	79.84	17.63	4.68	PASS
2413.00†	2401.33	-79.12	144.87	2406.31	2384.65	-79.78	229.25	-27.66	86.02	18.36	4.83	PASS
2513.00†	2500.20	-86.33	158.08	2506.11	2482.32	-86.96	248.51	-27.72	92.19	19.11	4.97	PASS
2613.00†	2599.06	-93.54	171.28	2605.92	2579.99	-94.14	267.77	-27.76	98.36	19.87	5.10	PASS
2713.00†	2697.92	-100.75	184.49	2705.73	2677.66	-101.32	287.03	-27.80	104.53	20.63	5.21	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4NBH PWB Offset Wellpath: WAKEMAN 20-17-4NBH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#03 WAKEMAN 20-17-4NBH (293'FSL & 2053'FEL, SEC.20) Well: WAKEMAN 20-17-4NBH 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
2813.00†	2796.78	-107.97	197.69	2805.54	2775.33	-108.50	306.29	-27.83	110.70	21.40	5.32	PASS
2913.00†	2895.64	-115.18	210.90	2905.35	2873.00	-115.67	325.55	-27.87	116.87	22.18	5.41	PASS
3013.00†	2994.50	-122.39	224.11	3005.16	2970.67	-122.85	344.81	-27.89	123.04	22.96	5.50	PASS
3113.00†	3093.37	-129.60	237.31	3104.97	3068.34	-130.03	364.07	-27.92	129.21	23.75	5.58	PASS
3213.00†	3192.23	-136.81	250.52	3204.78	3166.01	-137.21	383.34	-27.94	135.38	24.54	5.65	PASS
3313.00†	3291.09	-144.03	263.72	3304.59	3263.68	-144.39	402.60	-27.96	141.55	25.34	5.72	PASS
3413.00†	3389.95	-151.24	276.93	3404.40	3361.35	-151.56	421.86	-27.98	147.72	26.14	5.78	PASS
3513.00†	3488.81	-158.45	290.13	3504.21	3459.02	-158.74	441.12	-28.00	153.90	26.95	5.84	PASS
3613.00†	3587.67	-165.66	303.34	3604.02	3556.69	-165.92	460.38	-28.02	160.07	27.75	5.89	PASS
3713.00†	3686.53	-172.87	316.54	3703.83	3654.36	-173.10	479.64	-28.03	166.24	28.56	5.94	PASS
3813.00†	3785.40	-180.08	329.75	3803.64	3752.03	-180.28	498.90	-28.05	172.41	29.38	5.99	PASS
3913.00†	3884.26	-187.30	342.96	3903.45	3849.70	-187.46	518.16	-28.06	178.58	30.19	6.03	PASS
4013.00†	3983.12	-194.51	356.16	4003.26	3947.37	-194.63	537.42	-28.07	184.75	31.01	6.07	PASS
4113.00†	4081.98	-201.72	369.37	4103.07	4045.04	-201.81	556.68	-28.08	190.92	31.83	6.11	PASS
4213.00†	4180.84	-208.93	382.57	4202.87	4142.71	-208.99	575.94	-28.09	197.09	32.65	6.15	PASS
4313.00†	4279.70	-216.14	395.78	4302.68	4240.38	-216.17	595.20	-28.10	203.26	33.47	6.18	PASS
4413.00†	4378.57	-223.36	408.98	4402.49	4338.05	-223.35	614.46	-28.11	209.43	34.30	6.21	PASS
4513.00†	4477.43	-230.57	422.19	4502.30	4435.72	-230.52	633.72	-28.12	215.61	35.13	6.24	PASS
4613.00†	4576.29	-237.78	435.39	4602.11	4533.39	-237.70	652.98	-28.13	221.78	35.95	6.27	PASS
4713.00†	4675.15	-244.99	448.60	4701.92	4631.06	-244.88	672.24	-28.14	227.95	36.78	6.30	PASS
4813.00†	4774.01	-252.20	461.80	4801.73	4728.73	-252.06	691.50	-28.14	234.12	37.61	6.32	PASS
4913.00†	4872.87	-259.42	475.01	4901.54	4826.40	-259.24	710.76	-28.15	240.29	38.44	6.35	PASS
5013.00†	4971.73	-266.63	488.22	5001.35	4924.07	-266.41	730.02	-28.16	246.46	39.28	6.37	PASS
5113.00†	5070.60	-273.84	501.42	5101.16	5021.74	-273.59	749.28	-28.17	252.63	40.11	6.39	PASS
5213.00†	5169.46	-281.05	514.63	5200.97	5119.41	-280.77	768.54	-28.17	258.80	40.94	6.41	PASS
5313.00†	5268.32	-288.26	527.83	5300.78	5217.08	-287.95	787.80	-28.18	264.97	41.78	6.43	PASS
5413.00†	5367.18	-295.47	541.04	5400.59	5314.75	-295.13	807.07	-28.18	271.15	42.62	6.45	PASS
5513.00†	5466.04	-302.69	554.24	5500.40	5412.42	-302.31	826.33	-28.19	277.32	43.45	6.47	PASS
5613.00†	5564.90	-309.90	567.45	5600.21	5510.09	-309.48	845.59	-28.19	283.49	44.29	6.49	PASS
5713.00†	5663.77	-317.11	580.65	5700.02	5607.76	-316.66	864.85	-28.20	289.66	45.13	6.50	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4NBH PWB Offset Wellpath: WAKEMAN 20-17-4NBH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#03 WAKEMAN 20-17-4NBH (293'FSL & 2053'FEL, SEC.20) Well: WAKEMAN 20-17-4NBH 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
5813.00†	5762.63	-324.32	593.86	5799.83	5705.43	-323.84	884.11	-28.20	295.83	45.97	6.52	PASS
5913.00†	5861.49	-331.53	607.07	5899.63	5803.10	-331.02	903.37	-28.21	302.00	46.81	6.54	PASS
6013.00†	5960.35	-338.75	620.27	5999.44	5900.77	-338.20	922.63	-28.21	308.17	47.65	6.55	PASS
6113.00†	6059.21	-345.96	633.48	6099.25	5998.44	-345.37	941.89	-28.22	314.34	48.49	6.56	PASS
6213.00†	6158.07	-353.17	646.68	6199.06	6096.11	-352.55	961.15	-28.22	320.52	49.33	6.58	PASS
6313.00†	6256.93	-360.38	659.89	6298.87	6193.78	-359.73	980.41	-28.22	326.69	50.17	6.59	PASS
6413.00†	6355.80	-367.59	673.09	6398.68	6291.45	-366.91	999.67	-28.23	332.86	51.01	6.60	PASS
6513.00†	6454.66	-374.80	686.30	6498.49	6389.12	-374.09	1018.93	-28.23	339.03	51.86	6.61	PASS
6613.00†	6553.52	-382.02	699.50	6598.30	6486.79	-381.26	1038.19	-28.23	345.20	52.70	6.63	PASS
6713.00†	6652.38	-389.23	712.71	6698.11	6584.46	-388.44	1057.45	-28.24	351.37	53.54	6.64	PASS
6813.00†	6751.24	-396.44	725.91	6797.92	6682.13	-395.62	1076.71	-28.24	357.54	54.39	6.65	PASS
6910.92	6848.04	-403.50	738.84	6895.65	6777.76	-402.65	1095.57	-28.24	363.58	55.21	6.66	PASS
6913.00†	6850.10	-403.65	739.12	6897.73	6779.80	-402.80	1095.97	-27.05	363.71	55.23	6.66	PASS
7013.00†	6949.10	-401.78	752.22	6998.31	6878.37	-402.27	1115.31	38.59	369.91	55.94	6.69	PASS
7113.00†	7046.29	-382.60	764.85	7099.18	6975.67	-384.16	1134.15	64.33	376.00	56.68	6.70	PASS
7213.00†	7138.74	-346.69	776.62	7200.32	7068.62	-348.86	1151.91	72.80	381.79	56.73	6.80	PASS
7313.00†	7223.63	-295.15	787.19	7301.68	7154.27	-297.36	1168.03	76.53	387.11	56.31	6.95	PASS
7413.00†	7298.39	-229.54	796.21	7403.24	7229.86	-231.19	1181.97	78.43	391.80	55.76	7.10	PASS
7513.00†	7360.73	-151.85	803.43	7504.95	7292.93	-152.38	1193.28	79.46	395.70	55.29	7.24	PASS
7613.00†	7408.78	-64.45	808.63	7606.75	7341.43	-63.41	1201.59	80.00	398.70	55.10	7.32	PASS
7713.00†	7441.06	30.02	811.63	7708.58	7373.75	32.88	1206.64	80.25	400.71	55.33	7.32	PASS
7813.00†	7456.60	128.67	812.36	7810.36	7388.87	133.39	1208.25	80.29	401.67	56.07	7.24	PASS
7853.29	7458.00	168.93	812.01	7851.26	7390.00	174.26	1207.92	80.26	401.75	56.52	7.19	PASS
7913.00†	7458.00	228.63	811.20	7910.97	7390.00	233.97	1207.12	80.26	401.75	57.39	7.08	PASS
8013.00†	7458.00	328.62	809.86	8010.97	7390.00	333.96	1205.77	80.26	401.75	59.36	6.84	PASS
8113.00†	7458.00	428.61	808.51	8110.97	7390.00	433.95	1204.42	80.26	401.75	61.91	6.55	PASS
8213.00†	7458.00	528.60	807.16	8210.97	7390.00	533.94	1203.07	80.26	401.75	64.96	6.24	PASS
8313.00†	7458.00	628.60	805.81	8310.97	7390.00	633.93	1201.73	80.26	401.75	68.44	5.92	PASS
8413.00†	7458.00	728.59	804.47	8410.97	7390.00	733.92	1200.38	80.26	401.75	72.28	5.60	PASS
8513.00†	7458.00	828.58	803.12	8510.97	7390.00	833.91	1199.03	80.26	401.75	76.43	5.30	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4NBH PWB Offset Wellpath: WAKEMAN 20-17-4NBH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#03 WAKEMAN 20-17-4NBH (293'FSL & 2053'FEL, SEC.20) Well: WAKEMAN 20-17-4NBH 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
8613.00†	7458.00	928.57	801.77	8610.97	7390.00	933.90	1197.68	80.26	401.75	80.85	5.00	PASS
8713.00†	7458.00	1028.56	800.42	8710.97	7390.00	1033.89	1196.34	80.26	401.75	85.55	4.73	PASS
8813.00†	7458.00	1128.55	799.08	8810.97	7390.00	1133.89	1194.99	80.26	401.75	90.31	4.48	PASS
8913.00†	7458.00	1228.54	797.73	8910.97	7390.00	1233.88	1193.64	80.26	401.75	95.29	4.24	PASS
9013.00†	7458.00	1328.53	796.38	9010.97	7390.00	1333.87	1192.29	80.26	401.74	100.41	4.02	PASS
9113.00†	7458.00	1428.52	795.03	9110.97	7390.00	1433.86	1190.95	80.26	401.74	105.64	3.82	PASS
9213.00†	7458.00	1528.51	793.69	9210.97	7390.00	1533.85	1189.60	80.26	401.74	110.98	3.64	PASS
9313.00†	7458.00	1628.50	792.34	9310.97	7390.00	1633.84	1188.25	80.26	401.74	116.39	3.47	PASS
9413.00†	7458.00	1728.50	790.99	9410.97	7390.00	1733.83	1186.90	80.26	401.74	121.88	3.31	PASS
9513.00†	7458.00	1828.49	789.65	9510.97	7390.00	1833.82	1185.56	80.26	401.74	127.44	3.16	PASS
9613.00†	7458.00	1928.48	788.30	9610.97	7390.00	1933.81	1184.21	80.26	401.74	133.05	3.03	PASS
9713.00†	7458.00	2028.47	786.95	9710.97	7390.00	2033.80	1182.86	80.26	401.74	138.71	2.91	PASS
9813.00†	7458.00	2128.46	785.60	9810.97	7390.00	2133.79	1181.51	80.26	401.74	144.41	2.79	PASS
9913.00†	7458.00	2228.45	784.26	9910.97	7390.00	2233.79	1180.17	80.26	401.74	150.15	2.68	PASS
10013.00†	7458.00	2328.44	782.91	10010.97	7390.00	2333.78	1178.82	80.26	401.74	155.93	2.58	PASS
10113.00†	7458.00	2428.43	781.56	10110.97	7390.00	2433.77	1177.47	80.26	401.74	161.73	2.49	PASS
10213.00†	7458.00	2528.42	780.21	10210.97	7390.00	2533.76	1176.12	80.26	401.74	167.56	2.40	PASS
10313.00†	7458.00	2628.41	778.87	10310.97	7390.00	2633.75	1174.78	80.26	401.74	173.42	2.32	PASS
10413.00†	7458.00	2728.40	777.52	10410.97	7390.00	2733.74	1173.43	80.26	401.74	179.30	2.25	PASS
10513.00†	7458.00	2828.40	776.17	10510.97	7390.00	2833.73	1172.08	80.26	401.74	185.20	2.17	PASS
10613.00†	7458.00	2928.39	774.82	10610.97	7390.00	2933.72	1170.73	80.26	401.74	191.12	2.11	PASS
10713.00†	7458.00	3028.38	773.48	10710.97	7390.00	3033.71	1169.38	80.26	401.74	197.05	2.04	PASS
10813.00†	7458.00	3128.37	772.13	10810.97	7390.00	3133.70	1168.04	80.26	401.74	203.00	1.98	PASS
10913.00†	7458.00	3228.36	770.78	10910.97	7390.00	3233.70	1166.69	80.26	401.74	208.97	1.93	PASS
11013.00†	7458.00	3328.35	769.43	11010.97	7390.00	3333.69	1165.34	80.26	401.74	214.94	1.87	PASS
11113.00†	7458.00	3428.34	768.09	11110.97	7390.00	3433.68	1163.99	80.26	401.74	220.93	1.82	PASS
11213.00†	7458.00	3528.33	766.74	11210.97	7390.00	3533.67	1162.65	80.26	401.74	226.93	1.77	PASS
11313.00†	7458.00	3628.32	765.39	11310.97	7390.00	3633.66	1161.30	80.26	401.74	232.93	1.73	PASS
11413.00†	7458.00	3728.31	764.05	11410.97	7390.00	3733.65	1159.95	80.26	401.74	238.95	1.68	PASS
11513.00†	7458.00	3828.30	762.70	11510.97	7390.00	3833.64	1158.60	80.26	401.74	244.98	1.64	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4NBH PWB Offset Wellpath: WAKEMAN 20-17-4NBH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#03 WAKEMAN 20-17-4NBH (293'FSL & 2053'FEL, SEC.20)		Well: WAKEMAN 20-17-4NBH		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
11613.00†	7458.00	3928.30	761.35	11610.97	7390.00	3933.63	1157.26	80.26	401.74	251.01	1.60	PASS
11713.00†	7458.00	4028.29	760.00	11710.97	7390.00	4033.62	1155.91	80.26	401.74	257.05	1.56	PASS
11813.00†	7458.00	4128.28	758.66	11810.97	7390.00	4133.61	1154.56	80.26	401.74	263.10	1.53	PASS
11913.00†	7458.00	4228.27	757.31	11910.97	7390.00	4233.60	1153.21	80.26	401.74	269.15	1.49	PASS
12013.00†	7458.00	4328.26	755.96	12010.97	7390.00	4333.60	1151.87	80.26	401.74	275.21	1.46	PASS
12113.00†	7458.00	4428.25	754.61	12110.97	7390.00	4433.59	1150.52	80.26	401.74	281.27	1.43	PASS
12213.00†	7458.00	4528.24	753.27	12210.97	7390.00	4533.58	1149.17	80.26	401.74	287.34	1.40	PASS
12313.00†	7458.00	4628.23	751.92	12310.97	7390.00	4633.57	1147.82	80.26	401.74	293.42	1.37	PASS
12413.00†	7458.00	4728.22	750.57	12410.97	7390.00	4733.56	1146.48	80.26	401.74	299.50	1.34	PASS
12513.00†	7458.00	4828.21	749.22	12510.97	7390.00	4833.55	1145.13	80.26	401.74	305.58	1.32	PASS
12613.00†	7458.00	4928.20	747.88	12610.97	7390.00	4933.54	1143.78	80.26	401.74	311.67	1.29	PASS
12713.00†	7458.00	5028.20	746.53	12710.97	7390.00	5033.53	1142.43	80.26	401.74	317.76	1.26	PASS
12813.00†	7458.00	5128.19	745.18	12810.97	7390.00	5133.52	1141.09	80.26	401.74	323.86	1.24	PASS
12913.00†	7458.00	5228.18	743.84	12910.97	7390.00	5233.51	1139.74	80.26	401.74	329.95	1.22	PASS
13013.00†	7458.00	5328.17	742.49	13010.97	7390.00	5333.50	1138.39	80.26	401.74	336.06	1.20	PASS
13113.00†	7458.00	5428.16	741.14	13110.97	7390.00	5433.50	1137.04	80.26	401.73	342.16	1.17	PASS
13153.29	7458.00	5468.45	740.60	13151.26	7390.00	5473.78	1136.50	80.26	401.73	344.62	1.17	PASS
13213.00†	7458.00	5528.15	740.42	13210.97	7390.00	5533.48	1135.69	80.24	401.12	348.25	1.15	PASS
13313.00†	7458.00	5628.12	742.90	13310.89	7390.00	5633.39	1134.35	80.13	397.35	354.28	1.12	PASS
13413.00†	7458.00	5727.94	748.87	13410.62	7390.00	5733.11	1133.00	79.92	390.14	360.22	1.08	PASS
13466.89	7458.00	5781.62	753.53	13464.24	7390.00	5786.73	1132.28	79.76	384.85	363.37	1.06	PASS
13513.00†	7458.00	5827.55	757.58	13510.11	7390.00	5832.60	1131.66	79.65	380.25	366.06	1.04	PASS
13613.00†	7458.00	5927.35	763.82	13609.82	7390.00	5932.29	1130.32	79.47	372.79	371.95	1.00	PASS
13713.00†	7458.00	6027.31	766.57	13709.73	7390.00	6032.20	1128.97	79.37	368.76	377.95	0.98	FAIL
13813.00†	7458.00	6127.30	765.83	13809.72	7390.00	6132.18	1127.63	79.36	368.16	384.04	0.96	FAIL
13913.00†	7458.00	6227.21	761.61	13909.67	7390.00	6232.12	1126.28	79.43	370.99	390.24	0.95	FAIL
14013.00†	7458.00	6326.91	753.90	14009.47	7390.00	6331.91	1124.93	79.58	377.25	396.53	0.95	FAIL
14066.89	7458.00	6380.50	748.30	14063.13	7390.00	6385.57	1124.21	79.70	382.05	399.95	0.96	FAIL
14113.00†	7458.00	6426.36	743.45	14109.05	7390.00	6431.48	1123.59	79.82	386.21	402.87	0.96	FAIL
14213.00†	7458.00	6526.03	735.47	14208.82	7390.00	6531.25	1122.25	80.02	392.75	409.15	0.96	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4NBH PWB Offset Wellpath: WAKEMAN 20-17-4NBH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#03 WAKEMAN 20-17-4NBH (293'FSL & 2053'FEL, SEC.20)		Well: WAKEMAN 20-17-4NBH		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
14313.00†	7458.00	6625.93	730.97	14308.77	7390.00	6631.18	1120.90	80.11	395.85	415.37	0.95	FAIL
14348.41	7458.00	6661.33	730.21	14344.18	7390.00	6666.59	1120.42	80.11	396.12	417.54	0.95	FAIL
14413.00†	7458.00	6725.91	729.23	14408.77	7390.00	6731.17	1119.55	80.12	396.23	421.50	0.94	FAIL
14513.00†	7458.00	6825.90	727.72	14508.77	7390.00	6831.16	1118.21	80.12	396.40	427.64	0.93	FAIL
14613.00†	7458.00	6925.89	726.20	14608.77	7390.00	6931.15	1116.86	80.13	396.57	433.78	0.91	FAIL
14713.00†	7458.00	7025.88	724.68	14708.77	7390.00	7031.14	1115.51	80.13	396.74	439.92	0.90	FAIL
14813.00†	7458.00	7125.87	723.16	14808.77	7390.00	7131.13	1114.16	80.14	396.90	446.06	0.89	FAIL
14913.00†	7458.00	7225.85	721.65	14908.77	7390.00	7231.13	1112.82	80.14	397.07	452.20	0.88	FAIL
15013.00†	7458.00	7325.84	720.13	15008.77	7390.00	7331.12	1111.47	80.14	397.24	458.34	0.87	FAIL
15113.00†	7458.00	7425.83	718.61	15108.77	7390.00	7431.11	1110.12	80.15	397.41	464.49	0.86	FAIL
15213.00†	7458.00	7525.82	717.09	15208.77	7390.00	7531.10	1108.77	80.15	397.57	470.63	0.84	FAIL
15313.00†	7458.00	7625.81	715.58	15308.77	7390.00	7631.09	1107.42	80.16	397.74	476.78	0.83	FAIL
15413.00†	7458.00	7725.80	714.06	15408.77	7390.00	7731.08	1106.08	80.16	397.91	482.93	0.82	FAIL
15513.00†	7458.00	7825.78	712.54	15508.76	7390.00	7831.07	1104.73	80.16	398.08	489.08	0.81	FAIL
15613.00†	7458.00	7925.77	711.02	15608.76	7390.00	7931.06	1103.38	80.17	398.24	495.23	0.80	FAIL
15713.00†	7458.00	8025.76	709.50	15708.76	7390.00	8031.05	1102.03	80.17	398.41	501.38	0.79	FAIL
15813.00†	7458.00	8125.75	707.99	15808.76	7390.00	8131.04	1100.69	80.18	398.58	507.53	0.79	FAIL
15913.00†	7458.00	8225.74	706.47	15908.76	7390.00	8231.03	1099.34	80.18	398.75	513.68	0.78	FAIL
16013.00†	7458.00	8325.73	704.95	16008.76	7390.00	8331.02	1097.99	80.19	398.91	519.84	0.77	FAIL
16113.00†	7458.00	8425.72	703.43	16108.76	7390.00	8431.01	1096.64	80.19	399.08	525.99	0.76	FAIL
16213.00†	7458.00	8525.70	701.92	16208.76	7390.00	8531.01	1095.30	80.19	399.25	532.15	0.75	FAIL
16313.00†	7458.00	8625.69	700.40	16308.76	7390.00	8631.00	1093.95	80.20	399.42	538.31	0.74	FAIL
16413.00†	7458.00	8725.68	698.88	16408.76	7390.00	8730.99	1092.60	80.20	399.59	544.47	0.73	FAIL
16513.00†	7458.00	8825.67	697.36	16508.76	7390.00	8830.98	1091.25	80.21	399.75	550.63	0.73	FAIL
16613.00†	7458.00	8925.66	695.84	16608.76	7390.00	8930.97	1089.91	80.21	399.92	556.79	0.72	FAIL
16713.00†	7458.00	9025.65	694.33	16708.76	7390.00	9030.96	1088.56	80.21	400.09	562.95	0.71	FAIL
16813.00†	7458.00	9125.63	692.81	16808.76	7390.00	9130.95	1087.21	80.22	400.26	569.11	0.70	FAIL
16913.00†	7458.00	9225.62	691.29	16908.76	7390.00	9230.94	1085.86	80.22	400.42	575.27	0.70	FAIL
17013.00†	7458.00	9325.61	689.77	17008.76	7390.00	9330.93	1084.52	80.23	400.59	581.43	0.69	FAIL
17113.00†	7458.00	9425.60	688.26	17108.76	7390.00	9430.92	1083.17	80.23	400.76	587.60	0.68	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4NBH PWB Offset Wellpath: WAKEMAN 20-17-4NBH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#03 WAKEMAN 20-17-4NBH (293'FSL & 2053'FEL, SEC.20)		Well: WAKEMAN 20-17-4NBH		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
17213.00†	7458.00	9525.59	686.74	17208.76	7390.00	9530.91	1081.82	80.24	400.93	593.76	0.67	FAIL
17313.00†	7458.00	9625.58	685.22	17308.76	7390.00	9630.90	1080.47	80.24	401.09	599.93	0.67	FAIL
17413.00†	7458.00	9725.57	683.70	17408.76	7390.00	9730.89	1079.13	80.24	401.26	606.09	0.66	FAIL
17513.00†	7458.00	9825.55	682.19	17508.76	7390.00	9830.89	1077.78	80.25	401.43	612.26	0.66	FAIL
17613.00†	7458.00	9925.54	680.67	17608.76	7390.00	9930.88	1076.43	80.25	401.60	618.42	0.65	FAIL
17656.24	7458.00	9968.78	680.01	17645.62	7390.00	9967.73	1075.93	80.25	401.72	621.81	0.65	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: WAKEMAN 20-17-4NBH PWB Offset Wellpath: WAKEMAN 20-17-4NBH PWP (REV-A.0)				
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: WAKEMAN 20-17-4NBH PWB Offset Wellpath: WAKEMAN 20-17-4NBH PWP (REV-A.0)									
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]
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1791.34	0.04	9.14	-11.01	38.79
8.5in Open Hole	1800.00	17645.62	15845.62	1791.34	7390.00	-11.01	38.79	3038.18	332.52

SURVEY PROGRAM - Offset Wellbore: WAKEMAN 20-17-4NBH PWB Offset Wellpath: WAKEMAN 20-17-4NBH PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17645.62	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-4NBH PWB

Clearance Report
WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: WAKEMAN 20-17-4NBH PWB Offset Wellpath: WAKEMAN 20-17-4NBH PWP (REV-A.0)	
MD Reference: RIG (13'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	13.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: BOX ELDER FARMS #41-20 AWB Offset Wellpath: BOX ELDER FARMS #41-20 AWP

Facility: SEC.20-T01S-R65W Slot: SLOT#01 EX. BOX ELDER FARMS #41-20 (990'FNL & 990'FEL, SEC.20,OG,PA, 8145) Well: BOX ELDER FARMS #41-20 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
13.00	13.00	0.00	0.00	-13.00	29.00	4015.41	985.20	13.79	4134.54	25.40	168.03	PASS
113.00†	113.00	0.00	0.00	71.00	113.00	4015.41	985.20	13.79	4134.50	51.62	81.27	PASS
213.00†	213.00	0.00	0.00	171.00	213.00	4015.41	985.20	13.79	4134.50	53.79	77.70	PASS
313.00†	313.00	0.00	0.00	271.00	313.00	4015.41	985.20	13.79	4134.50	56.14	74.42	PASS
413.00†	413.00	0.00	0.00	371.00	413.00	4015.41	985.20	13.79	4134.50	58.48	71.40	PASS
513.00†	513.00	0.00	0.00	471.00	513.00	4015.41	985.20	13.79	4134.50	60.84	68.62	PASS
613.00†	613.00	0.00	0.00	571.00	613.00	4015.41	985.20	13.79	4134.50	63.19	66.03	PASS
713.00†	713.00	0.00	0.00	671.00	713.00	4015.41	985.20	13.79	4134.50	65.55	63.63	PASS
813.00†	813.00	0.00	0.00	771.00	813.00	4015.41	985.20	13.79	4134.50	67.92	61.40	PASS
913.00†	913.00	0.00	0.00	871.00	913.00	4015.41	985.20	13.79	4134.50	70.28	59.31	PASS
1013.00†	1013.00	0.00	0.00	971.00	1013.00	4015.41	985.20	13.79	4134.50	72.66	57.36	PASS
1100.00	1100.00	0.00	0.00	1058.00	1100.00	4015.41	985.20	13.79	4134.50	74.72	55.76	PASS
1113.00†	1113.00	-0.01	0.03	1071.00	1113.00	4015.41	985.20	-104.86	4134.51	75.03	55.53	PASS
1213.00†	1212.97	-1.07	1.96	1170.97	1212.97	4015.41	985.20	-104.87	4135.08	77.41	53.82	PASS
1313.00†	1312.80	-3.79	6.95	1270.80	1312.80	4015.41	985.20	-104.92	4136.54	79.80	52.22	PASS
1413.00†	1412.38	-8.19	14.99	1370.38	1412.38	4015.41	985.20	-105.00	4138.92	82.18	50.72	PASS
1513.00†	1511.57	-14.24	26.08	1469.57	1511.57	4015.41	985.20	-105.10	4142.22	84.57	49.32	PASS
1532.69	1531.05	-15.63	28.62	1489.05	1531.05	4015.41	985.20	-105.12	4142.99	85.04	49.05	PASS
1613.00†	1610.44	-21.42	39.23	1568.44	1610.44	4015.41	985.20	-105.28	4146.19	86.96	48.00	PASS
1713.00†	1709.30	-28.64	52.43	1667.30	1709.30	4015.41	985.20	-105.48	4150.22	89.36	46.74	PASS
1813.00†	1808.17	-35.85	65.64	1766.17	1808.17	4015.41	985.20	-105.68	4154.31	91.73	45.55	PASS
1913.00†	1907.03	-43.06	78.85	1865.03	1907.03	4015.41	985.20	-105.88	4158.44	94.15	44.42	PASS
2013.00†	2005.89	-50.27	92.05	1963.89	2005.89	4015.41	985.20	-106.08	4162.63	96.58	43.34	PASS
2113.00†	2104.75	-57.48	105.26	2062.75	2104.75	4015.41	985.20	-106.27	4166.86	99.03	42.30	PASS
2213.00†	2203.61	-64.70	118.46	2161.61	2203.61	4015.41	985.20	-106.47	4171.15	101.49	41.32	PASS
2313.00†	2302.47	-71.91	131.67	2260.47	2302.47	4015.41	985.20	-106.66	4175.48	103.95	40.37	PASS
2413.00†	2401.33	-79.12	144.87	2359.33	2401.33	4015.41	985.20	-106.86	4179.87	106.43	39.47	PASS
2513.00†	2500.20	-86.33	158.08	2458.20	2500.20	4015.41	985.20	-107.05	4184.30	108.92	38.60	PASS
2613.00†	2599.06	-93.54	171.28	2557.06	2599.06	4015.41	985.20	-107.25	4188.79	111.41	37.78	PASS
2713.00†	2697.92	-100.75	184.49	2655.92	2697.92	4015.41	985.20	-107.44	4193.32	113.92	36.98	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWB (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: BOX ELDER FARMS #41-20 AWB Offset Wellpath: BOX ELDER FARMS #41-20 AWP

Facility: SEC.20-T01S-R65W Slot: SLOT#01 EX. BOX ELDER FARMS #41-20 (990'FNL & 990'FEL, SEC.20,OG,PA, 8145) Well: BOX ELDER FARMS #41-20 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
2813.00†	2796.78	-107.97	197.69	2754.78	2796.78	4015.41	985.20	-107.64	4197.90	116.44	36.22	PASS
2913.00†	2895.64	-115.18	210.90	2853.64	2895.64	4015.41	985.20	-107.83	4202.53	118.96	35.48	PASS
3013.00†	2994.50	-122.39	224.11	2952.50	2994.50	4015.41	985.20	-108.02	4207.21	121.49	34.78	PASS
3113.00†	3093.37	-129.60	237.31	3051.37	3093.37	4015.41	985.20	-108.22	4211.94	124.04	34.10	PASS
3213.00†	3192.23	-136.81	250.52	3150.23	3192.23	4015.41	985.20	-108.41	4216.72	126.59	33.45	PASS
3313.00†	3291.09	-144.03	263.72	3249.09	3291.09	4015.41	985.20	-108.60	4221.54	129.14	32.82	PASS
3413.00†	3389.95	-151.24	276.93	3347.95	3389.95	4015.41	985.20	-108.79	4226.42	131.71	32.22	PASS
3513.00†	3488.81	-158.45	290.13	3446.81	3488.81	4015.41	985.20	-108.98	4231.34	134.28	31.63	PASS
3613.00†	3587.67	-165.66	303.34	3545.67	3587.67	4015.41	985.20	-109.17	4236.30	136.86	31.07	PASS
3713.00†	3686.53	-172.87	316.54	3644.53	3686.53	4015.41	985.20	-109.36	4241.32	139.45	30.53	PASS
3813.00†	3785.40	-180.08	329.75	3743.40	3785.40	4015.41	985.20	-109.55	4246.38	142.04	30.01	PASS
3913.00†	3884.26	-187.30	342.96	3842.26	3884.26	4015.41	985.20	-109.74	4251.50	144.64	29.50	PASS
4013.00†	3983.12	-194.51	356.16	3941.12	3983.12	4015.41	985.20	-109.93	4256.65	147.25	29.01	PASS
4113.00†	4081.98	-201.72	369.37	4039.98	4081.98	4015.41	985.20	-110.12	4261.86	149.86	28.54	PASS
4213.00†	4180.84	-208.93	382.57	4138.84	4180.84	4015.41	985.20	-110.31	4267.11	152.48	28.08	PASS
4313.00†	4279.70	-216.14	395.78	4237.70	4279.70	4015.41	985.20	-110.49	4272.41	155.10	27.64	PASS
4413.00†	4378.57	-223.36	408.98	4336.57	4378.57	4015.41	985.20	-110.68	4277.75	157.73	27.21	PASS
4513.00†	4477.43	-230.57	422.19	4435.43	4477.43	4015.41	985.20	-110.87	4283.14	160.36	26.80	PASS
4613.00†	4576.29	-237.78	435.39	4534.29	4576.29	4015.41	985.20	-111.05	4288.58	163.00	26.39	PASS
4713.00†	4675.15	-244.99	448.60	4633.15	4675.15	4015.41	985.20	-111.24	4294.06	165.65	26.00	PASS
4813.00†	4774.01	-252.20	461.80	4732.01	4774.01	4015.41	985.20	-111.42	4299.59	168.29	25.63	PASS
4913.00†	4872.87	-259.42	475.01	4830.87	4872.87	4015.41	985.20	-111.61	4305.16	170.95	25.26	PASS
5013.00†	4971.73	-266.63	488.22	4929.73	4971.73	4015.41	985.20	-111.79	4310.78	173.60	24.91	PASS
5113.00†	5070.60	-273.84	501.42	5028.60	5070.60	4015.41	985.20	-111.98	4316.44	176.26	24.56	PASS
5213.00†	5169.46	-281.05	514.63	5127.46	5169.46	4015.41	985.20	-112.16	4322.15	178.93	24.23	PASS
5313.00†	5268.32	-288.26	527.83	5226.32	5268.32	4015.41	985.20	-112.34	4327.91	181.60	23.90	PASS
5413.00†	5367.18	-295.47	541.04	5325.18	5367.18	4015.41	985.20	-112.52	4333.70	184.27	23.59	PASS
5513.00†	5466.04	-302.69	554.24	5424.04	5466.04	4015.41	985.20	-112.71	4339.55	186.94	23.28	PASS
5613.00†	5564.90	-309.90	567.45	5522.90	5564.90	4015.41	985.20	-112.89	4345.43	189.62	22.98	PASS
5713.00†	5663.77	-317.11	580.65	5621.77	5663.77	4015.41	985.20	-113.07	4351.36	192.30	22.69	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: BOX ELDER FARMS #41-20 AWB Offset Wellpath: BOX ELDER FARMS #41-20 AWP

Facility: SEC.20-T01S-R65W Slot: SLOT#01 EX. BOX ELDER FARMS #41-20 (990'FNL & 990'FEL, SEC.20,OG,PA, 8145) Well: BOX ELDER FARMS #41-20 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
5813.00†	5762.63	-324.32	593.86	5720.63	5762.63	4015.41	985.20	-113.25	4357.34	194.98	22.41	PASS
5913.00†	5861.49	-331.53	607.07	5819.49	5861.49	4015.41	985.20	-113.43	4363.36	197.67	22.13	PASS
6013.00†	5960.35	-338.75	620.27	5918.35	5960.35	4015.41	985.20	-113.61	4369.42	200.36	21.86	PASS
6113.00†	6059.21	-345.96	633.48	6017.21	6059.21	4015.41	985.20	-113.79	4375.53	203.05	21.60	PASS
6213.00†	6158.07	-353.17	646.68	6116.07	6158.07	4015.41	985.20	-113.97	4381.67	205.75	21.35	PASS
6313.00†	6256.93	-360.38	659.89	6214.93	6256.93	4015.41	985.20	-114.14	4387.87	208.44	21.10	PASS
6413.00†	6355.80	-367.59	673.09	6313.80	6355.80	4015.41	985.20	-114.32	4394.10	211.14	20.86	PASS
6513.00†	6454.66	-374.80	686.30	6412.66	6454.66	4015.41	985.20	-114.50	4400.38	213.84	20.63	PASS
6613.00†	6553.52	-382.02	699.50	6511.52	6553.52	4015.41	985.20	-114.67	4406.70	216.55	20.40	PASS
6713.00†	6652.38	-389.23	712.71	6610.38	6652.38	4015.41	985.20	-114.85	4413.06	219.25	20.18	PASS
6813.00†	6751.24	-396.44	725.91	6709.24	6751.24	4015.41	985.20	-115.02	4419.46	221.96	19.96	PASS
6910.92	6848.04	-403.50	738.84	6806.04	6848.04	4015.41	985.20	-115.20	4425.77	224.61	19.75	PASS
6913.00†	6850.10	-403.65	739.12	6808.10	6850.10	4015.41	985.20	-113.99	4425.90	224.67	19.74	PASS
7013.00†	6949.10	-401.78	752.22	6907.10	6949.10	4015.41	985.20	-48.10	4423.33	227.55	19.48	PASS
7113.00†	7046.29	-382.60	764.85	7004.29	7046.29	4015.41	985.20	-21.97	4403.53	230.94	19.11	PASS
7213.00†	7138.74	-346.69	776.62	7096.74	7138.74	4015.41	985.20	-12.96	4367.09	234.24	18.68	PASS
7313.00†	7223.63	-295.15	787.19	7181.63	7223.63	4015.41	985.20	-8.53	4315.11	237.14	18.24	PASS
7413.00†	7298.39	-229.54	796.21	7256.39	7298.39	4015.41	985.20	-5.68	4249.15	239.58	17.77	PASS
7513.00†	7360.73	-151.85	803.43	7318.73	7360.73	4015.41	985.20	-3.25	4171.22	241.52	17.31	PASS
7613.00†	7408.78	-64.45	808.63	7366.78	7408.78	4015.41	985.20	-0.26	4083.68	242.94	16.84	PASS
7713.00†	7441.06	30.02	811.63	7399.06	7441.06	4015.41	985.20	5.74	3989.17	243.81	16.40	PASS
7813.00†	7456.60	128.67	812.36	7414.60	7456.60	4015.41	985.20	34.96	3890.58	244.16	15.97	PASS
7853.29	7458.00	168.93	812.01	7416.00	7458.00	4015.41	985.20	90.00	3850.38	244.16	15.80	PASS
7913.00†	7458.00	228.63	811.20	7416.00	7458.00	4015.41	985.20	90.00	3790.77	244.09	15.56	PASS
8013.00†	7458.00	328.62	809.86	7416.00	7458.00	4015.41	985.20	90.00	3690.95	243.98	15.16	PASS
8113.00†	7458.00	428.61	808.51	7416.00	7458.00	4015.41	985.20	90.00	3591.14	243.87	14.76	PASS
8213.00†	7458.00	528.60	807.16	7416.00	7458.00	4015.41	985.20	90.00	3491.35	243.75	14.35	PASS
8313.00†	7458.00	628.60	805.81	7416.00	7458.00	4015.41	985.20	90.00	3391.56	243.63	13.95	PASS
8413.00†	7458.00	728.59	804.47	7416.00	7458.00	4015.41	985.20	90.00	3291.79	243.50	13.55	PASS
8513.00†	7458.00	828.58	803.12	7416.00	7458.00	4015.41	985.20	90.00	3192.03	243.36	13.14	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: BOX ELDER FARMS #41-20 AWB Offset Wellpath: BOX ELDER FARMS #41-20 AWP

Facility: SEC.20-T01S-R65W Slot: SLOT#01 EX. BOX ELDER FARMS #41-20 (990'FNL & 990'FEL, SEC.20,OG,PA, 8145) Well: BOX ELDER FARMS #41-20 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
8613.00†	7458.00	928.57	801.77	7416.00	7458.00	4015.41	985.20	90.00	3092.29	243.22	12.74	PASS
8713.00†	7458.00	1028.56	800.42	7416.00	7458.00	4015.41	985.20	90.00	2992.56	243.07	12.34	PASS
8813.00†	7458.00	1128.55	799.08	7416.00	7458.00	4015.41	985.20	90.00	2892.85	242.91	11.93	PASS
8913.00†	7458.00	1228.54	797.73	7416.00	7458.00	4015.41	985.20	90.00	2793.17	242.74	11.53	PASS
9013.00†	7458.00	1328.53	796.38	7416.00	7458.00	4015.41	985.20	90.00	2693.50	242.57	11.13	PASS
9113.00†	7458.00	1428.52	795.03	7416.00	7458.00	4015.41	985.20	90.00	2593.87	242.38	10.72	PASS
9213.00†	7458.00	1528.51	793.69	7416.00	7458.00	4015.41	985.20	90.00	2494.26	242.18	10.32	PASS
9313.00†	7458.00	1628.50	792.34	7416.00	7458.00	4015.41	985.20	90.00	2394.68	241.96	9.92	PASS
9413.00†	7458.00	1728.50	790.99	7416.00	7458.00	4015.41	985.20	90.00	2295.14	241.73	9.51	PASS
9513.00†	7458.00	1828.49	789.65	7416.00	7458.00	4015.41	985.20	90.00	2195.65	241.49	9.11	PASS
9613.00†	7458.00	1928.48	788.30	7416.00	7458.00	4015.41	985.20	90.00	2096.20	241.23	8.71	PASS
9713.00†	7458.00	2028.47	786.95	7416.00	7458.00	4015.41	985.20	90.00	1996.81	240.95	8.30	PASS
9813.00†	7458.00	2128.46	785.60	7416.00	7458.00	4015.41	985.20	90.00	1897.48	240.64	7.90	PASS
9913.00†	7458.00	2228.45	784.26	7416.00	7458.00	4015.41	985.20	90.00	1798.22	240.32	7.50	PASS
10013.00†	7458.00	2328.44	782.91	7416.00	7458.00	4015.41	985.20	90.00	1699.05	239.97	7.09	PASS
10113.00†	7458.00	2428.43	781.56	7416.00	7458.00	4015.41	985.20	90.00	1599.99	239.60	6.69	PASS
10213.00†	7458.00	2528.42	780.21	7416.00	7458.00	4015.41	985.20	90.00	1501.05	239.21	6.29	PASS
10313.00†	7458.00	2628.41	778.87	7416.00	7458.00	4015.41	985.20	90.00	1402.26	238.79	5.88	PASS
10413.00†	7458.00	2728.40	777.52	7416.00	7458.00	4015.41	985.20	90.00	1303.65	238.36	5.48	PASS
10513.00†	7458.00	2828.40	776.17	7416.00	7458.00	4015.41	985.20	90.00	1205.28	237.93	5.08	PASS
10613.00†	7458.00	2928.39	774.82	7416.00	7458.00	4015.41	985.20	90.00	1107.19	237.51	4.67	PASS
10713.00†	7458.00	3028.38	773.48	7416.00	7458.00	4015.41	985.20	90.00	1009.48	237.17	4.26	PASS
10813.00†	7458.00	3128.37	772.13	7416.00	7458.00	4015.41	985.20	90.00	912.27	236.97	3.86	PASS
10913.00†	7458.00	3228.36	770.78	7416.00	7458.00	4015.41	985.20	90.00	815.73	237.06	3.45	PASS
11013.00†	7458.00	3328.35	769.43	7416.00	7458.00	4015.41	985.20	90.00	720.14	237.73	3.03	PASS
11113.00†	7458.00	3428.34	768.09	7416.00	7458.00	4015.41	985.20	90.00	625.93	239.47	2.62	PASS
11213.00†	7458.00	3528.33	766.74	7416.00	7458.00	4015.41	985.20	90.00	533.82	243.13	2.20	PASS
11313.00†	7458.00	3628.32	765.39	7416.00	7458.00	4015.41	985.20	90.00	445.14	250.16	1.78	PASS
11413.00†	7458.00	3728.31	764.05	7416.00	7458.00	4015.41	985.20	90.00	362.40	262.71	1.38	PASS
11513.00†	7458.00	3828.30	762.70	7416.00	7458.00	4015.41	985.20	90.00	290.72	283.18	1.03	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: BOX ELDER FARMS #41-20 AWB Offset Wellpath: BOX ELDER FARMS #41-20 AWP												
Facility: SEC.20-T01S-R65W Slot: SLOT#01 EX. BOX ELDER FARMS #41-20 (990'FNL & 990'FEL, SEC.20,OG,PA, 8145)				Well: BOX ELDER FARMS #41-20				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
11613.00†	7458.00	3928.30	761.35	7416.00	7458.00	4015.41	985.20	90.00	240.20	310.41	0.77	FAIL
11696.90†	7458.00	4012.19	760.22	7416.12	7458.12	4015.41	985.20	90.03	225.00	328.88	0.68	FAIL
11713.00†	7458.00	4028.29	760.00	7416.00	7458.00	4015.41	985.20	90.00	225.57	330.85	0.68	FAIL
11813.00†	7458.00	4128.28	758.66	7416.00	7458.00	4015.41	985.20	90.00	253.10	330.25	0.77	FAIL
11913.00†	7458.00	4228.27	757.31	7416.00	7458.00	4015.41	985.20	90.00	311.84	317.84	0.98	FAIL
12013.00†	7458.00	4328.26	755.96	7416.00	7458.00	4015.41	985.20	90.00	387.85	305.14	1.27	PASS
12113.00†	7458.00	4428.25	754.61	7416.00	7458.00	4015.41	985.20	90.00	472.87	295.17	1.60	PASS
12213.00†	7458.00	4528.24	753.27	7416.00	7458.00	4015.41	985.20	90.00	562.84	287.72	1.96	PASS
12313.00†	7458.00	4628.23	751.92	7416.00	7458.00	4015.41	985.20	90.00	655.72	282.14	2.33	PASS
12413.00†	7458.00	4728.22	750.57	7416.00	7458.00	4015.41	985.20	90.00	750.44	277.88	2.70	PASS
12513.00†	7458.00	4828.21	749.22	7416.00	7458.00	4015.41	985.20	90.00	846.37	274.55	3.09	PASS
12613.00†	7458.00	4928.20	747.88	7416.00	7458.00	4015.41	985.20	90.00	943.14	271.91	3.47	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: BOX ELDER FARMS #41-20 AWB Offset Wellpath: BOX ELDER FARMS #41-20 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: BOX ELDER FARMS #41-20 AWB Offset Wellpath: BOX ELDER FARMS #41-20 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	91.00	91.00	29.00	120.00	2450.51	589.28	2450.51	589.28
8.625in Casing Surface	0.00	91.00	91.00	29.00	120.00	2450.51	589.28	2450.51	589.28
7.875in Open Hole	91.00	8123.00	8032.00	120.00	8152.00	2450.51	589.28	2450.51	589.28
4.5in Casing Production	0.00	8123.00	8123.00	29.00	8152.00	2450.51	589.28	2450.51	589.28

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WAKEMAN 20-17-4NCH PWP (REV-B.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

WELLPATH COMPOSITION - Offset Wellbore: BOX ELDER FARMS #41-20 AWB Offset Wellpath: BOX ELDER FARMS #41-20 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8145.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL COGCC <8145'>	BOX ELDER FARMS #41-20 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: BOX ELDER FARMS #41-20 AWB Offset Wellpath: BOX ELDER FARMS #41-20 AWP	
MD Reference: Rig on SLOT#01 EX. BOX ELDER FARMS #41-20 (990'FNL & 990'FEL, SEC.20,OG,PA) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3CDH PWB Offset Wellpath: WAKEMAN 20-17-3CDH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#05 WAKEMAN 20-17-3CDH (293'FSL & 2083'FEL, SEC.20) Well: WAKEMAN 20-17-3CDH 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
13.00	13.00	0.00	0.00	13.00	13.00	-0.10	-15.00	-90.39	15.00	1.40	23.66	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.10	-15.00	-90.39	15.00	1.73	15.34	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.10	-15.00	-90.39	15.00	2.30	9.48	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.10	-15.00	-90.39	15.00	2.91	6.75	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.10	-15.00	-90.39	15.00	3.52	5.22	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.10	-15.00	-90.39	15.00	4.14	4.25	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.10	-15.00	-90.39	15.00	4.76	3.58	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.10	-15.00	-90.39	15.00	5.39	3.10	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.10	-15.00	-90.39	15.00	6.01	2.72	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	-0.10	-15.00	-90.39	15.00	6.64	2.43	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	-0.10	-15.00	-90.39	15.00	7.27	2.20	PASS
1100.00	1100.00	0.00	0.00	1100.00	1100.00	-0.10	-15.00	-90.39	15.00	7.81	2.03	PASS
1113.00†	1113.00	-0.01	0.03	1113.00	1113.00	-0.10	-15.00	151.03	15.03	7.89	2.01	PASS
1213.00†	1212.97	-1.07	1.96	1213.03	1213.03	-0.12	-14.98	154.54	16.96	8.60	2.07	PASS
1313.00†	1312.80	-3.79	6.95	1313.46	1313.43	-1.70	-13.43	157.21	20.49	9.58	2.24	PASS
1413.00†	1412.38	-8.19	14.99	1413.98	1413.78	-5.80	-9.40	156.97	24.55	10.64	2.41	PASS
1513.00†	1511.57	-14.24	26.08	1514.36	1513.75	-12.29	-3.03	155.24	29.26	11.55	2.65	PASS
1532.69	1531.05	-15.63	28.62	1534.02	1533.31	-13.68	-1.67	155.07	30.44	11.69	2.72	PASS
1613.00†	1610.44	-21.42	39.23	1614.17	1613.06	-19.35	3.91	154.74	35.48	12.18	3.05	PASS
1713.00†	1709.30	-28.64	52.43	1713.97	1712.37	-26.42	10.85	154.43	41.76	12.80	3.41	PASS
1813.00†	1808.17	-35.85	65.64	1813.77	1811.68	-33.49	17.79	154.21	48.04	13.35	3.74	PASS
1913.00†	1907.03	-43.06	78.85	1913.57	1910.99	-40.55	24.73	154.03	54.32	14.01	4.03	PASS
2013.00†	2005.89	-50.27	92.05	2013.38	2010.30	-47.62	31.67	153.89	60.60	14.69	4.28	PASS
2113.00†	2104.75	-57.48	105.26	2113.18	2109.61	-54.69	38.61	153.78	66.88	15.38	4.51	PASS
2213.00†	2203.61	-64.70	118.46	2212.98	2208.92	-61.75	45.56	153.69	73.16	16.08	4.71	PASS
2313.00†	2302.47	-71.91	131.67	2312.78	2308.23	-68.82	52.50	153.61	79.44	16.79	4.90	PASS
2413.00†	2401.33	-79.12	144.87	2412.59	2407.54	-75.89	59.44	153.55	85.72	17.51	5.06	PASS
2513.00†	2500.20	-86.33	158.08	2512.39	2506.85	-82.95	66.38	153.49	92.00	18.23	5.21	PASS
2613.00†	2599.06	-93.54	171.28	2612.19	2606.16	-90.02	73.32	153.44	98.28	18.96	5.35	PASS
2713.00†	2697.92	-100.75	184.49	2711.99	2705.47	-97.09	80.26	153.39	104.56	19.70	5.47	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3CDH PWB Offset Wellpath: WAKEMAN 20-17-3CDH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W Slot: SLOT#05 WAKEMAN 20-17-3CDH (293'FSL & 2083'FEL, SEC.20) Well: WAKEMAN 20-17-3CDH 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
2813.00†	2796.78	-107.97	197.69	2811.80	2804.78	-104.15	87.20	153.35	110.85	20.44	5.58	PASS
2913.00†	2895.64	-115.18	210.90	2911.60	2904.08	-111.22	94.14	153.32	117.13	21.18	5.69	PASS
3013.00†	2994.50	-122.39	224.11	3011.40	3003.39	-118.29	101.09	153.29	123.41	21.93	5.78	PASS
3113.00†	3093.37	-129.60	237.31	3111.20	3102.70	-125.35	108.03	153.26	129.69	22.68	5.87	PASS
3213.00†	3192.23	-136.81	250.52	3211.01	3202.01	-132.42	114.97	153.24	135.97	23.44	5.95	PASS
3313.00†	3291.09	-144.03	263.72	3310.81	3301.32	-139.49	121.91	153.21	142.25	24.20	6.03	PASS
3413.00†	3389.95	-151.24	276.93	3410.61	3400.63	-146.55	128.85	153.19	148.54	24.96	6.10	PASS
3513.00†	3488.81	-158.45	290.13	3510.41	3499.94	-153.62	135.79	153.17	154.82	25.72	6.16	PASS
3613.00†	3587.67	-165.66	303.34	3610.22	3599.25	-160.69	142.73	153.15	161.10	26.48	6.22	PASS
3713.00†	3686.53	-172.87	316.54	3710.02	3698.56	-167.75	149.67	153.14	167.38	27.25	6.28	PASS
3813.00†	3785.40	-180.08	329.75	3809.82	3797.87	-174.82	156.61	153.12	173.66	28.02	6.33	PASS
3913.00†	3884.26	-187.30	342.96	3909.62	3897.18	-181.89	163.56	153.10	179.95	28.79	6.38	PASS
4013.00†	3983.12	-194.51	356.16	4009.43	3996.49	-188.95	170.50	153.09	186.23	29.56	6.43	PASS
4113.00†	4081.98	-201.72	369.37	4109.23	4095.80	-196.02	177.44	153.08	192.51	30.33	6.47	PASS
4213.00†	4180.84	-208.93	382.57	4209.03	4195.11	-203.09	184.38	153.07	198.79	31.11	6.52	PASS
4313.00†	4279.70	-216.14	395.78	4308.83	4294.42	-210.15	191.32	153.06	205.07	31.88	6.56	PASS
4413.00†	4378.57	-223.36	408.98	4408.64	4393.73	-217.22	198.26	153.05	211.35	32.66	6.59	PASS
4513.00†	4477.43	-230.57	422.19	4508.44	4493.04	-224.29	205.20	153.04	217.64	33.44	6.63	PASS
4613.00†	4576.29	-237.78	435.39	4608.24	4592.35	-231.35	212.14	153.03	223.92	34.21	6.66	PASS
4713.00†	4675.15	-244.99	448.60	4708.04	4691.66	-238.42	219.09	153.02	230.20	34.99	6.69	PASS
4813.00†	4774.01	-252.20	461.80	4807.85	4790.97	-245.49	226.03	153.01	236.48	35.77	6.72	PASS
4913.00†	4872.87	-259.42	475.01	4907.65	4890.28	-252.55	232.97	153.00	242.76	36.55	6.75	PASS
5013.00†	4971.73	-266.63	488.22	5007.45	4989.59	-259.62	239.91	152.99	249.05	37.34	6.78	PASS
5113.00†	5070.60	-273.84	501.42	5107.25	5088.90	-266.69	246.85	152.99	255.33	38.12	6.81	PASS
5213.00†	5169.46	-281.05	514.63	5207.06	5188.21	-273.75	253.79	152.98	261.61	38.90	6.83	PASS
5313.00†	5268.32	-288.26	527.83	5306.86	5287.52	-280.82	260.73	152.97	267.89	39.68	6.86	PASS
5413.00†	5367.18	-295.47	541.04	5406.66	5386.83	-287.89	267.67	152.97	274.17	40.47	6.88	PASS
5513.00†	5466.04	-302.69	554.24	5506.46	5486.14	-294.95	274.62	152.96	280.46	41.25	6.90	PASS
5613.00†	5564.90	-309.90	567.45	5606.27	5585.45	-302.02	281.56	152.96	286.74	42.04	6.92	PASS
5713.00†	5663.77	-317.11	580.65	5706.07	5684.76	-309.09	288.50	152.95	293.02	42.82	6.94	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3CDH PWB Offset Wellpath: WAKEMAN 20-17-3CDH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W Slot: SLOT#05 WAKEMAN 20-17-3CDH (293'FSL & 2083'FEL, SEC.20) Well: WAKEMAN 20-17-3CDH 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
5813.00†	5762.63	-324.32	593.86	5805.87	5784.07	-316.15	295.44	152.95	299.30	43.61	6.96	PASS
5913.00†	5861.49	-331.53	607.07	5905.67	5883.38	-323.22	302.38	152.94	305.58	44.39	6.98	PASS
6013.00†	5960.35	-338.75	620.27	6005.48	5982.69	-330.29	309.32	152.94	311.87	45.18	7.00	PASS
6113.00†	6059.21	-345.96	633.48	6105.28	6082.00	-337.35	316.26	152.93	318.15	45.97	7.01	PASS
6213.00†	6158.07	-353.17	646.68	6205.08	6181.31	-344.42	323.20	152.93	324.43	46.75	7.03	PASS
6313.00†	6256.93	-360.38	659.89	6304.88	6280.62	-351.49	330.14	152.92	330.71	47.54	7.05	PASS
6413.00†	6355.80	-367.59	673.09	6404.69	6379.92	-358.55	337.09	152.92	336.99	48.33	7.06	PASS
6513.00†	6454.66	-374.80	686.30	6504.49	6479.23	-365.62	344.03	152.92	343.27	49.12	7.08	PASS
6613.00†	6553.52	-382.02	699.50	6604.29	6578.54	-372.68	350.97	152.91	349.56	49.91	7.09	PASS
6713.00†	6652.38	-389.23	712.71	6704.09	6677.85	-379.75	357.91	152.91	355.84	50.69	7.10	PASS
6813.00†	6751.24	-396.44	725.91	6803.90	6777.16	-386.82	364.85	152.90	362.12	51.48	7.12	PASS
6910.92	6848.04	-403.50	738.84	6901.62	6874.40	-393.74	371.65	152.90	368.27	52.26	7.13	PASS
6913.00†	6850.10	-403.65	739.12	6903.70	6876.47	-393.88	371.79	154.12	368.40	52.27	7.13	PASS
7013.00†	6949.10	-401.78	752.22	7002.98	6975.27	-400.91	378.70	-140.61	374.44	53.42	7.09	PASS
7113.00†	7046.29	-382.60	764.85	7101.05	7072.96	-404.95	385.49	-117.25	380.96	55.02	7.00	PASS
7213.00†	7138.74	-346.69	776.62	7203.08	7173.91	-392.86	392.28	-111.28	388.70	55.93	7.03	PASS
7313.00†	7223.63	-295.15	787.19	7310.13	7275.77	-361.13	398.88	-109.90	397.31	55.89	7.19	PASS
7413.00†	7298.39	-229.54	796.21	7422.66	7374.55	-307.96	404.97	-110.13	406.23	55.07	7.46	PASS
7513.00†	7360.73	-151.85	803.43	7540.89	7465.10	-232.45	410.20	-110.94	414.76	53.80	7.80	PASS
7613.00†	7408.78	-64.45	808.63	7664.61	7541.23	-135.30	414.14	-111.87	422.12	52.60	8.12	PASS
7713.00†	7441.06	30.02	811.63	7793.04	7596.40	-19.65	416.38	-112.66	427.57	52.13	8.30	PASS
7813.00†	7456.60	128.67	812.36	7924.74	7624.90	108.63	416.62	-113.14	430.51	53.07	8.21	PASS
7853.29	7458.00	168.93	812.01	7978.28	7627.97	162.07	416.11	-113.23	430.89	53.89	8.09	PASS
7913.00†	7458.00	228.63	811.20	8039.52	7628.00	223.30	415.29	-113.24	430.90	54.84	7.95	PASS
8013.00†	7458.00	328.62	809.86	8139.52	7628.00	323.29	413.95	-113.24	430.90	56.78	7.67	PASS
8113.00†	7458.00	428.61	808.51	8239.52	7628.00	423.28	412.60	-113.24	430.90	59.25	7.35	PASS
8213.00†	7458.00	528.60	807.16	8339.52	7628.00	523.27	411.25	-113.24	430.90	62.17	7.00	PASS
8313.00†	7458.00	628.60	805.81	8439.52	7628.00	623.27	409.91	-113.24	430.89	65.49	6.64	PASS
8413.00†	7458.00	728.59	804.47	8539.52	7628.00	723.26	408.56	-113.24	430.89	69.14	6.29	PASS
8513.00†	7458.00	828.58	803.12	8639.52	7628.00	823.25	407.22	-113.24	430.89	73.08	5.94	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3CDH PWB Offset Wellpath: WAKEMAN 20-17-3CDH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#05 WAKEMAN 20-17-3CDH (293'FSL & 2083'FEL, SEC.20) Well: WAKEMAN 20-17-3CDH 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
8613.00†	7458.00	928.57	801.77	8739.52	7628.00	923.24	405.87	-113.24	430.89	77.26	5.62	PASS
8713.00†	7458.00	1028.56	800.42	8839.52	7628.00	1023.23	404.52	-113.24	430.89	81.65	5.31	PASS
8813.00†	7458.00	1128.55	799.08	8939.52	7628.00	1123.22	403.18	-113.24	430.89	86.20	5.03	PASS
8913.00†	7458.00	1228.54	797.73	9039.52	7628.00	1223.21	401.83	-113.24	430.89	90.45	4.79	PASS
9013.00†	7458.00	1328.53	796.38	9139.52	7628.00	1323.20	400.49	-113.24	430.89	95.73	4.53	PASS
9113.00†	7458.00	1428.52	795.03	9239.52	7628.00	1423.19	399.14	-113.24	430.88	100.67	4.30	PASS
9213.00†	7458.00	1528.51	793.69	9339.52	7628.00	1523.18	397.79	-113.24	430.88	105.69	4.10	PASS
9313.00†	7458.00	1628.50	792.34	9439.52	7628.00	1623.18	396.45	-113.24	430.88	110.79	3.91	PASS
9413.00†	7458.00	1728.50	790.99	9539.52	7628.00	1723.17	395.10	-113.24	430.88	115.97	3.73	PASS
9513.00†	7458.00	1828.49	789.65	9639.52	7628.00	1823.16	393.76	-113.24	430.88	121.20	3.57	PASS
9613.00†	7458.00	1928.48	788.30	9739.52	7628.00	1923.15	392.41	-113.24	430.88	126.48	3.42	PASS
9713.00†	7458.00	2028.47	786.95	9839.52	7628.00	2023.14	391.06	-113.24	430.88	131.81	3.28	PASS
9813.00†	7458.00	2128.46	785.60	9939.52	7628.00	2123.13	389.72	-113.24	430.88	137.17	3.15	PASS
9913.00†	7458.00	2228.45	784.26	10039.52	7628.00	2223.12	388.37	-113.24	430.87	142.58	3.03	PASS
10013.00†	7458.00	2328.44	782.91	10139.52	7628.00	2323.11	387.03	-113.24	430.87	148.02	2.92	PASS
10113.00†	7458.00	2428.43	781.56	10239.52	7628.00	2423.10	385.68	-113.24	430.87	153.48	2.82	PASS
10213.00†	7458.00	2528.42	780.21	10339.52	7628.00	2523.09	384.33	-113.24	430.87	158.97	2.72	PASS
10313.00†	7458.00	2628.41	778.87	10439.52	7628.00	2623.08	382.99	-113.24	430.87	164.48	2.63	PASS
10413.00†	7458.00	2728.40	777.52	10539.52	7628.00	2723.08	381.64	-113.24	430.87	170.02	2.54	PASS
10513.00†	7458.00	2828.40	776.17	10639.52	7628.00	2823.07	380.30	-113.24	430.87	175.57	2.46	PASS
10613.00†	7458.00	2928.39	774.82	10739.52	7628.00	2923.06	378.95	-113.24	430.87	181.14	2.38	PASS
10713.00†	7458.00	3028.38	773.48	10839.52	7628.00	3023.05	377.60	-113.24	430.86	186.72	2.31	PASS
10813.00†	7458.00	3128.37	772.13	10939.52	7628.00	3123.04	376.26	-113.24	430.86	192.32	2.24	PASS
10913.00†	7458.00	3228.36	770.78	11039.52	7628.00	3223.03	374.91	-113.24	430.86	197.94	2.18	PASS
11013.00†	7458.00	3328.35	769.43	11139.52	7628.00	3323.02	373.57	-113.24	430.86	203.56	2.12	PASS
11113.00†	7458.00	3428.34	768.09	11239.52	7628.00	3423.01	372.22	-113.24	430.86	209.19	2.06	PASS
11213.00†	7458.00	3528.33	766.74	11339.52	7628.00	3523.00	370.87	-113.24	430.86	214.84	2.01	PASS
11313.00†	7458.00	3628.32	765.39	11439.52	7628.00	3622.99	369.53	-113.24	430.86	220.50	1.96	PASS
11413.00†	7458.00	3728.31	764.05	11539.52	7628.00	3722.99	368.18	-113.24	430.86	226.16	1.91	PASS
11513.00†	7458.00	3828.30	762.70	11639.52	7628.00	3822.98	366.84	-113.24	430.85	231.83	1.86	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3CDH PWB Offset Wellpath: WAKEMAN 20-17-3CDH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#05 WAKEMAN 20-17-3CDH (293'FSL & 2083'FEL, SEC.20)		Well: WAKEMAN 20-17-3CDH		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
11613.00†	7458.00	3928.30	761.35	11739.52	7628.00	3922.97	365.49	-113.24	430.85	237.50	1.82	PASS
11713.00†	7458.00	4028.29	760.00	11839.52	7628.00	4022.96	364.14	-113.24	430.85	243.19	1.77	PASS
11813.00†	7458.00	4128.28	758.66	11939.52	7628.00	4122.95	362.80	-113.24	430.85	248.88	1.73	PASS
11913.00†	7458.00	4228.27	757.31	12039.52	7628.00	4222.94	361.45	-113.24	430.85	254.58	1.69	PASS
12013.00†	7458.00	4328.26	755.96	12139.52	7628.00	4322.93	360.11	-113.24	430.85	260.28	1.66	PASS
12113.00†	7458.00	4428.25	754.61	12239.52	7628.00	4422.92	358.76	-113.24	430.85	265.99	1.62	PASS
12213.00†	7458.00	4528.24	753.27	12339.52	7628.00	4522.91	357.41	-113.24	430.85	271.70	1.59	PASS
12313.00†	7458.00	4628.23	751.92	12439.52	7628.00	4622.90	356.07	-113.24	430.84	277.42	1.55	PASS
12413.00†	7458.00	4728.22	750.57	12539.52	7628.00	4722.89	354.72	-113.24	430.84	283.14	1.52	PASS
12513.00†	7458.00	4828.21	749.22	12639.52	7628.00	4822.89	353.37	-113.24	430.84	288.87	1.49	PASS
12613.00†	7458.00	4928.20	747.88	12739.52	7628.00	4922.88	352.03	-113.24	430.84	294.60	1.46	PASS
12713.00†	7458.00	5028.20	746.53	12839.52	7628.00	5022.87	350.68	-113.24	430.84	300.33	1.44	PASS
12813.00†	7458.00	5128.19	745.18	12939.52	7628.00	5122.86	349.34	-113.24	430.84	306.07	1.41	PASS
12913.00†	7458.00	5228.18	743.84	13039.52	7628.00	5222.85	347.99	-113.24	430.84	311.81	1.38	PASS
13013.00†	7458.00	5328.17	742.49	13139.52	7628.00	5322.84	346.64	-113.24	430.84	317.55	1.36	PASS
13113.00†	7458.00	5428.16	741.14	13239.52	7628.00	5422.83	345.30	-113.24	430.84	323.29	1.33	PASS
13153.29	7458.00	5468.45	740.60	13279.81	7628.00	5463.12	344.76	-113.24	430.83	325.61	1.32	PASS
13213.00†	7458.00	5528.15	740.42	13339.52	7628.00	5522.82	343.95	-113.21	431.41	329.10	1.31	PASS
13313.00†	7458.00	5628.12	742.90	13439.44	7628.00	5622.73	342.61	-113.04	434.93	335.23	1.30	PASS
13413.00†	7458.00	5727.94	748.87	13539.17	7628.00	5722.45	341.27	-112.72	441.67	341.69	1.29	PASS
13466.89	7458.00	5781.62	753.53	13592.79	7628.00	5776.06	340.54	-112.49	446.64	345.30	1.29	PASS
13513.00†	7458.00	5827.55	757.58	13638.66	7628.00	5821.93	339.93	-112.23	450.96	348.38	1.30	PASS
13613.00†	7458.00	5927.35	763.82	13738.37	7628.00	5921.63	338.58	-111.82	457.99	354.85	1.29	PASS
13713.00†	7458.00	6027.31	766.57	13838.28	7628.00	6021.53	337.24	-111.61	461.80	361.02	1.28	PASS
13813.00†	7458.00	6127.30	765.83	13938.27	7628.00	6121.52	335.89	-111.57	462.36	366.90	1.26	PASS
13913.00†	7458.00	6227.21	761.61	14038.23	7628.00	6221.46	334.55	-111.73	459.69	372.47	1.23	PASS
14013.00†	7458.00	6326.91	753.90	14138.02	7628.00	6321.24	333.21	-112.07	453.78	377.68	1.20	PASS
14066.89	7458.00	6380.50	748.30	14191.69	7628.00	6374.91	332.48	-112.34	449.26	380.32	1.18	PASS
14113.00†	7458.00	6426.36	743.45	14237.60	7628.00	6420.82	331.86	-112.51	445.35	382.54	1.16	PASS
14213.00†	7458.00	6526.03	735.47	14337.37	7628.00	6520.58	330.52	-112.80	439.22	387.61	1.13	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3CDH PWB Offset Wellpath: WAKEMAN 20-17-3CDH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#05 WAKEMAN 20-17-3CDH (293'FSL & 2083'FEL, SEC.20)		Well: WAKEMAN 20-17-3CDH		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
14313.00†	7458.00	6625.93	730.97	14437.32	7628.00	6620.52	329.18	-112.93	436.31	393.04	1.11	PASS
14348.41	7458.00	6661.33	730.21	14472.73	7628.00	6655.92	328.70	-112.95	436.05	395.05	1.10	PASS
14413.00†	7458.00	6725.91	729.23	14537.32	7628.00	6720.51	327.83	-112.95	435.95	398.78	1.09	PASS
14513.00†	7458.00	6825.90	727.72	14637.32	7628.00	6820.50	326.48	-112.96	435.79	404.54	1.08	PASS
14613.00†	7458.00	6925.89	726.20	14737.32	7628.00	6920.49	325.14	-112.97	435.64	410.30	1.06	PASS
14713.00†	7458.00	7025.88	724.68	14837.32	7628.00	7020.48	323.79	-112.98	435.48	416.07	1.05	PASS
14813.00†	7458.00	7125.87	723.16	14937.32	7628.00	7120.47	322.45	-112.99	435.32	421.83	1.03	PASS
14913.00†	7458.00	7225.85	721.65	15037.32	7628.00	7220.46	321.10	-113.00	435.16	427.60	1.02	PASS
15013.00†	7458.00	7325.84	720.13	15137.32	7628.00	7320.45	319.75	-113.00	435.00	433.36	1.00	PASS
15113.00†	7458.00	7425.83	718.61	15237.32	7628.00	7420.44	318.41	-113.01	434.85	439.13	0.99	FAIL
15213.00†	7458.00	7525.82	717.09	15337.32	7628.00	7520.43	317.06	-113.02	434.69	444.90	0.98	FAIL
15313.00†	7458.00	7625.81	715.58	15437.32	7628.00	7620.43	315.72	-113.03	434.53	450.67	0.96	FAIL
15413.00†	7458.00	7725.80	714.06	15537.32	7628.00	7720.42	314.37	-113.04	434.37	456.43	0.95	FAIL
15513.00†	7458.00	7825.78	712.54	15637.32	7628.00	7820.41	313.02	-113.05	434.21	462.20	0.94	FAIL
15613.00†	7458.00	7925.77	711.02	15737.32	7628.00	7920.40	311.68	-113.06	434.06	467.97	0.93	FAIL
15713.00†	7458.00	8025.76	709.50	15837.32	7628.00	8020.39	310.33	-113.07	433.90	473.74	0.92	FAIL
15813.00†	7458.00	8125.75	707.99	15937.32	7628.00	8120.38	308.99	-113.08	433.74	479.51	0.90	FAIL
15913.00†	7458.00	8225.74	706.47	16037.32	7628.00	8220.37	307.64	-113.08	433.58	485.28	0.89	FAIL
16013.00†	7458.00	8325.73	704.95	16137.32	7628.00	8320.36	306.29	-113.09	433.42	491.05	0.88	FAIL
16113.00†	7458.00	8425.72	703.43	16237.32	7628.00	8420.35	304.95	-113.10	433.27	496.82	0.87	FAIL
16213.00†	7458.00	8525.70	701.92	16337.32	7628.00	8520.34	303.60	-113.11	433.11	502.59	0.86	FAIL
16313.00†	7458.00	8625.69	700.40	16437.32	7628.00	8620.33	302.26	-113.12	432.95	508.35	0.85	FAIL
16413.00†	7458.00	8725.68	698.88	16537.32	7628.00	8720.32	300.91	-113.13	432.79	514.12	0.84	FAIL
16513.00†	7458.00	8825.67	697.36	16637.32	7628.00	8820.31	299.56	-113.14	432.63	519.89	0.83	FAIL
16613.00†	7458.00	8925.66	695.84	16737.32	7628.00	8920.31	298.22	-113.15	432.48	525.66	0.82	FAIL
16713.00†	7458.00	9025.65	694.33	16837.32	7628.00	9020.30	296.87	-113.16	432.32	531.43	0.81	FAIL
16813.00†	7458.00	9125.63	692.81	16937.32	7628.00	9120.29	295.53	-113.17	432.16	537.20	0.80	FAIL
16913.00†	7458.00	9225.62	691.29	17037.32	7628.00	9220.28	294.18	-113.17	432.00	542.97	0.80	FAIL
17013.00†	7458.00	9325.61	689.77	17137.31	7628.00	9320.27	292.83	-113.18	431.84	548.74	0.79	FAIL
17113.00†	7458.00	9425.60	688.26	17237.31	7628.00	9420.26	291.49	-113.19	431.69	554.51	0.78	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3CDH PWB Offset Wellpath: WAKEMAN 20-17-3CDH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#05 WAKEMAN 20-17-3CDH (293'FSL & 2083'FEL, SEC.20) Well: WAKEMAN 20-17-3CDH 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
17213.00†	7458.00	9525.59	686.74	17337.31	7628.00	9520.25	290.14	-113.20	431.53	560.28	0.77	FAIL
17313.00†	7458.00	9625.58	685.22	17437.31	7628.00	9620.24	288.80	-113.21	431.37	566.05	0.76	FAIL
17413.00†	7458.00	9725.57	683.70	17537.31	7628.00	9720.23	287.45	-113.22	431.21	571.81	0.75	FAIL
17513.00†	7458.00	9825.55	682.19	17637.31	7628.00	9820.22	286.10	-113.23	431.06	577.58	0.75	FAIL
17613.00†	7458.00	9925.54	680.67	17737.31	7628.00	9920.21	284.76	-113.24	430.90	583.35	0.74	FAIL
17656.24	7458.00	9968.78	680.01	17780.56	7628.00	9963.45	284.18	-113.24	430.83	585.84	0.74	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: WAKEMAN 20-17-3CDH PWB Offset Wellpath: WAKEMAN 20-17-3CDH PWP (REV-A.0)

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: WAKEMAN 20-17-3CDH PWB Offset Wellpath: WAKEMAN 20-17-3CDH PWP (REV-A.0)

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]
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1797.97	-0.06	-9.14	-9.94	0.56
8.5in Open Hole	1800.00	17786.94	15986.94	1797.97	7628.00	-9.94	0.56	3038.77	82.02

SURVEY PROGRAM - Offset Wellbore: WAKEMAN 20-17-3CDH PWB Offset Wellpath: WAKEMAN 20-17-3CDH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17786.94	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-3CDH PWB

Clearance Report
WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: WAKEMAN 20-17-3CDH PWB Offset Wellpath: WAKEMAN 20-17-3CDH PWP (REV-A.0)	
MD Reference: RIG (13'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	13.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NAH PWB Offset Wellpath: WAKEMAN 20-17-3NAH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W Slot: SLOT#06 WAKEMAN 20-17-3NAH (293'FSL & 2098'FEL, SEC.20) Well: WAKEMAN 20-17-3NAH 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
13.00	13.00	0.00	0.00	13.00	13.00	-0.06	-30.03	-90.11	30.03	1.40	48.71	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.06	-30.03	-90.11	30.03	1.73	31.61	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.06	-30.03	-90.11	30.03	2.30	19.53	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.06	-30.03	-90.11	30.03	2.90	13.91	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.06	-30.03	-90.11	30.03	3.52	10.76	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.06	-30.03	-90.11	30.03	4.14	8.76	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.06	-30.03	-90.11	30.03	4.76	7.38	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.06	-30.03	-90.11	30.03	5.39	6.38	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.06	-30.03	-90.11	30.03	6.01	5.61	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	-0.06	-30.03	-90.11	30.03	6.64	5.01	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	-0.06	-30.03	-90.11	30.03	7.26	4.52	PASS
1100.00	1100.00	0.00	0.00	1100.00	1100.00	-0.06	-30.03	-90.11	30.03	7.81	4.17	PASS
1113.00†	1113.00	-0.01	0.03	1113.00	1113.00	-0.06	-30.03	151.28	30.06	7.89	4.13	PASS
1213.00†	1212.97	-1.07	1.96	1212.97	1212.97	-0.06	-30.03	153.15	32.00	8.60	4.00	PASS
1313.00†	1312.80	-3.79	6.95	1312.92	1312.92	-0.08	-30.01	157.05	37.15	9.52	4.17	PASS
1413.00†	1412.38	-8.19	14.99	1413.68	1413.65	-1.83	-28.64	159.60	44.11	10.46	4.48	PASS
1513.00†	1511.57	-14.24	26.08	1514.61	1514.40	-6.38	-25.07	160.06	51.83	11.48	4.78	PASS
1532.69	1531.05	-15.63	28.62	1534.50	1534.24	-7.60	-24.11	159.98	53.44	11.63	4.86	PASS
1613.00†	1610.44	-21.42	39.23	1615.27	1614.66	-13.56	-19.44	159.00	59.34	12.18	5.14	PASS
1713.00†	1709.30	-28.64	52.43	1715.02	1713.91	-21.32	-13.35	157.71	66.35	12.77	5.48	PASS
1813.00†	1808.17	-35.85	65.64	1814.76	1813.17	-29.08	-7.26	156.66	73.39	13.30	5.77	PASS
1913.00†	1907.03	-43.06	78.85	1914.51	1912.42	-36.84	-1.18	155.80	80.44	13.95	6.02	PASS
2013.00†	2005.89	-50.27	92.05	2014.25	2011.68	-44.60	4.91	155.07	87.52	14.62	6.24	PASS
2113.00†	2104.75	-57.48	105.26	2113.99	2110.93	-52.36	11.00	154.46	94.60	15.31	6.43	PASS
2213.00†	2203.61	-64.70	118.46	2213.74	2210.19	-60.12	17.09	153.93	101.69	16.02	6.60	PASS
2313.00†	2302.47	-71.91	131.67	2313.48	2309.44	-67.88	23.17	153.47	108.79	16.73	6.75	PASS
2413.00†	2401.33	-79.12	144.87	2413.23	2408.70	-75.65	29.26	153.07	115.90	17.46	6.88	PASS
2513.00†	2500.20	-86.33	158.08	2512.97	2507.95	-83.41	35.35	152.71	123.01	18.20	6.99	PASS
2613.00†	2599.06	-93.54	171.28	2612.72	2607.21	-91.17	41.44	152.39	130.12	18.95	7.10	PASS
2713.00†	2697.92	-100.75	184.49	2712.46	2706.46	-98.93	47.53	152.11	137.24	19.70	7.19	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NAH PWB Offset Wellpath: WAKEMAN 20-17-3NAH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#06 WAKEMAN 20-17-3NAH (293'FSL & 2098'FEL, SEC.20) Well: WAKEMAN 20-17-3NAH 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
2813.00†	2796.78	-107.97	197.69	2812.20	2805.72	-106.69	53.61	151.85	144.36	20.46	7.27	PASS
2913.00†	2895.64	-115.18	210.90	2911.95	2904.97	-114.45	59.70	151.62	151.49	21.23	7.35	PASS
3013.00†	2994.50	-122.39	224.11	3011.69	3004.23	-122.21	65.79	151.40	158.61	22.00	7.42	PASS
3113.00†	3093.37	-129.60	237.31	3111.44	3103.48	-129.97	71.88	151.21	165.74	22.78	7.48	PASS
3213.00†	3192.23	-136.81	250.52	3211.18	3202.74	-137.73	77.97	151.03	172.87	23.56	7.53	PASS
3313.00†	3291.09	-144.03	263.72	3310.92	3301.99	-145.49	84.05	150.87	180.01	24.35	7.59	PASS
3413.00†	3389.95	-151.24	276.93	3410.67	3401.25	-153.26	90.14	150.72	187.14	25.14	7.63	PASS
3513.00†	3488.81	-158.45	290.13	3510.41	3500.50	-161.02	96.23	150.58	194.27	25.93	7.68	PASS
3613.00†	3587.67	-165.66	303.34	3610.16	3599.76	-168.78	102.32	150.45	201.41	26.72	7.71	PASS
3713.00†	3686.53	-172.87	316.54	3709.90	3699.01	-176.54	108.40	150.33	208.55	27.52	7.75	PASS
3813.00†	3785.40	-180.08	329.75	3809.64	3798.27	-184.30	114.49	150.21	215.68	28.32	7.79	PASS
3913.00†	3884.26	-187.30	342.96	3909.39	3897.52	-192.06	120.58	150.11	222.82	29.12	7.82	PASS
4013.00†	3983.12	-194.51	356.16	4009.13	3996.78	-199.82	126.67	150.01	229.96	29.93	7.85	PASS
4113.00†	4081.98	-201.72	369.37	4108.88	4096.04	-207.58	132.76	149.91	237.10	30.73	7.87	PASS
4213.00†	4180.84	-208.93	382.57	4208.62	4195.29	-215.34	138.84	149.83	244.24	31.54	7.90	PASS
4313.00†	4279.70	-216.14	395.78	4308.36	4294.55	-223.10	144.93	149.74	251.38	32.35	7.92	PASS
4413.00†	4378.57	-223.36	408.98	4408.11	4393.80	-230.87	151.02	149.67	258.52	33.16	7.94	PASS
4513.00†	4477.43	-230.57	422.19	4507.85	4493.06	-238.63	157.11	149.59	265.66	33.97	7.96	PASS
4613.00†	4576.29	-237.78	435.39	4607.60	4592.31	-246.39	163.20	149.52	272.80	34.79	7.98	PASS
4713.00†	4675.15	-244.99	448.60	4707.34	4691.57	-254.15	169.28	149.45	279.95	35.60	8.00	PASS
4813.00†	4774.01	-252.20	461.80	4807.09	4790.82	-261.91	175.37	149.39	287.09	36.42	8.02	PASS
4913.00†	4872.87	-259.42	475.01	4906.83	4890.08	-269.67	181.46	149.33	294.23	37.23	8.04	PASS
5013.00†	4971.73	-266.63	488.22	5006.57	4989.33	-277.43	187.55	149.27	301.38	38.05	8.05	PASS
5113.00†	5070.60	-273.84	501.42	5106.32	5088.59	-285.19	193.64	149.22	308.52	38.87	8.07	PASS
5213.00†	5169.46	-281.05	514.63	5206.06	5187.84	-292.95	199.72	149.17	315.66	39.69	8.08	PASS
5313.00†	5268.32	-288.26	527.83	5305.81	5287.10	-300.71	205.81	149.12	322.81	40.51	8.09	PASS
5413.00†	5367.18	-295.47	541.04	5405.55	5386.35	-308.47	211.90	149.07	329.95	41.33	8.11	PASS
5513.00†	5466.04	-302.69	554.24	5505.29	5485.61	-316.24	217.99	149.02	337.10	42.15	8.12	PASS
5613.00†	5564.90	-309.90	567.45	5605.04	5584.86	-324.00	224.07	148.98	344.24	42.97	8.13	PASS
5713.00†	5663.77	-317.11	580.65	5704.78	5684.12	-331.76	230.16	148.94	351.39	43.80	8.14	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NAH PWB Offset Wellpath: WAKEMAN 20-17-3NAH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#06 WAKEMAN 20-17-3NAH (293'FSL & 2098'FEL, SEC.20)		Well: WAKEMAN 20-17-3NAH		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
5813.00†	5762.63	-324.32	593.86	5804.53	5783.37	-339.52	236.25	148.90	358.53	44.62	8.15	PASS
5913.00†	5861.49	-331.53	607.07	5904.27	5882.63	-347.28	242.34	148.86	365.68	45.44	8.16	PASS
6013.00†	5960.35	-338.75	620.27	6004.01	5981.88	-355.04	248.43	148.82	372.82	46.27	8.17	PASS
6113.00†	6059.21	-345.96	633.48	6103.76	6081.14	-362.80	254.51	148.78	379.97	47.09	8.18	PASS
6213.00†	6158.07	-353.17	646.68	6203.50	6180.39	-370.56	260.60	148.75	387.12	47.92	8.19	PASS
6313.00†	6256.93	-360.38	659.89	6303.25	6279.65	-378.32	266.69	148.72	394.26	48.74	8.19	PASS
6413.00†	6355.80	-367.59	673.09	6402.99	6378.90	-386.08	272.78	148.68	401.41	49.57	8.20	PASS
6513.00†	6454.66	-374.80	686.30	6502.73	6478.16	-393.85	278.87	148.65	408.55	50.39	8.21	PASS
6613.00†	6553.52	-382.02	699.50	6602.48	6577.41	-401.61	284.95	148.62	415.70	51.22	8.22	PASS
6713.00†	6652.38	-389.23	712.71	6703.71	6678.32	-404.53	291.08	149.27	422.71	51.94	8.24	PASS
6813.00†	6751.24	-396.44	725.91	6801.18	6774.57	-391.06	296.70	152.03	429.88	52.34	8.31	PASS
6910.92	6848.04	-403.50	738.84	6887.80	6857.13	-365.54	301.33	156.15	439.25	51.94	8.56	PASS
6913.00†	6850.10	-403.65	739.12	6889.53	6858.74	-364.90	301.42	157.48	439.50	51.93	8.57	PASS
7013.00†	6949.10	-401.78	752.22	6970.40	6931.45	-329.86	305.33	-130.89	452.98	51.70	8.87	PASS
7113.00†	7046.29	-382.60	764.85	7047.77	6995.74	-287.07	308.63	-99.66	468.85	52.09	9.11	PASS
7213.00†	7138.74	-346.69	776.62	7122.45	7051.82	-237.90	311.35	-86.32	485.67	52.29	9.40	PASS
7313.00†	7223.63	-295.15	787.19	7195.09	7099.80	-183.46	313.51	-78.41	502.18	52.25	9.73	PASS
7413.00†	7298.39	-229.54	796.21	7266.17	7139.73	-124.74	315.13	-73.04	517.30	52.17	10.04	PASS
7513.00†	7360.73	-151.85	803.43	7336.10	7171.65	-62.57	316.21	-69.27	530.20	52.11	10.30	PASS
7613.00†	7408.78	-64.45	808.63	7405.20	7195.53	2.22	316.78	-66.69	540.21	52.09	10.50	PASS
7713.00†	7441.06	30.02	811.63	7473.75	7211.37	68.87	316.84	-65.10	546.89	52.13	10.62	PASS
7813.00†	7456.60	128.67	812.36	7542.00	7219.14	136.64	316.40	-64.40	549.94	52.29	10.65	PASS
7853.29	7458.00	168.93	812.01	7569.47	7219.99	164.09	316.08	-64.36	550.11	52.29	10.65	PASS
7913.00†	7458.00	228.63	811.20	7627.35	7220.00	221.96	315.30	-64.36	550.10	52.92	10.52	PASS
8013.00†	7458.00	328.62	809.86	7727.35	7220.00	321.95	313.95	-64.36	550.10	54.49	10.22	PASS
8113.00†	7458.00	428.61	808.51	7827.35	7220.00	421.94	312.61	-64.36	550.10	56.61	9.83	PASS
8213.00†	7458.00	528.60	807.16	7927.35	7220.00	521.93	311.26	-64.36	550.09	59.22	9.39	PASS
8313.00†	7458.00	628.60	805.81	8027.35	7220.00	621.92	309.92	-64.36	550.09	62.25	8.93	PASS
8413.00†	7458.00	728.59	804.47	8127.35	7220.00	721.91	308.57	-64.36	550.09	65.65	8.46	PASS
8513.00†	7458.00	828.58	803.12	8227.35	7220.00	821.90	307.22	-64.36	550.09	69.35	8.00	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NAH PWB Offset Wellpath: WAKEMAN 20-17-3NAH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W Slot: SLOT#06 WAKEMAN 20-17-3NAH (293'FSL & 2098'FEL, SEC.20) Well: WAKEMAN 20-17-3NAH 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
8613.00†	7458.00	928.57	801.77	8327.35	7220.00	921.89	305.88	-64.36	550.09	73.32	7.57	PASS
8713.00†	7458.00	1028.56	800.42	8427.35	7220.00	1021.89	304.53	-64.36	550.09	77.52	7.15	PASS
8813.00†	7458.00	1128.55	799.08	8527.35	7220.00	1121.88	303.19	-64.36	550.09	81.90	6.77	PASS
8913.00†	7458.00	1228.54	797.73	8627.35	7220.00	1221.87	301.84	-64.36	550.08	86.28	6.42	PASS
9013.00†	7458.00	1328.53	796.38	8727.35	7220.00	1321.86	300.50	-64.36	550.08	91.12	6.08	PASS
9113.00†	7458.00	1428.52	795.03	8827.35	7220.00	1421.85	299.15	-64.36	550.08	95.91	5.77	PASS
9213.00†	7458.00	1528.51	793.69	8927.35	7220.00	1521.84	297.80	-64.36	550.08	100.80	5.49	PASS
9313.00†	7458.00	1628.50	792.34	9027.35	7220.00	1621.83	296.46	-64.36	550.08	105.77	5.23	PASS
9413.00†	7458.00	1728.50	790.99	9127.35	7220.00	1721.82	295.11	-64.36	550.08	110.82	4.99	PASS
9513.00†	7458.00	1828.49	789.65	9227.35	7220.00	1821.81	293.77	-64.36	550.08	115.93	4.77	PASS
9613.00†	7458.00	1928.48	788.30	9327.35	7220.00	1921.80	292.42	-64.36	550.07	121.10	4.56	PASS
9713.00†	7458.00	2028.47	786.95	9427.35	7220.00	2021.79	291.08	-64.36	550.07	126.31	4.37	PASS
9813.00†	7458.00	2128.46	785.60	9527.35	7220.00	2121.79	289.73	-64.36	550.07	131.57	4.20	PASS
9913.00†	7458.00	2228.45	784.26	9627.35	7220.00	2221.78	288.39	-64.36	550.07	136.87	4.03	PASS
10013.00†	7458.00	2328.44	782.91	9727.35	7220.00	2321.77	287.04	-64.36	550.07	142.20	3.88	PASS
10113.00†	7458.00	2428.43	781.56	9827.35	7220.00	2421.76	285.69	-64.36	550.07	147.56	3.74	PASS
10213.00†	7458.00	2528.42	780.21	9927.35	7220.00	2521.75	284.35	-64.36	550.06	152.95	3.61	PASS
10313.00†	7458.00	2628.41	778.87	10027.35	7220.00	2621.74	283.00	-64.36	550.06	158.36	3.48	PASS
10413.00†	7458.00	2728.40	777.52	10127.35	7220.00	2721.73	281.66	-64.36	550.06	163.79	3.37	PASS
10513.00†	7458.00	2828.40	776.17	10227.35	7220.00	2821.72	280.31	-64.36	550.06	169.24	3.26	PASS
10613.00†	7458.00	2928.39	774.82	10327.35	7220.00	2921.71	278.97	-64.36	550.06	174.71	3.16	PASS
10713.00†	7458.00	3028.38	773.48	10427.35	7220.00	3021.70	277.62	-64.36	550.06	180.20	3.06	PASS
10813.00†	7458.00	3128.37	772.13	10527.35	7220.00	3121.70	276.27	-64.36	550.06	185.70	2.97	PASS
10913.00†	7458.00	3228.36	770.78	10627.35	7220.00	3221.69	274.93	-64.36	550.05	191.22	2.88	PASS
11013.00†	7458.00	3328.35	769.43	10727.35	7220.00	3321.68	273.58	-64.36	550.05	196.74	2.80	PASS
11113.00†	7458.00	3428.34	768.09	10827.35	7220.00	3421.67	272.24	-64.36	550.05	202.28	2.73	PASS
11213.00†	7458.00	3528.33	766.74	10927.35	7220.00	3521.66	270.89	-64.36	550.05	207.83	2.65	PASS
11313.00†	7458.00	3628.32	765.39	11027.35	7220.00	3621.65	269.55	-64.36	550.05	213.39	2.58	PASS
11413.00†	7458.00	3728.31	764.05	11127.35	7220.00	3721.64	268.20	-64.36	550.05	218.95	2.52	PASS
11513.00†	7458.00	3828.30	762.70	11227.35	7220.00	3821.63	266.85	-64.36	550.05	224.53	2.45	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NAH PWB Offset Wellpath: WAKEMAN 20-17-3NAH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#06 WAKEMAN 20-17-3NAH (293'FSL & 2098'FEL, SEC.20)		Well: WAKEMAN 20-17-3NAH		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
11613.00†	7458.00	3928.30	761.35	11327.35	7220.00	3921.62	265.51	-64.36	550.04	230.11	2.39	PASS
11713.00†	7458.00	4028.29	760.00	11427.35	7220.00	4021.61	264.16	-64.36	550.04	235.70	2.34	PASS
11813.00†	7458.00	4128.28	758.66	11527.35	7220.00	4121.60	262.82	-64.36	550.04	241.30	2.28	PASS
11913.00†	7458.00	4228.27	757.31	11627.35	7220.00	4221.60	261.47	-64.36	550.04	246.90	2.23	PASS
12013.00†	7458.00	4328.26	755.96	11727.35	7220.00	4321.59	260.13	-64.36	550.04	252.51	2.18	PASS
12113.00†	7458.00	4428.25	754.61	11827.35	7220.00	4421.58	258.78	-64.36	550.04	258.12	2.13	PASS
12213.00†	7458.00	4528.24	753.27	11927.35	7220.00	4521.57	257.43	-64.36	550.03	263.74	2.09	PASS
12313.00†	7458.00	4628.23	751.92	12027.35	7220.00	4621.56	256.09	-64.36	550.03	269.36	2.04	PASS
12413.00†	7458.00	4728.22	750.57	12127.35	7220.00	4721.55	254.74	-64.36	550.03	274.99	2.00	PASS
12513.00†	7458.00	4828.21	749.22	12227.35	7220.00	4821.54	253.40	-64.36	550.03	280.62	1.96	PASS
12613.00†	7458.00	4928.20	747.88	12327.35	7220.00	4921.53	252.05	-64.36	550.03	286.26	1.92	PASS
12713.00†	7458.00	5028.20	746.53	12427.35	7220.00	5021.52	250.71	-64.36	550.03	291.90	1.89	PASS
12813.00†	7458.00	5128.19	745.18	12527.35	7220.00	5121.51	249.36	-64.36	550.03	297.54	1.85	PASS
12913.00†	7458.00	5228.18	743.84	12627.35	7220.00	5221.50	248.01	-64.36	550.02	303.18	1.82	PASS
13013.00†	7458.00	5328.17	742.49	12727.35	7220.00	5321.50	246.67	-64.36	550.02	308.83	1.78	PASS
13113.00†	7458.00	5428.16	741.14	12827.35	7220.00	5421.49	245.32	-64.36	550.02	314.49	1.75	PASS
13153.29	7458.00	5468.45	740.60	12867.64	7220.00	5461.77	244.78	-64.36	550.02	316.76	1.74	PASS
13213.00†	7458.00	5528.15	740.42	12927.34	7220.00	5521.47	243.98	-64.38	550.58	320.20	1.72	PASS
13313.00†	7458.00	5628.12	742.90	13027.26	7220.00	5621.39	242.63	-64.53	554.03	326.24	1.70	PASS
13413.00†	7458.00	5727.94	748.87	13126.99	7220.00	5721.10	241.29	-64.79	560.65	332.62	1.69	PASS
13466.89	7458.00	5781.62	753.53	13180.61	7220.00	5774.72	240.57	-64.98	565.52	336.19	1.68	PASS
13513.00†	7458.00	5827.55	757.58	13226.48	7220.00	5820.59	239.95	-65.21	569.76	339.24	1.68	PASS
13613.00†	7458.00	5927.35	763.82	13326.19	7220.00	5920.29	238.61	-65.59	576.66	345.64	1.67	PASS
13713.00†	7458.00	6027.31	766.57	13426.10	7220.00	6020.19	237.27	-65.79	580.39	351.74	1.65	PASS
13813.00†	7458.00	6127.30	765.83	13526.09	7220.00	6120.17	235.92	-65.81	580.95	357.53	1.63	PASS
13913.00†	7458.00	6227.21	761.61	13626.05	7220.00	6220.12	234.58	-65.68	578.32	362.98	1.59	PASS
14013.00†	7458.00	6326.91	753.90	13725.84	7220.00	6319.90	233.23	-65.36	572.52	368.07	1.56	PASS
14066.89	7458.00	6380.50	748.30	13779.51	7220.00	6373.56	232.51	-65.12	568.09	370.64	1.53	PASS
14113.00†	7458.00	6426.36	743.45	13825.42	7220.00	6419.47	231.89	-64.97	564.25	372.81	1.51	PASS
14213.00†	7458.00	6526.03	735.47	13925.20	7220.00	6519.24	230.55	-64.74	558.24	377.77	1.48	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NAH PWB Offset Wellpath: WAKEMAN 20-17-3NAH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W Slot: SLOT#06 WAKEMAN 20-17-3NAH (293'FSL & 2098'FEL, SEC.20) Well: WAKEMAN 20-17-3NAH 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
14313.00†	7458.00	6625.93	730.97	14025.14	7220.00	6619.17	229.20	-64.62	555.39	383.11	1.45	PASS
14348.41	7458.00	6661.33	730.21	14060.55	7220.00	6654.58	228.73	-64.61	555.14	385.09	1.44	PASS
14413.00†	7458.00	6725.91	729.23	14125.14	7220.00	6719.16	227.86	-64.61	555.04	388.75	1.43	PASS
14513.00†	7458.00	6825.90	727.72	14225.14	7220.00	6819.15	226.51	-64.60	554.88	394.42	1.41	PASS
14613.00†	7458.00	6925.89	726.20	14325.14	7220.00	6919.15	225.17	-64.59	554.73	400.09	1.39	PASS
14713.00†	7458.00	7025.88	724.68	14425.14	7220.00	7019.14	223.82	-64.59	554.57	405.76	1.37	PASS
14813.00†	7458.00	7125.87	723.16	14525.14	7220.00	7119.13	222.48	-64.58	554.42	411.43	1.35	PASS
14913.00†	7458.00	7225.85	721.65	14625.14	7220.00	7219.12	221.13	-64.57	554.26	417.10	1.33	PASS
15013.00†	7458.00	7325.84	720.13	14725.14	7220.00	7319.11	219.78	-64.56	554.11	422.77	1.31	PASS
15113.00†	7458.00	7425.83	718.61	14825.14	7220.00	7419.10	218.44	-64.56	553.95	428.44	1.29	PASS
15213.00†	7458.00	7525.82	717.09	14925.14	7220.00	7519.09	217.09	-64.55	553.79	434.12	1.28	PASS
15313.00†	7458.00	7625.81	715.58	15025.14	7220.00	7619.08	215.75	-64.54	553.64	439.79	1.26	PASS
15413.00†	7458.00	7725.80	714.06	15125.14	7220.00	7719.07	214.40	-64.53	553.48	445.47	1.24	PASS
15513.00†	7458.00	7825.78	712.54	15225.14	7220.00	7819.06	213.06	-64.53	553.33	451.14	1.23	PASS
15613.00†	7458.00	7925.77	711.02	15325.14	7220.00	7919.05	211.71	-64.52	553.17	456.81	1.21	PASS
15713.00†	7458.00	8025.76	709.50	15425.14	7220.00	8019.04	210.37	-64.51	553.02	462.49	1.20	PASS
15813.00†	7458.00	8125.75	707.99	15525.14	7220.00	8119.03	209.02	-64.50	552.86	468.17	1.18	PASS
15913.00†	7458.00	8225.74	706.47	15625.14	7220.00	8219.03	207.67	-64.49	552.71	473.84	1.17	PASS
16013.00†	7458.00	8325.73	704.95	15725.14	7220.00	8319.02	206.33	-64.49	552.55	479.52	1.15	PASS
16113.00†	7458.00	8425.72	703.43	15825.14	7220.00	8419.01	204.98	-64.48	552.40	485.19	1.14	PASS
16213.00†	7458.00	8525.70	701.92	15925.14	7220.00	8519.00	203.64	-64.47	552.24	490.87	1.13	PASS
16313.00†	7458.00	8625.69	700.40	16025.14	7220.00	8618.99	202.29	-64.46	552.09	496.54	1.11	PASS
16413.00†	7458.00	8725.68	698.88	16125.14	7220.00	8718.98	200.95	-64.46	551.93	502.22	1.10	PASS
16513.00†	7458.00	8825.67	697.36	16225.14	7220.00	8818.97	199.60	-64.45	551.78	507.90	1.09	PASS
16613.00†	7458.00	8925.66	695.84	16325.14	7220.00	8918.96	198.25	-64.44	551.62	513.57	1.07	PASS
16713.00†	7458.00	9025.65	694.33	16425.14	7220.00	9018.95	196.91	-64.43	551.47	519.25	1.06	PASS
16813.00†	7458.00	9125.63	692.81	16525.14	7220.00	9118.94	195.56	-64.43	551.31	524.92	1.05	PASS
16913.00†	7458.00	9225.62	691.29	16625.14	7220.00	9218.93	194.22	-64.42	551.16	530.60	1.04	PASS
17013.00†	7458.00	9325.61	689.77	16725.14	7220.00	9318.92	192.87	-64.41	551.00	536.28	1.03	PASS
17113.00†	7458.00	9425.60	688.26	16825.14	7220.00	9418.92	191.53	-64.40	550.84	541.95	1.02	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NAH PWB Offset Wellpath: WAKEMAN 20-17-3NAH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#06 WAKEMAN 20-17-3NAH (293'FSL & 2098'FEL, SEC.20)		Well: WAKEMAN 20-17-3NAH		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
17213.00†	7458.00	9525.59	686.74	16925.14	7220.00	9518.91	190.18	-64.39	550.69	547.63	1.01	PASS
17313.00†	7458.00	9625.58	685.22	17025.14	7220.00	9618.90	188.83	-64.39	550.53	553.30	0.99	FAIL
17413.00†	7458.00	9725.57	683.70	17125.14	7220.00	9718.89	187.49	-64.38	550.38	558.98	0.98	FAIL
17513.00†	7458.00	9825.55	682.19	17225.14	7220.00	9818.88	186.14	-64.37	550.22	564.65	0.97	FAIL
17613.00†	7458.00	9925.54	680.67	17325.14	7220.00	9918.87	184.80	-64.36	550.07	570.33	0.96	FAIL
17656.24	7458.00	9968.78	680.01	17368.38	7220.00	9962.11	184.22	-64.36	550.00	572.78	0.96	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: WAKEMAN 20-17-3NAH PWB Offset Wellpath: WAKEMAN 20-17-3NAH PWP (REV-A.0)				
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: WAKEMAN 20-17-3NAH PWB Offset Wellpath: WAKEMAN 20-17-3NAH PWP (REV-A.0)									
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]
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1798.48	-0.03	-18.31	-8.53	-11.64
8.5in Open Hole	1800.00	17376.39	15576.39	1798.48	N/A	-8.53	-11.64	N/A	N/A

SURVEY PROGRAM - Offset Wellbore: WAKEMAN 20-17-3NAH PWB Offset Wellpath: WAKEMAN 20-17-3NAH PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17376.39	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-3NAH PWB

Clearance Report
WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: WAKEMAN 20-17-3NAH PWB Offset Wellpath: WAKEMAN 20-17-3NAH PWP (REV-A.0)	
MD Reference: RIG (13'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	13.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

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

Facility: SEC.20-T01S-R65W Slot: SLOT#01 EX. WOLFE #1 (990'FSL & 990'FEL, SEC.20, OG, PR, 8200) Well: WOLFE #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
13.00	13.00	0.00	0.00	8.00	13.00	718.31	1042.81	55.44	1266.26	50.15	25.62	PASS
113.00†	113.00	0.00	0.00	108.00	113.00	718.31	1042.81	55.44	1266.26	52.49	24.46	PASS
213.00†	213.00	0.00	0.00	208.00	213.00	718.31	1042.81	55.44	1266.26	54.83	23.40	PASS
313.00†	313.00	0.00	0.00	308.00	313.00	718.31	1042.81	55.44	1266.26	57.00	22.43	PASS
413.00†	413.00	0.00	0.00	408.00	413.00	718.31	1042.81	55.44	1266.26	59.35	21.54	PASS
513.00†	513.00	0.00	0.00	508.00	513.00	718.31	1042.81	55.44	1266.26	61.71	20.71	PASS
613.00†	613.00	0.00	0.00	608.00	613.00	718.31	1042.81	55.44	1266.26	64.07	19.94	PASS
713.00†	713.00	0.00	0.00	708.00	713.00	718.31	1042.81	55.44	1266.26	66.43	19.22	PASS
813.00†	813.00	0.00	0.00	808.00	813.00	718.31	1042.81	55.44	1266.26	68.79	18.56	PASS
913.00†	913.00	0.00	0.00	908.00	913.00	718.31	1042.81	55.44	1266.26	71.16	17.93	PASS
1013.00†	1013.00	0.00	0.00	1008.00	1013.00	718.31	1042.81	55.44	1266.26	73.54	17.35	PASS
1100.00	1100.00	0.00	0.00	1095.00	1100.00	718.31	1042.81	55.44	1266.26	75.61	16.87	PASS
1113.00†	1113.00	-0.01	0.03	1108.00	1113.00	718.31	1042.81	-63.20	1266.25	75.92	16.80	PASS
1213.00†	1212.97	-1.07	1.96	1207.97	1212.97	718.31	1042.81	-63.31	1265.26	78.30	16.27	PASS
1313.00†	1312.80	-3.79	6.95	1307.80	1312.80	718.31	1042.81	-63.58	1262.71	80.69	15.76	PASS
1413.00†	1412.38	-8.19	14.99	1407.38	1412.38	718.31	1042.81	-64.03	1258.65	83.09	15.25	PASS
1513.00†	1511.57	-14.24	26.08	1506.57	1511.57	718.31	1042.81	-64.65	1253.14	85.48	14.75	PASS
1532.69	1531.05	-15.63	28.62	1526.05	1531.05	718.31	1042.81	-64.79	1251.90	85.96	14.66	PASS
1613.00†	1610.44	-21.42	39.23	1605.44	1610.44	718.31	1042.81	-65.28	1246.75	87.87	14.28	PASS
1713.00†	1709.30	-28.64	52.43	1704.30	1709.30	718.31	1042.81	-65.91	1240.47	90.27	13.83	PASS
1813.00†	1808.17	-35.85	65.64	1803.17	1808.17	718.31	1042.81	-66.54	1234.35	92.63	13.40	PASS
1913.00†	1907.03	-43.06	78.85	1902.03	1907.03	718.31	1042.81	-67.18	1228.38	95.06	12.99	PASS
2013.00†	2005.89	-50.27	92.05	2000.89	2005.89	718.31	1042.81	-67.82	1222.56	97.49	12.61	PASS
2113.00†	2104.75	-57.48	105.26	2099.75	2104.75	718.31	1042.81	-68.47	1216.91	99.93	12.24	PASS
2213.00†	2203.61	-64.70	118.46	2198.61	2203.61	718.31	1042.81	-69.13	1211.41	102.39	11.89	PASS
2313.00†	2302.47	-71.91	131.67	2297.47	2302.47	718.31	1042.81	-69.79	1206.08	104.86	11.56	PASS
2413.00†	2401.33	-79.12	144.87	2396.33	2401.33	718.31	1042.81	-70.46	1200.91	107.34	11.24	PASS
2513.00†	2500.20	-86.33	158.08	2495.20	2500.20	718.31	1042.81	-71.13	1195.91	109.83	10.94	PASS
2613.00†	2599.06	-93.54	171.28	2594.06	2599.06	718.31	1042.81	-71.81	1191.08	112.33	10.65	PASS
2713.00†	2697.92	-100.75	184.49	2692.92	2697.92	718.31	1042.81	-72.49	1186.41	114.84	10.38	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

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

Facility: SEC.20-T01S-R65W Slot: SLOT#01 EX. WOLFE #1 (990'FSL & 990'FEL,SEC.20,OG,PR, 8200) Well: WOLFE #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
2813.00†	2796.78	-107.97	197.69	2791.78	2796.78	718.31	1042.81	-73.18	1181.93	117.36	10.11	PASS
2913.00†	2895.64	-115.18	210.90	2890.64	2895.64	718.31	1042.81	-73.87	1177.61	119.90	9.86	PASS
3013.00†	2994.50	-122.39	224.11	2989.50	2994.50	718.31	1042.81	-74.57	1173.48	122.44	9.62	PASS
3113.00†	3093.37	-129.60	237.31	3088.37	3093.37	718.31	1042.81	-75.27	1169.52	125.00	9.39	PASS
3213.00†	3192.23	-136.81	250.52	3187.23	3192.23	718.31	1042.81	-75.98	1165.75	127.56	9.17	PASS
3313.00†	3291.09	-144.03	263.72	3286.09	3291.09	718.31	1042.81	-76.69	1162.15	130.14	8.96	PASS
3413.00†	3389.95	-151.24	276.93	3384.95	3389.95	718.31	1042.81	-77.41	1158.74	132.72	8.76	PASS
3513.00†	3488.81	-158.45	290.13	3483.81	3488.81	718.31	1042.81	-78.13	1155.52	135.32	8.57	PASS
3613.00†	3587.67	-165.66	303.34	3582.67	3587.67	718.31	1042.81	-78.85	1152.48	137.92	8.39	PASS
3713.00†	3686.53	-172.87	316.54	3681.53	3686.53	718.31	1042.81	-79.58	1149.64	140.53	8.21	PASS
3813.00†	3785.40	-180.08	329.75	3780.40	3785.40	718.31	1042.81	-80.31	1146.98	143.15	8.04	PASS
3913.00†	3884.26	-187.30	342.96	3879.26	3884.26	718.31	1042.81	-81.04	1144.52	145.78	7.88	PASS
4013.00†	3983.12	-194.51	356.16	3978.12	3983.12	718.31	1042.81	-81.78	1142.24	148.41	7.72	PASS
4113.00†	4081.98	-201.72	369.37	4076.98	4081.98	718.31	1042.81	-82.52	1140.17	151.06	7.57	PASS
4213.00†	4180.84	-208.93	382.57	4175.84	4180.84	718.31	1042.81	-83.26	1138.28	153.70	7.43	PASS
4313.00†	4279.70	-216.14	395.78	4274.70	4279.70	718.31	1042.81	-84.01	1136.60	156.36	7.29	PASS
4413.00†	4378.57	-223.36	408.98	4373.57	4378.57	718.31	1042.81	-84.76	1135.11	159.02	7.16	PASS
4513.00†	4477.43	-230.57	422.19	4472.43	4477.43	718.31	1042.81	-85.50	1133.81	161.69	7.03	PASS
4613.00†	4576.29	-237.78	435.39	4571.29	4576.29	718.31	1042.81	-86.25	1132.72	164.37	6.91	PASS
4713.00†	4675.15	-244.99	448.60	4670.15	4675.15	718.31	1042.81	-87.01	1131.83	167.04	6.79	PASS
4813.00†	4774.01	-252.20	461.80	4769.01	4774.01	718.31	1042.81	-87.76	1131.13	169.73	6.68	PASS
4913.00†	4872.87	-259.42	475.01	4867.87	4872.87	718.31	1042.81	-88.51	1130.64	172.42	6.58	PASS
5013.00†	4971.73	-266.63	488.22	4966.73	4971.73	718.31	1042.81	-89.27	1130.34	175.11	6.47	PASS
5113.00†	5070.60	-273.84	501.42	5065.60	5070.60	718.31	1042.81	-90.02	1130.25	177.81	6.37	PASS
5213.00†	5169.46	-281.05	514.63	5164.46	5169.46	718.31	1042.81	-90.77	1130.35	180.50	6.28	PASS
5313.00†	5268.32	-288.26	527.83	5263.32	5268.32	718.31	1042.81	-91.53	1130.66	183.21	6.19	PASS
5413.00†	5367.18	-295.47	541.04	5362.18	5367.18	718.31	1042.81	-92.28	1131.16	185.91	6.10	PASS
5513.00†	5466.04	-302.69	554.24	5461.04	5466.04	718.31	1042.81	-93.03	1131.87	188.62	6.02	PASS
5613.00†	5564.90	-309.90	567.45	5559.90	5564.90	718.31	1042.81	-93.78	1132.77	191.33	5.93	PASS
5713.00†	5663.77	-317.11	580.65	5658.77	5663.77	718.31	1042.81	-94.53	1133.88	194.04	5.86	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

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

Facility: SEC.20-T01S-R65W Slot: SLOT#01 EX. WOLFE #1 (990'FSL & 990'FEL, SEC.20, OG, PR, 8200) Well: WOLFE #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
5813.00†	5762.63	-324.32	593.86	5757.63	5762.63	718.31	1042.81	-95.28	1135.18	196.75	5.78	PASS
5913.00†	5861.49	-331.53	607.07	5856.49	5861.49	718.31	1042.81	-96.03	1136.68	199.47	5.71	PASS
6013.00†	5960.35	-338.75	620.27	5955.35	5960.35	718.31	1042.81	-96.77	1138.38	202.18	5.64	PASS
6113.00†	6059.21	-345.96	633.48	6054.21	6059.21	718.31	1042.81	-97.52	1140.27	204.90	5.58	PASS
6213.00†	6158.07	-353.17	646.68	6153.07	6158.07	718.31	1042.81	-98.26	1142.36	207.61	5.51	PASS
6313.00†	6256.93	-360.38	659.89	6251.93	6256.93	718.31	1042.81	-98.99	1144.64	210.33	5.45	PASS
6413.00†	6355.80	-367.59	673.09	6350.80	6355.80	718.31	1042.81	-99.73	1147.11	213.05	5.40	PASS
6513.00†	6454.66	-374.80	686.30	6449.66	6454.66	718.31	1042.81	-100.46	1149.78	215.76	5.34	PASS
6613.00†	6553.52	-382.02	699.50	6548.52	6553.52	718.31	1042.81	-101.19	1152.64	218.48	5.29	PASS
6713.00†	6652.38	-389.23	712.71	6647.38	6652.38	718.31	1042.81	-101.91	1155.68	221.19	5.24	PASS
6813.00†	6751.24	-396.44	725.91	6746.24	6751.24	718.31	1042.81	-102.63	1158.91	223.90	5.19	PASS
6910.92	6848.04	-403.50	738.84	6843.04	6848.04	718.31	1042.81	-103.33	1162.26	226.56	5.14	PASS
6913.00†	6850.10	-403.65	739.12	6845.10	6850.10	718.31	1042.81	-102.14	1162.33	226.62	5.14	PASS
7013.00†	6949.10	-401.78	752.22	6944.10	6949.10	718.31	1042.81	-36.56	1157.17	229.41	5.05	PASS
7113.00†	7046.29	-382.60	764.85	7041.29	7046.29	718.31	1042.81	-10.19	1135.45	232.51	4.89	PASS
7213.00†	7138.74	-346.69	776.62	7133.74	7138.74	718.31	1042.81	-0.33	1097.76	235.53	4.67	PASS
7313.00†	7223.63	-295.15	787.19	7218.63	7223.63	718.31	1042.81	5.81	1045.20	238.17	4.40	PASS
7413.00†	7298.39	-229.54	796.21	7293.39	7298.39	718.31	1042.81	11.69	979.40	240.31	4.08	PASS
7513.00†	7360.73	-151.85	803.43	7355.73	7360.73	718.31	1042.81	19.45	902.48	241.89	3.74	PASS
7613.00†	7408.78	-64.45	808.63	7403.78	7408.78	718.31	1042.81	31.84	817.03	242.81	3.37	PASS
7713.00†	7441.06	30.02	811.63	7436.06	7441.06	718.31	1042.81	52.61	726.08	243.02	2.99	PASS
7813.00†	7456.60	128.67	812.36	7451.60	7456.60	718.31	1042.81	80.02	633.07	242.44	2.61	PASS
7853.29	7458.00	168.93	812.01	7453.00	7458.00	718.31	1042.81	90.00	595.89	241.97	2.47	PASS
7913.00†	7458.00	228.63	811.20	7453.00	7458.00	718.31	1042.81	90.00	541.69	241.10	2.25	PASS
8013.00†	7458.00	328.62	809.86	7453.00	7458.00	718.31	1042.81	90.00	454.01	239.26	1.90	PASS
8113.00†	7458.00	428.61	808.51	7453.00	7458.00	718.31	1042.81	90.00	372.59	236.97	1.57	PASS
8213.00†	7458.00	528.60	807.16	7453.00	7458.00	718.31	1042.81	90.00	302.52	234.90	1.29	PASS
8313.00†	7458.00	628.60	805.81	7453.00	7458.00	718.31	1042.81	90.00	253.41	235.94	1.07	PASS
8400.24†	7458.00	715.82	804.64	7451.87	7456.87	718.31	1042.81	89.73	238.19	241.70	0.99	FAIL
8413.00†	7458.00	728.59	804.47	7453.00	7458.00	718.31	1042.81	90.00	238.57	242.80	0.98	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

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

Facility: SEC.20-T01S-R65W Slot: SLOT#01 EX. WOLFE #1 (990'FSL & 990'FEL, SEC.20, OG, PR, 8200) Well: WOLFE #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
8419.47†	7458.00	735.06	804.38	7453.00	7458.00	718.31	1042.81	90.00	239.02	243.35	0.98	FAIL
8513.00†	7458.00	828.58	803.12	7453.00	7458.00	718.31	1042.81	90.00	263.84	250.23	1.05	PASS
8613.00†	7458.00	928.57	801.77	7453.00	7458.00	718.31	1042.81	90.00	319.86	253.88	1.26	PASS
8713.00†	7458.00	1028.56	800.42	7453.00	7458.00	718.31	1042.81	90.00	393.71	254.98	1.55	PASS
8813.00†	7458.00	1128.55	799.08	7453.00	7458.00	718.31	1042.81	90.00	477.19	255.05	1.87	PASS
8913.00†	7458.00	1228.54	797.73	7453.00	7458.00	718.31	1042.81	90.00	566.04	254.80	2.22	PASS
9013.00†	7458.00	1328.53	796.38	7453.00	7458.00	718.31	1042.81	90.00	658.11	254.46	2.59	PASS
9113.00†	7458.00	1428.52	795.03	7453.00	7458.00	718.31	1042.81	90.00	752.20	254.12	2.96	PASS
9213.00†	7458.00	1528.51	793.69	7453.00	7458.00	718.31	1042.81	90.00	847.64	253.81	3.34	PASS
9313.00†	7458.00	1628.50	792.34	7453.00	7458.00	718.31	1042.81	90.00	944.03	253.54	3.73	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: WOLFE #1 AWB Offset Wellpath: WOLFE #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: WOLFE #1 AWB Offset Wellpath: WOLFE #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	250.00	250.00	-8.00	242.00	440.80	633.67	440.80	633.67
8.625in Casing Surface	0.00	250.00	250.00	-8.00	242.00	440.80	633.67	440.80	633.67
7.875in Open Hole	250.00	8200.00	7950.00	242.00	8192.00	440.80	633.67	440.80	633.67
4.5in Casing Production	0.00	8200.00	8200.00	-8.00	8192.00	440.80	633.67	440.80	633.67

Clearance Report
WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

WELLPATH COMPOSITION - Offset Wellbore: WOLFE #1 AWB Offset Wellpath: WOLFE #1 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8200.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL COGCC <8200'>	WOLFE #1 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: WOLFE #1 AWB Offset Wellpath: WOLFE #1 AWP	
MD Reference: Rig on SLOT#01 EX. WOLFE #1 (990'FSL & 990'FEL, SEC.20, OG, PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4NAH PWB Offset Wellpath: WAKEMAN 20-17-4NAH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#02 WAKEMAN 20-17-4NAH (293'FSL & 2038'FEL, SEC.20) Well: WAKEMAN 20-17-4NAH 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
13.00	13.00	0.00	0.00	13.00	13.00	-0.02	29.95	90.03	29.95	1.40	48.58	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.02	29.95	90.03	29.95	1.73	31.37	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.02	29.95	90.03	29.95	2.31	19.37	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.02	29.95	90.03	29.95	2.91	13.81	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.02	29.95	90.03	29.95	3.53	10.69	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.02	29.95	90.03	29.95	4.15	8.71	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.02	29.95	90.03	29.95	4.77	7.34	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.02	29.95	90.03	29.95	5.40	6.34	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.02	29.95	90.03	29.95	6.02	5.58	PASS
913.00†	913.00	0.00	0.00	912.87	912.87	-0.03	29.97	90.05	29.98	6.65	4.99	PASS
1013.00†	1013.00	0.00	0.00	1011.83	1011.80	-0.67	32.03	91.20	32.06	7.38	4.75	PASS
1100.00	1100.00	0.00	0.00	1097.71	1097.55	-2.07	36.45	93.24	36.59	8.24	4.81	PASS
1113.00†	1113.00	-0.01	0.03	1110.52	1110.33	-2.34	37.32	-25.07	37.46	8.37	4.84	PASS
1213.00†	1212.97	-1.07	1.96	1208.91	1208.31	-5.01	45.82	-23.42	44.28	9.37	5.07	PASS
1313.00†	1312.80	-3.79	6.95	1307.07	1305.70	-8.69	57.49	-22.93	51.27	10.53	5.19	PASS
1413.00†	1412.38	-8.19	14.99	1404.98	1402.37	-13.35	72.29	-23.19	58.39	11.58	5.34	PASS
1513.00†	1511.57	-14.24	26.08	1502.65	1498.21	-18.99	90.18	-23.93	65.65	12.57	5.51	PASS
1532.69	1531.05	-15.63	28.62	1521.85	1516.98	-20.21	94.07	-24.13	67.10	12.74	5.55	PASS
1613.00†	1610.44	-21.42	39.23	1599.98	1593.04	-25.58	111.11	-24.71	74.07	13.31	5.86	PASS
1713.00†	1709.30	-28.64	52.43	1699.46	1689.55	-32.81	134.09	-25.08	84.11	13.91	6.35	PASS
1813.00†	1808.17	-35.85	65.64	1798.95	1786.08	-40.05	157.07	-25.37	94.15	14.49	6.80	PASS
1913.00†	1907.03	-43.06	78.85	1898.44	1882.62	-47.29	180.05	-25.60	104.19	15.10	7.19	PASS
2013.00†	2005.89	-50.27	92.05	1997.94	1979.15	-54.53	203.03	-25.80	114.24	15.76	7.54	PASS
2113.00†	2104.75	-57.48	105.26	2097.43	2075.68	-61.77	226.01	-25.96	124.28	16.46	7.85	PASS
2213.00†	2203.61	-64.70	118.46	2196.93	2172.21	-69.00	249.00	-26.09	134.33	17.16	8.12	PASS
2313.00†	2302.47	-71.91	131.67	2296.42	2268.74	-76.24	271.98	-26.21	144.37	17.89	8.36	PASS
2413.00†	2401.33	-79.12	144.87	2395.91	2365.28	-83.48	294.96	-26.32	154.42	18.63	8.58	PASS
2513.00†	2500.20	-86.33	158.08	2495.41	2461.81	-90.72	317.94	-26.41	164.47	19.38	8.77	PASS
2613.00†	2599.06	-93.54	171.28	2594.90	2558.34	-97.96	340.92	-26.49	174.51	20.14	8.95	PASS
2713.00†	2697.92	-100.75	184.49	2694.39	2654.87	-105.19	363.90	-26.56	184.56	20.90	9.10	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4NAH PWB Offset Wellpath: WAKEMAN 20-17-4NAH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#02 WAKEMAN 20-17-4NAH (293'FSL & 2038'FEL, SEC.20) Well: WAKEMAN 20-17-4NAH 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
2813.00†	2796.78	-107.97	197.69	2793.89	2751.40	-112.43	386.89	-26.62	194.61	21.68	9.25	PASS
2913.00†	2895.64	-115.18	210.90	2893.38	2847.94	-119.67	409.87	-26.68	204.66	22.47	9.37	PASS
3013.00†	2994.50	-122.39	224.11	2992.87	2944.47	-126.91	432.85	-26.73	214.70	23.26	9.49	PASS
3113.00†	3093.37	-129.60	237.31	3092.37	3041.00	-134.14	455.83	-26.78	224.75	24.05	9.60	PASS
3213.00†	3192.23	-136.81	250.52	3191.86	3137.53	-141.38	478.81	-26.82	234.80	24.86	9.69	PASS
3313.00†	3291.09	-144.03	263.72	3291.36	3234.07	-148.62	501.80	-26.86	244.85	25.66	9.78	PASS
3413.00†	3389.95	-151.24	276.93	3390.85	3330.60	-155.86	524.78	-26.90	254.90	26.47	9.87	PASS
3513.00†	3488.81	-158.45	290.13	3490.34	3427.13	-163.10	547.76	-26.93	264.95	27.29	9.94	PASS
3613.00†	3587.67	-165.66	303.34	3589.84	3523.66	-170.33	570.74	-26.97	275.00	28.11	10.01	PASS
3713.00†	3686.53	-172.87	316.54	3689.33	3620.19	-177.57	593.72	-27.00	285.05	28.93	10.08	PASS
3813.00†	3785.40	-180.08	329.75	3788.82	3716.73	-184.81	616.70	-27.02	295.09	29.75	10.14	PASS
3913.00†	3884.26	-187.30	342.96	3888.32	3813.26	-192.05	639.69	-27.05	305.14	30.58	10.19	PASS
4013.00†	3983.12	-194.51	356.16	3987.81	3909.79	-199.29	662.67	-27.07	315.19	31.41	10.24	PASS
4113.00†	4081.98	-201.72	369.37	4087.31	4006.32	-206.52	685.65	-27.09	325.24	32.24	10.29	PASS
4213.00†	4180.84	-208.93	382.57	4186.80	4102.85	-213.76	708.63	-27.12	335.29	33.08	10.34	PASS
4313.00†	4279.70	-216.14	395.78	4286.29	4199.39	-221.00	731.61	-27.14	345.34	33.91	10.38	PASS
4413.00†	4378.57	-223.36	408.98	4385.79	4295.92	-228.24	754.59	-27.15	355.39	34.75	10.42	PASS
4513.00†	4477.43	-230.57	422.19	4485.28	4392.45	-235.48	777.58	-27.17	365.44	35.59	10.46	PASS
4613.00†	4576.29	-237.78	435.39	4584.77	4488.98	-242.71	800.56	-27.19	375.49	36.43	10.49	PASS
4713.00†	4675.15	-244.99	448.60	4684.27	4585.51	-249.95	823.54	-27.20	385.54	37.27	10.52	PASS
4813.00†	4774.01	-252.20	461.80	4783.76	4682.05	-257.19	846.52	-27.22	395.59	38.12	10.56	PASS
4913.00†	4872.87	-259.42	475.01	4883.26	4778.58	-264.43	869.50	-27.23	405.64	38.96	10.58	PASS
5013.00†	4971.73	-266.63	488.22	4982.75	4875.11	-271.66	892.49	-27.25	415.69	39.81	10.61	PASS
5113.00†	5070.60	-273.84	501.42	5082.24	4971.64	-278.90	915.47	-27.26	425.74	40.66	10.64	PASS
5213.00†	5169.46	-281.05	514.63	5181.74	5068.18	-286.14	938.45	-27.27	435.79	41.51	10.66	PASS
5313.00†	5268.32	-288.26	527.83	5281.23	5164.71	-293.38	961.43	-27.28	445.84	42.36	10.69	PASS
5413.00†	5367.18	-295.47	541.04	5380.72	5261.24	-300.62	984.41	-27.30	455.89	43.21	10.71	PASS
5513.00†	5466.04	-302.69	554.24	5480.22	5357.77	-307.85	1007.39	-27.31	465.93	44.06	10.73	PASS
5613.00†	5564.90	-309.90	567.45	5579.71	5454.30	-315.09	1030.38	-27.32	475.98	44.91	10.75	PASS
5713.00†	5663.77	-317.11	580.65	5679.20	5550.84	-322.33	1053.36	-27.33	486.03	45.77	10.77	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4NAH PWB Offset Wellpath: WAKEMAN 20-17-4NAH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#02 WAKEMAN 20-17-4NAH (293'FSL & 2038'FEL, SEC.20)		Well: WAKEMAN 20-17-4NAH		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
5813.00†	5762.63	-324.32	593.86	5778.70	5647.37	-329.57	1076.34	-27.34	496.08	46.62	10.79	PASS
5913.00†	5861.49	-331.53	607.07	5878.19	5743.90	-336.81	1099.32	-27.35	506.13	47.47	10.81	PASS
6013.00†	5960.35	-338.75	620.27	5977.69	5840.43	-344.04	1122.30	-27.35	516.18	48.33	10.82	PASS
6113.00†	6059.21	-345.96	633.48	6077.18	5936.96	-351.28	1145.28	-27.36	526.23	49.19	10.84	PASS
6213.00†	6158.07	-353.17	646.68	6176.67	6033.50	-358.52	1168.27	-27.37	536.28	50.04	10.86	PASS
6313.00†	6256.93	-360.38	659.89	6276.17	6130.03	-365.76	1191.25	-27.38	546.33	50.90	10.87	PASS
6413.00†	6355.80	-367.59	673.09	6375.66	6226.56	-373.00	1214.23	-27.39	556.38	51.76	10.89	PASS
6513.00†	6454.66	-374.80	686.30	6475.15	6323.09	-380.23	1237.21	-27.39	566.43	52.62	10.90	PASS
6613.00†	6553.52	-382.02	699.50	6574.65	6419.62	-387.47	1260.19	-27.40	576.48	53.47	10.91	PASS
6713.00†	6652.38	-389.23	712.71	6674.14	6516.16	-394.71	1283.18	-27.41	586.53	54.33	10.92	PASS
6813.00†	6751.24	-396.44	725.91	6773.64	6612.69	-401.95	1306.16	-27.41	596.58	55.19	10.94	PASS
6910.92	6848.04	-403.50	738.84	6871.85	6708.12	-401.26	1328.82	-28.16	606.34	56.25	10.90	PASS
6913.00†	6850.10	-403.65	739.12	6873.90	6710.11	-401.07	1329.29	-27.00	606.55	56.28	10.90	PASS
7013.00†	6949.10	-401.78	752.22	6971.04	6802.99	-383.61	1351.22	36.54	616.83	57.48	10.85	PASS
7113.00†	7046.29	-382.60	764.85	7065.75	6889.56	-351.32	1371.54	60.32	627.39	58.29	10.88	PASS
7213.00†	7138.74	-346.69	776.62	7158.37	6968.12	-306.01	1389.86	67.01	637.83	58.19	11.08	PASS
7313.00†	7223.63	-295.15	787.19	7249.25	7037.35	-249.49	1405.88	69.18	647.75	57.57	11.38	PASS
7413.00†	7298.39	-229.54	796.21	7338.71	7096.18	-183.58	1419.36	69.76	656.75	56.78	11.70	PASS
7513.00†	7360.73	-151.85	803.43	7427.05	7143.81	-110.08	1430.13	69.73	664.49	56.09	11.99	PASS
7613.00†	7408.78	-64.45	808.63	7514.53	7179.61	-30.75	1438.04	69.49	670.68	55.76	12.17	PASS
7713.00†	7441.06	30.02	811.63	7601.41	7203.14	52.66	1443.01	69.22	675.09	56.06	12.18	PASS
7813.00†	7456.60	128.67	812.36	7687.95	7214.14	138.38	1444.98	69.04	677.56	57.09	12.00	PASS
7853.29	7458.00	168.93	812.01	7723.23	7215.00	173.65	1444.92	69.00	677.98	57.69	11.89	PASS
7913.00†	7458.00	228.63	811.20	7782.94	7215.00	233.36	1444.48	69.01	678.31	58.63	11.70	PASS
8013.00†	7458.00	328.62	809.86	7882.93	7215.00	333.35	1443.73	69.03	678.87	60.63	11.32	PASS
8113.00†	7458.00	428.61	808.51	7982.93	7215.00	433.35	1442.98	69.04	679.44	63.14	10.87	PASS
8213.00†	7458.00	528.60	807.16	8082.93	7215.00	533.34	1442.24	69.06	680.00	66.09	10.39	PASS
8313.00†	7458.00	628.60	805.81	8182.93	7215.00	633.34	1441.49	69.08	680.56	69.43	9.89	PASS
8413.00†	7458.00	728.59	804.47	8282.93	7215.00	733.33	1440.75	69.10	681.12	73.09	9.40	PASS
8513.00†	7458.00	828.58	803.12	8382.93	7215.00	833.33	1440.00	69.12	681.68	77.04	8.92	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4NAH PWB Offset Wellpath: WAKEMAN 20-17-4NAH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#02 WAKEMAN 20-17-4NAH (293'FSL & 2038'FEL, SEC.20)		Well: WAKEMAN 20-17-4NAH		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
8613.00†	7458.00	928.57	801.77	8482.92	7215.00	933.32	1439.26	69.13	682.24	82.81	8.30	PASS
8713.00†	7458.00	1028.56	800.42	8582.92	7215.00	1033.32	1438.51	69.15	682.81	85.62	8.03	PASS
8813.00†	7458.00	1128.55	799.08	8682.92	7215.00	1133.31	1437.76	69.17	683.37	90.19	7.63	PASS
8913.00†	7458.00	1228.54	797.73	8782.92	7215.00	1233.31	1437.02	69.19	683.93	94.91	7.25	PASS
9013.00†	7458.00	1328.53	796.38	8882.92	7215.00	1333.30	1436.27	69.21	684.49	99.76	6.90	PASS
9113.00†	7458.00	1428.52	795.03	8982.91	7215.00	1433.30	1435.53	69.22	685.06	104.71	6.58	PASS
9213.00†	7458.00	1528.51	793.69	9082.91	7215.00	1533.30	1434.78	69.24	685.62	109.77	6.28	PASS
9313.00†	7458.00	1628.50	792.34	9182.91	7215.00	1633.29	1434.03	69.26	686.18	114.91	6.00	PASS
9413.00†	7458.00	1728.50	790.99	9282.91	7215.00	1733.29	1433.29	69.28	686.74	120.12	5.75	PASS
9513.00†	7458.00	1828.49	789.65	9382.91	7215.00	1833.28	1432.54	69.30	687.31	125.40	5.51	PASS
9613.00†	7458.00	1928.48	788.30	9482.91	7215.00	1933.28	1431.80	69.31	687.87	130.73	5.29	PASS
9713.00†	7458.00	2028.47	786.95	9582.90	7215.00	2033.27	1431.05	69.33	688.43	136.11	5.08	PASS
9813.00†	7458.00	2128.46	785.60	9682.90	7215.00	2133.27	1430.30	69.35	688.99	141.54	4.89	PASS
9913.00†	7458.00	2228.45	784.26	9782.90	7215.00	2233.26	1429.56	69.36	689.56	147.00	4.71	PASS
10013.00†	7458.00	2328.44	782.91	9882.90	7215.00	2333.26	1428.81	69.38	690.12	152.50	4.54	PASS
10113.00†	7458.00	2428.43	781.56	9982.90	7215.00	2433.25	1428.07	69.40	690.68	158.03	4.39	PASS
10213.00†	7458.00	2528.42	780.21	10082.89	7215.00	2533.25	1427.32	69.42	691.25	163.60	4.24	PASS
10313.00†	7458.00	2628.41	778.87	10182.89	7215.00	2633.25	1426.58	69.44	691.81	169.18	4.10	PASS
10413.00†	7458.00	2728.40	777.52	10282.89	7215.00	2733.24	1425.83	69.45	692.37	174.79	3.97	PASS
10513.00†	7458.00	2828.40	776.17	10382.89	7215.00	2833.24	1425.08	69.47	692.94	180.43	3.85	PASS
10613.00†	7458.00	2928.39	774.82	10482.89	7215.00	2933.23	1424.34	69.49	693.50	186.08	3.74	PASS
10713.00†	7458.00	3028.38	773.48	10582.89	7215.00	3033.23	1423.59	69.51	694.06	191.75	3.63	PASS
10813.00†	7458.00	3128.37	772.13	10682.88	7215.00	3133.22	1422.85	69.52	694.63	197.43	3.53	PASS
10913.00†	7458.00	3228.36	770.78	10782.88	7215.00	3233.22	1422.10	69.54	695.19	203.13	3.43	PASS
11013.00†	7458.00	3328.35	769.43	10882.88	7215.00	3333.21	1421.35	69.56	695.75	208.85	3.34	PASS
11113.00†	7458.00	3428.34	768.09	10982.88	7215.00	3433.21	1420.61	69.58	696.32	214.58	3.25	PASS
11213.00†	7458.00	3528.33	766.74	11082.88	7215.00	3533.20	1419.86	69.59	696.88	220.32	3.17	PASS
11313.00†	7458.00	3628.32	765.39	11182.87	7215.00	3633.20	1419.12	69.61	697.44	226.07	3.09	PASS
11413.00†	7458.00	3728.31	764.05	11282.87	7215.00	3733.19	1418.37	69.63	698.01	231.83	3.02	PASS
11513.00†	7458.00	3828.30	762.70	11382.87	7215.00	3833.19	1417.62	69.64	698.57	237.60	2.95	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4NAH PWB Offset Wellpath: WAKEMAN 20-17-4NAH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#02 WAKEMAN 20-17-4NAH (293'FSL & 2038'FEL, SEC.20)		Well: WAKEMAN 20-17-4NAH		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
11613.00†	7458.00	3928.30	761.35	11482.87	7215.00	3933.19	1416.88	69.66	699.14	243.38	2.88	PASS
11713.00†	7458.00	4028.29	760.00	11582.87	7215.00	4033.18	1416.13	69.68	699.70	249.17	2.81	PASS
11813.00†	7458.00	4128.28	758.66	11682.87	7215.00	4133.18	1415.39	69.69	700.26	254.97	2.75	PASS
11913.00†	7458.00	4228.27	757.31	11782.86	7215.00	4233.17	1414.64	69.71	700.83	260.78	2.69	PASS
12013.00†	7458.00	4328.26	755.96	11882.86	7215.00	4333.17	1413.90	69.73	701.39	266.59	2.64	PASS
12113.00†	7458.00	4428.25	754.61	11982.86	7215.00	4433.16	1413.15	69.75	701.96	272.41	2.58	PASS
12213.00†	7458.00	4528.24	753.27	12082.86	7215.00	4533.16	1412.40	69.76	702.52	278.24	2.53	PASS
12313.00†	7458.00	4628.23	751.92	12182.86	7215.00	4633.15	1411.66	69.78	703.08	284.07	2.48	PASS
12413.00†	7458.00	4728.22	750.57	12282.85	7215.00	4733.15	1410.91	69.80	703.65	289.91	2.43	PASS
12513.00†	7458.00	4828.21	749.22	12382.85	7215.00	4833.14	1410.17	69.81	704.21	295.75	2.38	PASS
12613.00†	7458.00	4928.20	747.88	12482.85	7215.00	4933.14	1409.42	69.83	704.78	301.60	2.34	PASS
12713.00†	7458.00	5028.20	746.53	12582.85	7215.00	5033.13	1408.67	69.85	705.34	307.45	2.30	PASS
12813.00†	7458.00	5128.19	745.18	12682.85	7215.00	5133.13	1407.93	69.86	705.91	313.31	2.26	PASS
12913.00†	7458.00	5228.18	743.84	12782.85	7215.00	5233.13	1407.18	69.88	706.47	319.17	2.22	PASS
13013.00†	7458.00	5328.17	742.49	12882.84	7215.00	5333.12	1406.44	69.90	707.04	325.04	2.18	PASS
13113.00†	7458.00	5428.16	741.14	12982.84	7215.00	5433.12	1405.69	69.92	707.60	330.91	2.14	PASS
13153.29	7458.00	5468.45	740.60	13023.13	7215.00	5473.41	1405.39	69.92	707.83	333.28	2.13	PASS
13213.00†	7458.00	5528.15	740.42	13082.84	7215.00	5533.11	1404.94	69.91	707.58	336.75	2.10	PASS
13313.00†	7458.00	5628.12	742.90	13182.78	7215.00	5633.05	1404.20	69.80	704.55	342.45	2.06	PASS
13413.00†	7458.00	5727.94	748.87	13282.55	7215.00	5732.82	1403.46	69.57	698.25	347.96	2.01	PASS
13466.89	7458.00	5781.62	753.53	13336.20	7215.00	5786.47	1403.06	69.39	693.51	350.83	1.98	PASS
13513.00†	7458.00	5827.55	757.58	13382.10	7215.00	5832.37	1402.71	69.29	689.40	353.28	1.95	PASS
13613.00†	7458.00	5927.35	763.82	13481.85	7215.00	5932.11	1401.97	69.13	682.87	358.72	1.91	PASS
13713.00†	7458.00	6027.31	766.57	13581.79	7215.00	6032.04	1401.22	69.05	679.60	364.36	1.87	PASS
13813.00†	7458.00	6127.30	765.83	13681.78	7215.00	6132.04	1400.48	69.05	679.59	370.20	1.84	PASS
13913.00†	7458.00	6227.21	761.61	13781.72	7215.00	6231.97	1399.73	69.13	682.84	376.25	1.82	PASS
14013.00†	7458.00	6326.91	753.90	13881.47	7215.00	6331.72	1398.99	69.29	689.36	382.49	1.80	PASS
14066.89	7458.00	6380.50	748.30	13935.11	7215.00	6385.35	1398.59	69.41	694.22	385.93	1.80	PASS
14113.00†	7458.00	6426.36	743.45	13980.99	7215.00	6431.24	1398.25	69.57	698.45	388.88	1.80	PASS
14213.00†	7458.00	6526.03	735.47	14080.73	7215.00	6530.97	1397.50	69.82	705.24	395.14	1.79	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4NAH PWB Offset Wellpath: WAKEMAN 20-17-4NAH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#02 WAKEMAN 20-17-4NAH (293'FSL & 2038'FEL, SEC.20)		Well: WAKEMAN 20-17-4NAH		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
14313.00†	7458.00	6625.93	730.97	14180.65	7215.00	6630.89	1396.76	69.95	708.76	401.23	1.77	PASS
14348.41	7458.00	6661.33	730.21	14216.06	7215.00	6666.30	1396.49	69.96	709.22	403.33	1.76	PASS
14413.00†	7458.00	6725.91	729.23	14280.65	7215.00	6730.88	1396.01	69.98	709.69	407.16	1.74	PASS
14513.00†	7458.00	6825.90	727.72	14380.64	7215.00	6830.88	1395.26	70.00	710.42	413.08	1.72	PASS
14613.00†	7458.00	6925.89	726.20	14480.64	7215.00	6930.87	1394.52	70.02	711.14	419.00	1.70	PASS
14713.00†	7458.00	7025.88	724.68	14580.64	7215.00	7030.87	1393.77	70.04	711.87	424.93	1.68	PASS
14813.00†	7458.00	7125.87	723.16	14680.63	7215.00	7130.86	1393.03	70.06	712.59	430.86	1.65	PASS
14913.00†	7458.00	7225.85	721.65	14780.63	7215.00	7230.86	1392.28	70.08	713.32	436.79	1.63	PASS
15013.00†	7458.00	7325.84	720.13	14880.63	7215.00	7330.85	1391.54	70.10	714.05	442.72	1.61	PASS
15113.00†	7458.00	7425.83	718.61	14980.63	7215.00	7430.84	1390.79	70.12	714.77	448.66	1.59	PASS
15213.00†	7458.00	7525.82	717.09	15080.62	7215.00	7530.84	1390.04	70.15	715.50	454.60	1.57	PASS
15313.00†	7458.00	7625.81	715.58	15180.62	7215.00	7630.83	1389.30	70.17	716.22	460.54	1.56	PASS
15413.00†	7458.00	7725.80	714.06	15280.62	7215.00	7730.83	1388.55	70.19	716.95	466.49	1.54	PASS
15513.00†	7458.00	7825.78	712.54	15380.61	7215.00	7830.82	1387.81	70.21	717.68	472.43	1.52	PASS
15613.00†	7458.00	7925.77	711.02	15480.61	7215.00	7930.82	1387.06	70.23	718.40	478.38	1.50	PASS
15713.00†	7458.00	8025.76	709.50	15580.61	7215.00	8030.81	1386.31	70.25	719.13	484.33	1.49	PASS
15813.00†	7458.00	8125.75	707.99	15680.60	7215.00	8130.80	1385.57	70.27	719.86	490.29	1.47	PASS
15913.00†	7458.00	8225.74	706.47	15780.60	7215.00	8230.80	1384.82	70.29	720.58	496.24	1.45	PASS
16013.00†	7458.00	8325.73	704.95	15880.60	7215.00	8330.79	1384.08	70.31	721.31	502.20	1.44	PASS
16113.00†	7458.00	8425.72	703.43	15980.60	7215.00	8430.79	1383.33	70.33	722.04	508.16	1.42	PASS
16213.00†	7458.00	8525.70	701.92	16080.59	7215.00	8530.78	1382.58	70.35	722.76	514.12	1.41	PASS
16313.00†	7458.00	8625.69	700.40	16180.59	7215.00	8630.78	1381.84	70.37	723.49	520.08	1.39	PASS
16413.00†	7458.00	8725.68	698.88	16280.59	7215.00	8730.77	1381.09	70.39	724.22	526.05	1.38	PASS
16513.00†	7458.00	8825.67	697.36	16380.58	7215.00	8830.76	1380.35	70.42	724.94	532.02	1.36	PASS
16613.00†	7458.00	8925.66	695.84	16480.58	7215.00	8930.76	1379.60	70.44	725.67	537.99	1.35	PASS
16713.00†	7458.00	9025.65	694.33	16580.58	7215.00	9030.75	1378.86	70.46	726.40	543.96	1.34	PASS
16813.00†	7458.00	9125.63	692.81	16680.57	7215.00	9130.75	1378.11	70.48	727.13	549.93	1.32	PASS
16913.00†	7458.00	9225.62	691.29	16780.57	7215.00	9230.74	1377.36	70.50	727.85	555.91	1.31	PASS
17013.00†	7458.00	9325.61	689.77	16880.57	7215.00	9330.74	1376.62	70.52	728.58	561.88	1.30	PASS
17113.00†	7458.00	9425.60	688.26	16980.57	7215.00	9430.73	1375.87	70.54	729.31	567.86	1.28	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4NAH PWB Offset Wellpath: WAKEMAN 20-17-4NAH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#02 WAKEMAN 20-17-4NAH (293'FSL & 2038'FEL, SEC.20) Well: WAKEMAN 20-17-4NAH 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
17213.00†	7458.00	9525.59	686.74	17080.56	7215.00	9530.72	1375.13	70.56	730.04	573.84	1.27	PASS
17313.00†	7458.00	9625.58	685.22	17180.56	7215.00	9630.72	1374.38	70.58	730.76	579.82	1.26	PASS
17413.00†	7458.00	9725.57	683.70	17280.56	7215.00	9730.71	1373.63	70.60	731.49	585.80	1.25	PASS
17513.00†	7458.00	9825.55	682.19	17380.55	7215.00	9830.71	1372.89	70.62	732.22	591.79	1.24	PASS
17613.00†	7458.00	9925.54	680.67	17480.55	7215.00	9930.70	1372.14	70.64	732.95	597.78	1.23	PASS
17656.24	7458.00	9968.78	680.01	17516.82	7215.00	9966.97	1371.87	70.65	733.30	600.77	1.22	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: WAKEMAN 20-17-4NAH PWB Offset Wellpath: WAKEMAN 20-17-4NAH PWP (REV-A.0)

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: WAKEMAN 20-17-4NAH PWB Offset Wellpath: WAKEMAN 20-17-4NAH PWP (REV-A.0)

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]
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1787.10	-0.01	18.26	-12.24	57.08
8.5in Open Hole	1800.00	17516.82	15716.82	1787.10	7215.00	-12.24	57.08	3037.93	427.27

SURVEY PROGRAM - Offset Wellbore: WAKEMAN 20-17-4NAH PWB Offset Wellpath: WAKEMAN 20-17-4NAH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17516.82	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-4NAH PWB

Clearance Report
WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: WAKEMAN 20-17-4NAH PWB Offset Wellpath: WAKEMAN 20-17-4NAH PWP (REV-A.0)	
MD Reference: RIG (13'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	13.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NBH PWB Offset Wellpath: WAKEMAN 20-17-3NBH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W Slot: SLOT#07 WAKEMAN 20-17-3NBH (293'FSL & 2113'FEL, SEC.20) Well: WAKEMAN 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
13.00	13.00	0.00	0.00	13.00	13.00	-0.16	-44.98	-90.20	44.98	1.40	73.62	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.16	-44.98	-90.20	44.98	1.72	47.92	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.16	-44.98	-90.20	44.98	2.29	29.62	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.16	-44.98	-90.20	44.98	2.90	21.09	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.16	-44.98	-90.20	44.98	3.51	16.30	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.16	-44.98	-90.20	44.98	4.13	13.27	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.16	-44.98	-90.20	44.98	4.75	11.18	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.16	-44.98	-90.20	44.98	5.38	9.65	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.16	-44.98	-90.20	44.98	6.00	8.49	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	-0.16	-44.98	-90.20	44.98	6.63	7.58	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	-0.16	-44.98	-90.20	44.98	7.26	6.85	PASS
1100.00	1100.00	0.00	0.00	1100.00	1100.00	-0.16	-44.98	-90.20	44.98	7.80	6.31	PASS
1113.00†	1113.00	-0.01	0.03	1113.00	1113.00	-0.16	-44.98	151.18	45.00	7.88	6.24	PASS
1213.00†	1212.97	-1.07	1.96	1212.97	1212.97	-0.16	-44.98	152.45	46.94	8.59	5.93	PASS
1313.00†	1312.80	-3.79	6.95	1312.80	1312.80	-0.16	-44.98	155.31	52.05	9.50	5.89	PASS
1413.00†	1412.38	-8.19	14.99	1412.45	1412.45	-0.18	-44.97	158.85	60.49	10.40	6.22	PASS
1513.00†	1511.57	-14.24	26.08	1512.51	1512.48	-2.34	-44.62	160.77	71.70	11.27	6.77	PASS
1532.69	1531.05	-15.63	28.62	1532.21	1532.16	-3.17	-44.49	160.88	74.17	11.43	6.91	PASS
1613.00†	1610.44	-21.42	39.23	1612.62	1612.42	-7.94	-43.71	160.46	84.05	11.93	7.48	PASS
1713.00†	1709.30	-28.64	52.43	1711.98	1711.49	-15.52	-42.48	159.08	95.84	12.54	8.10	PASS
1813.00†	1808.17	-35.85	65.64	1811.26	1810.47	-23.11	-41.24	158.00	107.66	13.07	8.65	PASS
1913.00†	1907.03	-43.06	78.85	1910.54	1909.46	-30.70	-40.01	157.13	119.52	13.72	9.13	PASS
2013.00†	2005.89	-50.27	92.05	2009.82	2008.44	-38.28	-38.78	156.42	131.40	14.39	9.55	PASS
2113.00†	2104.75	-57.48	105.26	2109.10	2107.42	-45.87	-37.54	155.83	143.29	15.08	9.92	PASS
2213.00†	2203.61	-64.70	118.46	2208.38	2206.40	-53.46	-36.31	155.33	155.20	15.78	10.25	PASS
2313.00†	2302.47	-71.91	131.67	2307.66	2305.38	-61.04	-35.07	154.90	167.12	16.49	10.55	PASS
2413.00†	2401.33	-79.12	144.87	2406.94	2404.37	-68.63	-33.84	154.53	179.05	17.20	10.81	PASS
2513.00†	2500.20	-86.33	158.08	2506.22	2503.35	-76.22	-32.61	154.20	190.98	17.93	11.05	PASS
2613.00†	2599.06	-93.54	171.28	2605.51	2602.33	-83.81	-31.37	153.91	202.92	18.66	11.26	PASS
2713.00†	2697.92	-100.75	184.49	2704.79	2701.31	-91.39	-30.14	153.66	214.86	19.41	11.45	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NBH PWB Offset Wellpath: WAKEMAN 20-17-3NBH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#07 WAKEMAN 20-17-3NBH (293'FSL & 2113'FEL, SEC.20) Well: WAKEMAN 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
2813.00†	2796.78	-107.97	197.69	2804.07	2800.29	-98.98	-28.90	153.43	226.80	20.15	11.63	PASS
2913.00†	2895.64	-115.18	210.90	2903.35	2899.28	-106.57	-27.67	153.22	238.75	20.90	11.79	PASS
3013.00†	2994.50	-122.39	224.11	3002.63	2998.26	-114.15	-26.44	153.04	250.71	21.66	11.93	PASS
3113.00†	3093.37	-129.60	237.31	3101.91	3097.24	-121.74	-25.20	152.87	262.66	22.42	12.07	PASS
3213.00†	3192.23	-136.81	250.52	3201.19	3196.22	-129.33	-23.97	152.71	274.62	23.18	12.19	PASS
3313.00†	3291.09	-144.03	263.72	3300.47	3295.20	-136.92	-22.73	152.57	286.57	23.95	12.30	PASS
3413.00†	3389.95	-151.24	276.93	3399.75	3394.19	-144.50	-21.50	152.44	298.53	24.72	12.40	PASS
3513.00†	3488.81	-158.45	290.13	3499.03	3493.17	-152.09	-20.27	152.32	310.50	25.49	12.50	PASS
3613.00†	3587.67	-165.66	303.34	3598.31	3592.15	-159.68	-19.03	152.21	322.46	26.27	12.59	PASS
3713.00†	3686.53	-172.87	316.54	3697.59	3691.13	-167.27	-17.80	152.11	334.42	27.04	12.67	PASS
3813.00†	3785.40	-180.08	329.75	3796.87	3790.11	-174.85	-16.57	152.01	346.39	27.82	12.75	PASS
3913.00†	3884.26	-187.30	342.96	3896.15	3889.10	-182.44	-15.33	151.92	358.35	28.60	12.82	PASS
4013.00†	3983.12	-194.51	356.16	3995.43	3988.08	-190.03	-14.10	151.84	370.32	29.38	12.89	PASS
4113.00†	4081.98	-201.72	369.37	4094.71	4087.06	-197.61	-12.86	151.76	382.29	30.17	12.95	PASS
4213.00†	4180.84	-208.93	382.57	4193.99	4186.04	-205.20	-11.63	151.68	394.25	30.95	13.01	PASS
4313.00†	4279.70	-216.14	395.78	4293.27	4285.02	-212.79	-10.40	151.61	406.22	31.74	13.07	PASS
4413.00†	4378.57	-223.36	408.98	4392.55	4384.01	-220.38	-9.16	151.55	418.19	32.53	13.12	PASS
4513.00†	4477.43	-230.57	422.19	4491.83	4482.99	-227.96	-7.93	151.49	430.16	33.32	13.17	PASS
4613.00†	4576.29	-237.78	435.39	4591.11	4581.97	-235.55	-6.69	151.43	442.13	34.11	13.22	PASS
4713.00†	4675.15	-244.99	448.60	4690.39	4680.95	-243.14	-5.46	151.37	454.10	34.90	13.26	PASS
4813.00†	4774.01	-252.20	461.80	4789.67	4779.93	-250.72	-4.23	151.32	466.07	35.69	13.30	PASS
4913.00†	4872.87	-259.42	475.01	4888.95	4878.92	-258.31	-2.99	151.27	478.04	36.48	13.34	PASS
5013.00†	4971.73	-266.63	488.22	4988.23	4977.90	-265.90	-1.76	151.22	490.01	37.28	13.38	PASS
5113.00†	5070.60	-273.84	501.42	5087.51	5076.88	-273.49	-0.52	151.18	501.99	38.07	13.42	PASS
5213.00†	5169.46	-281.05	514.63	5186.79	5175.86	-281.07	0.71	151.13	513.96	38.87	13.45	PASS
5313.00†	5268.32	-288.26	527.83	5286.07	5274.84	-288.66	1.94	151.09	525.93	39.66	13.48	PASS
5413.00†	5367.18	-295.47	541.04	5385.35	5373.83	-296.25	3.18	151.05	537.90	40.46	13.51	PASS
5513.00†	5466.04	-302.69	554.24	5484.63	5472.81	-303.83	4.41	151.01	549.88	41.26	13.54	PASS
5613.00†	5564.90	-309.90	567.45	5583.91	5571.79	-311.42	5.64	150.98	561.85	42.05	13.57	PASS
5713.00†	5663.77	-317.11	580.65	5683.19	5670.77	-319.01	6.88	150.94	573.82	42.85	13.60	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NBH PWB Offset Wellpath: WAKEMAN 20-17-3NBH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W Slot: SLOT#07 WAKEMAN 20-17-3NBH (293'FSL & 2113'FEL, SEC.20) Well: WAKEMAN 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
5813.00†	5762.63	-324.32	593.86	5782.47	5769.75	-326.60	8.11	150.91	585.80	43.65	13.62	PASS
5913.00†	5861.49	-331.53	607.07	5881.75	5868.74	-334.18	9.35	150.88	597.77	44.45	13.65	PASS
6013.00†	5960.35	-338.75	620.27	5981.03	5967.72	-341.77	10.58	150.85	609.74	45.25	13.67	PASS
6113.00†	6059.21	-345.96	633.48	6080.31	6066.70	-349.36	11.81	150.82	621.72	46.05	13.70	PASS
6213.00†	6158.07	-353.17	646.68	6179.59	6165.68	-356.95	13.05	150.79	633.69	46.85	13.72	PASS
6313.00†	6256.93	-360.38	659.89	6278.87	6264.66	-364.53	14.28	150.76	645.67	47.65	13.74	PASS
6413.00†	6355.80	-367.59	673.09	6378.15	6363.65	-372.12	15.52	150.74	657.64	48.45	13.76	PASS
6513.00†	6454.66	-374.80	686.30	6477.43	6462.63	-379.71	16.75	150.71	669.61	49.25	13.78	PASS
6613.00†	6553.52	-382.02	699.50	6576.71	6561.61	-387.29	17.98	150.69	681.59	50.06	13.80	PASS
6713.00†	6652.38	-389.23	712.71	6675.99	6660.59	-394.88	19.22	150.66	693.56	50.86	13.82	PASS
6813.00†	6751.24	-396.44	725.91	6775.27	6759.57	-402.47	20.45	150.64	705.54	51.66	13.83	PASS
6910.92	6848.04	-403.50	738.84	6871.56	6855.74	-404.58	21.58	151.04	717.31	53.19	13.65	PASS
6913.00†	6850.10	-403.65	739.12	6873.57	6857.75	-404.46	21.60	152.30	717.56	53.23	13.65	PASS
7013.00†	6949.10	-401.78	752.22	6969.46	6952.51	-390.51	22.50	-139.46	729.82	56.62	13.04	PASS
7113.00†	7046.29	-382.60	764.85	7063.53	7041.93	-361.68	23.13	-111.23	742.03	58.75	12.77	PASS
7213.00†	7138.74	-346.69	776.62	7156.06	7124.15	-319.43	23.50	-100.46	753.76	58.55	13.02	PASS
7313.00†	7223.63	-295.15	787.19	7247.36	7197.56	-265.32	23.61	-94.67	764.60	58.02	13.33	PASS
7413.00†	7298.39	-229.54	796.21	7337.69	7260.84	-201.00	23.47	-90.98	774.18	57.43	13.64	PASS
7513.00†	7360.73	-151.85	803.43	7427.30	7312.87	-128.15	23.09	-88.50	782.17	56.94	13.90	PASS
7613.00†	7408.78	-64.45	808.63	7516.41	7352.73	-48.55	22.47	-86.84	788.31	56.67	14.07	PASS
7713.00†	7441.06	30.02	811.63	7605.24	7379.72	35.98	21.64	-85.85	792.39	56.78	14.12	PASS
7813.00†	7456.60	128.67	812.36	7693.98	7393.32	123.57	20.62	-85.45	794.28	57.32	14.02	PASS
7853.29	7458.00	168.93	812.01	7729.75	7394.94	159.30	20.16	-85.45	794.41	57.63	13.94	PASS
7913.00†	7458.00	228.63	811.20	7788.44	7395.00	217.98	19.37	-85.45	794.41	58.39	13.76	PASS
8013.00†	7458.00	328.62	809.86	7888.44	7395.00	317.97	18.03	-85.45	794.40	60.21	13.34	PASS
8113.00†	7458.00	428.61	808.51	7988.44	7395.00	417.96	16.68	-85.45	794.40	62.61	12.82	PASS
8213.00†	7458.00	528.60	807.16	8088.44	7395.00	517.95	15.33	-85.45	794.40	65.53	12.24	PASS
8313.00†	7458.00	628.60	805.81	8188.44	7395.00	617.94	13.99	-85.45	794.40	68.90	11.64	PASS
8413.00†	7458.00	728.59	804.47	8288.44	7395.00	717.93	12.64	-85.45	794.40	72.66	11.03	PASS
8513.00†	7458.00	828.58	803.12	8388.44	7395.00	817.93	11.30	-85.45	794.39	76.74	10.44	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NBH PWB Offset Wellpath: WAKEMAN 20-17-3NBH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#07 WAKEMAN 20-17-3NBH (293'FSL & 2113'FEL, SEC.20)		Well: WAKEMAN 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
8613.00†	7458.00	928.57	801.77	8488.44	7395.00	917.92	9.95	-85.45	794.39	81.10	9.87	PASS
8713.00†	7458.00	1028.56	800.42	8588.44	7395.00	1017.91	8.61	-85.45	794.39	85.70	9.34	PASS
8813.00†	7458.00	1128.55	799.08	8688.44	7395.00	1117.90	7.26	-85.45	794.39	90.50	8.84	PASS
8913.00†	7458.00	1228.54	797.73	8788.44	7395.00	1217.89	5.92	-85.45	794.38	95.47	8.38	PASS
9013.00†	7458.00	1328.53	796.38	8888.44	7395.00	1317.88	4.57	-85.45	794.38	100.58	7.95	PASS
9113.00†	7458.00	1428.52	795.03	8988.44	7395.00	1417.87	3.23	-85.45	794.38	105.81	7.55	PASS
9213.00†	7458.00	1528.51	793.69	9088.44	7395.00	1517.86	1.88	-85.45	794.38	111.15	7.19	PASS
9313.00†	7458.00	1628.50	792.34	9188.44	7395.00	1617.85	0.54	-85.45	794.38	116.57	6.85	PASS
9413.00†	7458.00	1728.50	790.99	9288.44	7395.00	1717.84	-0.81	-85.45	794.37	122.08	6.54	PASS
9513.00†	7458.00	1828.49	789.65	9388.44	7395.00	1817.83	-2.15	-85.45	794.37	127.66	6.25	PASS
9613.00†	7458.00	1928.48	788.30	9488.44	7395.00	1917.83	-3.50	-85.45	794.37	133.29	5.99	PASS
9713.00†	7458.00	2028.47	786.95	9588.44	7395.00	2017.82	-4.84	-85.45	794.37	138.99	5.74	PASS
9813.00†	7458.00	2128.46	785.60	9688.44	7395.00	2117.81	-6.19	-85.45	794.36	144.72	5.51	PASS
9913.00†	7458.00	2228.45	784.26	9788.44	7395.00	2217.80	-7.53	-85.45	794.36	150.49	5.30	PASS
10013.00†	7458.00	2328.44	782.91	9888.44	7395.00	2317.79	-8.88	-85.45	794.36	156.30	5.10	PASS
10113.00†	7458.00	2428.43	781.56	9988.44	7395.00	2417.78	-10.22	-85.45	794.36	162.15	4.92	PASS
10213.00†	7458.00	2528.42	780.21	10088.44	7395.00	2517.77	-11.57	-85.45	794.36	168.02	4.74	PASS
10313.00†	7458.00	2628.41	778.87	10188.44	7395.00	2617.76	-12.91	-85.45	794.35	173.92	4.58	PASS
10413.00†	7458.00	2728.40	777.52	10288.44	7395.00	2717.75	-14.26	-85.45	794.35	179.84	4.43	PASS
10513.00†	7458.00	2828.40	776.17	10388.44	7395.00	2817.74	-15.60	-85.45	794.35	185.79	4.29	PASS
10613.00†	7458.00	2928.39	774.82	10488.44	7395.00	2917.74	-16.95	-85.45	794.35	191.75	4.15	PASS
10713.00†	7458.00	3028.38	773.48	10588.44	7395.00	3017.73	-18.29	-85.45	794.34	197.73	4.03	PASS
10813.00†	7458.00	3128.37	772.13	10688.44	7395.00	3117.72	-19.64	-85.45	794.34	203.73	3.91	PASS
10913.00†	7458.00	3228.36	770.78	10788.44	7395.00	3217.71	-20.98	-85.45	794.34	209.74	3.80	PASS
11013.00†	7458.00	3328.35	769.43	10888.44	7395.00	3317.70	-22.33	-85.45	794.34	215.77	3.69	PASS
11113.00†	7458.00	3428.34	768.09	10988.44	7395.00	3417.69	-23.67	-85.45	794.34	221.81	3.59	PASS
11213.00†	7458.00	3528.33	766.74	11088.44	7395.00	3517.68	-25.02	-85.45	794.33	227.86	3.49	PASS
11313.00†	7458.00	3628.32	765.39	11188.44	7395.00	3617.67	-26.36	-85.45	794.33	233.92	3.40	PASS
11413.00†	7458.00	3728.31	764.05	11288.44	7395.00	3717.66	-27.71	-85.45	794.33	239.98	3.32	PASS
11513.00†	7458.00	3828.30	762.70	11388.44	7395.00	3817.65	-29.05	-85.45	794.33	246.06	3.23	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NBH PWB Offset Wellpath: WAKEMAN 20-17-3NBH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#07 WAKEMAN 20-17-3NBH (293'FSL & 2113'FEL, SEC.20)		Well: WAKEMAN 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
11613.00†	7458.00	3928.30	761.35	11488.44	7395.00	3917.64	-30.40	-85.45	794.32	252.15	3.16	PASS
11713.00†	7458.00	4028.29	760.00	11588.44	7395.00	4017.64	-31.74	-85.45	794.32	258.24	3.08	PASS
11813.00†	7458.00	4128.28	758.66	11688.44	7395.00	4117.63	-33.09	-85.45	794.32	264.34	3.01	PASS
11913.00†	7458.00	4228.27	757.31	11788.44	7395.00	4217.62	-34.44	-85.45	794.32	270.45	2.94	PASS
12013.00†	7458.00	4328.26	755.96	11888.44	7395.00	4317.61	-35.78	-85.45	794.32	276.57	2.88	PASS
12113.00†	7458.00	4428.25	754.61	11988.44	7395.00	4417.60	-37.13	-85.45	794.31	282.69	2.81	PASS
12213.00†	7458.00	4528.24	753.27	12088.44	7395.00	4517.59	-38.47	-85.45	794.31	288.81	2.75	PASS
12313.00†	7458.00	4628.23	751.92	12188.44	7395.00	4617.58	-39.82	-85.45	794.31	294.94	2.70	PASS
12413.00†	7458.00	4728.22	750.57	12288.44	7395.00	4717.57	-41.16	-85.45	794.31	301.08	2.64	PASS
12513.00†	7458.00	4828.21	749.22	12388.44	7395.00	4817.56	-42.51	-85.45	794.30	307.22	2.59	PASS
12613.00†	7458.00	4928.20	747.88	12488.44	7395.00	4917.55	-43.85	-85.45	794.30	313.36	2.54	PASS
12713.00†	7458.00	5028.20	746.53	12588.44	7395.00	5017.55	-45.20	-85.45	794.30	319.51	2.49	PASS
12813.00†	7458.00	5128.19	745.18	12688.44	7395.00	5117.54	-46.54	-85.45	794.30	325.66	2.44	PASS
12913.00†	7458.00	5228.18	743.84	12788.44	7395.00	5217.53	-47.89	-85.45	794.30	331.82	2.40	PASS
13013.00†	7458.00	5328.17	742.49	12888.44	7395.00	5317.52	-49.23	-85.45	794.29	337.98	2.35	PASS
13113.00†	7458.00	5428.16	741.14	12988.44	7395.00	5417.51	-50.58	-85.45	794.29	344.14	2.31	PASS
13153.29	7458.00	5468.45	740.60	13028.73	7395.00	5457.80	-51.12	-85.45	794.29	346.62	2.29	PASS
13213.00†	7458.00	5528.15	740.42	13088.43	7395.00	5517.50	-51.92	-85.45	794.91	350.30	2.27	PASS
13313.00†	7458.00	5628.12	742.90	13188.35	7395.00	5617.41	-53.27	-85.47	798.72	356.47	2.24	PASS
13413.00†	7458.00	5727.94	748.87	13288.08	7395.00	5717.13	-54.61	-85.50	806.01	362.63	2.23	PASS
13466.89	7458.00	5781.62	753.53	13341.70	7395.00	5770.74	-55.33	-85.52	811.38	365.94	2.22	PASS
13513.00†	7458.00	5827.55	757.58	13387.57	7395.00	5816.61	-55.95	-85.55	816.03	368.77	2.22	PASS
13613.00†	7458.00	5927.35	763.82	13487.28	7395.00	5916.31	-57.29	-85.61	823.59	374.93	2.20	PASS
13713.00†	7458.00	6027.31	766.57	13587.19	7395.00	6016.21	-58.63	-85.63	827.68	381.11	2.17	PASS
13813.00†	7458.00	6127.30	765.83	13687.18	7395.00	6116.19	-59.98	-85.64	828.28	387.30	2.14	PASS
13913.00†	7458.00	6227.21	761.61	13787.14	7395.00	6216.14	-61.32	-85.62	825.41	393.49	2.10	PASS
14013.00†	7458.00	6326.91	753.90	13886.93	7395.00	6315.92	-62.66	-85.57	819.06	399.67	2.05	PASS
14066.89	7458.00	6380.50	748.30	13940.60	7395.00	6369.58	-63.38	-85.54	814.20	402.99	2.02	PASS
14113.00†	7458.00	6426.36	743.45	13986.51	7395.00	6415.50	-64.00	-85.52	809.98	405.83	2.00	PASS
14213.00†	7458.00	6526.03	735.47	14086.29	7395.00	6515.26	-65.34	-85.50	803.36	412.00	1.95	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NBH PWB Offset Wellpath: WAKEMAN 20-17-3NBH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#07 WAKEMAN 20-17-3NBH (293'FSL & 2113'FEL, SEC.20) Well: WAKEMAN 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
14313.00†	7458.00	6625.93	730.97	14186.23	7395.00	6615.20	-66.69	-85.48	800.22	418.19	1.92	PASS
14348.41	7458.00	6661.33	730.21	14221.64	7395.00	6650.60	-67.16	-85.48	799.94	420.39	1.90	PASS
14413.00†	7458.00	6725.91	729.23	14286.23	7395.00	6715.19	-68.03	-85.48	799.83	424.38	1.89	PASS
14513.00†	7458.00	6825.90	727.72	14386.23	7395.00	6815.18	-69.38	-85.48	799.65	430.58	1.86	PASS
14613.00†	7458.00	6925.89	726.20	14486.23	7395.00	6915.17	-70.72	-85.48	799.48	436.77	1.83	PASS
14713.00†	7458.00	7025.88	724.68	14586.23	7395.00	7015.16	-72.07	-85.48	799.31	442.97	1.81	PASS
14813.00†	7458.00	7125.87	723.16	14686.23	7395.00	7115.15	-73.41	-85.48	799.14	449.16	1.78	PASS
14913.00†	7458.00	7225.85	721.65	14786.23	7395.00	7215.14	-74.76	-85.48	798.97	455.36	1.76	PASS
15013.00†	7458.00	7325.84	720.13	14886.23	7395.00	7315.13	-76.10	-85.48	798.79	461.56	1.73	PASS
15113.00†	7458.00	7425.83	718.61	14986.23	7395.00	7415.12	-77.45	-85.48	798.62	467.76	1.71	PASS
15213.00†	7458.00	7525.82	717.09	15086.23	7395.00	7515.11	-78.79	-85.47	798.45	473.96	1.69	PASS
15313.00†	7458.00	7625.81	715.58	15186.23	7395.00	7615.10	-80.14	-85.47	798.28	480.17	1.66	PASS
15413.00†	7458.00	7725.80	714.06	15286.23	7395.00	7715.09	-81.49	-85.47	798.10	486.37	1.64	PASS
15513.00†	7458.00	7825.78	712.54	15386.23	7395.00	7815.08	-82.83	-85.47	797.93	492.58	1.62	PASS
15613.00†	7458.00	7925.77	711.02	15486.23	7395.00	7915.08	-84.18	-85.47	797.76	498.78	1.60	PASS
15713.00†	7458.00	8025.76	709.50	15586.23	7395.00	8015.07	-85.52	-85.47	797.59	504.99	1.58	PASS
15813.00†	7458.00	8125.75	707.99	15686.23	7395.00	8115.06	-86.87	-85.47	797.42	511.20	1.56	PASS
15913.00†	7458.00	8225.74	706.47	15786.23	7395.00	8215.05	-88.21	-85.47	797.24	517.41	1.54	PASS
16013.00†	7458.00	8325.73	704.95	15886.23	7395.00	8315.04	-89.56	-85.47	797.07	523.62	1.52	PASS
16113.00†	7458.00	8425.72	703.43	15986.23	7395.00	8415.03	-90.90	-85.47	796.90	529.83	1.50	PASS
16213.00†	7458.00	8525.70	701.92	16086.23	7395.00	8515.02	-92.25	-85.47	796.73	536.04	1.49	PASS
16313.00†	7458.00	8625.69	700.40	16186.23	7395.00	8615.01	-93.59	-85.46	796.56	542.25	1.47	PASS
16413.00†	7458.00	8725.68	698.88	16286.23	7395.00	8715.00	-94.94	-85.46	796.38	548.47	1.45	PASS
16513.00†	7458.00	8825.67	697.36	16386.23	7395.00	8814.99	-96.28	-85.46	796.21	554.68	1.44	PASS
16613.00†	7458.00	8925.66	695.84	16486.23	7395.00	8914.98	-97.63	-85.46	796.04	560.90	1.42	PASS
16713.00†	7458.00	9025.65	694.33	16586.23	7395.00	9014.97	-98.97	-85.46	795.87	567.11	1.40	PASS
16813.00†	7458.00	9125.63	692.81	16686.23	7395.00	9114.97	-100.32	-85.46	795.70	573.33	1.39	PASS
16913.00†	7458.00	9225.62	691.29	16786.23	7395.00	9214.96	-101.66	-85.46	795.52	579.55	1.37	PASS
17013.00†	7458.00	9325.61	689.77	16886.23	7395.00	9314.95	-103.01	-85.46	795.35	585.76	1.36	PASS
17113.00†	7458.00	9425.60	688.26	16986.23	7395.00	9414.94	-104.35	-85.46	795.18	591.98	1.34	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NBH PWB Offset Wellpath: WAKEMAN 20-17-3NBH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#07 WAKEMAN 20-17-3NBH (293'FSL & 2113'FEL, SEC.20) Well: WAKEMAN 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
17213.00†	7458.00	9525.59	686.74	17086.23	7395.00	9514.93	-105.70	-85.46	795.01	598.20	1.33	PASS
17313.00†	7458.00	9625.58	685.22	17186.23	7395.00	9614.92	-107.04	-85.45	794.84	604.42	1.32	PASS
17413.00†	7458.00	9725.57	683.70	17286.23	7395.00	9714.91	-108.39	-85.45	794.66	610.64	1.30	PASS
17513.00†	7458.00	9825.55	682.19	17386.23	7395.00	9814.90	-109.73	-85.45	794.49	616.86	1.29	PASS
17613.00†	7458.00	9925.54	680.67	17486.23	7395.00	9914.89	-111.08	-85.45	794.32	623.08	1.28	PASS
17656.24	7458.00	9968.78	680.01	17529.47	7395.00	9958.13	-111.66	-85.45	794.25	625.77	1.27	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: WAKEMAN 20-17-3NBH PWB Offset Wellpath: WAKEMAN 20-17-3NBH PWP (REV-A.0)

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: WAKEMAN 20-17-3NBH PWB Offset Wellpath: WAKEMAN 20-17-3NBH PWP (REV-A.0)

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]
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1799.24	-0.10	-27.42	-6.83	-26.32
8.5in Open Hole	1800.00	17542.23	15742.23	1799.24	7395.00	-6.83	-26.32	3039.08	-47.79

SURVEY PROGRAM - Offset Wellbore: WAKEMAN 20-17-3NBH PWB Offset Wellpath: WAKEMAN 20-17-3NBH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17542.23	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-3NBH PWB

Clearance Report
WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: WAKEMAN 20-17-3NBH PWB Offset Wellpath: WAKEMAN 20-17-3NBH PWP (REV-A.0)	
MD Reference: RIG (13'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	13.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWB (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4CDH PWB Offset Wellpath: WAKEMAN 20-17-4CDH PWB (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#01 WAKEMAN 20-17-4CDH (293'FSL & 2023'FEL, SEC.20)		Well: WAKEMAN 20-17-4CDH		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
13.00	13.00	0.00	0.00	13.00	13.00	0.05	44.95	89.94	44.95	1.40	73.58	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	0.05	44.95	89.94	44.95	1.73	47.51	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	0.05	44.95	89.94	44.95	2.31	29.33	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	0.05	44.95	89.94	44.95	2.91	20.91	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	0.05	44.95	89.94	44.95	3.53	16.19	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	0.05	44.95	89.94	44.95	4.15	13.19	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	0.05	44.95	89.94	44.95	4.77	11.12	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	0.05	44.95	89.94	44.95	5.40	9.61	PASS
813.00†	813.00	0.00	0.00	812.81	812.81	0.04	44.98	89.95	44.98	6.02	8.46	PASS
913.00†	913.00	0.00	0.00	911.26	911.24	-0.54	47.03	90.66	47.06	6.76	7.76	PASS
1013.00†	1013.00	0.00	0.00	1009.46	1009.27	-2.03	52.31	92.23	52.49	7.78	7.41	PASS
1100.00	1100.00	0.00	0.00	1094.50	1093.98	-4.06	59.50	93.91	59.94	8.60	7.58	PASS
1113.00†	1113.00	-0.01	0.03	1107.17	1106.58	-4.43	60.78	-24.48	61.25	8.72	7.63	PASS
1213.00†	1212.97	-1.07	1.96	1204.43	1203.08	-7.70	72.37	-23.15	71.42	9.69	7.94	PASS
1313.00†	1312.80	-3.79	6.95	1301.34	1298.79	-11.85	87.06	-22.67	81.72	10.79	8.10	PASS
1413.00†	1412.38	-8.19	14.99	1397.91	1393.58	-16.86	104.77	-22.74	92.14	11.84	8.28	PASS
1513.00†	1511.57	-14.24	26.08	1494.13	1487.36	-22.71	125.48	-23.20	102.65	12.81	8.49	PASS
1532.69	1531.05	-15.63	28.62	1513.04	1505.70	-23.96	129.90	-23.33	104.73	12.97	8.54	PASS
1613.00†	1610.44	-21.42	39.23	1592.86	1583.06	-29.31	148.84	-23.90	113.26	13.42	8.91	PASS
1713.00†	1709.30	-28.64	52.43	1692.29	1679.41	-35.98	172.43	-24.50	123.88	14.01	9.32	PASS
1813.00†	1808.17	-35.85	65.64	1791.71	1775.77	-42.64	196.03	-25.00	134.52	14.60	9.66	PASS
1913.00†	1907.03	-43.06	78.85	1891.14	1872.13	-49.31	219.62	-25.43	145.17	15.19	9.97	PASS
2013.00†	2005.89	-50.27	92.05	1990.57	1968.48	-55.97	243.21	-25.81	155.82	15.87	10.23	PASS
2113.00†	2104.75	-57.48	105.26	2089.99	2064.84	-62.64	266.80	-26.13	166.48	16.57	10.45	PASS
2213.00†	2203.61	-64.70	118.46	2189.42	2161.20	-69.31	290.40	-26.42	177.15	17.28	10.65	PASS
2313.00†	2302.47	-71.91	131.67	2288.85	2257.55	-75.97	313.99	-26.67	187.82	18.01	10.81	PASS
2413.00†	2401.33	-79.12	144.87	2388.27	2353.91	-82.64	337.58	-26.90	198.49	18.76	10.96	PASS
2513.00†	2500.20	-86.33	158.08	2487.70	2450.26	-89.31	361.17	-27.10	209.16	19.52	11.08	PASS
2613.00†	2599.06	-93.54	171.28	2587.12	2546.62	-95.97	384.76	-27.28	219.84	20.29	11.19	PASS
2713.00†	2697.92	-100.75	184.49	2686.55	2642.98	-102.64	408.36	-27.45	230.52	21.07	11.29	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4CDH PWB Offset Wellpath: WAKEMAN 20-17-4CDH PWB (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#01 WAKEMAN 20-17-4CDH (293'FSL & 2023'FEL, SEC.20) Well: WAKEMAN 20-17-4CDH 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
2813.00†	2796.78	-107.97	197.69	2785.98	2739.33	-109.31	431.95	-27.60	241.20	21.86	11.37	PASS
2913.00†	2895.64	-115.18	210.90	2885.40	2835.69	-115.97	455.54	-27.74	251.88	22.66	11.44	PASS
3013.00†	2994.50	-122.39	224.11	2984.83	2932.04	-122.64	479.13	-27.87	262.56	23.46	11.51	PASS
3113.00†	3093.37	-129.60	237.31	3084.25	3028.40	-129.30	502.73	-27.98	273.25	24.27	11.57	PASS
3213.00†	3192.23	-136.81	250.52	3183.68	3124.76	-135.97	526.32	-28.09	283.93	25.09	11.62	PASS
3313.00†	3291.09	-144.03	263.72	3283.11	3221.11	-142.64	549.91	-28.19	294.62	25.91	11.66	PASS
3413.00†	3389.95	-151.24	276.93	3382.53	3317.47	-149.30	573.50	-28.29	305.31	26.74	11.70	PASS
3513.00†	3488.81	-158.45	290.13	3481.96	3413.83	-155.97	597.09	-28.37	316.00	27.57	11.74	PASS
3613.00†	3587.67	-165.66	303.34	3581.38	3510.18	-162.64	620.69	-28.45	326.69	28.41	11.77	PASS
3713.00†	3686.53	-172.87	316.54	3680.81	3606.54	-169.30	644.28	-28.53	337.38	29.24	11.80	PASS
3813.00†	3785.40	-180.08	329.75	3780.24	3702.89	-175.97	667.87	-28.60	348.07	30.09	11.82	PASS
3913.00†	3884.26	-187.30	342.96	3879.66	3799.25	-182.64	691.46	-28.67	358.76	30.93	11.85	PASS
4013.00†	3983.12	-194.51	356.16	3979.09	3895.61	-189.30	715.06	-28.73	369.45	31.78	11.87	PASS
4113.00†	4081.98	-201.72	369.37	4078.51	3991.96	-195.97	738.65	-28.79	380.14	32.63	11.89	PASS
4213.00†	4180.84	-208.93	382.57	4177.94	4088.32	-202.64	762.24	-28.85	390.83	33.48	11.90	PASS
4313.00†	4279.70	-216.14	395.78	4277.37	4184.68	-209.30	785.83	-28.90	401.52	34.34	11.92	PASS
4413.00†	4378.57	-223.36	408.98	4376.79	4281.03	-215.97	809.42	-28.96	412.21	35.20	11.93	PASS
4513.00†	4477.43	-230.57	422.19	4476.22	4377.39	-222.63	833.02	-29.00	422.91	36.05	11.94	PASS
4613.00†	4576.29	-237.78	435.39	4575.64	4473.74	-229.30	856.61	-29.05	433.60	36.91	11.96	PASS
4713.00†	4675.15	-244.99	448.60	4675.07	4570.10	-235.97	880.20	-29.09	444.29	37.78	11.97	PASS
4813.00†	4774.01	-252.20	461.80	4774.50	4666.46	-242.63	903.79	-29.14	454.99	38.64	11.98	PASS
4913.00†	4872.87	-259.42	475.01	4873.92	4762.81	-249.30	927.39	-29.17	465.68	39.51	11.98	PASS
5013.00†	4971.73	-266.63	488.22	4973.35	4859.17	-255.97	950.98	-29.21	476.38	40.37	11.99	PASS
5113.00†	5070.60	-273.84	501.42	5072.77	4955.52	-262.63	974.57	-29.25	487.07	41.24	12.00	PASS
5213.00†	5169.46	-281.05	514.63	5172.20	5051.88	-269.30	998.16	-29.28	497.76	42.11	12.01	PASS
5313.00†	5268.32	-288.26	527.83	5271.63	5148.24	-275.97	1021.75	-29.32	508.46	42.98	12.01	PASS
5413.00†	5367.18	-295.47	541.04	5371.05	5244.59	-282.63	1045.35	-29.35	519.15	43.85	12.02	PASS
5513.00†	5466.04	-302.69	554.24	5470.48	5340.95	-289.30	1068.94	-29.38	529.85	44.72	12.02	PASS
5613.00†	5564.90	-309.90	567.45	5569.91	5437.31	-295.97	1092.53	-29.41	540.54	45.60	12.03	PASS
5713.00†	5663.77	-317.11	580.65	5669.33	5533.66	-302.63	1116.12	-29.44	551.24	46.47	12.03	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4CDH PWB Offset Wellpath: WAKEMAN 20-17-4CDH PWB (REV-A.0)												
Facility: SEC.20-T01S-R65W Slot: SLOT#01 WAKEMAN 20-17-4CDH (293'FSL & 2023'FEL, SEC.20) Well: WAKEMAN 20-17-4CDH 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
5813.00†	5762.63	-324.32	593.86	5768.76	5630.02	-309.30	1139.71	-29.46	561.93	47.35	12.03	PASS
5913.00†	5861.49	-331.53	607.07	5868.18	5726.37	-315.96	1163.31	-29.49	572.63	48.22	12.04	PASS
6013.00†	5960.35	-338.75	620.27	5967.61	5822.73	-322.63	1186.90	-29.52	583.32	49.10	12.04	PASS
6113.00†	6059.21	-345.96	633.48	6067.04	5919.09	-329.30	1210.49	-29.54	594.02	49.98	12.04	PASS
6213.00†	6158.07	-353.17	646.68	6166.46	6015.44	-335.96	1234.08	-29.56	604.72	50.85	12.05	PASS
6313.00†	6256.93	-360.38	659.89	6265.89	6111.80	-342.63	1257.68	-29.59	615.41	51.73	12.05	PASS
6413.00†	6355.80	-367.59	673.09	6365.31	6208.15	-349.30	1281.27	-29.61	626.11	52.61	12.05	PASS
6513.00†	6454.66	-374.80	686.30	6464.74	6304.51	-355.96	1304.86	-29.63	636.80	53.49	12.05	PASS
6613.00†	6553.52	-382.02	699.50	6564.17	6400.87	-362.63	1328.45	-29.65	647.50	54.37	12.05	PASS
6713.00†	6652.38	-389.23	712.71	6663.59	6497.22	-369.30	1352.04	-29.67	658.20	55.25	12.05	PASS
6813.00†	6751.24	-396.44	725.91	6763.02	6593.58	-375.96	1375.64	-29.69	668.89	56.13	12.06	PASS
6910.92	6848.04	-403.50	738.84	6860.37	6687.93	-382.49	1398.74	-29.71	679.37	56.99	12.06	PASS
6913.00†	6850.10	-403.65	739.12	6862.44	6689.94	-382.63	1399.23	-28.52	679.59	57.01	12.06	PASS
7013.00†	6949.10	-401.78	752.22	6961.36	6785.80	-389.26	1422.70	37.19	690.19	57.53	12.13	PASS
7113.00†	7046.29	-382.60	764.85	7057.27	6878.75	-395.69	1445.46	64.30	701.05	57.56	12.32	PASS
7213.00†	7138.74	-346.69	776.62	7147.25	6965.95	-401.72	1466.81	74.98	713.61	56.89	12.69	PASS
7313.00†	7223.63	-295.15	787.19	7230.92	7047.04	-407.26	1486.66	81.23	730.08	56.20	13.14	PASS
7413.00†	7298.39	-229.54	796.21	7342.98	7155.72	-402.00	1512.70	86.80	750.64	56.66	13.40	PASS
7513.00†	7360.73	-151.85	803.43	7479.99	7284.32	-366.31	1542.22	91.85	773.07	58.41	13.39	PASS
7613.00†	7408.78	-64.45	808.63	7655.32	7431.08	-277.06	1573.75	96.80	794.43	59.95	13.40	PASS
7713.00†	7441.06	30.02	811.63	7881.50	7570.77	-102.97	1599.82	101.04	809.79	59.50	13.76	PASS
7813.00†	7456.60	128.67	812.36	8147.78	7637.72	152.24	1604.72	102.75	813.13	57.24	14.37	PASS
7853.29	7458.00	168.93	812.01	8199.28	7638.00	203.69	1602.51	102.82	811.49	57.34	14.32	PASS
7913.00†	7458.00	228.63	811.20	8258.56	7638.00	262.92	1599.93	102.85	809.73	57.93	14.14	PASS
8013.00†	7458.00	328.62	809.86	8357.86	7638.00	362.12	1595.65	102.90	806.85	59.40	13.74	PASS
8113.00†	7458.00	428.61	808.51	8457.16	7638.00	461.33	1591.47	102.94	804.05	61.47	13.22	PASS
8213.00†	7458.00	528.60	807.16	8556.47	7638.00	560.56	1587.36	102.99	801.33	64.08	12.63	PASS
8313.00†	7458.00	628.60	805.81	8655.78	7638.00	659.79	1583.34	103.03	798.70	67.16	12.01	PASS
8413.00†	7458.00	728.59	804.47	8755.09	7638.00	759.02	1579.40	103.07	796.15	70.64	11.37	PASS
8513.00†	7458.00	828.58	803.12	8854.41	7638.00	858.27	1575.54	103.11	793.68	69.96	11.45	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWB (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4CDH PWB Offset Wellpath: WAKEMAN 20-17-4CDH PWB (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#01 WAKEMAN 20-17-4CDH (293'FSL & 2023'FEL, SEC.20) Well: WAKEMAN 20-17-4CDH 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
8613.00†	7458.00	928.57	801.77	8953.74	7638.00	957.52	1571.77	103.15	791.29	78.61	10.15	PASS
8713.00†	7458.00	1028.56	800.42	9053.07	7638.00	1056.78	1568.08	103.19	788.98	82.99	9.58	PASS
8813.00†	7458.00	1128.55	799.08	9152.40	7638.00	1156.05	1564.47	103.23	786.76	87.58	9.05	PASS
8913.00†	7458.00	1228.54	797.73	9251.73	7638.00	1255.32	1560.95	103.27	784.61	92.36	8.55	PASS
9013.00†	7458.00	1328.53	796.38	9351.07	7638.00	1354.60	1557.51	103.30	782.55	97.29	8.10	PASS
9113.00†	7458.00	1428.52	795.03	9450.42	7638.00	1453.88	1554.15	103.34	780.57	102.35	7.67	PASS
9213.00†	7458.00	1528.51	793.69	9549.76	7638.00	1553.18	1550.87	103.37	778.68	107.53	7.28	PASS
9313.00†	7458.00	1628.50	792.34	9649.11	7638.00	1652.47	1547.68	103.40	776.86	112.80	6.92	PASS
9413.00†	7458.00	1728.50	790.99	9748.46	7638.00	1751.78	1544.57	103.43	775.13	118.16	6.59	PASS
9513.00†	7458.00	1828.49	789.65	9847.82	7638.00	1851.09	1541.54	103.46	773.47	123.59	6.29	PASS
9613.00†	7458.00	1928.48	788.30	9947.17	7638.00	1950.40	1538.60	103.49	771.90	129.08	6.01	PASS
9713.00†	7458.00	2028.47	786.95	10046.54	7638.00	2049.72	1535.74	103.51	770.41	134.63	5.75	PASS
9813.00†	7458.00	2128.46	785.60	10145.90	7638.00	2149.04	1532.96	103.54	769.01	140.23	5.51	PASS
9913.00†	7458.00	2228.45	784.26	10245.26	7638.00	2248.37	1530.27	103.56	767.68	145.87	5.28	PASS
10013.00†	7458.00	2328.44	782.91	10344.63	7638.00	2347.70	1527.66	103.58	766.43	151.55	5.08	PASS
10113.00†	7458.00	2428.43	781.56	10444.00	7638.00	2447.04	1525.13	103.61	765.27	157.26	4.88	PASS
10213.00†	7458.00	2528.42	780.21	10543.37	7638.00	2546.38	1522.68	103.62	764.19	163.01	4.70	PASS
10313.00†	7458.00	2628.41	778.87	10642.74	7638.00	2645.73	1520.32	103.64	763.19	168.78	4.54	PASS
10413.00†	7458.00	2728.40	777.52	10742.12	7638.00	2745.08	1518.04	103.66	762.27	174.58	4.38	PASS
10513.00†	7458.00	2828.40	776.17	10841.50	7638.00	2844.43	1515.85	103.67	761.43	180.40	4.23	PASS
10613.00†	7458.00	2928.39	774.82	10940.87	7638.00	2943.78	1513.74	103.69	760.68	186.24	4.10	PASS
10713.00†	7458.00	3028.38	773.48	11040.25	7638.00	3043.14	1511.71	103.70	760.00	192.11	3.97	PASS
10813.00†	7458.00	3128.37	772.13	11139.63	7638.00	3142.50	1509.76	103.71	759.41	197.98	3.85	PASS
10913.00†	7458.00	3228.36	770.78	11239.01	7638.00	3241.87	1507.90	103.72	758.90	203.88	3.73	PASS
11013.00†	7458.00	3328.35	769.43	11338.39	7638.00	3341.23	1506.12	103.73	758.47	209.79	3.62	PASS
11113.00†	7458.00	3428.34	768.09	11437.78	7638.00	3440.60	1504.43	103.74	758.12	215.71	3.52	PASS
11213.00†	7458.00	3528.33	766.74	11537.16	7638.00	3539.97	1502.81	103.74	757.85	221.65	3.43	PASS
11313.00†	7458.00	3628.32	765.39	11636.54	7638.00	3639.34	1501.28	103.74	757.67	227.59	3.34	PASS
11413.00†	7458.00	3728.31	764.05	11735.93	7638.00	3738.71	1499.84	103.75	757.56	233.55	3.25	PASS
11513.00†	7458.00	3828.30	762.70	11835.31	7638.00	3838.09	1498.47	103.75	757.54	239.52	3.17	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWB (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4CDH PWB Offset Wellpath: WAKEMAN 20-17-4CDH PWB (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#01 WAKEMAN 20-17-4CDH (293'FSL & 2023'FEL, SEC.20) Well: WAKEMAN 20-17-4CDH 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
11613.00†	7458.00	3928.30	761.35	11934.69	7638.00	3937.46	1497.19	103.75	757.59	245.50	3.09	PASS
11713.00†	7458.00	4028.29	760.00	12034.08	7638.00	4036.84	1496.00	103.74	757.73	251.49	3.02	PASS
11813.00†	7458.00	4128.28	758.66	12133.46	7638.00	4136.22	1494.88	103.74	757.95	257.48	2.95	PASS
11913.00†	7458.00	4228.27	757.31	12232.84	7638.00	4235.59	1493.85	103.73	758.26	263.49	2.88	PASS
12013.00†	7458.00	4328.26	755.96	12332.23	7638.00	4334.97	1492.91	103.73	758.64	269.50	2.82	PASS
12113.00†	7458.00	4428.25	754.61	12431.61	7638.00	4434.35	1492.04	103.72	759.10	275.52	2.76	PASS
12213.00†	7458.00	4528.24	753.27	12530.99	7638.00	4533.73	1491.26	103.71	759.65	281.55	2.70	PASS
12313.00†	7458.00	4628.23	751.92	12630.37	7638.00	4633.10	1490.57	103.70	760.28	287.59	2.65	PASS
12413.00†	7458.00	4728.22	750.57	12729.75	7638.00	4732.48	1489.95	103.68	760.99	293.63	2.60	PASS
12513.00†	7458.00	4828.21	749.22	12829.12	7638.00	4831.86	1489.42	103.67	761.78	299.68	2.55	PASS
12613.00†	7458.00	4928.20	747.88	12928.50	7638.00	4931.23	1488.97	103.65	762.65	305.73	2.50	PASS
12713.00†	7458.00	5028.20	746.53	13027.98	7638.00	5030.71	1488.61	103.64	763.60	311.79	2.45	PASS
12813.00†	7458.00	5128.19	745.18	13127.98	7638.00	5130.71	1488.27	103.62	764.58	317.81	2.41	PASS
12913.00†	7458.00	5228.18	743.84	13227.97	7638.00	5230.70	1487.93	103.60	765.56	323.85	2.37	PASS
13013.00†	7458.00	5328.17	742.49	13327.97	7638.00	5330.70	1487.59	103.58	766.54	329.89	2.33	PASS
13113.00†	7458.00	5428.16	741.14	13427.96	7638.00	5430.69	1487.25	103.56	767.52	335.93	2.29	PASS
13153.29	7458.00	5468.45	740.60	13468.25	7638.00	5470.98	1487.11	103.56	767.91	338.36	2.27	PASS
13213.00†	7458.00	5528.15	740.42	13527.96	7638.00	5530.69	1486.91	103.56	767.90	341.96	2.25	PASS
13313.00†	7458.00	5628.12	742.90	13627.91	7638.00	5630.64	1486.57	103.62	765.15	347.90	2.20	PASS
13413.00†	7458.00	5727.94	748.87	13727.71	7638.00	5730.44	1486.23	103.76	759.02	353.75	2.15	PASS
13466.89	7458.00	5781.62	753.53	13781.38	7638.00	5784.11	1486.05	103.87	754.32	356.85	2.12	PASS
13513.00†	7458.00	5827.55	757.58	13827.30	7638.00	5830.03	1485.90	103.93	750.24	359.50	2.09	PASS
13613.00†	7458.00	5927.35	763.82	13927.08	7638.00	5929.80	1485.56	104.02	743.85	365.31	2.04	PASS
13713.00†	7458.00	6027.31	766.57	14027.02	7638.00	6029.75	1485.22	104.06	740.85	371.25	2.00	PASS
13813.00†	7458.00	6127.30	765.83	14127.02	7638.00	6129.74	1484.88	104.06	741.24	377.29	1.97	PASS
13913.00†	7458.00	6227.21	761.61	14226.94	7638.00	6229.66	1484.54	104.00	745.01	383.44	1.94	PASS
14013.00†	7458.00	6326.91	753.90	14326.66	7638.00	6329.38	1484.20	103.90	752.16	389.69	1.93	PASS
14066.89	7458.00	6380.50	748.30	14380.28	7638.00	6383.00	1484.02	103.83	757.42	393.10	1.93	PASS
14113.00†	7458.00	6426.36	743.45	14426.15	7638.00	6428.87	1483.86	103.72	761.98	396.01	1.93	PASS
14213.00†	7458.00	6526.03	735.47	14525.85	7638.00	6528.57	1483.52	103.55	769.41	402.27	1.91	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWB (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4CDH PWB Offset Wellpath: WAKEMAN 20-17-4CDH PWB (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#01 WAKEMAN 20-17-4CDH (293'FSL & 2023'FEL, SEC.20) Well: WAKEMAN 20-17-4CDH 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
14313.00†	7458.00	6625.93	730.97	14625.76	7638.00	6628.48	1483.19	103.46	773.46	408.44	1.90	PASS
14348.41	7458.00	6661.33	730.21	14661.16	7638.00	6663.88	1483.07	103.45	774.07	410.60	1.89	PASS
14413.00†	7458.00	6725.91	729.23	14725.75	7638.00	6728.47	1482.85	103.43	774.81	414.53	1.87	PASS
14513.00†	7458.00	6825.90	727.72	14825.74	7638.00	6828.46	1482.51	103.41	775.96	420.62	1.85	PASS
14613.00†	7458.00	6925.89	726.20	14925.73	7638.00	6928.45	1482.17	103.39	777.11	426.71	1.82	PASS
14713.00†	7458.00	7025.88	724.68	15025.73	7638.00	7028.45	1481.83	103.37	778.25	432.80	1.80	PASS
14813.00†	7458.00	7125.87	723.16	15125.72	7638.00	7128.44	1481.49	103.35	779.40	438.89	1.78	PASS
14913.00†	7458.00	7225.85	721.65	15225.71	7638.00	7228.43	1481.15	103.33	780.55	444.99	1.76	PASS
15013.00†	7458.00	7325.84	720.13	15325.70	7638.00	7328.42	1480.81	103.31	781.69	451.09	1.73	PASS
15113.00†	7458.00	7425.83	718.61	15425.70	7638.00	7428.42	1480.47	103.29	782.84	457.19	1.71	PASS
15213.00†	7458.00	7525.82	717.09	15525.69	7638.00	7528.41	1480.13	103.27	783.99	463.29	1.69	PASS
15313.00†	7458.00	7625.81	715.58	15625.68	7638.00	7628.40	1479.79	103.25	785.13	469.40	1.67	PASS
15413.00†	7458.00	7725.80	714.06	15725.68	7638.00	7728.39	1479.45	103.24	786.28	475.50	1.65	PASS
15513.00†	7458.00	7825.78	712.54	15825.67	7638.00	7828.39	1479.11	103.22	787.43	481.61	1.64	PASS
15613.00†	7458.00	7925.77	711.02	15925.66	7638.00	7928.38	1478.77	103.20	788.57	487.72	1.62	PASS
15713.00†	7458.00	8025.76	709.50	16025.66	7638.00	8028.37	1478.43	103.18	789.72	493.84	1.60	PASS
15813.00†	7458.00	8125.75	707.99	16125.65	7638.00	8128.36	1478.09	103.16	790.87	499.95	1.58	PASS
15913.00†	7458.00	8225.74	706.47	16225.64	7638.00	8228.36	1477.76	103.14	792.02	506.07	1.57	PASS
16013.00†	7458.00	8325.73	704.95	16325.64	7638.00	8328.35	1477.42	103.12	793.16	512.18	1.55	PASS
16113.00†	7458.00	8425.72	703.43	16425.63	7638.00	8428.34	1477.08	103.10	794.31	518.30	1.53	PASS
16213.00†	7458.00	8525.70	701.92	16525.62	7638.00	8528.33	1476.74	103.08	795.46	524.42	1.52	PASS
16313.00†	7458.00	8625.69	700.40	16625.61	7638.00	8628.33	1476.40	103.06	796.61	530.54	1.50	PASS
16413.00†	7458.00	8725.68	698.88	16725.61	7638.00	8728.32	1476.06	103.04	797.75	536.67	1.49	PASS
16513.00†	7458.00	8825.67	697.36	16825.60	7638.00	8828.31	1475.72	103.02	798.90	542.79	1.47	PASS
16613.00†	7458.00	8925.66	695.84	16925.59	7638.00	8928.30	1475.38	103.00	800.05	548.92	1.46	PASS
16713.00†	7458.00	9025.65	694.33	17025.59	7638.00	9028.30	1475.04	102.98	801.20	555.05	1.44	PASS
16813.00†	7458.00	9125.63	692.81	17125.58	7638.00	9128.29	1474.70	102.97	802.35	561.17	1.43	PASS
16913.00†	7458.00	9225.62	691.29	17225.57	7638.00	9228.28	1474.36	102.95	803.50	567.30	1.42	PASS
17013.00†	7458.00	9325.61	689.77	17325.57	7638.00	9328.27	1474.02	102.93	804.64	573.44	1.40	PASS
17113.00†	7458.00	9425.60	688.26	17425.56	7638.00	9428.27	1473.68	102.91	805.79	579.57	1.39	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-4CDH PWB Offset Wellpath: WAKEMAN 20-17-4CDH PWB (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#01 WAKEMAN 20-17-4CDH (293'FSL & 2023'FEL, SEC.20) Well: WAKEMAN 20-17-4CDH 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
17213.00†	7458.00	9525.59	686.74	17525.55	7638.00	9528.26	1473.34	102.89	806.94	585.70	1.38	PASS
17313.00†	7458.00	9625.58	685.22	17625.55	7638.00	9628.25	1473.00	102.87	808.09	591.84	1.37	PASS
17413.00†	7458.00	9725.57	683.70	17725.54	7638.00	9728.24	1472.66	102.85	809.24	597.98	1.35	PASS
17513.00†	7458.00	9825.55	682.19	17825.53	7638.00	9828.24	1472.32	102.83	810.39	604.11	1.34	PASS
17613.00†	7458.00	9925.54	680.67	17925.52	7638.00	9928.23	1471.99	102.82	811.54	610.25	1.33	PASS
17656.24	7458.00	9968.78	680.01	17963.99	7638.00	9966.69	1471.85	102.81	812.05	613.14	1.32	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: WAKEMAN 20-17-4CDH PWB Offset Wellpath: WAKEMAN 20-17-4CDH PWB (REV-A.0)

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: WAKEMAN 20-17-4CDH PWB Offset Wellpath: WAKEMAN 20-17-4CDH PWB (REV-A.0)

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]
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1783.80	0.03	27.40	-13.15	74.05
8.5in Open Hole	13.00	17963.99	17950.99	13.00	7638.00	0.03	27.40	3037.86	462.32

SURVEY PROGRAM - Offset Wellbore: WAKEMAN 20-17-4CDH PWB Offset Wellpath: WAKEMAN 20-17-4CDH PWB (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17963.99	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-4CDH PWB

Clearance Report
WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: WAKEMAN 20-17-4CDH PWB Offset Wellpath: WAKEMAN 20-17-4CDH PWB (REV-A.0)	
MD Reference: RIG (13'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	13.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: CHAVEZ #7-17 AWB Offset Wellpath: CHAVEZ #7-17 AWP

Facility: SEC.17-T01S-R65W Slot: SLOT#01 EX. CHAVEZ #7-17 (1971'FNL & 1926'FEL, SEC.17, OG, SI, 8190) Well: CHAVEZ #7-17 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
13.00	13.00	0.00	0.00	-13.00	40.00	8360.08	-0.08	-0.00	8360.12	25.40	339.79	PASS
113.00†	113.00	0.00	0.00	60.00	113.00	8360.08	-0.08	-0.00	8360.08	51.37	165.18	PASS
213.00†	213.00	0.00	0.00	160.00	213.00	8360.08	-0.08	-0.00	8360.08	53.71	157.88	PASS
313.00†	313.00	0.00	0.00	260.00	313.00	8360.08	-0.08	-0.00	8360.08	56.05	151.18	PASS
413.00†	413.00	0.00	0.00	360.00	413.00	8360.08	-0.08	-0.00	8360.08	58.40	145.02	PASS
513.00†	513.00	0.00	0.00	460.00	513.00	8360.08	-0.08	-0.00	8360.08	60.76	139.33	PASS
613.00†	613.00	0.00	0.00	560.00	613.00	8360.08	-0.08	-0.00	8360.08	63.12	134.06	PASS
713.00†	713.00	0.00	0.00	660.00	713.00	8360.08	-0.08	-0.00	8360.08	65.48	129.17	PASS
813.00†	813.00	0.00	0.00	760.00	813.00	8360.08	-0.08	-0.00	8360.08	67.84	124.61	PASS
913.00†	913.00	0.00	0.00	860.00	913.00	8360.08	-0.08	-0.00	8360.08	70.21	120.36	PASS
1013.00†	1013.00	0.00	0.00	960.00	1013.00	8360.08	-0.08	-0.00	8360.08	72.59	116.38	PASS
1100.00	1100.00	0.00	0.00	1047.00	1100.00	8360.08	-0.08	-0.00	8360.08	74.65	113.13	PASS
1113.00†	1113.00	-0.01	0.03	1060.00	1113.00	8360.08	-0.08	-118.64	8360.09	74.96	112.65	PASS
1213.00†	1212.97	-1.07	1.96	1159.97	1212.97	8360.08	-0.08	-118.64	8361.15	77.35	109.16	PASS
1313.00†	1312.80	-3.79	6.95	1259.80	1312.80	8360.08	-0.08	-118.62	8363.88	79.74	105.88	PASS
1413.00†	1412.38	-8.19	14.99	1359.38	1412.38	8360.08	-0.08	-118.60	8368.28	82.14	102.82	PASS
1513.00†	1511.57	-14.24	26.08	1458.57	1511.57	8360.08	-0.08	-118.57	8374.36	84.54	99.95	PASS
1532.69	1531.05	-15.63	28.62	1478.05	1531.05	8360.08	-0.08	-118.56	8375.76	84.84	99.41	PASS
1613.00†	1610.44	-21.42	39.23	1557.44	1610.44	8360.08	-0.08	-118.63	8381.60	86.75	97.27	PASS
1713.00†	1709.30	-28.64	52.43	1656.30	1709.30	8360.08	-0.08	-118.72	8388.88	89.15	94.71	PASS
1813.00†	1808.17	-35.85	65.64	1755.17	1808.17	8360.08	-0.08	-118.81	8396.18	91.51	92.29	PASS
1913.00†	1907.03	-43.06	78.85	1854.03	1907.03	8360.08	-0.08	-118.90	8403.51	93.93	89.98	PASS
2013.00†	2005.89	-50.27	92.05	1952.89	2005.89	8360.08	-0.08	-118.99	8410.86	96.36	87.77	PASS
2113.00†	2104.75	-57.48	105.26	2051.75	2104.75	8360.08	-0.08	-119.08	8418.22	98.80	85.67	PASS
2213.00†	2203.61	-64.70	118.46	2150.61	2203.61	8360.08	-0.08	-119.17	8425.61	101.24	83.66	PASS
2313.00†	2302.47	-71.91	131.67	2249.47	2302.47	8360.08	-0.08	-119.26	8433.02	103.70	81.74	PASS
2413.00†	2401.33	-79.12	144.87	2348.33	2401.33	8360.08	-0.08	-119.34	8440.44	106.17	79.90	PASS
2513.00†	2500.20	-86.33	158.08	2447.20	2500.20	8360.08	-0.08	-119.43	8447.89	108.64	78.14	PASS
2613.00†	2599.06	-93.54	171.28	2546.06	2599.06	8360.08	-0.08	-119.52	8455.36	111.13	76.46	PASS
2713.00†	2697.92	-100.75	184.49	2644.92	2697.92	8360.08	-0.08	-119.61	8462.85	113.62	74.84	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: CHAVEZ #7-17 AWB Offset Wellpath: CHAVEZ #7-17 AWP

Facility: SEC.17-T01S-R65W Slot: SLOT#01 EX. CHAVEZ #7-17 (1971'FNL & 1926'FEL, SEC.17, OG, SI, 8190) Well: CHAVEZ #7-17 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
2813.00†	2796.78	-107.97	197.69	2743.78	2796.78	8360.08	-0.08	-119.70	8470.35	116.12	73.28	PASS
2913.00†	2895.64	-115.18	210.90	2842.64	2895.64	8360.08	-0.08	-119.78	8477.88	118.63	71.79	PASS
3013.00†	2994.50	-122.39	224.11	2941.50	2994.50	8360.08	-0.08	-119.87	8485.43	121.15	70.35	PASS
3113.00†	3093.37	-129.60	237.31	3040.37	3093.37	8360.08	-0.08	-119.96	8493.00	123.67	68.97	PASS
3213.00†	3192.23	-136.81	250.52	3139.23	3192.23	8360.08	-0.08	-120.04	8500.59	126.21	67.64	PASS
3313.00†	3291.09	-144.03	263.72	3238.09	3291.09	8360.08	-0.08	-120.13	8508.20	128.75	66.36	PASS
3413.00†	3389.95	-151.24	276.93	3336.95	3389.95	8360.08	-0.08	-120.22	8515.82	131.29	65.12	PASS
3513.00†	3488.81	-158.45	290.13	3435.81	3488.81	8360.08	-0.08	-120.31	8523.47	133.85	63.93	PASS
3613.00†	3587.67	-165.66	303.34	3534.67	3587.67	8360.08	-0.08	-120.39	8531.14	136.41	62.79	PASS
3713.00†	3686.53	-172.87	316.54	3633.53	3686.53	8360.08	-0.08	-120.48	8538.82	138.98	61.68	PASS
3813.00†	3785.40	-180.08	329.75	3732.40	3785.40	8360.08	-0.08	-120.56	8546.53	141.55	60.60	PASS
3913.00†	3884.26	-187.30	342.96	3831.26	3884.26	8360.08	-0.08	-120.65	8554.26	144.13	59.57	PASS
4013.00†	3983.12	-194.51	356.16	3930.12	3983.12	8360.08	-0.08	-120.74	8562.00	146.72	58.57	PASS
4113.00†	4081.98	-201.72	369.37	4028.98	4081.98	8360.08	-0.08	-120.82	8569.77	149.31	57.60	PASS
4213.00†	4180.84	-208.93	382.57	4127.84	4180.84	8360.08	-0.08	-120.91	8577.55	151.91	56.66	PASS
4313.00†	4279.70	-216.14	395.78	4226.70	4279.70	8360.08	-0.08	-120.99	8585.35	154.52	55.76	PASS
4413.00†	4378.57	-223.36	408.98	4325.57	4378.57	8360.08	-0.08	-121.08	8593.18	157.12	54.88	PASS
4513.00†	4477.43	-230.57	422.19	4424.43	4477.43	8360.08	-0.08	-121.16	8601.02	159.74	54.02	PASS
4613.00†	4576.29	-237.78	435.39	4523.29	4576.29	8360.08	-0.08	-121.25	8608.88	162.36	53.20	PASS
4713.00†	4675.15	-244.99	448.60	4622.15	4675.15	8360.08	-0.08	-121.33	8616.76	164.98	52.40	PASS
4813.00†	4774.01	-252.20	461.80	4721.01	4774.01	8360.08	-0.08	-121.42	8624.66	167.61	51.62	PASS
4913.00†	4872.87	-259.42	475.01	4819.87	4872.87	8360.08	-0.08	-121.50	8632.58	170.24	50.87	PASS
5013.00†	4971.73	-266.63	488.22	4918.73	4971.73	8360.08	-0.08	-121.59	8640.51	172.88	50.13	PASS
5113.00†	5070.60	-273.84	501.42	5017.60	5070.60	8360.08	-0.08	-121.67	8648.47	175.52	49.42	PASS
5213.00†	5169.46	-281.05	514.63	5116.46	5169.46	8360.08	-0.08	-121.76	8656.45	178.16	48.73	PASS
5313.00†	5268.32	-288.26	527.83	5215.32	5268.32	8360.08	-0.08	-121.84	8664.44	180.81	48.06	PASS
5413.00†	5367.18	-295.47	541.04	5314.18	5367.18	8360.08	-0.08	-121.92	8672.45	183.47	47.41	PASS
5513.00†	5466.04	-302.69	554.24	5413.04	5466.04	8360.08	-0.08	-122.01	8680.48	186.12	46.77	PASS
5613.00†	5564.90	-309.90	567.45	5511.90	5564.90	8360.08	-0.08	-122.09	8688.53	188.78	46.15	PASS
5713.00†	5663.77	-317.11	580.65	5610.77	5663.77	8360.08	-0.08	-122.17	8696.60	191.44	45.55	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: CHAVEZ #7-17 AWB Offset Wellpath: CHAVEZ #7-17 AWP

Facility: SEC.17-T01S-R65W Slot: SLOT#01 EX. CHAVEZ #7-17 (1971'FNL & 1926'FEL, SEC.17, OG, SI, 8190) Well: CHAVEZ #7-17 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
5813.00†	5762.63	-324.32	593.86	5709.63	5762.63	8360.08	-0.08	-122.26	8704.69	194.11	44.97	PASS
5913.00†	5861.49	-331.53	607.07	5808.49	5861.49	8360.08	-0.08	-122.34	8712.79	196.78	44.40	PASS
6013.00†	5960.35	-338.75	620.27	5907.35	5960.35	8360.08	-0.08	-122.42	8720.92	199.45	43.84	PASS
6113.00†	6059.21	-345.96	633.48	6006.21	6059.21	8360.08	-0.08	-122.50	8729.06	202.13	43.30	PASS
6213.00†	6158.07	-353.17	646.68	6105.07	6158.07	8360.08	-0.08	-122.59	8737.22	204.80	42.77	PASS
6313.00†	6256.93	-360.38	659.89	6203.93	6256.93	8360.08	-0.08	-122.67	8745.40	207.48	42.26	PASS
6413.00†	6355.80	-367.59	673.09	6302.80	6355.80	8360.08	-0.08	-122.75	8753.59	210.17	41.76	PASS
6513.00†	6454.66	-374.80	686.30	6401.66	6454.66	8360.08	-0.08	-122.83	8761.81	212.85	41.27	PASS
6613.00†	6553.52	-382.02	699.50	6500.52	6553.52	8360.08	-0.08	-122.92	8770.04	215.54	40.79	PASS
6713.00†	6652.38	-389.23	712.71	6599.38	6652.38	8360.08	-0.08	-123.00	8778.29	218.23	40.32	PASS
6813.00†	6751.24	-396.44	725.91	6698.24	6751.24	8360.08	-0.08	-123.08	8786.56	220.92	39.87	PASS
6910.92	6848.04	-403.50	738.84	6795.04	6848.04	8360.08	-0.08	-123.16	8794.68	223.56	39.43	PASS
6913.00†	6850.10	-403.65	739.12	6797.10	6850.10	8360.08	-0.08	-121.95	8794.85	223.62	39.42	PASS
7013.00†	6949.10	-401.78	752.22	6896.10	6949.10	8360.08	-0.08	-56.00	8794.10	226.54	38.91	PASS
7113.00†	7046.29	-382.60	764.85	6993.29	7046.29	8360.08	-0.08	-30.07	8776.08	230.12	38.23	PASS
7213.00†	7138.74	-346.69	776.62	7085.74	7138.74	8360.08	-0.08	-21.59	8741.35	233.59	37.51	PASS
7313.00†	7223.63	-295.15	787.19	7170.63	7223.63	8360.08	-0.08	-18.10	8690.96	236.63	36.81	PASS
7413.00†	7298.39	-229.54	796.21	7245.39	7298.39	8360.08	-0.08	-16.82	8626.45	239.23	36.14	PASS
7513.00†	7360.73	-151.85	803.43	7307.73	7360.73	8360.08	-0.08	-17.11	8549.77	241.35	35.50	PASS
7613.00†	7408.78	-64.45	808.63	7355.78	7408.78	8360.08	-0.08	-19.34	8463.25	242.96	34.91	PASS
7713.00†	7441.06	30.02	811.63	7388.06	7441.06	8360.08	-0.08	-25.96	8369.52	244.06	34.37	PASS
7813.00†	7456.60	128.67	812.36	7403.60	7456.60	8360.08	-0.08	-53.59	8271.41	244.65	33.88	PASS
7853.29	7458.00	168.93	812.01	7405.00	7458.00	8360.08	-0.08	-90.00	8231.31	244.75	33.70	PASS
7913.00†	7458.00	228.63	811.20	7405.00	7458.00	8360.08	-0.08	-90.00	8171.82	244.85	33.45	PASS
8013.00†	7458.00	328.62	809.86	7405.00	7458.00	8360.08	-0.08	-90.00	8072.19	245.00	33.02	PASS
8113.00†	7458.00	428.61	808.51	7405.00	7458.00	8360.08	-0.08	-90.00	7972.58	245.17	32.59	PASS
8213.00†	7458.00	528.60	807.16	7405.00	7458.00	8360.08	-0.08	-90.00	7872.97	245.34	32.16	PASS
8313.00†	7458.00	628.60	805.81	7405.00	7458.00	8360.08	-0.08	-90.00	7773.37	245.52	31.73	PASS
8413.00†	7458.00	728.59	804.47	7405.00	7458.00	8360.08	-0.08	-90.00	7673.79	245.70	31.30	PASS
8513.00†	7458.00	828.58	803.12	7405.00	7458.00	8360.08	-0.08	-90.00	7574.21	245.90	30.87	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: CHAVEZ #7-17 AWB Offset Wellpath: CHAVEZ #7-17 AWP

Facility: SEC.17-T01S-R65W Slot: SLOT#01 EX. CHAVEZ #7-17 (1971'FNL & 1926'FEL, SEC.17, OG, SI, 8190) Well: CHAVEZ #7-17 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
8613.00†	7458.00	928.57	801.77	7405.00	7458.00	8360.08	-0.08	-90.00	7474.65	246.10	30.44	PASS
8713.00†	7458.00	1028.56	800.42	7405.00	7458.00	8360.08	-0.08	-90.00	7375.09	246.30	30.01	PASS
8813.00†	7458.00	1128.55	799.08	7405.00	7458.00	8360.08	-0.08	-90.00	7275.55	246.52	29.58	PASS
8913.00†	7458.00	1228.54	797.73	7405.00	7458.00	8360.08	-0.08	-90.00	7176.03	246.74	29.15	PASS
9013.00†	7458.00	1328.53	796.38	7405.00	7458.00	8360.08	-0.08	-90.00	7076.51	246.97	28.71	PASS
9113.00†	7458.00	1428.52	795.03	7405.00	7458.00	8360.08	-0.08	-90.00	6977.01	247.21	28.28	PASS
9213.00†	7458.00	1528.51	793.69	7405.00	7458.00	8360.08	-0.08	-90.00	6877.53	247.46	27.85	PASS
9313.00†	7458.00	1628.50	792.34	7405.00	7458.00	8360.08	-0.08	-90.00	6778.05	247.72	27.42	PASS
9413.00†	7458.00	1728.50	790.99	7405.00	7458.00	8360.08	-0.08	-90.00	6678.60	247.99	26.99	PASS
9513.00†	7458.00	1828.49	789.65	7405.00	7458.00	8360.08	-0.08	-90.00	6579.16	248.27	26.56	PASS
9613.00†	7458.00	1928.48	788.30	7405.00	7458.00	8360.08	-0.08	-90.00	6479.74	248.56	26.12	PASS
9713.00†	7458.00	2028.47	786.95	7405.00	7458.00	8360.08	-0.08	-90.00	6380.34	248.86	25.69	PASS
9813.00†	7458.00	2128.46	785.60	7405.00	7458.00	8360.08	-0.08	-90.00	6280.95	249.18	25.26	PASS
9913.00†	7458.00	2228.45	784.26	7405.00	7458.00	8360.08	-0.08	-90.00	6181.59	249.50	24.83	PASS
10013.00†	7458.00	2328.44	782.91	7405.00	7458.00	8360.08	-0.08	-90.00	6082.25	249.84	24.39	PASS
10113.00†	7458.00	2428.43	781.56	7405.00	7458.00	8360.08	-0.08	-90.00	5982.93	250.20	23.96	PASS
10213.00†	7458.00	2528.42	780.21	7405.00	7458.00	8360.08	-0.08	-90.00	5883.63	250.57	23.53	PASS
10313.00†	7458.00	2628.41	778.87	7405.00	7458.00	8360.08	-0.08	-90.00	5784.35	250.95	23.10	PASS
10413.00†	7458.00	2728.40	777.52	7405.00	7458.00	8360.08	-0.08	-90.00	5685.11	251.35	22.67	PASS
10513.00†	7458.00	2828.40	776.17	7405.00	7458.00	8360.08	-0.08	-90.00	5585.88	251.76	22.23	PASS
10613.00†	7458.00	2928.39	774.82	7405.00	7458.00	8360.08	-0.08	-90.00	5486.69	252.20	21.80	PASS
10713.00†	7458.00	3028.38	773.48	7405.00	7458.00	8360.08	-0.08	-90.00	5387.53	252.65	21.37	PASS
10813.00†	7458.00	3128.37	772.13	7405.00	7458.00	8360.08	-0.08	-90.00	5288.39	253.12	20.94	PASS
10913.00†	7458.00	3228.36	770.78	7405.00	7458.00	8360.08	-0.08	-90.00	5189.29	253.62	20.50	PASS
11013.00†	7458.00	3328.35	769.43	7405.00	7458.00	8360.08	-0.08	-90.00	5090.23	254.13	20.07	PASS
11113.00†	7458.00	3428.34	768.09	7405.00	7458.00	8360.08	-0.08	-90.00	4991.20	254.67	19.64	PASS
11213.00†	7458.00	3528.33	766.74	7405.00	7458.00	8360.08	-0.08	-90.00	4892.22	255.24	19.21	PASS
11313.00†	7458.00	3628.32	765.39	7405.00	7458.00	8360.08	-0.08	-90.00	4793.27	255.83	18.77	PASS
11413.00†	7458.00	3728.31	764.05	7405.00	7458.00	8360.08	-0.08	-90.00	4694.37	256.45	18.34	PASS
11513.00†	7458.00	3828.30	762.70	7405.00	7458.00	8360.08	-0.08	-90.00	4595.52	257.10	17.91	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: CHAVEZ #7-17 AWB Offset Wellpath: CHAVEZ #7-17 AWP

Facility: SEC.17-T01S-R65W Slot: SLOT#01 EX. CHAVEZ #7-17 (1971'FNL & 1926'FEL, SEC.17, OG, SI, 8190) Well: CHAVEZ #7-17 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
11613.00†	7458.00	3928.30	761.35	7405.00	7458.00	8360.08	-0.08	-90.00	4496.72	257.79	17.48	PASS
11713.00†	7458.00	4028.29	760.00	7405.00	7458.00	8360.08	-0.08	-90.00	4397.97	258.51	17.05	PASS
11813.00†	7458.00	4128.28	758.66	7405.00	7458.00	8360.08	-0.08	-90.00	4299.28	259.26	16.62	PASS
11913.00†	7458.00	4228.27	757.31	7405.00	7458.00	8360.08	-0.08	-90.00	4200.65	260.06	16.18	PASS
12013.00†	7458.00	4328.26	755.96	7405.00	7458.00	8360.08	-0.08	-90.00	4102.09	260.90	15.75	PASS
12113.00†	7458.00	4428.25	754.61	7405.00	7458.00	8360.08	-0.08	-90.00	4003.60	261.78	15.32	PASS
12213.00†	7458.00	4528.24	753.27	7405.00	7458.00	8360.08	-0.08	-90.00	3905.19	262.72	14.89	PASS
12313.00†	7458.00	4628.23	751.92	7405.00	7458.00	8360.08	-0.08	-90.00	3806.86	263.70	14.46	PASS
12413.00†	7458.00	4728.22	750.57	7405.00	7458.00	8360.08	-0.08	-90.00	3708.62	264.75	14.03	PASS
12513.00†	7458.00	4828.21	749.22	7405.00	7458.00	8360.08	-0.08	-90.00	3610.48	265.86	13.61	PASS
12613.00†	7458.00	4928.20	747.88	7405.00	7458.00	8360.08	-0.08	-90.00	3512.44	267.03	13.18	PASS
12713.00†	7458.00	5028.20	746.53	7405.00	7458.00	8360.08	-0.08	-90.00	3414.51	268.29	12.75	PASS
12813.00†	7458.00	5128.19	745.18	7405.00	7458.00	8360.08	-0.08	-90.00	3316.71	269.62	12.32	PASS
12913.00†	7458.00	5228.18	743.84	7405.00	7458.00	8360.08	-0.08	-90.00	3219.04	271.04	11.90	PASS
13013.00†	7458.00	5328.17	742.49	7405.00	7458.00	8360.08	-0.08	-90.00	3121.52	272.55	11.47	PASS
13113.00†	7458.00	5428.16	741.14	7405.00	7458.00	8360.08	-0.08	-90.00	3024.16	274.17	11.05	PASS
13153.29	7458.00	5468.45	740.60	7405.00	7458.00	8360.08	-0.08	-90.00	2984.99	274.85	10.88	PASS
13213.00†	7458.00	5528.15	740.42	7405.00	7458.00	8360.08	-0.08	-90.00	2927.14	275.95	10.63	PASS
13313.00†	7458.00	5628.12	742.90	7405.00	7458.00	8360.08	-0.08	-90.00	2831.19	278.09	10.20	PASS
13413.00†	7458.00	5727.94	748.87	7405.00	7458.00	8360.08	-0.08	-90.00	2736.62	280.66	9.77	PASS
13466.89	7458.00	5781.62	753.53	7405.00	7458.00	8360.08	-0.08	-90.00	2686.33	282.23	9.53	PASS
13513.00†	7458.00	5827.55	757.58	7405.00	7458.00	8360.08	-0.08	-90.00	2643.43	283.63	9.34	PASS
13613.00†	7458.00	5927.35	763.82	7405.00	7458.00	8360.08	-0.08	-90.00	2549.84	286.64	8.91	PASS
13713.00†	7458.00	6027.31	766.57	7405.00	7458.00	8360.08	-0.08	-90.00	2455.52	289.61	8.49	PASS
13813.00†	7458.00	6127.30	765.83	7405.00	7458.00	8360.08	-0.08	-90.00	2360.49	292.51	8.08	PASS
13913.00†	7458.00	6227.21	761.61	7405.00	7458.00	8360.08	-0.08	-90.00	2264.80	295.33	7.68	PASS
14013.00†	7458.00	6326.91	753.90	7405.00	7458.00	8360.08	-0.08	-90.00	2168.47	298.06	7.29	PASS
14066.89	7458.00	6380.50	748.30	7405.00	7458.00	8360.08	-0.08	-90.00	2116.32	299.49	7.08	PASS
14113.00†	7458.00	6426.36	743.45	7405.00	7458.00	8360.08	-0.08	-90.00	2071.74	300.76	6.90	PASS
14213.00†	7458.00	6526.03	735.47	7405.00	7458.00	8360.08	-0.08	-90.00	1976.05	303.99	6.51	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: CHAVEZ #7-17 AWB Offset Wellpath: CHAVEZ #7-17 AWP

Facility: SEC.17-T01S-R65W Slot: SLOT#01 EX. CHAVEZ #7-17 (1971'FNL & 1926'FEL, SEC.17, OG, SI, 8190) Well: CHAVEZ #7-17 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
14313.00†	7458.00	6625.93	730.97	7405.00	7458.00	8360.08	-0.08	-90.00	1881.95	307.92	6.12	PASS
14348.41	7458.00	6661.33	730.21	7405.00	7458.00	8360.08	-0.08	-90.00	1849.08	309.50	5.98	PASS
14413.00†	7458.00	6725.91	729.23	7405.00	7458.00	8360.08	-0.08	-90.00	1789.53	312.57	5.73	PASS
14513.00†	7458.00	6825.90	727.72	7405.00	7458.00	8360.08	-0.08	-90.00	1698.06	317.73	5.35	PASS
14613.00†	7458.00	6925.89	726.20	7405.00	7458.00	8360.08	-0.08	-90.00	1607.60	323.44	4.98	PASS
14713.00†	7458.00	7025.88	724.68	7405.00	7458.00	8360.08	-0.08	-90.00	1518.35	329.77	4.61	PASS
14813.00†	7458.00	7125.87	723.16	7405.00	7458.00	8360.08	-0.08	-90.00	1430.51	336.79	4.25	PASS
14913.00†	7458.00	7225.85	721.65	7405.00	7458.00	8360.08	-0.08	-90.00	1344.38	344.61	3.91	PASS
15013.00†	7458.00	7325.84	720.13	7405.00	7458.00	8360.08	-0.08	-90.00	1260.30	353.30	3.57	PASS
15113.00†	7458.00	7425.83	718.61	7405.00	7458.00	8360.08	-0.08	-90.00	1178.70	362.94	3.25	PASS
15213.00†	7458.00	7525.82	717.09	7405.00	7458.00	8360.08	-0.08	-90.00	1100.15	373.61	2.95	PASS
15313.00†	7458.00	7625.81	715.58	7405.00	7458.00	8360.08	-0.08	-90.00	1025.34	385.31	2.66	PASS
15413.00†	7458.00	7725.80	714.06	7405.00	7458.00	8360.08	-0.08	-90.00	955.15	397.98	2.40	PASS
15513.00†	7458.00	7825.78	712.54	7405.00	7458.00	8360.08	-0.08	-90.00	890.67	411.37	2.17	PASS
15613.00†	7458.00	7925.77	711.02	7405.00	7458.00	8360.08	-0.08	-90.00	833.24	425.02	1.96	PASS
15713.00†	7458.00	8025.76	709.50	7405.00	7458.00	8360.08	-0.08	-90.00	784.40	438.16	1.79	PASS
15813.00†	7458.00	8125.75	707.99	7405.00	7458.00	8360.08	-0.08	-90.00	745.83	449.66	1.66	PASS
15913.00†	7458.00	8225.74	706.47	7405.00	7458.00	8360.08	-0.08	-90.00	719.21	458.16	1.57	PASS
16013.00†	7458.00	8325.73	704.95	7405.00	7458.00	8360.08	-0.08	-90.00	705.87	462.38	1.53	PASS
16054.23†	7458.00	8366.95	704.33	7405.00	7458.00	8360.08	-0.08	-90.00	704.44	462.68	1.52	PASS
16063.00†	7458.00	8375.72	704.19	7406.19	7459.19	8360.08	-0.08	-90.10	704.45	462.66	1.52	PASS
16113.00†	7458.00	8425.72	703.43	7405.00	7458.00	8360.08	-0.08	-90.00	706.57	461.58	1.53	PASS
16213.00†	7458.00	8525.70	701.92	7405.00	7458.00	8360.08	-0.08	-90.00	721.27	455.82	1.58	PASS
16313.00†	7458.00	8625.69	700.40	7405.00	7458.00	8360.08	-0.08	-90.00	749.15	445.99	1.68	PASS
16413.00†	7458.00	8725.68	698.88	7405.00	7458.00	8360.08	-0.08	-90.00	788.80	433.44	1.82	PASS
16513.00†	7458.00	8825.67	697.36	7405.00	7458.00	8360.08	-0.08	-90.00	838.57	419.53	2.00	PASS
16613.00†	7458.00	8925.66	695.84	7405.00	7458.00	8360.08	-0.08	-90.00	896.77	405.33	2.21	PASS
16713.00†	7458.00	9025.65	694.33	7405.00	7458.00	8360.08	-0.08	-90.00	961.86	391.58	2.46	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

POSITIONAL UNCERTAINTY - Offset Wellbore: CHAVEZ #7-17 AWB Offset Wellpath: CHAVEZ #7-17 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: CHAVEZ #7-17 AWB Offset Wellpath: CHAVEZ #7-17 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	1472.00	1472.00	40.00	1512.00	5096.19	-23.46	5096.19	-23.46
8.625in Casing Surface	0.00	1472.00	1472.00	40.00	1512.00	5096.19	-23.46	5096.19	-23.46
7.875in Open Hole	1472.00	8173.00	6701.00	1512.00	8213.00	5096.19	-23.46	5096.19	-23.46
4.5in Casing Production	0.00	8173.00	8173.00	40.00	8213.00	5096.19	-23.46	5096.19	-23.46

WELLPATH COMPOSITION - Offset Wellbore: CHAVEZ #7-17 AWB Offset Wellpath: CHAVEZ #7-17 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8190.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL COGCC <8190>	CHAVEZ #7-17 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: CHAVEZ #7-17 AWB Offset Wellpath: CHAVEZ #7-17 AWP	
MD Reference: Rig on SLOT#04 EX. CHAVEZ #7-17 (1971'FNL & 1926'FEL,SEC.17,OG,SI) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NCH PWB Offset Wellpath: WAKEMAN 20-17-3NCH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#08 WAKEMAN 20-17-3NCH (293'FSL & 2128'FEL, SEC.20) Well: WAKEMAN 20-17-3NCH 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
13.00	13.00	0.00	0.00	13.00	13.00	-0.15	-60.03	-90.14	60.03	1.40	98.72	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.15	-60.03	-90.14	60.03	1.73	64.08	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.15	-60.03	-90.14	60.03	2.30	39.60	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.15	-60.03	-90.14	60.03	2.90	28.20	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.15	-60.03	-90.14	60.03	3.52	21.81	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.15	-60.03	-90.14	60.03	4.14	17.76	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.15	-60.03	-90.14	60.03	4.76	14.96	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.15	-60.03	-90.14	60.03	5.38	12.93	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.15	-60.03	-90.14	60.03	6.01	11.37	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	-0.15	-60.03	-90.14	60.03	6.64	10.15	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	-0.15	-60.03	-90.14	60.03	7.26	9.17	PASS
1100.00	1100.00	0.00	0.00	1100.00	1100.00	-0.15	-60.03	-90.14	60.03	7.81	8.46	PASS
1113.00†	1113.00	-0.01	0.03	1113.00	1113.00	-0.15	-60.03	151.23	60.06	7.89	8.36	PASS
1213.00†	1212.97	-1.07	1.96	1212.97	1212.97	-0.15	-60.03	152.19	62.00	8.59	7.86	PASS
1313.00†	1312.80	-3.79	6.95	1312.80	1312.80	-0.15	-60.03	154.41	67.08	9.50	7.62	PASS
1413.00†	1412.38	-8.19	14.99	1412.38	1412.38	-0.15	-60.03	157.35	75.45	10.39	7.78	PASS
1513.00†	1511.57	-14.24	26.08	1511.42	1511.42	-0.17	-60.05	160.45	87.27	11.26	8.27	PASS
1532.69	1531.05	-15.63	28.62	1530.65	1530.65	-0.29	-60.13	160.96	90.07	11.41	8.41	PASS
1613.00†	1610.44	-21.42	39.23	1608.93	1608.91	-1.86	-61.20	162.15	102.33	11.91	9.14	PASS
1713.00†	1709.30	-28.64	52.43	1706.08	1705.90	-6.27	-64.20	161.94	118.81	12.55	10.05	PASS
1813.00†	1808.17	-35.85	65.64	1803.36	1802.82	-13.23	-68.94	160.58	136.58	13.09	10.98	PASS
1913.00†	1907.03	-43.06	78.85	1901.65	1900.68	-20.81	-74.11	159.29	154.69	13.73	11.83	PASS
2013.00†	2005.89	-50.27	92.05	1999.94	1998.54	-28.40	-79.27	158.28	172.87	14.39	12.59	PASS
2113.00†	2104.75	-57.48	105.26	2098.24	2096.40	-35.98	-84.44	157.45	191.09	15.06	13.26	PASS
2213.00†	2203.61	-64.70	118.46	2196.53	2194.27	-43.56	-89.60	156.77	209.34	15.75	13.87	PASS
2313.00†	2302.47	-71.91	131.67	2294.82	2292.13	-51.14	-94.77	156.20	227.62	16.45	14.42	PASS
2413.00†	2401.33	-79.12	144.87	2393.11	2389.99	-58.73	-99.93	155.71	245.91	17.16	14.91	PASS
2513.00†	2500.20	-86.33	158.08	2491.41	2487.86	-66.31	-105.10	155.29	264.22	17.88	15.34	PASS
2613.00†	2599.06	-93.54	171.28	2589.70	2585.72	-73.89	-110.26	154.93	282.55	18.60	15.75	PASS
2713.00†	2697.92	-100.75	184.49	2687.99	2683.58	-81.47	-115.43	154.61	300.88	19.33	16.12	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NCH PWB Offset Wellpath: WAKEMAN 20-17-3NCH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W Slot: SLOT#08 WAKEMAN 20-17-3NCH (293'FSL & 2128'FEL, SEC.20) Well: WAKEMAN 20-17-3NCH 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
2813.00†	2796.78	-107.97	197.69	2786.28	2781.45	-89.06	-120.59	154.32	319.22	20.07	16.45	PASS
2913.00†	2895.64	-115.18	210.90	2884.58	2879.31	-96.64	-125.76	154.07	337.56	20.81	16.76	PASS
3013.00†	2994.50	-122.39	224.11	2982.87	2977.17	-104.22	-130.92	153.85	355.91	21.56	17.04	PASS
3113.00†	3093.37	-129.60	237.31	3081.16	3075.04	-111.80	-136.09	153.64	374.27	22.31	17.29	PASS
3213.00†	3192.23	-136.81	250.52	3179.45	3172.90	-119.39	-141.25	153.46	392.63	23.07	17.53	PASS
3313.00†	3291.09	-144.03	263.72	3277.75	3270.76	-126.97	-146.42	153.29	411.00	23.83	17.75	PASS
3413.00†	3389.95	-151.24	276.93	3376.04	3368.63	-134.55	-151.58	153.13	429.36	24.59	17.95	PASS
3513.00†	3488.81	-158.45	290.13	3474.33	3466.49	-142.13	-156.75	152.99	447.73	25.35	18.14	PASS
3613.00†	3587.67	-165.66	303.34	3572.62	3564.35	-149.72	-161.91	152.86	466.11	26.12	18.31	PASS
3713.00†	3686.53	-172.87	316.54	3670.92	3662.22	-157.30	-167.08	152.74	484.48	26.89	18.48	PASS
3813.00†	3785.40	-180.08	329.75	3769.21	3760.08	-164.88	-172.24	152.63	502.86	27.66	18.63	PASS
3913.00†	3884.26	-187.30	342.96	3867.50	3857.94	-172.46	-177.41	152.52	521.24	28.44	18.77	PASS
4013.00†	3983.12	-194.51	356.16	3965.79	3955.81	-180.05	-182.57	152.43	539.62	29.21	18.91	PASS
4113.00†	4081.98	-201.72	369.37	4064.09	4053.67	-187.63	-187.74	152.34	558.00	29.99	19.03	PASS
4213.00†	4180.84	-208.93	382.57	4162.38	4151.53	-195.21	-192.90	152.25	576.38	30.77	19.15	PASS
4313.00†	4279.70	-216.14	395.78	4260.67	4249.40	-202.79	-198.07	152.17	594.77	31.55	19.26	PASS
4413.00†	4378.57	-223.36	408.98	4358.96	4347.26	-210.38	-203.23	152.10	613.15	32.33	19.37	PASS
4513.00†	4477.43	-230.57	422.19	4457.25	4445.12	-217.96	-208.39	152.03	631.54	33.11	19.47	PASS
4613.00†	4576.29	-237.78	435.39	4555.55	4542.99	-225.54	-213.56	151.96	649.92	33.90	19.56	PASS
4713.00†	4675.15	-244.99	448.60	4653.84	4640.85	-233.13	-218.72	151.90	668.31	34.68	19.65	PASS
4813.00†	4774.01	-252.20	461.80	4752.13	4738.71	-240.71	-223.89	151.84	686.70	35.47	19.73	PASS
4913.00†	4872.87	-259.42	475.01	4850.42	4836.58	-248.29	-229.05	151.78	705.09	36.26	19.81	PASS
5013.00†	4971.73	-266.63	488.22	4948.72	4934.44	-255.87	-234.22	151.73	723.48	37.04	19.89	PASS
5113.00†	5070.60	-273.84	501.42	5047.01	5032.30	-263.46	-239.38	151.68	741.87	37.83	19.96	PASS
5213.00†	5169.46	-281.05	514.63	5145.30	5130.17	-271.04	-244.55	151.63	760.26	38.62	20.03	PASS
5313.00†	5268.32	-288.26	527.83	5243.59	5228.03	-278.62	-249.71	151.58	778.65	39.41	20.10	PASS
5413.00†	5367.18	-295.47	541.04	5341.89	5325.89	-286.20	-254.88	151.54	797.04	40.20	20.16	PASS
5513.00†	5466.04	-302.69	554.24	5440.18	5423.76	-293.79	-260.04	151.50	815.43	41.00	20.22	PASS
5613.00†	5564.90	-309.90	567.45	5538.47	5521.62	-301.37	-265.21	151.46	833.83	41.79	20.28	PASS
5713.00†	5663.77	-317.11	580.65	5636.76	5619.48	-308.95	-270.37	151.42	852.22	42.58	20.34	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-3NCH PWB Offset Wellpath: WAKEMAN 20-17-3NCH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#08 WAKEMAN 20-17-3NCH (293'FSL & 2128'FEL, SEC.20)		Well: WAKEMAN 20-17-3NCH		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
5813.00†	5762.63	-324.32	593.86	5735.06	5717.35	-316.53	-275.54	151.38	870.61	43.37	20.39	PASS
5913.00†	5861.49	-331.53	607.07	5833.35	5815.21	-324.12	-280.70	151.35	889.00	44.17	20.44	PASS
6013.00†	5960.35	-338.75	620.27	5931.64	5913.07	-331.70	-285.87	151.31	907.40	44.96	20.49	PASS
6113.00†	6059.21	-345.96	633.48	6029.93	6010.94	-339.28	-291.03	151.28	925.79	45.76	20.53	PASS
6213.00†	6158.07	-353.17	646.68	6128.23	6108.80	-346.86	-296.20	151.25	944.19	46.55	20.58	PASS
6313.00†	6256.93	-360.38	659.89	6226.52	6206.66	-354.45	-301.36	151.22	962.58	47.35	20.62	PASS
6413.00†	6355.80	-367.59	673.09	6324.81	6304.53	-362.03	-306.53	151.19	980.98	48.15	20.66	PASS
6513.00†	6454.66	-374.80	686.30	6423.10	6402.39	-369.61	-311.69	151.16	999.37	48.94	20.70	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: WAKEMAN 20-17-3NCH PWB Offset Wellpath: WAKEMAN 20-17-3NCH PWP (REV-A.0)			
Slot Surface Uncertainty @1SD		Horizontal	0.100ft
Facility Surface Uncertainty @1SD		Horizontal	8.200ft
		Vertical	1.000ft
		Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: WAKEMAN 20-17-3NCH PWB Offset Wellpath: WAKEMAN 20-17-3NCH PWP (REV-A.0)									
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]
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1799.47	-0.09	-36.60	-4.00	-39.26
8.5in Open Hole	1800.00	17619.74	15819.74	1799.47	N/A	-4.00	-39.26	N/A	N/A

SURVEY PROGRAM - Offset Wellbore: WAKEMAN 20-17-3NCH PWB Offset Wellpath: WAKEMAN 20-17-3NCH PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17619.74	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-3NCH PWB

Clearance Report
WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: WAKEMAN 20-17-3NCH PWB Offset Wellpath: WAKEMAN 20-17-3NCH PWP (REV-A.0)	
MD Reference: RIG (13'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	13.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-2NBH PWB Offset Wellpath: WAKEMAN 20-17-2NBH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#09 WAKEMAN 20-17-2NBH (293'FSL & 2143'FEL, SEC.20) Well: WAKEMAN 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
13.00	13.00	0.00	0.00	13.00	13.00	-0.22	-75.01	-90.16	75.01	1.40	123.67	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.22	-75.01	-90.16	75.01	1.73	80.01	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.22	-75.01	-90.16	75.01	2.30	49.41	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.22	-75.01	-90.16	75.01	2.91	35.22	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.22	-75.01	-90.16	75.01	3.52	27.25	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.22	-75.01	-90.16	75.01	4.15	22.20	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.22	-75.01	-90.16	75.01	4.77	18.71	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.22	-75.01	-90.16	75.01	5.39	16.16	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.22	-75.01	-90.16	75.01	6.02	14.23	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	-0.22	-75.01	-90.16	75.01	6.64	12.70	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	-0.22	-75.01	-90.16	75.01	7.27	11.47	PASS
1100.00	1100.00	0.00	0.00	1100.00	1100.00	-0.22	-75.01	-90.16	75.01	7.82	10.58	PASS
1113.00†	1113.00	-0.01	0.03	1113.00	1113.00	-0.22	-75.01	151.21	75.03	7.90	10.46	PASS
1213.00†	1212.97	-1.07	1.96	1212.97	1212.97	-0.22	-75.01	151.98	76.97	8.60	9.77	PASS
1313.00†	1312.80	-3.79	6.95	1312.80	1312.80	-0.22	-75.01	153.80	82.03	9.51	9.33	PASS
1413.00†	1412.38	-8.19	14.99	1412.38	1412.38	-0.22	-75.01	156.30	90.35	10.39	9.34	PASS
1513.00†	1511.57	-14.24	26.08	1511.57	1511.57	-0.22	-75.01	159.06	102.06	11.26	9.68	PASS
1532.69	1531.05	-15.63	28.62	1531.05	1531.05	-0.22	-75.01	159.61	104.77	11.41	9.80	PASS
1613.00†	1610.44	-21.42	39.23	1610.14	1610.14	-0.22	-75.02	161.67	116.20	11.90	10.39	PASS
1713.00†	1709.30	-28.64	52.43	1705.89	1705.86	-1.29	-76.64	163.08	131.99	12.54	11.18	PASS
1813.00†	1808.17	-35.85	65.64	1800.93	1800.77	-4.07	-80.90	163.29	150.13	13.15	12.01	PASS
1913.00†	1907.03	-43.06	78.85	1895.09	1894.57	-8.52	-87.72	162.70	170.56	13.86	12.91	PASS
2013.00†	2005.89	-50.27	92.05	1988.17	1986.98	-14.58	-96.98	161.59	193.30	14.58	13.89	PASS
2113.00†	2104.75	-57.48	105.26	2083.28	2081.09	-22.11	-108.50	160.23	217.95	15.25	14.94	PASS
2213.00†	2203.61	-64.70	118.46	2180.03	2176.80	-29.88	-120.37	159.09	242.85	15.93	15.91	PASS
2313.00†	2302.47	-71.91	131.67	2276.78	2272.50	-37.64	-132.25	158.17	267.82	16.60	16.81	PASS
2413.00†	2401.33	-79.12	144.87	2373.53	2368.20	-45.41	-144.13	157.40	292.84	17.29	17.62	PASS
2513.00†	2500.20	-86.33	158.08	2470.28	2463.91	-53.17	-156.01	156.76	317.91	17.99	18.35	PASS
2613.00†	2599.06	-93.54	171.28	2567.03	2559.61	-60.94	-167.88	156.21	343.01	18.73	18.99	PASS
2713.00†	2697.92	-100.75	184.49	2663.78	2655.31	-68.70	-179.76	155.73	368.13	19.43	19.63	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-2NBH PWB Offset Wellpath: WAKEMAN 20-17-2NBH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#09 WAKEMAN 20-17-2NBH (293'FSL & 2143'FEL, SEC.20)		Well: WAKEMAN 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
2813.00†	2796.78	-107.97	197.69	2760.53	2751.02	-76.47	-191.64	155.31	393.28	20.15	20.19	PASS
2913.00†	2895.64	-115.18	210.90	2857.28	2846.72	-84.23	-203.52	154.95	418.44	20.89	20.70	PASS
3013.00†	2994.50	-122.39	224.11	2954.03	2942.42	-92.00	-215.40	154.63	443.62	21.63	21.17	PASS
3113.00†	3093.37	-129.60	237.31	3050.78	3038.13	-99.77	-227.27	154.34	468.81	22.38	21.60	PASS
3213.00†	3192.23	-136.81	250.52	3147.53	3133.83	-107.53	-239.15	154.08	494.01	23.13	22.00	PASS
3313.00†	3291.09	-144.03	263.72	3244.28	3229.54	-115.30	-251.03	153.84	519.21	23.89	22.37	PASS
3413.00†	3389.95	-151.24	276.93	3341.03	3325.24	-123.06	-262.91	153.63	544.43	24.65	22.71	PASS
3513.00†	3488.81	-158.45	290.13	3437.78	3420.94	-130.83	-274.78	153.43	569.65	25.41	23.03	PASS
3613.00†	3587.67	-165.66	303.34	3534.53	3516.65	-138.59	-286.66	153.26	594.88	26.18	23.33	PASS
3713.00†	3686.53	-172.87	316.54	3631.28	3612.35	-146.36	-298.54	153.09	620.11	26.95	23.60	PASS
3813.00†	3785.40	-180.08	329.75	3728.03	3708.05	-154.12	-310.42	152.94	645.34	27.72	23.86	PASS
3913.00†	3884.26	-187.30	342.96	3824.78	3803.76	-161.89	-322.29	152.80	670.58	28.50	24.10	PASS
4013.00†	3983.12	-194.51	356.16	3921.53	3899.46	-169.65	-334.17	152.68	695.83	29.28	24.33	PASS
4113.00†	4081.98	-201.72	369.37	4018.28	3995.16	-177.42	-346.05	152.56	721.07	30.06	24.54	PASS
4213.00†	4180.84	-208.93	382.57	4115.03	4090.87	-185.19	-357.93	152.44	746.32	30.84	24.74	PASS
4313.00†	4279.70	-216.14	395.78	4211.78	4186.57	-192.95	-369.80	152.34	771.57	31.63	24.93	PASS
4413.00†	4378.57	-223.36	408.98	4308.53	4282.27	-200.72	-381.68	152.24	796.83	32.42	25.11	PASS
4513.00†	4477.43	-230.57	422.19	4405.28	4377.98	-208.48	-393.56	152.15	822.08	33.20	25.28	PASS
4613.00†	4576.29	-237.78	435.39	4502.03	4473.68	-216.25	-405.44	152.06	847.34	33.99	25.44	PASS
4713.00†	4675.15	-244.99	448.60	4598.78	4569.39	-224.01	-417.31	151.98	872.60	34.78	25.59	PASS
4813.00†	4774.01	-252.20	461.80	4695.53	4665.09	-231.78	-429.19	151.90	897.86	35.58	25.73	PASS
4913.00†	4872.87	-259.42	475.01	4792.28	4760.79	-239.54	-441.07	151.83	923.12	36.37	25.86	PASS
5013.00†	4971.73	-266.63	488.22	4889.03	4856.50	-247.31	-452.95	151.76	948.39	37.17	25.99	PASS
5113.00†	5070.60	-273.84	501.42	4985.78	4952.20	-255.07	-464.82	151.70	973.65	37.96	26.12	PASS
5213.00†	5169.46	-281.05	514.63	5082.53	5047.90	-262.84	-476.70	151.64	998.92	38.76	26.23	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

POSITIONAL UNCERTAINTY - Offset Wellbore: WAKEMAN 20-17-2NBH PWB Offset Wellpath: WAKEMAN 20-17-2NBH PWP (REV-A.0)				
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: WAKEMAN 20-17-2NBH PWB Offset Wellpath: WAKEMAN 20-17-2NBH PWP (REV-A.0)									
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]
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1799.84	-0.13	-45.72	-1.30	-47.50
8.5in Open Hole	1800.00	17593.78	15793.78	1799.84	N/A	-1.30	-47.50	N/A	N/A

SURVEY PROGRAM - Offset Wellbore: WAKEMAN 20-17-2NBH PWB Offset Wellpath: WAKEMAN 20-17-2NBH PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17593.78	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-2NBH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: WAKEMAN 20-17-2NBH PWB Offset Wellpath: WAKEMAN 20-17-2NBH PWP (REV-A.0)	
MD Reference: RIG (13'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	13.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: BOX ELDER #32-20 AWB Offset Wellpath: BOX ELDER #32-20 AWP

Facility: SEC.20-T01S-R65W Slot: SLOT#02 EX. BOX ELDER #32-20 (1980'FNL & 2080'FEL, SEC.20,OG,PR) Well: BOX ELDER #32-20 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
13.00	13.00	0.00	0.00	-13.00	18.00	3024.71	-101.91	-1.93	3026.43	25.40	122.98	PASS
113.00†	113.00	0.00	0.00	82.00	113.00	3024.71	-101.91	-1.93	3026.43	51.88	59.18	PASS
213.00†	213.00	0.00	0.00	182.00	213.00	3024.71	-101.91	-1.93	3026.43	54.23	56.59	PASS
313.00†	313.00	0.00	0.00	282.00	313.00	3024.71	-101.91	-1.93	3026.43	56.58	54.20	PASS
413.00†	413.00	0.00	0.00	382.00	413.00	3024.71	-101.91	-1.93	3026.43	58.93	52.01	PASS
513.00†	513.00	0.00	0.00	482.00	513.00	3024.71	-101.91	-1.93	3026.43	61.29	49.99	PASS
613.00†	613.00	0.00	0.00	582.00	613.00	3024.71	-101.91	-1.93	3026.43	63.65	48.11	PASS
713.00†	713.00	0.00	0.00	682.00	713.00	3024.71	-101.91	-1.93	3026.43	66.02	46.36	PASS
813.00†	813.00	0.00	0.00	782.00	813.00	3024.71	-101.91	-1.93	3026.43	68.39	44.74	PASS
913.00†	913.00	0.00	0.00	882.00	913.00	3024.71	-101.91	-1.93	3026.43	70.76	43.22	PASS
1013.00†	1013.00	0.00	0.00	982.00	1013.00	3024.71	-101.91	-1.93	3026.43	73.14	41.80	PASS
1100.00	1100.00	0.00	0.00	1069.00	1100.00	3024.71	-101.91	-1.93	3026.43	75.21	40.64	PASS
1113.00†	1113.00	-0.01	0.03	1082.00	1113.00	3024.71	-101.91	-120.57	3026.44	75.52	40.47	PASS
1213.00†	1212.97	-1.07	1.96	1181.97	1212.97	3024.71	-101.91	-120.59	3027.56	77.91	39.23	PASS
1313.00†	1312.80	-3.79	6.95	1281.80	1312.80	3024.71	-101.91	-120.63	3030.46	80.31	38.09	PASS
1413.00†	1412.38	-8.19	14.99	1381.38	1412.38	3024.71	-101.91	-120.70	3035.15	82.71	37.03	PASS
1513.00†	1511.57	-14.24	26.08	1480.57	1511.57	3024.71	-101.91	-120.79	3041.65	85.12	36.05	PASS
1532.69	1531.05	-15.63	28.62	1500.05	1531.05	3024.71	-101.91	-120.81	3043.14	85.59	35.87	PASS
1613.00†	1610.44	-21.42	39.23	1579.44	1610.44	3024.71	-101.91	-121.00	3049.40	87.34	35.15	PASS
1713.00†	1709.30	-28.64	52.43	1678.30	1709.30	3024.71	-101.91	-121.24	3057.25	89.74	34.29	PASS
1813.00†	1808.17	-35.85	65.64	1777.17	1808.17	3024.71	-101.91	-121.48	3065.14	92.10	33.47	PASS
1913.00†	1907.03	-43.06	78.85	1876.03	1907.03	3024.71	-101.91	-121.72	3073.09	94.52	32.69	PASS
2013.00†	2005.89	-50.27	92.05	1974.89	2005.89	3024.71	-101.91	-121.95	3081.09	96.95	31.95	PASS
2113.00†	2104.75	-57.48	105.26	2073.75	2104.75	3024.71	-101.91	-122.19	3089.15	99.39	31.25	PASS
2213.00†	2203.61	-64.70	118.46	2172.61	2203.61	3024.71	-101.91	-122.42	3097.26	101.84	30.57	PASS
2313.00†	2302.47	-71.91	131.67	2271.47	2302.47	3024.71	-101.91	-122.66	3105.42	104.30	29.93	PASS
2413.00†	2401.33	-79.12	144.87	2370.33	2401.33	3024.71	-101.91	-122.89	3113.63	106.76	29.31	PASS
2513.00†	2500.20	-86.33	158.08	2469.20	2500.20	3024.71	-101.91	-123.12	3121.89	109.23	28.72	PASS
2613.00†	2599.06	-93.54	171.28	2568.06	2599.06	3024.71	-101.91	-123.35	3130.20	111.72	28.15	PASS
2713.00†	2697.92	-100.75	184.49	2666.92	2697.92	3024.71	-101.91	-123.57	3138.56	114.21	27.61	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWB (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: BOX ELDER #32-20 AWB Offset Wellpath: BOX ELDER #32-20 AWP

Facility: SEC.20-T01S-R65W Slot: SLOT#02 EX. BOX ELDER #32-20 (1980'FNL & 2080'FEL,SEC.20,OG,PR) Well: BOX ELDER #32-20 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
2813.00†	2796.78	-107.97	197.69	2765.78	2796.78	3024.71	-101.91	-123.80	3146.97	116.70	27.09	PASS
2913.00†	2895.64	-115.18	210.90	2864.64	2895.64	3024.71	-101.91	-124.02	3155.43	119.21	26.59	PASS
3013.00†	2994.50	-122.39	224.11	2963.50	2994.50	3024.71	-101.91	-124.25	3163.94	121.72	26.11	PASS
3113.00†	3093.37	-129.60	237.31	3062.37	3093.37	3024.71	-101.91	-124.47	3172.50	124.24	25.64	PASS
3213.00†	3192.23	-136.81	250.52	3161.23	3192.23	3024.71	-101.91	-124.69	3181.11	126.76	25.20	PASS
3313.00†	3291.09	-144.03	263.72	3260.09	3291.09	3024.71	-101.91	-124.91	3189.76	129.30	24.77	PASS
3413.00†	3389.95	-151.24	276.93	3358.95	3389.95	3024.71	-101.91	-125.13	3198.46	131.84	24.36	PASS
3513.00†	3488.81	-158.45	290.13	3457.81	3488.81	3024.71	-101.91	-125.35	3207.21	134.38	23.96	PASS
3613.00†	3587.67	-165.66	303.34	3556.67	3587.67	3024.71	-101.91	-125.57	3216.01	136.93	23.58	PASS
3713.00†	3686.53	-172.87	316.54	3655.53	3686.53	3024.71	-101.91	-125.78	3224.85	139.49	23.21	PASS
3813.00†	3785.40	-180.08	329.75	3754.40	3785.40	3024.71	-101.91	-126.00	3233.74	142.05	22.85	PASS
3913.00†	3884.26	-187.30	342.96	3853.26	3884.26	3024.71	-101.91	-126.21	3242.67	144.61	22.50	PASS
4013.00†	3983.12	-194.51	356.16	3952.12	3983.12	3024.71	-101.91	-126.42	3251.65	147.19	22.17	PASS
4113.00†	4081.98	-201.72	369.37	4050.98	4081.98	3024.71	-101.91	-126.64	3260.67	149.76	21.85	PASS
4213.00†	4180.84	-208.93	382.57	4149.84	4180.84	3024.71	-101.91	-126.85	3269.74	152.34	21.54	PASS
4313.00†	4279.70	-216.14	395.78	4248.70	4279.70	3024.71	-101.91	-127.06	3278.85	154.93	21.23	PASS
4413.00†	4378.57	-223.36	408.98	4347.57	4378.57	3024.71	-101.91	-127.26	3288.00	157.52	20.94	PASS
4513.00†	4477.43	-230.57	422.19	4446.43	4477.43	3024.71	-101.91	-127.47	3297.20	160.11	20.66	PASS
4613.00†	4576.29	-237.78	435.39	4545.29	4576.29	3024.71	-101.91	-127.67	3306.44	162.71	20.39	PASS
4713.00†	4675.15	-244.99	448.60	4644.15	4675.15	3024.71	-101.91	-127.88	3315.72	165.31	20.12	PASS
4813.00†	4774.01	-252.20	461.80	4743.01	4774.01	3024.71	-101.91	-128.08	3325.05	167.92	19.86	PASS
4913.00†	4872.87	-259.42	475.01	4841.87	4872.87	3024.71	-101.91	-128.28	3334.41	170.53	19.61	PASS
5013.00†	4971.73	-266.63	488.22	4940.73	4971.73	3024.71	-101.91	-128.49	3343.82	173.14	19.37	PASS
5113.00†	5070.60	-273.84	501.42	5039.60	5070.60	3024.71	-101.91	-128.69	3353.27	175.75	19.14	PASS
5213.00†	5169.46	-281.05	514.63	5138.46	5169.46	3024.71	-101.91	-128.88	3362.76	178.37	18.91	PASS
5313.00†	5268.32	-288.26	527.83	5237.32	5268.32	3024.71	-101.91	-129.08	3372.29	180.99	18.68	PASS
5413.00†	5367.18	-295.47	541.04	5336.18	5367.18	3024.71	-101.91	-129.28	3381.87	183.62	18.47	PASS
5513.00†	5466.04	-302.69	554.24	5435.04	5466.04	3024.71	-101.91	-129.47	3391.48	186.25	18.26	PASS
5613.00†	5564.90	-309.90	567.45	5533.90	5564.90	3024.71	-101.91	-129.67	3401.13	188.88	18.06	PASS
5713.00†	5663.77	-317.11	580.65	5632.77	5663.77	3024.71	-101.91	-129.86	3410.82	191.51	17.86	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: BOX ELDER #32-20 AWB Offset Wellpath: BOX ELDER #32-20 AWP

Facility: SEC.20-T01S-R65W Slot: SLOT#02 EX. BOX ELDER #32-20 (1980'FNL & 2080'FEL,SEC.20,OG,PR) Well: BOX ELDER #32-20 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
5813.00†	5762.63	-324.32	593.86	5731.63	5762.63	3024.71	-101.91	-130.05	3420.54	194.14	17.67	PASS
5913.00†	5861.49	-331.53	607.07	5830.49	5861.49	3024.71	-101.91	-130.24	3430.31	196.78	17.48	PASS
6013.00†	5960.35	-338.75	620.27	5929.35	5960.35	3024.71	-101.91	-130.43	3440.11	199.42	17.30	PASS
6113.00†	6059.21	-345.96	633.48	6028.21	6059.21	3024.71	-101.91	-130.62	3449.96	202.06	17.12	PASS
6213.00†	6158.07	-353.17	646.68	6127.07	6158.07	3024.71	-101.91	-130.81	3459.84	204.70	16.94	PASS
6313.00†	6256.93	-360.38	659.89	6225.93	6256.93	3024.71	-101.91	-131.00	3469.75	207.34	16.78	PASS
6413.00†	6355.80	-367.59	673.09	6324.80	6355.80	3024.71	-101.91	-131.18	3479.71	209.99	16.61	PASS
6513.00†	6454.66	-374.80	686.30	6423.66	6454.66	3024.71	-101.91	-131.37	3489.70	212.64	16.45	PASS
6613.00†	6553.52	-382.02	699.50	6522.52	6553.52	3024.71	-101.91	-131.55	3499.72	215.29	16.29	PASS
6713.00†	6652.38	-389.23	712.71	6621.38	6652.38	3024.71	-101.91	-131.74	3509.78	217.94	16.14	PASS
6813.00†	6751.24	-396.44	725.91	6720.24	6751.24	3024.71	-101.91	-131.92	3519.88	220.59	15.99	PASS
6910.92	6848.04	-403.50	738.84	6817.04	6848.04	3024.71	-101.91	-132.09	3529.80	223.19	15.85	PASS
6913.00†	6850.10	-403.65	739.12	6819.10	6850.10	3024.71	-101.91	-130.88	3530.01	223.24	15.85	PASS
7013.00†	6949.10	-401.78	752.22	6918.10	6949.10	3024.71	-101.91	-65.02	3531.34	226.18	15.65	PASS
7113.00†	7046.29	-382.60	764.85	7015.29	7046.29	3024.71	-101.91	-39.51	3515.83	229.91	15.33	PASS
7213.00†	7138.74	-346.69	776.62	7107.74	7138.74	3024.71	-101.91	-31.81	3483.99	233.51	14.95	PASS
7313.00†	7223.63	-295.15	787.19	7192.63	7223.63	3024.71	-101.91	-29.58	3436.86	236.63	14.55	PASS
7413.00†	7298.39	-229.54	796.21	7267.39	7298.39	3024.71	-101.91	-30.26	3375.91	239.35	14.13	PASS
7513.00†	7360.73	-151.85	803.43	7329.73	7360.73	3024.71	-101.91	-33.56	3303.06	241.63	13.70	PASS
7613.00†	7408.78	-64.45	808.63	7377.78	7408.78	3024.71	-101.91	-40.47	3220.55	243.45	13.26	PASS
7713.00†	7441.06	30.02	811.63	7410.06	7441.06	3024.71	-101.91	-53.63	3130.93	244.80	12.82	PASS
7813.00†	7456.60	128.67	812.36	7425.60	7456.60	3024.71	-101.91	-77.38	3036.93	245.69	12.39	PASS
7853.29	7458.00	168.93	812.01	7427.00	7458.00	3024.71	-101.91	-90.00	2998.46	245.93	12.22	PASS
7913.00†	7458.00	228.63	811.20	7427.00	7458.00	3024.71	-101.91	-90.00	2941.40	246.23	11.97	PASS
8013.00†	7458.00	328.62	809.86	7427.00	7458.00	3024.71	-101.91	-90.00	2846.09	246.78	11.56	PASS
8113.00†	7458.00	428.61	808.51	7427.00	7458.00	3024.71	-101.91	-90.00	2751.11	247.37	11.14	PASS
8213.00†	7458.00	528.60	807.16	7427.00	7458.00	3024.71	-101.91	-90.00	2656.49	248.02	10.73	PASS
8313.00†	7458.00	628.60	805.81	7427.00	7458.00	3024.71	-101.91	-90.00	2562.29	248.73	10.32	PASS
8413.00†	7458.00	728.59	804.47	7427.00	7458.00	3024.71	-101.91	-90.00	2468.54	249.50	9.91	PASS
8513.00†	7458.00	828.58	803.12	7427.00	7458.00	3024.71	-101.91	-90.00	2375.31	250.36	9.51	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: BOX ELDER #32-20 AWB Offset Wellpath: BOX ELDER #32-20 AWP												
Facility: SEC.20-T01S-R65W		Slot: SLOT#02 EX. BOX ELDER #32-20 (1980'FNL & 2080'FEL, SEC.20, OG, PR)		Well: BOX ELDER #32-20		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
8613.00†	7458.00	928.57	801.77	7427.00	7458.00	3024.71	-101.91	-90.00	2282.64	251.30	9.10	PASS
8713.00†	7458.00	1028.56	800.42	7427.00	7458.00	3024.71	-101.91	-90.00	2190.62	252.33	8.70	PASS
8813.00†	7458.00	1128.55	799.08	7427.00	7458.00	3024.71	-101.91	-90.00	2099.33	253.47	8.30	PASS
8913.00†	7458.00	1228.54	797.73	7427.00	7458.00	3024.71	-101.91	-90.00	2008.87	254.74	7.90	PASS
9013.00†	7458.00	1328.53	796.38	7427.00	7458.00	3024.71	-101.91	-90.00	1919.36	256.13	7.51	PASS
9113.00†	7458.00	1428.52	795.03	7427.00	7458.00	3024.71	-101.91	-90.00	1830.93	257.68	7.12	PASS
9213.00†	7458.00	1528.51	793.69	7427.00	7458.00	3024.71	-101.91	-90.00	1743.76	259.39	6.73	PASS
9313.00†	7458.00	1628.50	792.34	7427.00	7458.00	3024.71	-101.91	-90.00	1658.03	261.29	6.36	PASS
9413.00†	7458.00	1728.50	790.99	7427.00	7458.00	3024.71	-101.91	-90.00	1573.99	263.40	5.99	PASS
9513.00†	7458.00	1828.49	789.65	7427.00	7458.00	3024.71	-101.91	-90.00	1491.92	265.73	5.62	PASS
9613.00†	7458.00	1928.48	788.30	7427.00	7458.00	3024.71	-101.91	-90.00	1412.16	268.30	5.27	PASS
9713.00†	7458.00	2028.47	786.95	7427.00	7458.00	3024.71	-101.91	-90.00	1335.13	271.13	4.93	PASS
9813.00†	7458.00	2128.46	785.60	7427.00	7458.00	3024.71	-101.91	-90.00	1261.33	274.21	4.61	PASS
9913.00†	7458.00	2228.45	784.26	7427.00	7458.00	3024.71	-101.91	-90.00	1191.35	277.54	4.30	PASS
10013.00†	7458.00	2328.44	782.91	7427.00	7458.00	3024.71	-101.91	-90.00	1125.92	281.09	4.01	PASS
10113.00†	7458.00	2428.43	781.56	7427.00	7458.00	3024.71	-101.91	-90.00	1065.86	284.78	3.75	PASS
10213.00†	7458.00	2528.42	780.21	7427.00	7458.00	3024.71	-101.91	-90.00	1012.15	288.50	3.51	PASS
10313.00†	7458.00	2628.41	778.87	7427.00	7458.00	3024.71	-101.91	-90.00	965.82	292.09	3.31	PASS
10413.00†	7458.00	2728.40	777.52	7427.00	7458.00	3024.71	-101.91	-90.00	928.00	295.33	3.15	PASS
10513.00†	7458.00	2828.40	776.17	7427.00	7458.00	3024.71	-101.91	-90.00	899.76	297.97	3.02	PASS
10613.00†	7458.00	2928.39	774.82	7427.00	7458.00	3024.71	-101.91	-90.00	882.01	299.76	2.95	PASS
10713.00†	7458.00	3028.38	773.48	7427.00	7458.00	3024.71	-101.91	-90.00	875.39	300.53	2.92	PASS
10720.86†	7458.00	3036.24	773.37	7427.56	7458.56	3024.71	-101.91	-90.04	875.35	300.56	2.92	PASS
10723.51†	7458.00	3038.88	773.34	7427.00	7458.00	3024.71	-101.91	-90.00	875.36	300.54	2.92	PASS
10813.00†	7458.00	3128.37	772.13	7427.00	7458.00	3024.71	-101.91	-90.00	880.16	300.18	2.94	PASS
10913.00†	7458.00	3228.36	770.78	7427.00	7458.00	3024.71	-101.91	-90.00	896.14	298.77	3.00	PASS
11013.00†	7458.00	3328.35	769.43	7427.00	7458.00	3024.71	-101.91	-90.00	922.73	296.47	3.12	PASS
11113.00†	7458.00	3428.34	768.09	7427.00	7458.00	3024.71	-101.91	-90.00	959.07	293.51	3.27	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

POSITIONAL UNCERTAINTY - Offset Wellbore: BOX ELDER #32-20 AWB Offset Wellpath: BOX ELDER #32-20 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: BOX ELDER #32-20 AWB Offset Wellpath: BOX ELDER #32-20 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	1561.00	1561.00	18.00	1579.00	1843.54	-70.58	1843.54	-70.58
8.625in Casing Surface	0.00	1561.00	1561.00	18.00	1579.00	1843.54	-70.58	1843.54	-70.58
7.875in Open Hole	1561.00	8292.00	6731.00	1579.00	8310.00	1843.54	-70.58	1843.54	-70.58
4.5in Casing Production	0.00	8292.00	8292.00	18.00	8310.00	1843.54	-70.58	1843.54	-70.58

WELLPATH COMPOSITION - Offset Wellbore: BOX ELDER #32-20 AWB Offset Wellpath: BOX ELDER #32-20 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8314.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8314>	BOX ELDER #32-20 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: BOX ELDER #32-20 AWB Offset Wellpath: BOX ELDER #32-20 AWP	
MD Reference: Rig on SLOT#02 EX. BOX ELDER #32-20 (1980'FNL & 2080'FEL,SEC.20,OG,PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-2NCH PWB Offset Wellpath: WAKEMAN 20-17-2NCH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#10 WAKEMAN 20-17-2NCH (293'FSL & 2158'FEL, SEC.20) Well: WAKEMAN 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
13.00	13.00	0.00	0.00	13.00	13.00	-0.21	-89.98	-90.13	89.98	1.40	148.63	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.21	-89.98	-90.13	89.98	1.73	96.03	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.21	-89.98	-90.13	89.98	2.31	59.30	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.21	-89.98	-90.13	89.98	2.91	42.27	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.21	-89.98	-90.13	89.98	3.53	32.72	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.21	-89.98	-90.13	89.98	4.15	26.65	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.21	-89.98	-90.13	89.98	4.77	22.47	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.21	-89.98	-90.13	89.98	5.40	19.41	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.21	-89.98	-90.13	89.98	6.02	17.09	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	-0.21	-89.98	-90.13	89.98	6.65	15.26	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	-0.21	-89.98	-90.13	89.98	7.27	13.78	PASS
1100.00	1100.00	0.00	0.00	1100.00	1100.00	-0.21	-89.98	-90.13	89.98	7.82	12.71	PASS
1113.00†	1113.00	-0.01	0.03	1113.00	1113.00	-0.21	-89.98	151.24	90.01	7.90	12.57	PASS
1213.00†	1212.97	-1.07	1.96	1212.97	1212.97	-0.21	-89.98	151.88	91.94	8.60	11.68	PASS
1313.00†	1312.80	-3.79	6.95	1312.80	1312.80	-0.21	-89.98	153.42	96.99	9.51	11.05	PASS
1413.00†	1412.38	-8.19	14.99	1412.38	1412.38	-0.21	-89.98	155.58	105.27	10.39	10.90	PASS
1513.00†	1511.57	-14.24	26.08	1511.17	1511.17	-0.22	-90.00	158.03	116.93	11.25	11.11	PASS
1532.69	1531.05	-15.63	28.62	1529.97	1529.97	-0.27	-90.12	158.48	119.74	11.41	11.21	PASS
1613.00†	1610.44	-21.42	39.23	1606.28	1606.25	-0.97	-91.80	159.93	132.68	11.93	11.85	PASS
1713.00†	1709.30	-28.64	52.43	1700.54	1700.38	-2.93	-96.45	160.79	151.35	12.70	12.65	PASS
1813.00†	1808.17	-35.85	65.64	1793.79	1793.28	-6.04	-103.85	160.89	172.74	13.40	13.60	PASS
1913.00†	1907.03	-43.06	78.85	1885.84	1884.68	-10.27	-113.89	160.48	196.78	14.08	14.66	PASS
2013.00†	2005.89	-50.27	92.05	1976.54	1974.34	-15.54	-126.43	159.75	223.46	14.84	15.76	PASS
2113.00†	2104.75	-57.48	105.26	2065.72	2062.05	-21.80	-141.30	158.84	252.75	15.52	17.02	PASS
2213.00†	2203.61	-64.70	118.46	2159.57	2153.99	-29.11	-158.67	157.87	283.78	16.18	18.29	PASS
2313.00†	2302.47	-71.91	131.67	2254.52	2247.00	-36.52	-176.27	157.08	314.89	16.84	19.47	PASS
2413.00†	2401.33	-79.12	144.87	2349.47	2340.01	-43.93	-193.88	156.43	346.05	17.53	20.53	PASS
2513.00†	2500.20	-86.33	158.08	2444.43	2433.02	-51.34	-211.49	155.89	377.25	18.26	21.45	PASS
2613.00†	2599.06	-93.54	171.28	2539.38	2526.04	-58.75	-229.10	155.43	408.47	18.92	22.39	PASS
2713.00†	2697.92	-100.75	184.49	2634.34	2619.05	-66.16	-246.70	155.03	439.71	19.63	23.20	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-2NCH PWB Offset Wellpath: WAKEMAN 20-17-2NCH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W Slot: SLOT#10 WAKEMAN 20-17-2NCH (293'FSL & 2158'FEL, SEC.20) Well: WAKEMAN 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
2813.00†	2796.78	-107.97	197.69	2729.29	2712.06	-73.57	-264.31	154.69	470.97	20.35	23.94	PASS
2913.00†	2895.64	-115.18	210.90	2824.25	2805.07	-80.98	-281.92	154.39	502.24	21.08	24.62	PASS
3013.00†	2994.50	-122.39	224.11	2919.20	2898.09	-88.39	-299.53	154.13	533.52	21.82	25.24	PASS
3113.00†	3093.37	-129.60	237.31	3014.15	2991.10	-95.80	-317.13	153.89	564.81	22.56	25.81	PASS
3213.00†	3192.23	-136.81	250.52	3109.11	3084.11	-103.21	-334.74	153.68	596.11	23.31	26.34	PASS
3313.00†	3291.09	-144.03	263.72	3204.06	3177.13	-110.62	-352.35	153.49	627.41	24.06	26.83	PASS
3413.00†	3389.95	-151.24	276.93	3299.02	3270.14	-118.03	-369.96	153.32	658.73	24.82	27.29	PASS
3513.00†	3488.81	-158.45	290.13	3393.97	3363.15	-125.44	-387.57	153.16	690.04	25.59	27.71	PASS
3613.00†	3587.67	-165.66	303.34	3488.93	3456.16	-132.85	-405.17	153.02	721.36	26.36	28.10	PASS
3713.00†	3686.53	-172.87	316.54	3583.88	3549.18	-140.26	-422.78	152.89	752.68	27.13	28.46	PASS
3813.00†	3785.40	-180.08	329.75	3678.83	3642.19	-147.66	-440.39	152.77	784.01	27.90	28.80	PASS
3913.00†	3884.26	-187.30	342.96	3773.79	3735.20	-155.07	-458.00	152.66	815.34	28.68	29.12	PASS
4013.00†	3983.12	-194.51	356.16	3868.74	3828.21	-162.48	-475.60	152.56	846.67	29.46	29.42	PASS
4113.00†	4081.98	-201.72	369.37	3963.70	3921.23	-169.89	-493.21	152.46	878.01	30.25	29.70	PASS
4213.00†	4180.84	-208.93	382.57	4058.65	4014.24	-177.30	-510.82	152.37	909.34	31.03	29.96	PASS
4313.00†	4279.70	-216.14	395.78	4153.60	4107.25	-184.71	-528.43	152.29	940.68	31.82	30.21	PASS
4413.00†	4378.57	-223.36	408.98	4248.56	4200.27	-192.12	-546.03	152.21	972.02	32.61	30.44	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: WAKEMAN 20-17-2NCH PWB Offset Wellpath: WAKEMAN 20-17-2NCH PWP (REV-A.0)				
Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical	1.000ft
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical	3.000ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

HOLE & CASING SECTIONS - Offset Wellbore: WAKEMAN 20-17-2NCH PWB Offset Wellpath: WAKEMAN 20-17-2NCH PWP (REV-A.0)									
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]
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1799.45	-0.13	-54.85	-1.98	-59.26
8.5in Open Hole	1800.00	17719.88	15919.88	1799.45	N/A	-1.98	-59.26	N/A	N/A

SURVEY PROGRAM - Offset Wellbore: WAKEMAN 20-17-2NCH PWB Offset Wellpath: WAKEMAN 20-17-2NCH PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17719.88	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-2NCH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: WAKEMAN 20-17-2NCH PWB Offset Wellpath: WAKEMAN 20-17-2NCH PWP (REV-A.0)	
MD Reference: RIG (13'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	13.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-2NAH PWB Offset Wellpath: WAKEMAN 20-17-2NAH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#11 WAKEMAN 20-17-2NAH (293'FSL & 2173'FEL, SEC.20) Well: WAKEMAN 20-17-2NAH 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
13.00	13.00	0.00	0.00	13.00	13.00	-0.24	-105.04	-90.13	105.04	1.40	173.73	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.24	-105.04	-90.13	105.04	1.73	112.21	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.24	-105.04	-90.13	105.04	2.31	69.28	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.24	-105.04	-90.13	105.04	2.91	49.39	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.24	-105.04	-90.13	105.04	3.53	38.23	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.24	-105.04	-90.13	105.04	4.15	31.14	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.24	-105.04	-90.13	105.04	4.77	26.26	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.24	-105.04	-90.13	105.04	5.40	22.69	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.24	-105.04	-90.13	105.04	6.02	19.97	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	-0.24	-105.04	-90.13	105.04	6.65	17.83	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	-0.24	-105.04	-90.13	105.04	7.27	16.10	PASS
1100.00	1100.00	0.00	0.00	1100.00	1100.00	-0.24	-105.04	-90.13	105.04	7.82	14.85	PASS
1113.00†	1113.00	-0.01	0.03	1113.00	1113.00	-0.24	-105.04	151.24	105.06	7.90	14.69	PASS
1213.00†	1212.97	-1.07	1.96	1212.97	1212.97	-0.24	-105.04	151.79	107.00	8.60	13.61	PASS
1313.00†	1312.80	-3.79	6.95	1312.80	1312.80	-0.24	-105.04	153.12	112.04	9.51	12.78	PASS
1413.00†	1412.38	-8.19	14.99	1411.92	1411.92	-0.24	-105.06	155.00	120.32	10.38	12.47	PASS
1513.00†	1511.57	-14.24	26.08	1507.07	1507.05	-0.90	-106.92	156.76	133.75	11.29	12.68	PASS
1532.69	1531.05	-15.63	28.62	1525.66	1525.62	-1.15	-107.64	157.06	137.14	11.46	12.79	PASS
1613.00†	1610.44	-21.42	39.23	1601.04	1600.88	-2.58	-111.69	158.05	152.39	12.14	13.37	PASS
1713.00†	1709.30	-28.64	52.43	1693.94	1693.43	-5.24	-119.25	158.61	174.00	12.89	14.33	PASS
1813.00†	1808.17	-35.85	65.64	1785.62	1784.45	-8.84	-129.48	158.64	198.40	13.58	15.41	PASS
1913.00†	1907.03	-43.06	78.85	1875.90	1873.72	-13.33	-142.24	158.32	225.55	14.27	16.58	PASS
2013.00†	2005.89	-50.27	92.05	1964.65	1961.00	-18.65	-157.36	157.77	255.38	15.02	17.79	PASS
2113.00†	2104.75	-57.48	105.26	2051.75	2046.14	-24.74	-174.67	157.10	287.86	15.70	19.15	PASS
2213.00†	2203.61	-64.70	118.46	2140.92	2132.76	-31.77	-194.64	156.34	322.70	16.38	20.55	PASS
2313.00†	2302.47	-71.91	131.67	2234.41	2223.48	-39.28	-215.96	155.67	357.98	17.04	21.88	PASS
2413.00†	2401.33	-79.12	144.87	2327.91	2314.21	-46.78	-237.28	155.12	393.29	17.74	23.05	PASS
2513.00†	2500.20	-86.33	158.08	2421.41	2404.93	-54.29	-258.60	154.66	428.63	18.40	24.19	PASS
2613.00†	2599.06	-93.54	171.28	2514.90	2495.65	-61.79	-279.92	154.27	463.98	19.10	25.19	PASS
2713.00†	2697.92	-100.75	184.49	2608.40	2586.38	-69.29	-301.24	153.94	499.36	19.81	26.10	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-2NAH PWB Offset Wellpath: WAKEMAN 20-17-2NAH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W Slot: SLOT#11 WAKEMAN 20-17-2NAH (293'FSL & 2173'FEL, SEC.20) Well: WAKEMAN 20-17-2NAH 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
2813.00†	2796.78	-107.97	197.69	2701.90	2677.10	-76.80	-322.56	153.65	534.75	20.53	26.94	PASS
2913.00†	2895.64	-115.18	210.90	2795.40	2767.83	-84.30	-343.87	153.39	570.15	21.27	27.70	PASS
3013.00†	2994.50	-122.39	224.11	2888.89	2858.55	-91.81	-365.19	153.17	605.55	22.01	28.40	PASS
3113.00†	3093.37	-129.60	237.31	2982.39	2949.27	-99.31	-386.51	152.97	640.97	22.75	29.04	PASS
3213.00†	3192.23	-136.81	250.52	3075.89	3040.00	-106.81	-407.83	152.79	676.39	23.51	29.63	PASS
3313.00†	3291.09	-144.03	263.72	3169.38	3130.72	-114.32	-429.15	152.63	711.81	24.27	30.18	PASS
3413.00†	3389.95	-151.24	276.93	3262.88	3221.45	-121.82	-450.47	152.48	747.24	25.03	30.69	PASS
3513.00†	3488.81	-158.45	290.13	3356.38	3312.17	-129.33	-471.79	152.35	782.68	25.81	31.16	PASS
3613.00†	3587.67	-165.66	303.34	3449.88	3402.89	-136.83	-493.11	152.23	818.11	26.58	31.59	PASS
3713.00†	3686.53	-172.87	316.54	3543.37	3493.62	-144.34	-514.43	152.12	853.55	27.36	32.00	PASS
3813.00†	3785.40	-180.08	329.75	3636.87	3584.34	-151.84	-535.75	152.02	889.00	28.14	32.38	PASS
3913.00†	3884.26	-187.30	342.96	3730.37	3675.07	-159.34	-557.07	151.92	924.44	28.93	32.73	PASS
4013.00†	3983.12	-194.51	356.16	3823.86	3765.79	-166.85	-578.39	151.84	959.89	29.72	33.06	PASS
4113.00†	4081.98	-201.72	369.37	3917.36	3856.51	-174.35	-599.71	151.75	995.34	30.52	33.37	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: WAKEMAN 20-17-2NAH PWB Offset Wellpath: WAKEMAN 20-17-2NAH PWP (REV-A.0)			
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: WAKEMAN 20-17-2NAH PWB Offset Wellpath: WAKEMAN 20-17-2NAH PWP (REV-A.0)									
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]
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1798.70	-0.14	-64.03	-2.97	-72.05
8.5in Open Hole	1800.00	17526.80	15726.80	1798.70	N/A	-2.97	-72.05	N/A	N/A

Clearance Report
WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

SURVEY PROGRAM - Offset Wellbore: WAKEMAN 20-17-2NAH PWB Offset Wellpath: WAKEMAN 20-17-2NAH PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17526.80	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-2NAH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: WAKEMAN 20-17-2NAH PWB Offset Wellpath: WAKEMAN 20-17-2NAH PWP (REV-A.0)	
MD Reference: RIG (13'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	13.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-2CDH PWB Offset Wellpath: WAKEMAN 20-17-2CDH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#12 WAKEMAN 20-17-2CDH (293'FSL & 2188'FEL, SEC.20) Well: WAKEMAN 20-17-2CDH Threshold Value=1.00 † = interpolated/extrapolated station

Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
13.00	13.00	0.00	0.00	13.00	13.00	-0.26	-120.01	-90.13	120.01	1.40	198.68	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.26	-120.01	-90.13	120.01	1.73	128.31	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.26	-120.01	-90.13	120.01	2.31	79.22	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.26	-120.01	-90.13	120.01	2.91	56.48	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.26	-120.01	-90.13	120.01	3.53	43.72	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.26	-120.01	-90.13	120.01	4.15	35.61	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.26	-120.01	-90.13	120.01	4.77	30.02	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.26	-120.01	-90.13	120.01	5.40	25.94	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.26	-120.01	-90.13	120.01	6.02	22.84	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	-0.26	-120.01	-90.13	120.01	6.65	20.39	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	-0.26	-120.01	-90.13	120.01	7.28	18.42	PASS
1100.00	1100.00	0.00	0.00	1100.00	1100.00	-0.26	-120.01	-90.13	120.01	7.82	16.99	PASS
1113.00†	1113.00	-0.01	0.03	1113.00	1113.00	-0.26	-120.01	151.24	120.04	7.90	16.80	PASS
1213.00†	1212.97	-1.07	1.96	1212.97	1212.97	-0.26	-120.01	151.72	121.97	8.60	15.53	PASS
1313.00†	1312.80	-3.79	6.95	1312.29	1312.29	-0.27	-120.04	152.88	127.03	9.51	14.50	PASS
1413.00†	1412.38	-8.19	14.99	1407.57	1407.55	-0.87	-121.94	154.19	137.21	10.44	14.16	PASS
1513.00†	1511.57	-14.24	26.08	1501.69	1501.53	-2.38	-126.79	155.35	153.66	11.51	14.28	PASS
1532.69	1531.05	-15.63	28.62	1520.05	1519.83	-2.78	-128.07	155.55	157.62	11.68	14.42	PASS
1613.00†	1610.44	-21.42	39.23	1594.38	1593.86	-4.76	-134.44	156.27	175.25	12.31	15.16	PASS
1713.00†	1709.30	-28.64	52.43	1685.79	1684.63	-7.99	-144.77	156.67	199.81	13.09	16.20	PASS
1813.00†	1808.17	-35.85	65.64	1775.81	1773.62	-12.00	-157.64	156.69	227.20	13.77	17.40	PASS
1913.00†	1907.03	-43.06	78.85	1864.27	1860.63	-16.76	-172.89	156.45	257.32	14.32	18.86	PASS
2013.00†	2005.89	-50.27	92.05	1951.07	1945.48	-22.20	-190.33	156.05	290.14	15.15	20.04	PASS
2113.00†	2104.75	-57.48	105.26	2038.99	2030.86	-28.44	-210.35	155.54	325.44	15.83	21.47	PASS
2213.00†	2203.61	-64.70	118.46	2132.28	2121.32	-35.24	-232.15	155.06	361.34	16.47	22.88	PASS
2313.00†	2302.47	-71.91	131.67	2225.58	2211.77	-42.04	-253.95	154.67	397.27	17.16	24.11	PASS
2413.00†	2401.33	-79.12	144.87	2318.87	2302.22	-48.84	-275.76	154.34	433.21	17.80	25.30	PASS
2513.00†	2500.20	-86.33	158.08	2412.16	2392.68	-55.64	-297.56	154.07	469.16	18.49	26.35	PASS
2613.00†	2599.06	-93.54	171.28	2505.45	2483.13	-62.44	-319.36	153.83	505.11	19.18	27.30	PASS
2713.00†	2697.92	-100.75	184.49	2598.75	2573.59	-69.23	-341.16	153.63	541.08	19.89	28.16	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-2CDH PWB Offset Wellpath: WAKEMAN 20-17-2CDH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#12 WAKEMAN 20-17-2CDH (293'FSL & 2188'FEL, SEC.20) Well: WAKEMAN 20-17-2CDH Threshold Value=1.00 † = interpolated/extrapolated station												
Ref MD [ft]	Ref TVD [ft]	Ref North [ft]	Ref East [ft]	Offset MD [ft]	Offset TVD [ft]	Offset North [ft]	Offset East [ft]	Angle from Highside [°]	C-C Clear Dist [ft]	ACR MASD [ft]	Sep Ratio	ACR Status
2813.00†	2796.78	-107.97	197.69	2692.04	2664.04	-76.03	-362.97	153.45	577.05	20.61	28.95	PASS
2913.00†	2895.64	-115.18	210.90	2785.33	2754.50	-82.83	-384.77	153.29	613.02	21.34	29.67	PASS
3013.00†	2994.50	-122.39	224.11	2878.63	2844.95	-89.63	-406.57	153.15	649.00	22.08	30.34	PASS
3113.00†	3093.37	-129.60	237.31	2971.92	2935.40	-96.43	-428.38	153.02	684.98	22.82	30.94	PASS
3213.00†	3192.23	-136.81	250.52	3065.21	3025.86	-103.23	-450.18	152.91	720.96	23.57	31.50	PASS
3313.00†	3291.09	-144.03	263.72	3158.50	3116.31	-110.03	-471.98	152.80	756.94	24.33	32.02	PASS
3413.00†	3389.95	-151.24	276.93	3251.80	3206.77	-116.83	-493.78	152.71	792.93	25.09	32.50	PASS
3513.00†	3488.81	-158.45	290.13	3345.09	3297.22	-123.63	-515.59	152.62	828.92	25.85	32.94	PASS
3613.00†	3587.67	-165.66	303.34	3438.38	3387.68	-130.43	-537.39	152.54	864.91	26.62	33.35	PASS
3713.00†	3686.53	-172.87	316.54	3531.68	3478.13	-137.23	-559.19	152.47	900.90	27.40	33.73	PASS
3813.00†	3785.40	-180.08	329.75	3624.97	3568.58	-144.03	-580.99	152.41	936.89	28.18	34.08	PASS
3913.00†	3884.26	-187.30	342.96	3718.26	3659.04	-150.83	-602.80	152.35	972.88	28.96	34.41	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: WAKEMAN 20-17-2CDH PWB Offset Wellpath: WAKEMAN 20-17-2CDH PWP (REV-A.0)

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: WAKEMAN 20-17-2CDH PWB Offset Wellpath: WAKEMAN 20-17-2CDH PWP (REV-A.0)

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]
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1797.47	-0.16	-73.16	-4.11	-85.82
8.5in Open Hole	1800.00	17954.40	16154.40	1797.47	N/A	-4.11	-85.82	N/A	N/A

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WAKEMAN 20-17-4NCH PWP (REV-B.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

SURVEY PROGRAM - Offset Wellbore: WAKEMAN 20-17-2CDH PWB Offset Wellpath: WAKEMAN 20-17-2CDH PWP (REV-A.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17954.40	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-2CDH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: WAKEMAN 20-17-2CDH PWB Offset Wellpath: WAKEMAN 20-17-2CDH PWP (REV-A.0)	
MD Reference: RIG (13'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	13.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-1NBH PWB Offset Wellpath: WAKEMAN 20-17-1NBH PWP (REV-A.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#13 WAKEMAN 20-17-1NBH (293'FSL & 2203'FEL, SEC.20)		Well: WAKEMAN 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
13.00	13.00	0.00	0.00	13.00	13.00	-0.29	-135.01	-90.13	135.02	1.40	223.69	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.29	-135.01	-90.13	135.02	1.73	144.42	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.29	-135.01	-90.13	135.02	2.31	89.16	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.29	-135.01	-90.13	135.02	2.91	63.57	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.29	-135.01	-90.13	135.02	3.53	49.21	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.29	-135.01	-90.13	135.02	4.15	40.09	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.29	-135.01	-90.13	135.02	4.77	33.80	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.29	-135.01	-90.13	135.02	5.40	29.20	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.29	-135.01	-90.13	135.02	6.02	25.71	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	-0.29	-135.01	-90.13	135.02	6.65	22.95	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	-0.29	-135.01	-90.13	135.02	7.28	20.73	PASS
1100.00	1100.00	0.00	0.00	1100.00	1100.00	-0.29	-135.01	-90.13	135.02	7.82	19.12	PASS
1113.00†	1113.00	-0.01	0.03	1113.00	1113.00	-0.29	-135.01	151.24	135.04	7.90	18.91	PASS
1213.00†	1212.97	-1.07	1.96	1212.40	1212.40	-0.30	-135.04	151.66	137.00	8.60	17.46	PASS
1313.00†	1312.80	-3.79	6.95	1307.61	1307.58	-0.78	-136.98	152.42	144.05	9.57	16.33	PASS
1413.00†	1412.38	-8.19	14.99	1401.90	1401.73	-2.00	-141.92	153.29	157.39	10.69	15.84	PASS
1513.00†	1511.57	-14.24	26.08	1494.73	1494.21	-3.93	-149.72	154.13	176.96	11.75	16.09	PASS
1532.69	1531.05	-15.63	28.62	1512.79	1512.17	-4.39	-151.58	154.28	181.53	11.93	16.25	PASS
1613.00†	1610.44	-21.42	39.23	1585.86	1584.69	-6.52	-160.20	154.91	201.64	12.54	17.11	PASS
1713.00†	1709.30	-28.64	52.43	1675.54	1673.36	-9.74	-173.24	155.32	229.30	13.29	18.30	PASS
1813.00†	1808.17	-35.85	65.64	1763.65	1760.02	-13.56	-188.67	155.45	259.79	12.84	21.43	PASS
1913.00†	1907.03	-43.06	78.85	1850.07	1844.50	-17.92	-206.31	155.36	293.01	14.62	21.01	PASS
2013.00†	2005.89	-50.27	92.05	1934.69	1926.66	-22.78	-225.97	155.15	328.89	15.32	22.47	PASS
2113.00†	2104.75	-57.48	105.26	2017.42	2006.38	-28.09	-247.46	154.85	367.36	16.00	23.97	PASS
2213.00†	2203.61	-64.70	118.46	2098.20	2083.56	-33.81	-270.59	154.50	408.32	16.67	25.54	PASS
2313.00†	2302.47	-71.91	131.67	2187.99	2168.91	-40.49	-297.63	154.12	450.69	17.30	27.12	PASS
2413.00†	2401.33	-79.12	144.87	2278.53	2254.99	-47.24	-324.90	153.80	493.07	17.99	28.49	PASS
2513.00†	2500.20	-86.33	158.08	2369.07	2341.06	-53.98	-352.17	153.53	535.47	18.66	29.79	PASS
2613.00†	2599.06	-93.54	171.28	2459.61	2427.13	-60.72	-379.45	153.30	577.87	19.35	30.96	PASS
2713.00†	2697.92	-100.75	184.49	2550.15	2513.21	-67.46	-406.72	153.10	620.28	20.06	32.02	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-1NBH PWB Offset Wellpath: WAKEMAN 20-17-1NBH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#13 WAKEMAN 20-17-1NBH (293'FSL & 2203'FEL, SEC.20) Well: WAKEMAN 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
2813.00†	2796.78	-107.97	197.69	2640.70	2599.28	-74.20	-433.99	152.93	662.70	20.77	32.99	PASS
2913.00†	2895.64	-115.18	210.90	2731.24	2685.36	-80.94	-461.26	152.77	705.12	21.50	33.87	PASS
3013.00†	2994.50	-122.39	224.11	2821.78	2771.43	-87.69	-488.53	152.64	747.54	22.24	34.68	PASS
3113.00†	3093.37	-129.60	237.31	2912.32	2857.50	-94.43	-515.80	152.52	789.97	22.99	35.42	PASS
3213.00†	3192.23	-136.81	250.52	3002.86	2943.58	-101.17	-543.08	152.41	832.40	23.75	36.10	PASS
3313.00†	3291.09	-144.03	263.72	3093.41	3029.65	-107.91	-570.35	152.31	874.83	24.51	36.73	PASS
3413.00†	3389.95	-151.24	276.93	3183.95	3115.72	-114.65	-597.62	152.22	917.26	25.28	37.30	PASS
3513.00†	3488.81	-158.45	290.13	3274.49	3201.80	-121.39	-624.89	152.14	959.70	26.05	37.84	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: WAKEMAN 20-17-1NBH PWB Offset Wellpath: WAKEMAN 20-17-1NBH PWP (REV-A.0)

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: WAKEMAN 20-17-1NBH PWB Offset Wellpath: WAKEMAN 20-17-1NBH PWP (REV-A.0)

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]
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1795.62	-0.18	-82.31	-4.76	-100.83
8.5in Open Hole	1800.00	17835.13	16035.13	1795.62	N/A	-4.76	-100.83	N/A	N/A

SURVEY PROGRAM - Offset Wellbore: WAKEMAN 20-17-1NBH PWB Offset Wellpath: WAKEMAN 20-17-1NBH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17835.13	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-1NBH PWB

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WAKEMAN 20-17-4NCH PWP (REV-B.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: WAKEMAN 20-17-1NBH PWB Offset Wellpath: WAKEMAN 20-17-1NBH PWP (REV-A.0)	
MD Reference: RIG (13'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	13.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: STATE #11-16 AWB Offset Wellpath: STATE #11-16 AWP

Facility: SEC.16-T01S-R65W Slot: SLOT#01 EX STATE #11-16 (990'FNL & 990'FWL, SEC.16,OG,PR,8173) Well: STATE #11-16 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
13.00	13.00	0.00	0.00	-13.00	23.00	9345.20	2921.39	17.36	9791.19	25.40	397.95	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: STATE #11-16 AWB Offset Wellpath: STATE #11-16 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: STATE #11-16 AWB Offset Wellpath: STATE #11-16 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	1549.00	1549.00	23.00	1572.00	5704.99	1754.34	5704.99	1754.34
8.625in Casing Surface	0.00	1549.00	1549.00	23.00	1572.00	5704.99	1754.34	5704.99	1754.34
7.875in Open Hole	1549.00	8173.00	6624.00	1572.00	8196.00	5704.99	1754.34	5704.99	1754.34
4.5in Casing Production	0.00	8173.00	8173.00	23.00	8196.00	5704.99	1754.34	5704.99	1754.34

WELLPATH COMPOSITION - Offset Wellbore: STATE #11-16 AWB Offset Wellpath: STATE #11-16 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8173.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL COGCC <8173>	STATE #11-16 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: STATE #11-16 AWB Offset Wellpath: STATE #11-16 AWP

MD Reference: Rig on SLOT#01 EX. STATE #11-16 (990'FNL & 990'FWL, SEC.16,OG,PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-1NCH PWB Offset Wellpath: WAKEMAN 20-17-1NCH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#14 WAKEMAN 20-17-1NCH (293'FSL & 2218'FEL, SEC.20) Well: WAKEMAN 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
13.00	13.00	0.00	0.00	16.00	13.00	-0.32	-149.96	-90.12	149.96	1.40	248.59	PASS
113.00†	113.00	0.00	0.00	116.00	113.00	-0.32	-149.96	-90.12	149.96	1.73	160.47	PASS
213.00†	213.00	0.00	0.00	216.00	213.00	-0.32	-149.96	-90.12	149.96	2.31	99.07	PASS
313.00†	313.00	0.00	0.00	316.00	313.00	-0.32	-149.96	-90.12	149.96	2.91	70.64	PASS
413.00†	413.00	0.00	0.00	416.00	413.00	-0.32	-149.96	-90.12	149.96	3.53	54.68	PASS
513.00†	513.00	0.00	0.00	516.00	513.00	-0.32	-149.96	-90.12	149.96	4.15	44.54	PASS
613.00†	613.00	0.00	0.00	616.00	613.00	-0.32	-149.96	-90.12	149.96	4.77	37.56	PASS
713.00†	713.00	0.00	0.00	716.00	713.00	-0.32	-149.96	-90.12	149.96	5.40	32.45	PASS
813.00†	813.00	0.00	0.00	816.00	813.00	-0.32	-149.96	-90.12	149.96	6.02	28.57	PASS
913.00†	913.00	0.00	0.00	916.00	913.00	-0.32	-149.96	-90.12	149.96	6.65	25.51	PASS
1013.00†	1013.00	0.00	0.00	1015.22	1012.22	-0.33	-150.00	-90.13	150.00	7.27	23.06	PASS
1100.00	1100.00	0.00	0.00	1097.93	1094.92	-0.65	-151.60	-90.25	151.68	7.89	21.29	PASS
1113.00†	1113.00	-0.01	0.03	1110.28	1107.26	-0.74	-152.04	151.08	152.17	7.98	21.08	PASS
1213.00†	1212.97	-1.07	1.96	1204.96	1201.79	-1.78	-157.14	151.01	159.49	8.99	19.38	PASS
1313.00†	1312.80	-3.79	6.95	1298.70	1295.16	-3.42	-165.20	151.21	173.05	10.14	18.44	PASS
1413.00†	1412.38	-8.19	14.99	1390.95	1386.74	-5.63	-176.06	151.58	192.78	11.19	18.49	PASS
1513.00†	1511.57	-14.24	26.08	1481.21	1475.95	-8.36	-189.47	152.04	218.55	12.18	19.13	PASS
1532.69	1531.05	-15.63	28.62	1498.71	1493.20	-8.95	-192.39	152.13	224.33	12.36	19.34	PASS
1613.00†	1610.44	-21.42	39.23	1569.34	1562.60	-11.56	-205.21	152.63	249.28	12.89	20.56	PASS
1713.00†	1709.30	-28.64	52.43	1655.72	1647.01	-15.22	-223.17	153.00	282.88	13.65	21.95	PASS
1813.00†	1808.17	-35.85	65.64	1740.27	1729.06	-19.28	-243.16	153.17	319.20	14.30	23.51	PASS
1913.00†	1907.03	-43.06	78.85	1822.90	1808.63	-23.72	-264.98	153.20	358.15	14.94	25.12	PASS
2013.00†	2005.89	-50.27	92.05	1903.55	1885.65	-28.49	-288.43	153.14	399.63	15.61	26.76	PASS
2113.00†	2104.75	-57.48	105.26	1982.17	1960.04	-33.56	-313.33	153.01	443.54	16.27	28.45	PASS
2213.00†	2203.61	-64.70	118.46	2062.68	2035.52	-39.14	-340.77	152.84	489.69	16.92	30.16	PASS
2313.00†	2302.47	-71.91	131.67	2151.10	2118.24	-45.37	-371.39	152.66	536.39	17.56	31.79	PASS
2413.00†	2401.33	-79.12	144.87	2239.51	2200.95	-51.60	-402.01	152.51	583.09	18.22	33.26	PASS
2513.00†	2500.20	-86.33	158.08	2327.93	2283.66	-57.83	-432.63	152.39	629.79	18.90	34.58	PASS
2613.00†	2599.06	-93.54	171.28	2416.35	2366.37	-64.06	-463.25	152.28	676.50	19.60	35.78	PASS
2713.00†	2697.92	-100.75	184.49	2504.76	2449.08	-70.29	-493.87	152.18	723.20	20.31	36.86	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-1NCH PWB Offset Wellpath: WAKEMAN 20-17-1NCH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#14 WAKEMAN 20-17-1NCH (293'FSL & 2218'FEL, SEC.20) Well: WAKEMAN 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
2813.00†	2796.78	-107.97	197.69	2593.18	2531.79	-76.52	-524.49	152.10	769.91	21.03	37.84	PASS
2913.00†	2895.64	-115.18	210.90	2681.60	2614.50	-82.75	-555.11	152.03	816.62	21.77	38.74	PASS
3013.00†	2994.50	-122.39	224.11	2770.01	2697.21	-88.98	-585.73	151.96	863.33	22.52	39.56	PASS
3113.00†	3093.37	-129.60	237.31	2858.43	2779.92	-95.21	-616.35	151.90	910.04	23.27	40.30	PASS
3213.00†	3192.23	-136.81	250.52	2946.84	2862.63	-101.44	-646.97	151.85	956.75	24.03	40.99	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: WAKEMAN 20-17-1NCH PWB Offset Wellpath: WAKEMAN 20-17-1NCH PWP (REV-A.0)

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: WAKEMAN 20-17-1NCH PWB Offset Wellpath: WAKEMAN 20-17-1NCH PWP (REV-A.0)

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]
9.625in Casing Surface	16.00	1800.00	1784.00	16.00	1789.64	-0.20	-91.41	-6.94	-124.56
8.5in Open Hole	1800.00	18013.26	16213.26	1789.64	N/A	-6.94	-124.56	N/A	N/A

SURVEY PROGRAM - Offset Wellbore: WAKEMAN 20-17-1NCH PWB Offset Wellpath: WAKEMAN 20-17-1NCH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	18013.26	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-1NCH PWB

Clearance Report
WAKEMAN 20-17-4NCH PWP (REV-B.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: WAKEMAN 20-17-1NCH PWB Offset Wellpath: WAKEMAN 20-17-1NCH PWP (REV-A.0)	
MD Reference: RIG (13'KB) (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

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-1NAH PWB Offset Wellpath: WAKEMAN 20-17-1NAH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#15 WAKEMAN 20-17-1NAH (293'FSL & 2233'FEL, SEC.20) Well: WAKEMAN 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
13.00	13.00	0.00	0.00	16.00	13.00	-0.31	-165.01	-90.11	165.02	1.40	273.69	PASS
113.00†	113.00	0.00	0.00	116.00	113.00	-0.31	-165.01	-90.11	165.02	1.73	176.66	PASS
213.00†	213.00	0.00	0.00	216.00	213.00	-0.31	-165.01	-90.11	165.02	2.31	109.07	PASS
313.00†	313.00	0.00	0.00	316.00	313.00	-0.31	-165.01	-90.11	165.02	2.91	77.76	PASS
413.00†	413.00	0.00	0.00	416.00	413.00	-0.31	-165.01	-90.11	165.02	3.53	60.20	PASS
513.00†	513.00	0.00	0.00	516.00	513.00	-0.31	-165.01	-90.11	165.02	4.15	49.04	PASS
613.00†	613.00	0.00	0.00	616.00	613.00	-0.31	-165.01	-90.11	165.02	4.77	41.35	PASS
713.00†	713.00	0.00	0.00	716.00	713.00	-0.31	-165.01	-90.11	165.02	5.40	35.73	PASS
813.00†	813.00	0.00	0.00	816.00	813.00	-0.31	-165.01	-90.11	165.02	6.02	31.45	PASS
913.00†	913.00	0.00	0.00	915.14	912.14	-0.32	-165.05	-90.11	165.06	6.65	28.11	PASS
1013.00†	1013.00	0.00	0.00	1009.73	1006.71	-0.71	-167.08	-90.24	167.20	7.37	25.35	PASS
1100.00	1100.00	0.00	0.00	1091.84	1088.70	-1.53	-171.32	-90.51	171.70	8.19	23.12	PASS
1113.00†	1113.00	-0.01	0.03	1104.09	1100.91	-1.69	-172.15	150.79	172.61	8.32	22.86	PASS
1213.00†	1212.97	-1.07	1.96	1197.80	1194.27	-3.24	-180.20	150.54	183.13	9.30	21.46	PASS
1313.00†	1312.80	-3.79	6.95	1290.31	1286.11	-5.34	-191.08	150.56	199.83	10.43	20.66	PASS
1413.00†	1412.38	-8.19	14.99	1381.09	1375.83	-7.95	-204.59	150.77	222.60	11.43	20.88	PASS
1513.00†	1511.57	-14.24	26.08	1469.66	1462.91	-11.00	-220.45	151.07	251.30	12.41	21.57	PASS
1532.69	1531.05	-15.63	28.62	1486.81	1479.71	-11.65	-223.82	151.14	257.64	12.57	21.82	PASS
1613.00†	1610.44	-21.42	39.23	1555.93	1547.21	-14.47	-238.43	151.58	284.85	13.14	23.03	PASS
1713.00†	1709.30	-28.64	52.43	1640.35	1629.13	-18.33	-258.43	151.94	321.20	13.82	24.60	PASS
1813.00†	1808.17	-35.85	65.64	1722.85	1708.58	-22.54	-280.25	152.13	360.19	14.46	26.23	PASS
1913.00†	1907.03	-43.06	78.85	1803.37	1785.47	-27.06	-303.71	152.21	401.73	15.08	27.89	PASS
2013.00†	2005.89	-50.27	92.05	1881.86	1859.75	-31.87	-328.62	152.20	445.71	15.74	29.60	PASS
2113.00†	2104.75	-57.48	105.26	1958.27	1931.37	-36.91	-354.77	152.13	492.05	16.46	31.19	PASS
2213.00†	2203.61	-64.70	118.46	2037.11	2004.54	-42.47	-383.58	152.02	540.52	17.04	33.06	PASS
2313.00†	2302.47	-71.91	131.67	2124.29	2085.28	-48.70	-415.87	151.90	589.50	17.68	34.69	PASS
2413.00†	2401.33	-79.12	144.87	2211.47	2166.02	-54.92	-448.16	151.81	638.47	18.35	36.15	PASS
2513.00†	2500.20	-86.33	158.08	2298.65	2246.76	-61.15	-480.45	151.72	687.45	19.04	37.47	PASS
2613.00†	2599.06	-93.54	171.28	2385.84	2327.50	-67.38	-512.74	151.65	736.42	19.74	38.66	PASS
2713.00†	2697.92	-100.75	184.49	2473.02	2408.25	-73.61	-545.04	151.59	785.40	20.45	39.74	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-1NAH PWB Offset Wellpath: WAKEMAN 20-17-1NAH PWP (REV-A.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#15 WAKEMAN 20-17-1NAH (293'FSL & 2233'FEL, SEC.20) Well: WAKEMAN 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
2813.00†	2796.78	-107.97	197.69	2560.20	2488.99	-79.84	-577.33	151.53	834.38	21.18	40.72	PASS
2913.00†	2895.64	-115.18	210.90	2647.38	2569.73	-86.07	-609.62	151.48	883.36	21.92	41.61	PASS
3013.00†	2994.50	-122.39	224.11	2734.56	2650.47	-92.29	-641.91	151.43	932.34	22.67	42.42	PASS
3113.00†	3093.37	-129.60	237.31	2821.75	2731.21	-98.52	-674.20	151.39	981.32	23.43	43.15	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: WAKEMAN 20-17-1NAH PWB Offset Wellpath: WAKEMAN 20-17-1NAH PWP (REV-A.0)

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: WAKEMAN 20-17-1NAH PWB Offset Wellpath: WAKEMAN 20-17-1NAH PWP (REV-A.0)

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]
9.625in Casing Surface	16.00	1800.00	1784.00	16.00	1785.27	-0.19	-100.59	-8.28	-142.56
8.5in Open Hole	1800.00	17822.97	16022.97	1785.27	7230.00	-8.28	-142.56	3041.21	-907.14

SURVEY PROGRAM - Offset Wellbore: WAKEMAN 20-17-1NAH PWB Offset Wellpath: WAKEMAN 20-17-1NAH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	17886.70	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-1NAH PWB

Clearance Report
WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

OFFSET WELLPATH REFERENCE - Offset Wellbore: WAKEMAN 20-17-1NAH PWB Offset Wellpath: WAKEMAN 20-17-1NAH PWP (REV-A.0)	
MD Reference: RIG (13'KB) (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

WAKEMAN 20-17-4NCH PWP (REV-B.0)
Closest Approach
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-1CDH PWB Offset Wellpath: WAKEMAN 20-17-1CDH PWP (REV-B.0)

Facility: SEC.20-T01S-R65W Slot: SLOT#16 WAKEMAN 20-17-1CDH (293'FSL & 2248'FEL, SEC.20) Well: WAKEMAN 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
13.00	13.00	0.00	0.00	13.00	13.00	-0.41	-179.96	-90.13	179.96	1.40	298.60	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.41	-179.96	-90.13	179.96	1.73	192.73	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.41	-179.96	-90.13	179.96	2.31	118.99	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.41	-179.96	-90.13	179.96	2.91	84.84	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.41	-179.96	-90.13	179.96	3.53	65.67	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.41	-179.96	-90.13	179.96	4.15	53.50	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.41	-179.96	-90.13	179.96	4.77	45.11	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.41	-179.96	-90.13	179.96	5.40	38.98	PASS
813.00†	813.00	0.00	0.00	812.24	812.24	-0.42	-179.99	-90.13	179.99	6.02	34.34	PASS
913.00†	913.00	0.00	0.00	906.36	906.34	-0.75	-181.90	-90.24	182.03	6.75	30.48	PASS
1013.00†	1013.00	0.00	0.00	1000.25	1000.09	-1.61	-186.85	-90.49	187.30	7.73	26.93	PASS
1100.00	1100.00	0.00	0.00	1081.60	1081.14	-2.78	-193.58	-90.82	194.52	8.53	25.06	PASS
1113.00†	1113.00	-0.01	0.03	1093.71	1093.20	-2.98	-194.78	150.47	195.83	8.65	24.85	PASS
1213.00†	1212.97	-1.07	1.96	1186.31	1185.14	-4.86	-205.58	150.14	209.43	9.61	23.69	PASS
1313.00†	1312.80	-3.79	6.95	1277.45	1275.24	-7.20	-219.07	150.08	229.14	10.63	23.23	PASS
1413.00†	1412.38	-8.19	14.99	1366.64	1362.95	-9.96	-234.99	150.19	254.83	11.67	23.38	PASS
1513.00†	1511.57	-14.24	26.08	1453.42	1447.77	-13.09	-253.06	150.41	286.35	12.60	24.21	PASS
1532.69	1531.05	-15.63	28.62	1470.19	1464.10	-13.75	-256.85	150.46	293.22	12.76	24.45	PASS
1613.00†	1610.44	-21.42	39.23	1537.76	1529.63	-16.56	-273.04	150.89	322.59	13.31	25.72	PASS
1713.00†	1709.30	-28.64	52.43	1620.15	1609.00	-20.34	-294.84	151.25	361.57	13.99	27.35	PASS
1813.00†	1808.17	-35.85	65.64	1700.57	1685.81	-24.41	-318.28	151.48	403.11	14.61	29.03	PASS
1913.00†	1907.03	-43.06	78.85	1778.95	1760.01	-28.72	-343.16	151.60	447.11	15.27	30.75	PASS
2013.00†	2005.89	-50.27	92.05	1855.26	1831.56	-33.26	-369.30	151.65	493.48	15.96	32.30	PASS
2113.00†	2104.75	-57.48	105.26	1929.48	1900.45	-37.98	-396.51	151.64	542.12	16.50	34.27	PASS
2213.00†	2203.61	-64.70	118.46	2016.22	1980.52	-43.67	-429.34	151.61	591.86	17.14	35.98	PASS
2313.00†	2302.47	-71.91	131.67	2102.97	2060.62	-49.37	-462.18	151.59	641.60	17.79	37.52	PASS
2413.00†	2401.33	-79.12	144.87	2189.72	2140.71	-55.06	-495.01	151.56	691.35	18.46	38.90	PASS
2513.00†	2500.20	-86.33	158.08	2276.47	2220.81	-60.76	-527.85	151.54	741.09	19.15	40.14	PASS
2613.00†	2599.06	-93.54	171.28	2363.22	2300.90	-66.45	-560.69	151.53	790.83	19.86	41.26	PASS
2713.00†	2697.92	-100.75	184.49	2449.97	2380.99	-72.15	-593.52	151.51	840.57	20.58	42.27	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

WAKEMAN 20-17-4NCH PWP (REV-B.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: WAKEMAN 20-17-1CDH PWB Offset Wellpath: WAKEMAN 20-17-1CDH PWP (REV-B.0)												
Facility: SEC.20-T01S-R65W		Slot: SLOT#16 WAKEMAN 20-17-1CDH (293'FSL & 2248'FEL, SEC.20)		Well: WAKEMAN 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
2813.00†	2796.78	-107.97	197.69	2536.72	2461.09	-77.84	-626.36	151.50	890.31	21.31	43.19	PASS
2913.00†	2895.64	-115.18	210.90	2623.47	2541.18	-83.54	-659.19	151.49	940.06	22.05	44.02	PASS
3013.00†	2994.50	-122.39	224.11	2710.22	2621.28	-89.24	-692.03	151.48	989.80	22.80	44.77	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: WAKEMAN 20-17-1CDH PWB Offset Wellpath: WAKEMAN 20-17-1CDH PWP (REV-B.0)			
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: WAKEMAN 20-17-1CDH PWB Offset Wellpath: WAKEMAN 20-17-1CDH PWP (REV-B.0)									
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]
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1779.82	-0.25	-109.70	-9.25	-161.59
8.5in Open Hole	1800.00	18287.31	16487.31	1779.82	7638.00	-9.25	-161.59	3041.25	-942.17

SURVEY PROGRAM - Offset Wellbore: WAKEMAN 20-17-1CDH PWB Offset Wellpath: WAKEMAN 20-17-1CDH PWP (REV-B.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	18287.32	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		WAKEMAN 20-17-1CDH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: WAKEMAN 20-17-1CDH PWB Offset Wellpath: WAKEMAN 20-17-1CDH PWP (REV-B.0)	
MD Reference: RIG (13'KB) (RKB)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	13.00ft

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WAKEMAN 20-17-4NCH PWP (REV-B.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: COLLINS HH #20-3J AWB Offset Wellpath: COLLINS HH #20-3J AWP												
Facility: SEC.20-T1S-R65W		Slot: SLOT#02 EX. COLLINS HH #20-3J (814'FNL & 1886'FWL, SEC.20, 8163, PR)		Well: COLLINS HH #20-3J		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
13.00	13.00	0.00	0.00	-13.00	49.00	4193.75	-1414.89	-18.64	4426.14	25.40	179.88	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: COLLINS HH #20-3J AWB Offset Wellpath: COLLINS HH #20-3J AWP			
Slot Surface Uncertainty @1SD	Horizontal	0.100ft	Vertical
Facility Surface Uncertainty @1SD	Horizontal	8.200ft	Vertical
			1.000ft
			3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: COLLINS HH #20-3J AWB Offset Wellpath: COLLINS HH #20-3J 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	1529.00	1529.00	49.00	1578.00	2552.52	-874.17	2552.52	-874.17
8.625in Casing Surface	0.00	1529.00	1529.00	49.00	1578.00	2552.52	-874.17	2552.52	-874.17
7.875in Open Hole	1529.00	8141.00	6612.00	1578.00	8190.00	2552.52	-874.17	2552.52	-874.17
4.5in Casing Production	0.00	8141.00	8141.00	49.00	8190.00	2552.52	-874.17	2552.52	-874.17

WELLPATH COMPOSITION - Offset Wellbore: COLLINS HH #20-3J AWB Offset Wellpath: COLLINS HH #20-3J AWP			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment
0.00	8163.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL COGCC <8163>
			COLLINS HH #20-3J AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: COLLINS HH #20-3J AWB Offset Wellpath: COLLINS HH #20-3J AWP	
MD Reference: Rig on SLOT#02 EX. COLLINS HH #20-3J (814'FNL & 1886'FWL, SEC.20, OG) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft

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WAKEMAN 20-17-4NCH PWP (REV-B.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: AMOCO #24-17 Offset Wellpath: AMOCO #24-17 AWP												
Facility: SEC.17-T1S-R65W Slot: SLOT#02 EX. AMOCO #24-17 (990'FSL & 1360'FWL,SEC.17,OG,PR,8130)				Well: AMOCO #24-17		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
13.00	13.00	0.00	0.00	-13.00	73.00	5966.63	-1952.50	-18.12	6278.26	25.40	255.17	PASS
C-C Clearance Distance Cutoff: 1000.00 ft												

POSITIONAL UNCERTAINTY - Offset Wellbore: AMOCO #24-17 Offset Wellpath: AMOCO #24-17 AWP			
Slot Surface Uncertainty @1SD		Horizontal	0.100ft
Facility Surface Uncertainty @1SD		Horizontal	8.200ft
		Vertical	1.000ft
		Vertical	3.000ft

HOLE & CASING SECTIONS - Offset Wellbore: AMOCO #24-17 Offset Wellpath: AMOCO #24-17 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	218.00	218.00	73.00	291.00	3631.76	-1206.78	3631.76	-1206.78
8.625in Casing Surface	0.00	218.00	218.00	73.00	291.00	3631.76	-1206.78	3631.76	-1206.78
7.875in Open Hole	218.00	8129.00	7911.00	291.00	8202.00	3631.76	-1206.78	3631.76	-1206.78
4.5in Casing Production	0.00	8129.00	8129.00	73.00	8202.00	3631.76	-1206.78	3631.76	-1206.78

WELLPATH COMPOSITION - Offset Wellbore: AMOCO #24-17 Offset Wellpath: AMOCO #24-17 AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8130.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL COGCC <8130>	AMOCO #24-17

OFFSET WELLPATH REFERENCE - Offset Wellbore: AMOCO #24-17 Offset Wellpath: AMOCO #24-17 AWP	
MD Reference: Rig on SLOT#02 EX. AMOCO #24-17 (990'FSL & 1360'FWL,SEC.17,OG,PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft

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WAKEMAN 20-17-4NCH PWP (REV-B.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: STATE #22-16 AWB Offset Wellpath: STATE #22-16 AWP												
Facility: SEC.16-T01S-R65W		Slot: SLOT#02 EX STATE #22-16 (1800'FNL & 2080'FWL, SEC.16, PR,8200)				Well: STATE #22-16		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
13.00	13.00	0.00	0.00	-6.00	13.00	8531.08	4025.25	25.26	9433.03	25.40	383.40	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: STATE #22-16 AWB Offset Wellpath: STATE #22-16 AWP			
Slot Surface Uncertainty @1SD		Horizontal	0.100ft
Facility Surface Uncertainty @1SD		Horizontal	8.200ft

WELLPATH COMPOSITION - Offset Wellbore: STATE #22-16 AWB Offset Wellpath: STATE #22-16 AWP			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment
0.00	8200.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8200>

OFFSET WELLPATH REFERENCE - Offset Wellbore: STATE #22-16 AWB Offset Wellpath: STATE #22-16 AWP	
MD Reference: Rig on SLOT#02 EX STATE #22-16 (1800'FNL & 2080'FWL, SEC.16, PR,8200) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft

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WAKEMAN 20-17-4NCH PWP (REV-B.0)
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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: AMOCO #17-32 AWB Offset Wellpath: AMOCO #17-32 AWP

Facility: SEC.17-T1S-R65W Slot: SLOT#01 EX. AMOCO #17-32 (2013'FSL & 464'FWL,SEC.17,OG,PR, 8140) Well: AMOCO #17-32 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
13.00	13.00	0.00	0.00	-13.00	81.00	6832.26	-2907.89	-23.06	7425.65	25.40	301.81	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: AMOCO #17-32 AWB Offset Wellpath: AMOCO #17-32 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: AMOCO #17-32 AWB Offset Wellpath: AMOCO #17-32 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]
11in Open Hole	0.00	1450.00	1450.00	81.00	1531.00	4156.82	-1791.50	4156.82	-1791.50
8.625in Casing Surface	0.00	1450.00	1450.00	81.00	1531.00	4156.82	-1791.50	4156.82	-1791.50
7.875in Open Hole	1450.00	8150.00	6700.00	1531.00	N/A	4156.82	-1791.50	N/A	N/A
4.5in Casing Production	0.00	8150.00	8150.00	81.00	N/A	4156.82	-1791.50	N/A	N/A

WELLPATH COMPOSITION - Offset Wellbore: AMOCO #17-32 AWB Offset Wellpath: AMOCO #17-32 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8140.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL COGCC <8140>	AMOCO #17-32 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: AMOCO #17-32 AWB Offset Wellpath: AMOCO #17-32 AWP

MD Reference: Rig on SLOT#03 EX. AMOCO #17-32 (2013'FSL & 464'FWL, SEC.14, OG, PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft

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WAKEMAN 20-17-4NCH PWP (REV-B.0)
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REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: PUTNAM 41-18 AWB Offset Wellpath: PUTNAM 41-18 AWP												
Facility: SEC.18-T01S-R65W		Slot: SLOT#01 EX PUTNAM 41-18 (990'FNL & 990'FEL, SEC.18, S1,8092')			Well: PUTNAM 41-18		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
13.00	13.00	0.00	0.00	-13.00	104.00	9200.22	-4397.57	-25.55	10197.59	25.40	414.49	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: PUTNAM 41-18 AWB Offset Wellpath: PUTNAM 41-18 AWP			
Slot Surface Uncertainty @1SD		Horizontal	0.100ft
Facility Surface Uncertainty @1SD		Horizontal	8.200ft

WELLPATH COMPOSITION - Offset Wellbore: PUTNAM 41-18 AWB Offset Wellpath: PUTNAM 41-18 AWP			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Wellbore
0.00	8092.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8092>

OFFSET WELLPATH REFERENCE - Offset Wellbore: PUTNAM 41-18 AWB Offset Wellpath: PUTNAM 41-18 AWP	
MD Reference: Rig on SLOT#01 EX PUTNAM 41-18 (990'FNL & 990'FEL, SEC.18, S1,8092') (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft

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REFERENCE WELLPATH IDENTIFICATION

Operator	PETROSHARE CORPORATION	Slot	SLOT#04 WAKEMAN 20-17-4NCH (293'FSL & 2068'FEL, SEC.20)
Area	COLORADO	Well	WAKEMAN 20-17-4NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	WAKEMAN 20-17-4NCH PWB
Facility	SEC.20-T01S-R65W		

CLEARANCE DATA - Offset Wellbore: COLLINS #14-20 AWB Offset Wellpath: COLLINS #14-20 AWP

Facility: SEC.20-T1S-R65W Slot: SLOT#01 EX. COLLINS #14-20 (990'FSL & 990'FWL, SEC.20, OG, PR, 8202) Well: COLLINS #14-20 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
13.00	13.00	0.00	0.00	-13.00	17.00	703.45	-2249.46	-72.63	2356.89	25.40	95.77	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: COLLINS #14-20 AWB Offset Wellpath: COLLINS #14-20 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: COLLINS #14-20 AWB Offset Wellpath: COLLINS #14-20 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	150.00	150.00	17.00	167.00	422.58	-1373.19	422.58	-1373.19
8.625in Casing Surface	0.00	150.00	150.00	17.00	167.00	422.58	-1373.19	422.58	-1373.19
7.875in Open Hole	150.00	8194.00	8044.00	167.00	8211.00	422.58	-1373.19	422.58	-1373.19
4.5in Casing Production	0.00	8194.00	8194.00	17.00	8211.00	422.58	-1373.19	422.58	-1373.19

WELLPATH COMPOSITION - Offset Wellbore: COLLINS #14-20 AWB Offset Wellpath: COLLINS #14-20 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8202.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL COGCC <8202>	COLLINS #14-20 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: COLLINS #14-20 AWB Offset Wellpath: COLLINS #14-20 AWP

MD Reference: Rig on SLOT#01 EX. COLLINS #14-20 (990'FSL & 990'FWL, SEC.20, OG, PR) (RT)	Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)
Ellipse Start MD	0.00ft