PETROSHARE

Location:	COLORADO	Slot:	SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)
Field:	ADAMS COUNTY (NAD83/ GRID NORTH)	Well:	ACKARD NORTH 2-35-3NCH
Facility:	SEC.02-T03S-R66W	Wellbore:	ACKARD NORTH 2-35-3NCH PWB

Plot reference wellpath is ACKARD NORTH 2-35-3NCH PWP (REV. A.0)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
True vertical depths are referenced to RIG (13'KB) (RKB)	* – Wellpath was transformed from a different geodetic datum
Measured depths are referenced to RIG (13'KB) (RKB)	North Reference: Grid north
RIG (13'KB) (RKB) to Mean Sea Level: 5213 feet	Scale: True distance
Mean Sea Level to Ground level (At Slot: SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: cantryat on 2017-10-24
	Database: WellArchitectDB

Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SEC.02-T03S-R66W			3211634.960	1207893.832	39°54'05.673"N	104°44'44.357"W
Slot	**Local N (ft)**	**Local E (ft)**	**Grid East (US ft)**	**Grid North (US ft)**	**Latitude**	**Longitude**
SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)	0.30	119.97	3211754.930	1207894.129	39°54'05.666"N	104°44'42.818"W

RIG (13'KB) (RKB) to Ground level (At Slot: SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02))	5213ft
Mean Sea Level to Ground level (At Slot: SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02))	0ft
RIG (13'KB) (RKB) to Mean Sea Level	5213ft

Hole and Casing Sections

Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (ft)	Wellbore
9.625in Casing Surface	13.00	1800.00	1787.00	13.00	1799.84	0.00	0.00	-5.12	4.75	ACKARD NORTH 2-35-3NCH PWB
8.5in Open Hole	1800.00	17807.10	16007.10	1799.84	7663.00	-5.12	4.75	9585.92	726.93	ACKARD NORTH 2-35-3NCH PWB

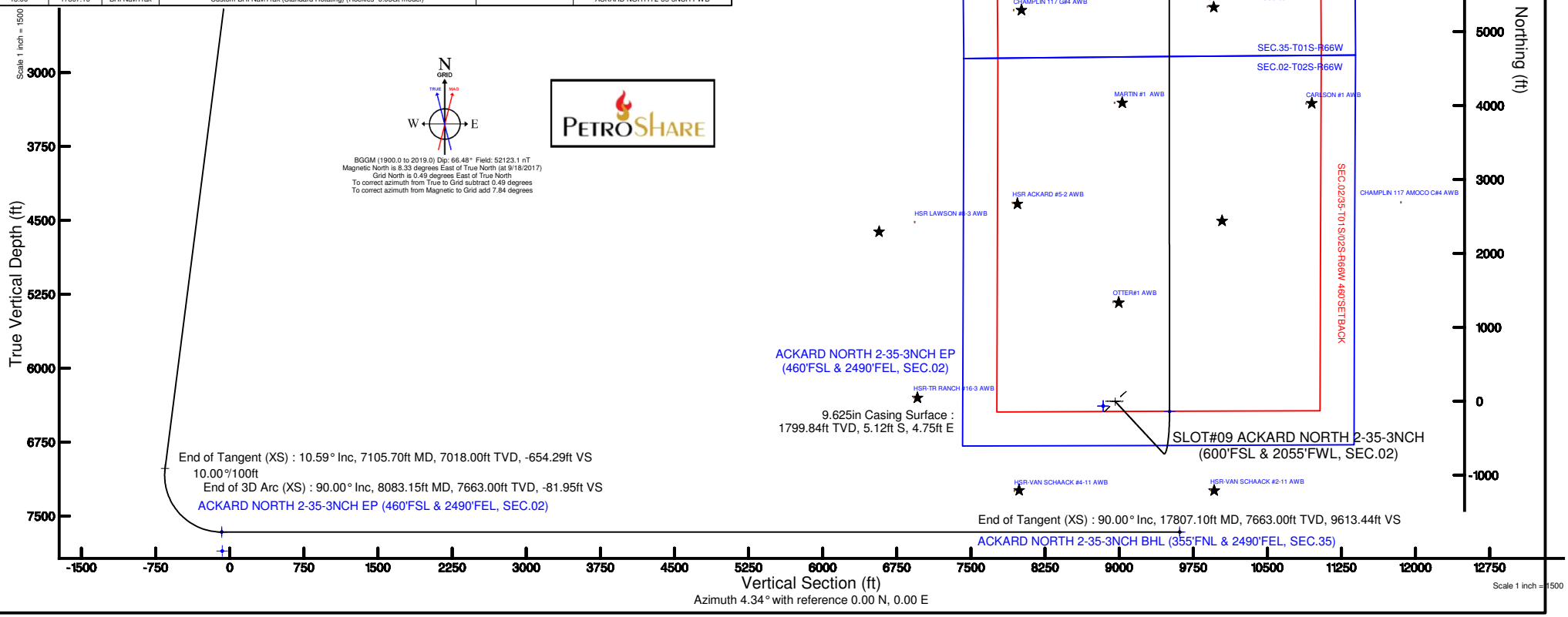
Survey Program

Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
13.00	17807.10	BHI NaviTrak	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-3NCH PWB

BAKER HUGHES

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	137.139	13.00	0.00	0.00	0.00	0.00
End of Tangent	1600.00	0.000	137.139	1600.00	0.00	0.00	0.00	0.00
End of Build (XS)	2129.27	10.585	137.139	2126.27	-35.74	33.16	2.00	-33.13
End of Tangent (XS)	7105.70	10.585	137.139	7018.00	-705.84	655.00	0.00	-654.29
End of 3D Arc (XS)	8083.15	90.000	359.944	7663.00	-138.03	736.36	10.00	-81.95
End of Tangent (XS)	17807.10	90.000	359.944	7663.00	9585.92	726.93	0.00	9613.44



Planned Wellpath Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

REFERENCE WELLPATH IDENTIFICATION			
Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

REPORT SETUP INFORMATION			
Projection System	**NAD83 / Lambert Colorado SP, Northern Zone (501), US feet**	Software System	**WellArchitect® 5.0**
North Reference	**Grid**	User	**Ingmjamr**
Scale	**0.999975**	Report Generated	**10/20/2017** at **10:34:25 AM**
Convergence at slot	**0.49° East**	Database/Source file	**Jamie/ACKARD_NORTH_2-35-3NCH_PWP__REV._A.0_.xml**

WELLPATH LOCATION						
	Local coordinates		**Grid coordinates**		**Geographic coordinates**	
	North[ft]	**East[ft]**	**Easting[US ft]**	**Northing[US ft]**	**Latitude**	**Longitude**
Slot Location	0.30	119.97	3211754.93	1207894.13	**39°54'05.666"N**	**104°44'42.818"W**
Facility Reference Pt			3211634.96	1207893.83	**39°54'05.673"N**	**104°44'44.357"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	**5213.00ft**
Horizontal Reference Pt	**Slot**	RIG (13'KB) (RKB) to Mean Sea Level	**5213.00ft**
Vertical Reference Pt	**RIG (13'KB) (RKB)**	RIG (13'KB) (RKB) to Ground Level at Slot (SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02))	**5213.00ft**
MD Reference Pt	**RIG (13'KB) (RKB)**	Section Origin	**N 0.00, E 0.00 ft**
Field Vertical Reference	**Mean Sea Level**	Section Azimuth	**4.34°**

Planned Wellpath Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

REFERENCE WELLPATH IDENTIFICATION			
Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	137.139	0.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
13.00	0.000	137.139	13.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	Tie On
113.00†	0.000	137.139	113.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
213.00†	0.000	137.139	213.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
313.00†	0.000	137.139	313.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
413.00†	0.000	137.139	413.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
500.00†	0.000	137.139	500.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	Fox Hills
513.00†	0.000	137.139	513.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
613.00†	0.000	137.139	613.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
713.00†	0.000	137.139	713.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
813.00†	0.000	137.139	813.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
913.00†	0.000	137.139	913.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
1013.00†	0.000	137.139	1013.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
1113.00†	0.000	137.139	1113.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
1213.00†	0.000	137.139	1213.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
1313.00†	0.000	137.139	1313.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
1413.00†	0.000	137.139	1413.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
1513.00†	0.000	137.139	1513.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	
1600.00	0.000	137.139	1600.00	0.00	0.00	0.00	39°54'05.666"N	104°44'42.818"W	0.00	End of Tangent
1613.00†	0.260	137.139	1613.00	-0.02	-0.02	0.02	39°54'05.666"N	104°44'42.818"W	2.00	
1713.00†	2.260	137.139	1712.97	-1.51	-1.63	1.52	39°54'05.650"N	104°44'42.799"W	2.00	
1813.00†	4.260	137.139	1812.80	-5.38	-5.80	5.38	39°54'05.608"N	104°44'42.749"W	2.00	
1913.00†	6.260	137.139	1912.38	-11.61	-12.52	11.62	39°54'05.541"N	104°44'42.670"W	2.00	
2013.00†	8.260	137.139	2011.57	-20.19	-21.78	20.22	39°54'05.449"N	104°44'42.561"W	2.00	
2113.00†	10.260	137.139	2110.26	-31.13	-33.58	31.16	39°54'05.332"N	104°44'42.422"W	2.00	
2129.27	10.585	137.139	2126.27	-33.13	-35.74	33.16	39°54'05.310"N	104°44'42.396"W	2.00	End of Build (XS)
2213.00†	10.585	137.139	2208.57	-43.58	-47.01	43.63	39°54'05.198"N	104°44'42.263"W	0.00	
2313.00†	10.585	137.139	2306.87	-56.06	-60.48	56.12	39°54'05.064"N	104°44'42.104"W	0.00	
2413.00†	10.585	137.139	2405.17	-68.54	-73.94	68.62	39°54'04.930"N	104°44'41.946"W	0.00	
2513.00†	10.585	137.139	2503.46	-81.02	-87.41	81.11	39°54'04.795"N	104°44'41.787"W	0.00	

Planned Wellpath Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

REFERENCE WELLPATH IDENTIFICATION			
Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2613.00†	10.585	137.139	2601.76	-93.51	-100.87	93.61	39°54'04.661"N	104°44'41.628"W	0.00	
2713.00†	10.585	137.139	2700.06	-105.99	-114.34	106.10	39°54'04.527"N	104°44'41.469"W	0.00	
2813.00†	10.585	137.139	2798.36	-118.47	-127.80	118.60	39°54'04.393"N	104°44'41.310"W	0.00	
2913.00†	10.585	137.139	2896.66	-130.95	-141.27	131.10	39°54'04.259"N	104°44'41.151"W	0.00	
3013.00†	10.585	137.139	2994.95	-143.43	-154.73	143.59	39°54'04.125"N	104°44'40.992"W	0.00	
3113.00†	10.585	137.139	3093.25	-155.92	-168.20	156.09	39°54'03.991"N	104°44'40.834"W	0.00	
3213.00†	10.585	137.139	3191.55	-168.40	-181.67	168.58	39°54'03.857"N	104°44'40.675"W	0.00	
3313.00†	10.585	137.139	3289.85	-180.88	-195.13	181.08	39°54'03.722"N	104°44'40.516"W	0.00	
3413.00†	10.585	137.139	3388.15	-193.36	-208.60	193.57	39°54'03.588"N	104°44'40.357"W	0.00	
3513.00†	10.585	137.139	3486.45	-205.84	-222.06	206.07	39°54'03.454"N	104°44'40.198"W	0.00	
3613.00†	10.585	137.139	3584.74	-218.33	-235.53	218.57	39°54'03.320"N	104°44'40.039"W	0.00	
3713.00†	10.585	137.139	3683.04	-230.81	-248.99	231.06	39°54'03.186"N	104°44'39.880"W	0.00	
3813.00†	10.585	137.139	3781.34	-243.29	-262.46	243.56	39°54'03.052"N	104°44'39.722"W	0.00	
3913.00†	10.585	137.139	3879.64	-255.77	-275.92	256.05	39°54'02.918"N	104°44'39.563"W	0.00	
4013.00†	10.585	137.139	3977.94	-268.25	-289.39	268.55	39°54'02.784"N	104°44'39.404"W	0.00	
4113.00†	10.585	137.139	4076.24	-280.74	-302.85	281.04	39°54'02.650"N	104°44'39.245"W	0.00	
4213.00†	10.585	137.139	4174.53	-293.22	-316.32	293.54	39°54'02.515"N	104°44'39.086"W	0.00	
4313.00†	10.585	137.139	4272.83	-305.70	-329.79	306.04	39°54'02.381"N	104°44'38.927"W	0.00	
4413.00†	10.585	137.139	4371.13	-318.18	-343.25	318.53	39°54'02.247"N	104°44'38.768"W	0.00	
4513.00†	10.585	137.139	4469.43	-330.66	-356.72	331.03	39°54'02.113"N	104°44'38.610"W	0.00	
4613.00†	10.585	137.139	4567.73	-343.15	-370.18	343.52	39°54'01.979"N	104°44'38.451"W	0.00	
4713.00†	10.585	137.139	4666.02	-355.63	-383.65	356.02	39°54'01.845"N	104°44'38.292"W	0.00	
4813.00†	10.585	137.139	4764.32	-368.11	-397.11	368.51	39°54'01.711"N	104°44'38.133"W	0.00	
4913.00†	10.585	137.139	4862.62	-380.59	-410.58	381.01	39°54'01.577"N	104°44'37.974"W	0.00	
5013.00†	10.585	137.139	4960.92	-393.07	-424.04	393.51	39°54'01.442"N	104°44'37.815"W	0.00	
5103.62†	10.585	137.139	5050.00	-404.39	-436.25	404.83	39°54'01.321"N	104°44'37.671"W	0.00	Sussex / Shannon
5113.00†	10.585	137.139	5059.22	-405.56	-437.51	406.00	39°54'01.308"N	104°44'37.656"W	0.00	
5213.00†	10.585	137.139	5157.52	-418.04	-450.98	418.50	39°54'01.174"N	104°44'37.498"W	0.00	
5313.00†	10.585	137.139	5255.81	-430.52	-464.44	430.99	39°54'01.040"N	104°44'37.339"W	0.00	
5413.00†	10.585	137.139	5354.11	-443.00	-477.91	443.49	39°54'00.906"N	104°44'37.180"W	0.00	

Planned Wellpath Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

REFERENCE WELLPATH IDENTIFICATION			
Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5513.00†	10.585	137.139	5452.41	-455.49	-491.37	455.98	39°54'00.772"N	104°44'37.021"W	0.00	
5613.00†	10.585	137.139	5550.71	-467.97	-504.84	468.48	39°54'00.638"N	104°44'36.862"W	0.00	
5713.00†	10.585	137.139	5649.01	-480.45	-518.30	480.98	39°54'00.504"N	104°44'36.703"W	0.00	
5813.00†	10.585	137.139	5747.30	-492.93	-531.77	493.47	39°54'00.369"N	104°44'36.545"W	0.00	
5913.00†	10.585	137.139	5845.60	-505.41	-545.23	505.97	39°54'00.235"N	104°44'36.386"W	0.00	
6013.00†	10.585	137.139	5943.90	-517.90	-558.70	518.46	39°54'00.101"N	104°44'36.227"W	0.00	
6113.00†	10.585	137.139	6042.20	-530.38	-572.16	530.96	39°53'59.967"N	104°44'36.068"W	0.00	
6213.00†	10.585	137.139	6140.50	-542.86	-585.63	543.45	39°53'59.833"N	104°44'35.909"W	0.00	
6313.00†	10.585	137.139	6238.80	-555.34	-599.10	555.95	39°53'59.699"N	104°44'35.750"W	0.00	
6413.00†	10.585	137.139	6337.09	-567.82	-612.56	568.45	39°53'59.565"N	104°44'35.591"W	0.00	
6513.00†	10.585	137.139	6435.39	-580.31	-626.03	580.94	39°53'59.431"N	104°44'35.433"W	0.00	
6613.00†	10.585	137.139	6533.69	-592.79	-639.49	593.44	39°53'59.297"N	104°44'35.274"W	0.00	
6713.00†	10.585	137.139	6631.99	-605.27	-652.96	605.93	39°53'59.162"N	104°44'35.115"W	0.00	
6813.00†	10.585	137.139	6730.29	-617.75	-666.42	618.43	39°53'59.028"N	104°44'34.956"W	0.00	
6913.00†	10.585	137.139	6828.59	-630.23	-679.89	630.92	39°53'58.894"N	104°44'34.797"W	0.00	
7013.00†	10.585	137.139	6926.88	-642.72	-693.35	643.42	39°53'58.760"N	104°44'34.638"W	0.00	
7105.70	10.585	137.139	7018.00	-654.29	-705.84	655.00	39°53'58.636"N	104°44'34.491"W	0.00	End of Tangent (XS)
7113.00†	10.066	134.272	7025.19	-655.15	-706.77	655.92	39°53'58.626"N	104°44'34.479"W	10.00	
7213.00†	7.825	67.460	7124.20	-657.69	-710.27	668.49	39°53'58.591"N	104°44'34.318"W	10.00	
7313.00†	14.835	28.593	7222.32	-642.90	-696.39	680.94	39°53'58.727"N	104°44'34.157"W	10.00	
7413.00†	24.038	16.486	7316.56	-611.24	-665.54	692.88	39°53'59.031"N	104°44'34.001"W	10.00	
7513.00†	33.682	10.929	7404.05	-563.66	-618.66	703.94	39°53'59.493"N	104°44'33.854"W	10.00	
7556.68†	37.946	9.317	7439.46	-538.24	-593.51	708.41	39°53'59.741"N	104°44'33.793"W	10.00	Niobrara A Chalk
7583.10†	40.535	8.484	7459.92	-521.58	-577.00	711.00	39°53'59.904"N	104°44'33.759"W	10.00	Niobrara A Marl
7613.00†	43.472	7.642	7482.14	-501.62	-557.19	713.80	39°54'00.100"N	104°44'33.720"W	10.00	
7713.00†	53.328	5.370	7548.46	-426.99	-482.98	722.15	39°54'00.832"N	104°44'33.605"W	10.00	
7793.54†	61.291	3.933	7591.92	-359.27	-415.47	727.60	39°54'01.499"N	104°44'33.528"W	10.00	Niobrara B Chalk
7813.00†	63.217	3.619	7600.98	-342.04	-398.29	728.74	39°54'01.669"N	104°44'33.511"W	10.00	
7847.15†	66.599	3.095	7615.46	-311.13	-367.42	730.54	39°54'01.974"N	104°44'33.485"W	10.00	Niobrara B Marl
7913.00†	73.124	2.152	7638.12	-249.36	-305.69	733.36	39°54'02.583"N	104°44'33.442"W	10.00	

Planned Wellpath Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

REFERENCE WELLPATH IDENTIFICATION			
Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8013.00†	83.041	0.833	7658.74	-151.76	-208.00	735.89	39°54'03.549"N	104°44'33.399"W	10.00	
8083.15	90.000	359.944	7663.00[1]	-81.95	-138.03	736.36	39°54'04.240"N	104°44'33.385"W	10.00	End of 3D Arc (XS)
8113.00†	90.000	359.944	7663.00	-52.19	-108.18	736.33	39°54'04.535"N	104°44'33.382"W	0.00	
8213.00†	90.000	359.944	7663.00	47.52	-8.18	736.23	39°54'05.523"N	104°44'33.372"W	0.00	
8313.00†	90.000	359.944	7663.00	147.22	91.82	736.14	39°54'06.511"N	104°44'33.363"W	0.00	
8413.00†	90.000	359.944	7663.00	246.93	191.82	736.04	39°54'07.500"N	104°44'33.353"W	0.00	
8513.00†	90.000	359.944	7663.00	346.63	291.82	735.94	39°54'08.488"N	104°44'33.343"W	0.00	
8613.00†	90.000	359.944	7663.00	446.34	391.82	735.84	39°54'09.476"N	104°44'33.334"W	0.00	
8713.00†	90.000	359.944	7663.00	546.05	491.82	735.75	39°54'10.464"N	104°44'33.324"W	0.00	
8813.00†	90.000	359.944	7663.00	645.75	591.82	735.65	39°54'11.453"N	104°44'33.314"W	0.00	
8913.00†	90.000	359.944	7663.00	745.46	691.82	735.55	39°54'12.441"N	104°44'33.304"W	0.00	
9013.00†	90.000	359.944	7663.00	845.17	791.82	735.46	39°54'13.429"N	104°44'33.295"W	0.00	
9113.00†	90.000	359.944	7663.00	944.87	891.82	735.36	39°54'14.417"N	104°44'33.285"W	0.00	
9213.00†	90.000	359.944	7663.00	1044.58	991.82	735.26	39°54'15.405"N	104°44'33.275"W	0.00	
9313.00†	90.000	359.944	7663.00	1144.29	1091.82	735.17	39°54'16.394"N	104°44'33.266"W	0.00	
9413.00†	90.000	359.944	7663.00	1243.99	1191.82	735.07	39°54'17.382"N	104°44'33.256"W	0.00	
9513.00†	90.000	359.944	7663.00	1343.70	1291.82	734.97	39°54'18.370"N	104°44'33.246"W	0.00	
9613.00†	90.000	359.944	7663.00	1443.40	1391.82	734.87	39°54'19.358"N	104°44'33.236"W	0.00	
9713.00†	90.000	359.944	7663.00	1543.11	1491.82	734.78	39°54'20.346"N	104°44'33.227"W	0.00	
9813.00†	90.000	359.944	7663.00	1642.82	1591.82	734.68	39°54'21.335"N	104°44'33.217"W	0.00	
9913.00†	90.000	359.944	7663.00	1742.52	1691.82	734.58	39°54'22.323"N	104°44'33.207"W	0.00	
10013.00†	90.000	359.944	7663.00	1842.23	1791.82	734.49	39°54'23.311"N	104°44'33.198"W	0.00	
10113.00†	90.000	359.944	7663.00	1941.94	1891.82	734.39	39°54'24.299"N	104°44'33.188"W	0.00	
10213.00†	90.000	359.944	7663.00	2041.64	1991.82	734.29	39°54'25.288"N	104°44'33.178"W	0.00	
10313.00†	90.000	359.944	7663.00	2141.35	2091.82	734.20	39°54'26.276"N	104°44'33.168"W	0.00	
10413.00†	90.000	359.944	7663.00	2241.05	2191.82	734.10	39°54'27.264"N	104°44'33.159"W	0.00	
10513.00†	90.000	359.944	7663.00	2340.76	2291.82	734.00	39°54'28.252"N	104°44'33.149"W	0.00	
10613.00†	90.000	359.944	7663.00	2440.47	2391.82	733.90	39°54'29.240"N	104°44'33.139"W	0.00	
10713.00†	90.000	359.944	7663.00	2540.17	2491.82	733.81	39°54'30.229"N	104°44'33.129"W	0.00	
10813.00†	90.000	359.944	7663.00	2639.88	2591.82	733.71	39°54'31.217"N	104°44'33.120"W	0.00	

Planned Wellpath Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

REFERENCE WELLPATH IDENTIFICATION			
Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
10913.00†	90.000	359.944	7663.00	2739.59	2691.82	733.61	39°54'32.205"N	104°44'33.110"W	0.00	
11013.00†	90.000	359.944	7663.00	2839.29	2791.82	733.52	39°54'33.193"N	104°44'33.100"W	0.00	
11113.00†	90.000	359.944	7663.00	2939.00	2891.82	733.42	39°54'34.182"N	104°44'33.091"W	0.00	
11213.00†	90.000	359.944	7663.00	3038.71	2991.82	733.32	39°54'35.170"N	104°44'33.081"W	0.00	
11313.00†	90.000	359.944	7663.00	3138.41	3091.82	733.23	39°54'36.158"N	104°44'33.071"W	0.00	
11413.00†	90.000	359.944	7663.00	3238.12	3191.82	733.13	39°54'37.146"N	104°44'33.061"W	0.00	
11513.00†	90.000	359.944	7663.00	3337.82	3291.82	733.03	39°54'38.134"N	104°44'33.052"W	0.00	
11613.00†	90.000	359.944	7663.00	3437.53	3391.82	732.93	39°54'39.123"N	104°44'33.042"W	0.00	
11713.00†	90.000	359.944	7663.00	3537.24	3491.82	732.84	39°54'40.111"N	104°44'33.032"W	0.00	
11813.00†	90.000	359.944	7663.00	3636.94	3591.82	732.74	39°54'41.099"N	104°44'33.023"W	0.00	
11913.00†	90.000	359.944	7663.00	3736.65	3691.82	732.64	39°54'42.087"N	104°44'33.013"W	0.00	
12013.00†	90.000	359.944	7663.00	3836.36	3791.82	732.55	39°54'43.076"N	104°44'33.003"W	0.00	
12113.00†	90.000	359.944	7663.00	3936.06	3891.82	732.45	39°54'44.064"N	104°44'32.993"W	0.00	
12213.00†	90.000	359.944	7663.00	4035.77	3991.82	732.35	39°54'45.052"N	104°44'32.984"W	0.00	
12313.00†	90.000	359.944	7663.00	4135.48	4091.82	732.26	39°54'46.040"N	104°44'32.974"W	0.00	
12413.00†	90.000	359.944	7663.00	4235.18	4191.82	732.16	39°54'47.028"N	104°44'32.964"W	0.00	
12513.00†	90.000	359.944	7663.00	4334.89	4291.82	732.06	39°54'48.017"N	104°44'32.955"W	0.00	
12613.00†	90.000	359.944	7663.00	4434.59	4391.82	731.96	39°54'49.005"N	104°44'32.945"W	0.00	
12713.00†	90.000	359.944	7663.00	4534.30	4491.82	731.87	39°54'49.993"N	104°44'32.935"W	0.00	
12813.00†	90.000	359.944	7663.00	4634.01	4591.82	731.77	39°54'50.981"N	104°44'32.925"W	0.00	
12913.00†	90.000	359.944	7663.00	4733.71	4691.82	731.67	39°54'51.970"N	104°44'32.916"W	0.00	
13013.00†	90.000	359.944	7663.00	4833.42	4791.82	731.58	39°54'52.958"N	104°44'32.906"W	0.00	
13113.00†	90.000	359.944	7663.00	4933.13	4891.82	731.48	39°54'53.946"N	104°44'32.896"W	0.00	
13213.00†	90.000	359.944	7663.00	5032.83	4991.82	731.38	39°54'54.934"N	104°44'32.887"W	0.00	
13313.00†	90.000	359.944	7663.00	5132.54	5091.82	731.29	39°54'55.922"N	104°44'32.877"W	0.00	
13413.00†	90.000	359.944	7663.00	5232.24	5191.82	731.19	39°54'56.911"N	104°44'32.867"W	0.00	
13513.00†	90.000	359.944	7663.00	5331.95	5291.82	731.09	39°54'57.899"N	104°44'32.857"W	0.00	
13613.00†	90.000	359.944	7663.00	5431.66	5391.82	730.99	39°54'58.887"N	104°44'32.848"W	0.00	
13713.00†	90.000	359.944	7663.00	5531.36	5491.82	730.90	39°54'59.875"N	104°44'32.838"W	0.00	
13813.00†	90.000	359.944	7663.00	5631.07	5591.82	730.80	39°55'00.864"N	104°44'32.828"W	0.00	

Planned Wellpath Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)
Area	COLORADO	Well	ACKARD NORTH 2-35-3NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	ACKARD NORTH 2-35-3NCH PWB
Facility	SEC.02-T03S-R66W		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13913.00†	90.000	359.944	7663.00	5730.78	5691.82	730.70	39°55'01.852"N	104°44'32.819"W	0.00	
14013.00†	90.000	359.944	7663.00	5830.48	5791.82	730.61	39°55'02.840"N	104°44'32.809"W	0.00	
14113.00†	90.000	359.944	7663.00	5930.19	5891.82	730.51	39°55'03.828"N	104°44'32.799"W	0.00	
14213.00†	90.000	359.944	7663.00	6029.90	5991.82	730.41	39°55'04.816"N	104°44'32.789"W	0.00	
14313.00†	90.000	359.944	7663.00	6129.60	6091.82	730.31	39°55'05.805"N	104°44'32.780"W	0.00	
14413.00†	90.000	359.944	7663.00	6229.31	6191.82	730.22	39°55'06.793"N	104°44'32.770"W	0.00	
14513.00†	90.000	359.944	7663.00	6329.01	6291.82	730.12	39°55'07.781"N	104°44'32.760"W	0.00	
14613.00†	90.000	359.944	7663.00	6428.72	6391.82	730.02	39°55'08.769"N	104°44'32.750"W	0.00	
14713.00†	90.000	359.944	7663.00	6528.43	6491.82	729.93	39°55'09.757"N	104°44'32.741"W	0.00	
14813.00†	90.000	359.944	7663.00	6628.13	6591.82	729.83	39°55'10.746"N	104°44'32.731"W	0.00	
14913.00†	90.000	359.944	7663.00	6727.84	6691.82	729.73	39°55'11.734"N	104°44'32.721"W	0.00	
15013.00†	90.000	359.944	7663.00	6827.55	6791.82	729.64	39°55'12.722"N	104°44'32.712"W	0.00	
15113.00†	90.000	359.944	7663.00	6927.25	6891.82	729.54	39°55'13.710"N	104°44'32.702"W	0.00	
15213.00†	90.000	359.944	7663.00	7026.96	6991.82	729.44	39°55'14.699"N	104°44'32.692"W	0.00	
15313.00†	90.000	359.944	7663.00	7126.66	7091.82	729.34	39°55'15.687"N	104°44'32.682"W	0.00	
15413.00†	90.000	359.944	7663.00	7226.37	7191.82	729.25	39°55'16.675"N	104°44'32.673"W	0.00	
15513.00†	90.000	359.944	7663.00	7326.08	7291.82	729.15	39°55'17.663"N	104°44'32.663"W	0.00	
15613.00†	90.000	359.944	7663.00	7425.78	7391.82	729.05	39°55'18.651"N	104°44'32.653"W	0.00	
15713.00†	90.000	359.944	7663.00	7525.49	7491.82	728.96	39°55'19.640"N	104°44'32.644"W	0.00	
15813.00†	90.000	359.944	7663.00	7625.20	7591.82	728.86	39°55'20.628"N	104°44'32.634"W	0.00	
15913.00†	90.000	359.944	7663.00	7724.90	7691.82	728.76	39°55'21.616"N	104°44'32.624"W	0.00	
16013.00†	90.000	359.944	7663.00	7824.61	7791.82	728.67	39°55'22.604"N	104°44'32.614"W	0.00	
16113.00†	90.000	359.944	7663.00	7924.32	7891.82	728.57	39°55'23.593"N	104°44'32.605"W	0.00	
16213.00†	90.000	359.944	7663.00	8024.02	7991.82	728.47	39°55'24.581"N	104°44'32.595"W	0.00	
16313.00†	90.000	359.944	7663.00	8123.73	8091.82	728.37	39°55'25.569"N	104°44'32.585"W	0.00	
16413.00†	90.000	359.944	7663.00	8223.43	8191.82	728.28	39°55'26.557"N	104°44'32.576"W	0.00	
16513.00†	90.000	359.944	7663.00	8323.14	8291.82	728.18	39°55'27.545"N	104°44'32.566"W	0.00	
16613.00†	90.000	359.944	7663.00	8422.85	8391.82	728.08	39°55'28.534"N	104°44'32.556"W	0.00	
16713.00†	90.000	359.944	7663.00	8522.55	8491.82	727.99	39°55'29.522"N	104°44'32.546"W	0.00	
16813.00†	90.000	359.944	7663.00	8622.26	8591.82	727.89	39°55'30.510"N	104°44'32.537"W	0.00	

Planned Wellpath Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

REFERENCE WELLPATH IDENTIFICATION			
Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
16913.00†	90.000	359.944	7663.00	8721.97	8691.82	727.79	39°55'31.498"N	104°44'32.527"W	0.00	
17013.00†	90.000	359.944	7663.00	8821.67	8791.82	727.70	39°55'32.487"N	104°44'32.517"W	0.00	
17113.00†	90.000	359.944	7663.00	8921.38	8891.82	727.60	39°55'33.475"N	104°44'32.507"W	0.00	
17213.00†	90.000	359.944	7663.00	9021.08	8991.82	727.50	39°55'34.463"N	104°44'32.498"W	0.00	
17313.00†	90.000	359.944	7663.00	9120.79	9091.82	727.40	39°55'35.451"N	104°44'32.488"W	0.00	
17413.00†	90.000	359.944	7663.00	9220.50	9191.82	727.31	39°55'36.439"N	104°44'32.478"W	0.00	
17513.00†	90.000	359.944	7663.00	9320.20	9291.82	727.21	39°55'37.428"N	104°44'32.469"W	0.00	
17613.00†	90.000	359.944	7663.00	9419.91	9391.82	727.11	39°55'38.416"N	104°44'32.459"W	0.00	
17713.00†	90.000	359.944	7663.00	9519.62	9491.82	727.02	39°55'39.404"N	104°44'32.449"W	0.00	
17807.02†	90.000	359.944	7663.00	9613.36	9585.84	726.93	39°55'40.333"N	104°44'32.440"W	0.00	Niobrara C Chalk
17807.10	90.000	359.944	7663.00[2]	9613.44	9585.92	726.93	39°55'40.334"N	104°44'32.440"W	0.00	End of Tangent (XS)

HOLE & CASING SECTIONS - Ref Wellbore: ACKARD NORTH 2-35-3NCH PWB Ref Wellpath: ACKARD NORTH 2-35-3NCH 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	1799.84	0.00	0.00	-5.12	4.75
8.5in Open Hole	1800.00	17807.10	16007.10	1799.84	7663.00	-5.12	4.75	9585.92	726.93

Planned Wellpath Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

REFERENCE WELLPATH IDENTIFICATION			
Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.02-T02S-R66W		0.00	-64.71	-160.16	3211594.77	1207829.42	39°54'05.040"N	104°44'44.880"W	polygon
SEC.35-T01S-R66W		0.00	-64.71	-160.16	3211594.77	1207829.42	39°54'05.040"N	104°44'44.880"W	polygon
2) ACKARD NORTH 2-35-3NCH BHL (355'FNL & 2490'FEL, SEC.35)	17807.10	7663.00	9585.92	726.93	3212481.84	1217479.79	**39°55'40.334"N**	**104°44'32.440"W**	point
1) ACKARD NORTH 2-35-3NCH EP (460'FSL & 2490'FEL, SEC.02)	8083.15	7663.00	-138.03	736.36	3212491.27	1207756.11	**39°54'04.240"N**	**104°44'33.385"W**	point
SEC.02/35-T01S/02S-R66W 460'SETBACK		7855.00	-64.71	-160.16	3211594.77	1207829.42	39°54'05.040"N	104°44'44.880"W	polygon

SURVEY PROGRAM - Ref Wellbore: ACKARD NORTH 2-35-3NCH PWB Ref Wellpath: ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17807.10	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-3NCH PWB

Planned Wellpath Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

REFERENCE WELLPATH IDENTIFICATION			
Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
500.00	0.000	137.139	500.00	Fox Hills
5103.62	10.585	137.139	5050.00	Sussex / Shannon
7556.68	37.946	9.317	7439.46	Niobrara A Chalk
7583.10	40.535	8.484	7459.92	Niobrara A Marl
7793.54	61.291	3.933	7591.92	Niobrara B Chalk
7847.15	66.599	3.095	7615.46	Niobrara B Marl
17807.02	90.000	359.944	7663.00	Niobrara C Chalk

DESIGN COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
13.00	0.000	137.139	13.00	Tie On
1600.00	0.000	137.139	1600.00	End of Tangent
2129.27	10.585	137.139	2126.27	End of Build (XS)
7105.70	10.585	137.139	7018.00	End of Tangent (XS)
8083.15	90.000	359.944	7663.00	End of 3D Arc (XS)
17807.10	90.000	359.944	7663.00	End of Tangent (XS)

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

REPORT SETUP INFORMATION

Projection System	**NAD83 / Lambert Colorado SP, Northern Zone (501), US feet**	Software System	**WellArchitect® 5.0**
North Reference	**Grid**	User	**Ingmjamr**
Scale	**0.999975**	Report Generated	**10/20/2017** at **10:34:16 AM**
Convergence at slot	**0.49° East**	Database/Source file	**Jamie/ACKARD_NORTH_2-35-3NCH_PWP__REV._A.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	0.30	119.97	3211754.93	1207894.13	**39°54'05.666"N**	**104°44'42.818"W**
Facility Reference Pt			3211634.96	1207893.83	**39°54'05.673"N**	**104°44'44.357"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	**5213.00ft**
Horizontal Reference Pt	**Slot**	RIG (13'KB) (RKB) to Mean Sea Level	**5213.00ft**
Vertical Reference Pt	**RIG (13'KB) (RKB)**	RIG (13'KB) (RKB) to Ground Level at Slot (SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02))	**5213.00ft**
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	**8.33° East of TN**	Dip Angle	**66.48°**	Mag Field Strength	**52123 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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: ACKARD NORTH 2-35-3NCH PWB Ref Wellpath: ACKARD NORTH 2-35-3NCH 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	1799.84	0.00	0.00	-5.12	4.75
8.5in Open Hole	1800.00	17807.10	16007.10	1799.84	7663.00	-5.12	4.75	9585.92	726.93

SURVEY PROGRAM - Ref Wellbore: ACKARD NORTH 2-35-3NCH PWB Ref Wellpath: ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17807.10	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-3NCH PWB

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CALCULATION RANGE & CUTOFF

From: **13.00ft MD**	To: **17807.10ft MD**	C-C Cutoff: **1000.00 ft**

OFFSET WELL CLEARANCE SUMMARY (36 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.35-T1S-R66W	SLOT#01 EX BOX ELDER FARMS 41-35 #5 (660'FNL & 660'FEL, SEC.35, PA, 8315)	BOX ELDER FARMS 41-35 #5	BOX ELDER FARMS 41-35 #5 AWB	BOX ELDER FARMS 41-35 #5BOX ELDER FARMS 41-35 #5 AWP	17455.78	1816.58	17455.78	17455.78	0.17	17455.78	FAIL
SEC.02-T03S-R66W	SLOT#08 ACKARD NORTH 2-35-2NBH (600'FSL & 2040'FWL, SEC.02)	ACKARD NORTH 2-35-2NBH	ACKARD NORTH 2-35-2NBH	ACKARD NORTH 2-35-2NBH PWP (REV. A.0)	1686.78	13.58	1686.78	17805.28	0.54	17805.28	FAIL
SEC.02-T03S-R66W	SLOT#10 ACKARD NORTH 2-35-3NBH (600'FSL & 2070'FWL, SEC.02)	ACKARD NORTH 2-35-3NBH	ACKARD NORTH 2-35-3NBH PWB	ACKARD NORTH 2-35-3NBH PWP (REV. A.0)	13.00	15.01	17807.10	17807.10	0.69	17807.10	FAIL
SEC.35-T01S-R66W	SLOT#03 EX BOX ELDER FARMS 32-35#4 (1980'FNL & 1980'FEL, SEC.35, 8312 PR)	BOX ELDER FARMS 32-35#4	BOX ELDER FARMS 32-35#4 AWB	BOX ELDER FARMS 32-35#4 AWP	16195.76	519.72	16195.76	16225.26	1.14	16225.26	PASS
SEC.02-T03S-R66W	SLOT#07 ACKARD NORTH 2-35-2NCH (600'FSL & 2025'FWL, SEC.02)	ACKARD NORTH 2-35-2NCH	ACKARD NORTH 2-35-2NCH PWB	ACKARD NORTH 2-35-2NCH PWP (REV. A.0)	1513.00	29.88	1513.00	17807.10	1.20	17807.10	PASS
SEC.02-T03S-R66W	SLOT#11 ACKARD NORTH 2-35-3NAH (600'FSL & 2085'FWL, SEC.02)	ACKARD NORTH 2-35-3NAH	ACKARD NORTH 2-35-3NAH PWB	ACKARD NORTH 2-35-3NAH PWP (REV. A.0)	13.00	29.96	1313.00	17807.10	1.28	17807.10	PASS
SEC.35-T01S-R66W	SLOT#01 EX CHAMPLIN 117 AMOCO G#2 (660'FSL & 1980'FEL, SEC.35, PA, 8360)	CHAMPLIN 117 AMOCO G#2	CHAMPLIN 117 AMOCO G#2 AWB	CHAMPLIN 117 AMOCO G#2 AWP	13562.96	518.68	13562.96	13600.06	1.37	13600.06	PASS
SEC.02-T03S-R66W	SLOT#12 ACKARD NORTH 2-35-3CDH (600'FSL & 2100'FWL, SEC.02)	ACKARD NORTH 2-35-3CDH	ACKARD NORTH 2-35-3CDH PWB	ACKARD NORTH 2-35-3CDH PWP (REV. A.0)	13.00	44.98	17807.10	17807.10	1.40	17807.10	PASS
SEC.35-T01S-R66W	SLOT#01 EX CHAMPLIN 117 AMOCO G #6 (660'FNL & 1980'FWL, SEC.35,8308,PR)	CHAMPLIN 117 AMOCO G#6	CHAMPLIN 117 AMOCO G#6 AWB	CHAMPLIN 117 AMOCO G#6 AWP	17506.38	791.32	17506.38	17513.00	1.60	17513.00	PASS
SEC.02-T03S-R66W	SLOT#06 ACKARD NORTH 2-35-2NAH (600'FSL & 2010'FWL, SEC.02)	ACKARD NORTH 2-35-2NAH	ACKARD NORTH 2-35-2NAH PWB	ACKARD NORTH 2-35-2NAH PWP (REV. A.0)	13.00	45.00	1213.00	17807.10	1.77	17807.10	PASS
SEC.35-T01S-R66W	SLOT#01 EX CHAMPLIN 117 AMOCO G#3 (1980'FSL & 1980'FWL, SEC.35, PA,8360)	SLOT#01 EX CHAMPLIN 117 AMOCO G#3	SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWB	SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWP	14832.08	791.63	14832.08	14832.08	1.91	14832.08	PASS
SEC.02-T03S-R66W	SLOT#05 ACKARD NORTH 2-35-2CDH (600'FSL & 1995'FWL, SEC.02)	ACKARD NORTH 2-35-2CDH	ACKARD NORTH 2-35-2CDH PWB	ACKARD NORTH 2-35-2CDH PWP (REV. A.0)	13.00	59.99	1113.00	17807.10	1.91	17807.10	PASS
SEC.02-T03S-R66W	SLOT#13 ACKARD NORTH 2-35-4NCH (600'FSL & 2115'FWL, SEC.02)	ACKARD NORTH 2-35-4NCH	ACKARD NORTH 2-35-4NCH PWB	ACKARD NORTH 2-35-4NCH PWP (REV. A.0)	13.00	60.01	1113.00	17807.10	2.01	17807.10	PASS
SEC.02-T02S-R66W	SLOT#01 EX MARTIN #1 (600'FNL & 2040'FWL, SEC.02,8400, SI)	MARTIN #1	MARTIN #1 AWB	MARTIN #1 AWP	12263.00	739.44	12263.64	12263.00	2.19	12263.00	PASS
SEC.02-T03S-R66W	SLOT#04 ACKARD NORTH 2-35-1NBH (600'FSL & 1980'FWL, SEC.02)	ACKARD NORTH 2-35-1NBH	ACKARD NORTH 2-35-1NBH PWB	ACKARD NORTH 2-35-1NBH PWP (REV. A.0)	13.00	75.00	1013.00	17807.10	2.55	17807.10	PASS
SEC.02-T03S-R66W	SLOT#14 ACKARD NORTH 2-35-4NBH (600'FSL & 2130'FWL, SEC.02)	ACKARD NORTH 2-35-4NBH	ACKARD NORTH 2-35-4NBH	ACKARD NORTH 2-35-4NBH PWP (REV. A.0)	13.00	74.97	17807.10	17807.10	2.68	17807.10	PASS
SEC.02-T02S-R66W	SLOT#17 EX OTTER#1 (1980'FSL & 1980'FWL, SEC.02, PR, 8390)	OTTER#1	OTTER#1 AWB	OTTER#1 AWP	9570.86	760.65	9570.86	9570.86	2.92	9570.86	PASS
SEC.26-T01S-R66W	SLOT#03 EX LEECH #24-26 (659'FSL & 2026'FWL, SEC.26,8296, PR)	LEECH #24-26	LEECH #24-26 AWB	LEECH #24-26 AWP	17807.10	1280.56	17807.10	17807.10	3.12	17807.10	PASS
SEC.02-T03S-R66W	SLOT#03 ACKARD NORTH 2-35-1NCH (600'FSL & 1965'FWL, SEC.02)	ACKARD NORTH 2-35-1NCH	ACKARD NORTH 2-35-1NCH PWB	ACKARD NORTH 2-35-1NCH PWP (REV-A.0)	13.00	89.95	913.00	17807.10	3.22	17807.10	PASS
SEC.02-T03S-R66W	SLOT#15 ACKARD NORTH 2-35-4NAH (600'FSL & 2145'FWL, SEC.02)	ACKARD NORTH 2-35-4NAH	ACKARD NORTH 2-35-4NAH PWB	ACKARD NORTH 2-35-4NAH PWP (REV. A.0)	13.00	89.98	913.00	17807.10	3.22	17807.10	PASS
SEC.11-T02S-R66W	SLOT#01 EX HSR-VAN SCHAACK #2-11 (608'FNL & 1956'FEL, SEC.11,8384, PR)	HSR-VAN SCHAACK #2-11	HSR-VAN SCHAACK #2-11 AWB	HSR-VAN SCHAACK #2-11 AWP	7271.92	786.09	7271.92	7362.94	3.30	7362.94	PASS
SEC.02-T03S-R66W	SLOT#16 ACKARD NORTH 2-35-4CDH (600'FSL & 2160'FWL, SEC.02)	ACKARD NORTH 2-35-4CDH	ACKARD NORTH 2-35-4CDH PWB	ACKARD NORTH 2-35-4CDH PWP (REV. A.0)	13.00	104.99	17807.10	17807.10	3.38	17807.10	PASS
SEC.02-T03S-R66W	SLOT#02 ACKARD NORTH 2-35-1NAH (600'FSL & 1950'FWL, SEC.02)	ACKARD NORTH 2-35-1NAH	ACKARD NORTH 2-35-1NAH PWB	ACKARD NORTH 2-35-1NAH PWP (REV-A.0)	13.00	104.96	813.00	17807.10	3.75	17807.10	PASS
SEC.02-T03S-R66W	SLOT#01 ACKARD NORTH 2-35-1CDH (600'FSL & 1935'FWL, SEC.02)	ACKARD NORTH 2-35-1CDH	ACKARD NORTH 2-35-1CDH PWB	ACKARD NORTH 2-35-1CDH PWP (REV-A.0)	13.00	119.97	713.00	17807.10	3.91	17807.10	PASS
SEC.26-T01S-R66W	SLOT#02 EX MAUL #2 (859'FSL & 1800'FEL, SEC.26,8280, PR)	MAUL #2	MAUL #2 AWB	MAUL #2 AWP	17807.10	1429.24	17807.10	17807.10	4.23	17807.10	PASS

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CALCULATION RANGE & CUTOFF

From: **13.00ft MD**	To: **17807.10ft MD**	C-C Cutoff: **1000.00 ft**

OFFSET WELL CLEARANCE SUMMARY (36 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.35-T01S-R66W	SLOT#02 EX CHAMPLIN 117 AMOCO G#1 (1980'FSL & 660'FEL, SEC.35, PA,8360)	SLOT#01 EX CHAMPLIN 117 AMOCO G#1	SLOT#01 EX CHAMPLIN 117 AMOCO G#1 AWB	SLOT#01 EX CHAMPLIN 117 AMOCO G#1 AWP	14825.50	1819.84	14825.50	15058.07	4.34	15058.07	PASS
SEC.26-T01S-R66W	SLOT#01 EX MAUL #44-26 (660'FSL & 652'FEL, SEC.26,8289, PR)	MAUL #44-26	MAUL #44-26 AWB	MAUL #44-26 AWP	17807.10	2104.58	17807.10	17807.10	4.61	17807.10	PASS
SEC.35-T01S-R66W	SLOT#02 EX CHAMPLIN 117 AMOCO G #5 (1980'FNL & 660'FWL, SEC.35,8340,PR)	CHAMPLIN 117 AMOCO G#5	CHAMPLIN 117 AMOCO G#5 AWB	CHAMPLIN 117 AMOCO G#5 AWP	16125.50	2152.49	16125.50	16262.02	4.73	16262.02	PASS
SEC.26-T01S-R66W	SLOT#04 EX LEECH #14-26 (663'FSL & 673'FWL, SEC.26,8313, PR)	LEECH #14-26	LEECH #14-26 AWB	LEECH #14-26 AWP	17807.10	2364.24	17807.10	17807.10	4.86	17807.10	PASS
SEC.02-T02S-R66W	SLOT#01 EX CARLSON #1 (660'FNL & 660'FEL, SEC.02,8400, PR)	CARLSON #1	CARLSON #1 AWB	CARLSON #1 AWP	12250.46	1847.13	12250.46	12556.97	5.38	12556.97	PASS
SEC.35-T01S-R66W	SLOT#04 EX CHAMPLIN 117 G#4 (660'FSL & 660'FWL, SEC.35,8350, PR)	CHAMPLIN 117 G#4	CHAMPLIN 117 G#4 AWB	CHAMPLIN 117 G#4 AWP	13513.00	2100.44	13513.00	13682.47	5.60	13682.47	PASS
SEC.02-T02S-R66W	SLOT#02 EX HSR ACKARD #5-2 (1980'FNL & 656'FWL, SEC.02,8400, PR)	HSR ACKARD #5-2	HSR ACKARD #5-2 AWB	HSR ACKARD #5-2 AWP	10913.00	2113.45	10913.00	11132.07	7.08	11132.07	PASS
SEC.11-T02S-R66W	SLOT#01 EX HSR-VAN SCHAACK #4-11 (623'FNL & 696'FWL, SEC.11, 8374, PR)	HSR-VAN SCHAACK #4-11	HSR-VAN SCHAACK #4-11 AWB	HSR-VAN SCHAACK #4-11 AWP	113.00	1815.53	1600.00	7359.55	8.83	7359.55	PASS
SEC.01-T02S-R66W	SLOT#01 EX CHAMPLIN 117 AMOCO C#4 (1980'FNL & 660'FWL, SEC.01, PR, 8410)	CHAMPLIN 117 AMOCO C#4	CHAMPLIN 117 AMOCO C#4 AWB	CHAMPLIN 117 AMOCO C#4 AWP	10913.00	3125.42	10913.00	11778.80	9.98	11778.80	PASS
SEC.03-T02S-R66W	SLOT#01 EX HSR LAWSON #8-3 (2080'FNL & 660'FEL, SEC.03,8598, PR)	HSR LAWSON #8-3	HSR LAWSON #8-3 AWB	HSR LAWSON #8-3 AWP	10650.50	3437.07	10650.50	11363.19	11.60	11363.19	PASS
SEC.03-T02S-R66W	SLOT#02 EX HSR-TR RANCH #16-3 (660'FSL & 660'FEL, SEC.03,8362, PR)	HSR-TR RANCH #16-3	HSR-TR RANCH #16-3 AWB	HSR-TR RANCH #16-3 AWP	113.00	2717.26	8313.00	8863.90	13.85	8863.90	PASS

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: BOX ELDER FARMS 41-35 #5 AWB Offset Wellpath: BOX ELDER FARMS 41-35 #5BOX ELDER FARMS 41-35 #5 AWP

Facility: SEC.35-T1S-R66W Slot: SLOT#01 EX BOX ELDER FARMS 41-35 #5 (660'FNL & 660'FEL, SEC.35, PA, 8315) Well: BOX ELDER FARMS 41-35 #5 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	24.00	9237.01	2543.84	15.40	9580.90	25.40	389.41	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: BOX ELDER FARMS 41-35 #5 AWB Offset Wellpath: BOX ELDER FARMS 41-35 #5BOX ELDER FARMS 41-35 #5 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: BOX ELDER FARMS 41-35 #5 AWB Offset Wellpath: BOX ELDER FARMS 41-35 #5BOX ELDER FARMS 41-35 #5 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8315.00	BHI Drift Indicator - Estimated Azimuth (Standard)	ASSUMED VERTICAL TO TD <8315>	BOX ELDER FARMS 41-35 #5 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: BOX ELDER FARMS 41-35 #5 AWB Offset Wellpath: BOX ELDER FARMS 41-35 #5BOX ELDER FARMS 41-35 #5 AWP

MD Reference: **Rig on SLOT#01 EX BOX ELDER FARMS 41-35 #5 (660'FNL & 660'FEL, SEC.35, PA, 8315) (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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-2NBH Offset Wellpath: ACKARD NORTH 2-35-2NBH PWP (REV. A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#08 ACKARD NORTH 2-35-2NBH (600'FSL & 2040'FWL, SEC.02) Well: ACKARD NORTH 2-35-2NBH 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	-0.02	-14.98	-90.07	14.98	1.40	23.63	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.02	-14.98	-90.07	14.98	1.72	15.49	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.02	-14.98	-90.07	14.98	2.28	9.58	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.02	-14.98	-90.07	14.98	2.88	6.82	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.02	-14.98	-90.07	14.98	3.50	5.26	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.02	-14.98	-90.07	14.98	4.12	4.28	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.02	-14.98	-90.07	14.98	4.74	3.60	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.02	-14.98	-90.07	14.98	5.36	3.11	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.02	-14.98	-90.07	14.98	5.99	2.74	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	-0.02	-14.98	-90.07	14.98	6.61	2.44	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	-0.02	-14.98	-90.07	14.98	7.24	2.20	PASS
1113.00†	1113.00	0.00	0.00	1113.00	1113.00	-0.02	-14.98	-90.07	14.98	7.86	2.01	PASS
1213.00†	1213.00	0.00	0.00	1213.00	1213.00	-0.02	-14.98	-90.07	14.98	8.49	1.84	PASS
1313.00†	1313.00	0.00	0.00	1313.00	1313.00	-0.02	-14.98	-90.07	14.98	9.12	1.71	PASS
1413.00†	1413.00	0.00	0.00	1413.00	1413.00	-0.02	-14.98	-90.07	14.98	9.75	1.59	PASS
1513.00†	1513.00	0.00	0.00	1513.03	1513.03	-0.04	-14.97	-90.17	14.97	10.37	1.48	PASS
1600.00	1600.00	0.00	0.00	1600.22	1600.20	-1.54	-14.12	-96.23	14.20	10.93	1.32	PASS
1613.00†	1613.00	-0.02	0.02	1613.23	1613.20	-1.96	-13.88	124.91	14.03	11.01	1.30	PASS
1686.78†	1686.77	-0.96	0.89	1687.07	1686.94	-5.33	-11.96	114.13	13.58	11.50	1.19	PASS
1713.00†	1712.97	-1.63	1.52	1713.29	1713.09	-6.92	-11.06	110.08	13.64	11.64	1.18	PASS
1813.00†	1812.80	-5.80	5.38	1813.21	1812.58	-14.89	-6.53	95.45	14.98	12.20	1.24	PASS
1913.00†	1912.38	-12.52	11.62	1912.98	1911.55	-25.85	-0.29	84.40	17.89	12.96	1.40	PASS
2013.00†	2011.57	-21.78	20.22	2012.83	2010.24	-39.04	7.21	79.46	21.65	13.75	1.61	PASS
2113.00†	2110.26	-33.58	31.16	2112.76	2108.98	-52.37	14.79	83.50	24.95	14.51	1.76	PASS
2129.27	2126.27	-35.74	33.16	2129.01	2125.04	-54.54	16.02	84.80	25.47	14.64	1.78	PASS
2213.00†	2208.57	-47.01	43.63	2212.64	2207.68	-65.69	22.36	91.21	28.31	15.35	1.89	PASS
2313.00†	2306.87	-60.48	56.12	2312.51	2306.38	-79.00	29.94	97.29	32.08	16.28	2.02	PASS
2413.00†	2405.17	-73.94	68.62	2412.39	2405.07	-92.32	37.51	102.05	36.13	17.25	2.14	PASS
2513.00†	2503.46	-87.41	81.11	2512.27	2503.77	-105.64	45.09	105.83	40.38	18.25	2.26	PASS
2613.00†	2601.76	-100.87	93.61	2612.15	2602.46	-118.96	52.66	108.89	44.77	19.25	2.38	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-2NBH** Offset Wellpath: **ACKARD NORTH 2-35-2NBH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#08 ACKARD NORTH 2-35-2NBH (600'FSL & 2040'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-2NBH** **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
2713.00†	2700.06	-114.34	106.10	2712.03	2701.16	-132.28	60.23	111.39	49.27	20.26	2.48	PASS
2813.00†	2798.36	-127.80	118.60	2811.90	2799.86	-145.60	67.81	113.47	53.84	21.28	2.58	PASS
2913.00†	2896.66	-141.27	131.10	2911.78	2898.55	-158.91	75.38	115.22	58.47	22.29	2.68	PASS
3013.00†	2994.95	-154.73	143.59	3011.66	2997.25	-172.23	82.96	116.71	63.15	23.31	2.76	PASS
3113.00†	3093.25	-168.20	156.09	3111.54	3095.94	-185.55	90.53	118.00	67.87	24.33	2.84	PASS
3213.00†	3191.55	-181.67	168.58	3211.41	3194.64	-198.87	98.10	119.12	72.61	25.35	2.92	PASS
3313.00†	3289.85	-195.13	181.08	3311.29	3293.33	-212.19	105.68	120.10	77.38	26.37	2.99	PASS
3413.00†	3388.15	-208.60	193.57	3411.17	3392.03	-225.51	113.25	120.97	82.17	27.39	3.05	PASS
3513.00†	3486.45	-222.06	206.07	3511.05	3490.73	-238.82	120.83	121.74	86.98	28.41	3.11	PASS
3613.00†	3584.74	-235.53	218.57	3610.93	3589.42	-252.14	128.40	122.43	91.80	29.44	3.17	PASS
3713.00†	3683.04	-248.99	231.06	3710.80	3688.12	-265.46	135.98	123.05	96.63	30.46	3.22	PASS
3813.00†	3781.34	-262.46	243.56	3810.68	3786.81	-278.78	143.55	123.62	101.48	31.49	3.27	PASS
3913.00†	3879.64	-275.92	256.05	3910.56	3885.51	-292.10	151.12	124.13	106.33	32.52	3.32	PASS
4013.00†	3977.94	-289.39	268.55	4010.44	3984.20	-305.41	158.70	124.60	111.19	33.55	3.36	PASS
4113.00†	4076.24	-302.85	281.04	4110.32	4082.90	-318.73	166.27	125.02	116.06	34.58	3.41	PASS
4213.00†	4174.53	-316.32	293.54	4210.19	4181.60	-332.05	173.85	125.42	120.93	35.61	3.44	PASS
4313.00†	4272.83	-329.79	306.04	4310.07	4280.29	-345.37	181.42	125.78	125.81	36.65	3.48	PASS
4413.00†	4371.13	-343.25	318.53	4409.95	4378.99	-358.69	188.99	126.11	130.69	37.68	3.52	PASS
4513.00†	4469.43	-356.72	331.03	4509.83	4477.68	-372.01	196.57	126.43	135.58	38.72	3.55	PASS
4613.00†	4567.73	-370.18	343.52	4609.71	4576.38	-385.32	204.14	126.72	140.47	39.75	3.58	PASS
4713.00†	4666.02	-383.65	356.02	4709.58	4675.08	-398.64	211.72	126.99	145.36	40.79	3.61	PASS
4813.00†	4764.32	-397.11	368.51	4809.46	4773.77	-411.96	219.29	127.24	150.26	41.82	3.64	PASS
4913.00†	4862.62	-410.58	381.01	4909.34	4872.47	-425.28	226.86	127.48	155.16	42.86	3.66	PASS
5013.00†	4960.92	-424.04	393.51	5009.22	4971.16	-438.60	234.44	127.70	160.06	43.90	3.69	PASS
5113.00†	5059.22	-437.51	406.00	5109.10	5069.86	-451.91	242.01	127.91	164.96	44.94	3.71	PASS
5213.00†	5157.52	-450.98	418.50	5208.97	5168.55	-465.23	249.59	128.10	169.87	45.98	3.74	PASS
5313.00†	5255.81	-464.44	430.99	5308.85	5267.25	-478.55	257.16	128.29	174.78	47.02	3.76	PASS
5413.00†	5354.11	-477.91	443.49	5408.73	5365.95	-491.87	264.74	128.46	179.69	48.06	3.78	PASS
5513.00†	5452.41	-491.37	455.98	5508.61	5464.64	-505.19	272.31	128.63	184.60	49.11	3.80	PASS
5613.00†	5550.71	-504.84	468.48	5608.48	5563.34	-518.51	279.88	128.79	189.51	50.15	3.82	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-2NBH** Offset Wellpath: **ACKARD NORTH 2-35-2NBH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#08 ACKARD NORTH 2-35-2NBH (600'FSL & 2040'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-2NBH** **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
5713.00†	5649.01	-518.30	480.98	5708.36	5662.03	-531.82	287.46	128.94	194.43	51.19	3.84	PASS
5813.00†	5747.30	-531.77	493.47	5808.24	5760.73	-545.14	295.03	129.08	199.34	52.23	3.86	PASS
5913.00†	5845.60	-545.23	505.97	5908.12	5859.42	-558.46	302.61	129.22	204.26	53.28	3.87	PASS
6013.00†	5943.90	-558.70	518.46	6008.00	5958.12	-571.78	310.18	129.35	209.18	54.32	3.89	PASS
6113.00†	6042.20	-572.16	530.96	6107.87	6056.82	-585.10	317.75	129.47	214.10	55.37	3.90	PASS
6213.00†	6140.50	-585.63	543.45	6207.75	6155.51	-598.41	325.33	129.59	219.02	56.41	3.92	PASS
6313.00†	6238.80	-599.10	555.95	6307.63	6254.21	-611.73	332.90	129.70	223.94	57.46	3.93	PASS
6413.00†	6337.09	-612.56	568.45	6407.51	6352.90	-625.05	340.48	129.81	228.86	58.50	3.95	PASS
6513.00†	6435.39	-626.03	580.94	6507.39	6451.60	-638.37	348.05	129.91	233.78	59.55	3.96	PASS
6613.00†	6533.69	-639.49	593.44	6607.26	6550.30	-651.69	355.62	130.01	238.70	60.59	3.97	PASS
6713.00†	6631.99	-652.96	605.93	6707.14	6648.99	-665.01	363.20	130.10	243.63	61.64	3.99	PASS
6813.00†	6730.29	-666.42	618.43	6807.02	6747.69	-678.32	370.77	130.19	248.55	62.69	4.00	PASS
6913.00†	6828.59	-679.89	630.92	6906.90	6846.38	-691.64	378.35	130.28	253.48	63.74	4.01	PASS
7013.00†	6926.88	-693.35	643.42	7006.78	6945.08	-704.96	385.92	130.37	258.40	64.78	4.02	PASS
7105.70	7018.00	-705.84	655.00	7100.36	7038.05	-711.87	393.04	131.66	262.80	65.30	4.06	PASS
7113.00†	7025.19	-706.77	655.92	7107.65	7045.31	-711.78	393.60	134.74	263.14	65.29	4.06	PASS
7213.00†	7124.20	-710.27	668.49	7206.09	7142.81	-701.50	401.02	-155.60	268.27	65.20	4.15	PASS
7313.00†	7222.32	-696.39	680.94	7302.29	7235.04	-675.45	407.99	-114.12	274.04	65.04	4.25	PASS
7413.00†	7316.56	-665.54	692.88	7396.53	7319.93	-635.30	414.37	-99.69	280.16	64.16	4.40	PASS
7513.00†	7404.05	-618.66	703.94	7489.05	7395.81	-582.83	420.03	-92.20	286.28	62.73	4.60	PASS
7613.00†	7482.14	-557.19	713.80	7580.15	7461.34	-519.88	424.87	-87.40	292.06	61.17	4.82	PASS
7713.00†	7548.46	-482.98	722.15	7670.07	7515.49	-448.31	428.82	-84.07	297.20	59.58	5.04	PASS
7813.00†	7600.98	-398.29	728.74	7759.09	7557.45	-369.96	431.82	-81.76	301.42	58.05	5.24	PASS
7913.00†	7638.12	-305.69	733.36	7847.46	7586.65	-286.67	433.83	-80.26	304.51	56.63	5.43	PASS
8013.00†	7658.74	-208.00	735.89	7935.42	7602.70	-200.29	434.83	-79.46	306.32	55.39	5.59	PASS
8083.15	7663.00	-138.03	736.36	7997.01	7606.00	-138.81	434.93	-79.29	306.78	54.67	5.67	PASS
8113.00†	7663.00	-108.18	736.33	8026.85	7606.00	-108.97	434.85	-79.29	306.82	54.46	5.70	PASS
8213.00†	7663.00	-8.18	736.23	8126.85	7606.00	-8.97	434.59	-79.30	306.99	54.08	5.74	PASS
8313.00†	7663.00	91.82	736.14	8226.85	7606.00	91.03	434.32	-79.31	307.15	54.44	5.70	PASS
8413.00†	7663.00	191.82	736.04	8326.85	7606.00	191.03	434.06	-79.31	307.31	55.50	5.60	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-2NBH Offset Wellpath: ACKARD NORTH 2-35-2NBH PWP (REV. A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#08 ACKARD NORTH 2-35-2NBH (600'FSL & 2040'FWL, SEC.02) Well: ACKARD NORTH 2-35-2NBH 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
8513.00†	7663.00	291.82	735.94	8426.85	7606.00	291.03	433.80	-79.32	307.47	57.21	5.43	PASS
8613.00†	7663.00	391.82	735.84	8526.85	7606.00	391.03	433.54	-79.32	307.63	59.52	5.22	PASS
8713.00†	7663.00	491.82	735.75	8626.85	7606.00	491.03	433.28	-79.33	307.80	62.36	4.98	PASS
8813.00†	7663.00	591.82	735.65	8726.85	7606.00	591.03	433.01	-79.33	307.96	65.67	4.73	PASS
8913.00†	7663.00	691.82	735.55	8826.85	7606.00	691.03	432.75	-79.34	308.12	68.88	4.51	PASS
9013.00†	7663.00	791.82	735.46	8926.85	7606.00	791.03	432.49	-79.35	308.28	73.41	4.23	PASS
9113.00†	7663.00	891.82	735.36	9026.85	7606.00	891.03	432.23	-79.35	308.44	77.73	4.00	PASS
9213.00†	7663.00	991.82	735.26	9126.85	7606.00	991.03	431.97	-79.36	308.61	82.29	3.77	PASS
9313.00†	7663.00	1091.82	735.17	9226.85	7606.00	1091.03	431.71	-79.36	308.77	87.05	3.57	PASS
9413.00†	7663.00	1191.82	735.07	9326.85	7606.00	1191.03	431.44	-79.37	308.93	91.98	3.38	PASS
9513.00†	7663.00	1291.82	734.97	9426.85	7606.00	1291.03	431.18	-79.37	309.09	97.05	3.20	PASS
9613.00†	7663.00	1391.82	734.87	9526.85	7606.00	1391.03	430.92	-79.38	309.25	102.24	3.04	PASS
9713.00†	7663.00	1491.82	734.78	9626.85	7606.00	1491.02	430.66	-79.38	309.42	107.54	2.89	PASS
9813.00†	7663.00	1591.82	734.68	9726.85	7606.00	1591.02	430.40	-79.39	309.58	112.92	2.75	PASS
9913.00†	7663.00	1691.82	734.58	9826.85	7606.00	1691.02	430.13	-79.40	309.74	118.38	2.63	PASS
10013.00†	7663.00	1791.82	734.49	9926.85	7606.00	1791.02	429.87	-79.40	309.90	123.93	2.51	PASS
10113.00†	7663.00	1891.82	734.39	10026.85	7606.00	1891.02	429.61	-79.41	310.06	129.50	2.40	PASS
10213.00†	7663.00	1991.82	734.29	10126.85	7606.00	1991.02	429.35	-79.41	310.23	135.14	2.30	PASS
10313.00†	7663.00	2091.82	734.20	10226.85	7606.00	2091.02	429.09	-79.42	310.39	140.82	2.21	PASS
10413.00†	7663.00	2191.82	734.10	10326.85	7606.00	2191.02	428.83	-79.42	310.55	146.54	2.12	PASS
10513.00†	7663.00	2291.82	734.00	10426.85	7606.00	2291.02	428.56	-79.43	310.71	152.30	2.04	PASS
10613.00†	7663.00	2391.82	733.90	10526.85	7606.00	2391.02	428.30	-79.44	310.87	158.09	1.97	PASS
10713.00†	7663.00	2491.82	733.81	10626.85	7606.00	2491.02	428.04	-79.44	311.04	163.91	1.90	PASS
10813.00†	7663.00	2591.82	733.71	10726.85	7606.00	2591.02	427.78	-79.45	311.20	169.75	1.84	PASS
10913.00†	7663.00	2691.82	733.61	10826.85	7606.00	2691.02	427.52	-79.45	311.36	175.62	1.78	PASS
11013.00†	7663.00	2791.82	733.52	10926.85	7606.00	2791.02	427.25	-79.46	311.52	181.50	1.72	PASS
11113.00†	7663.00	2891.82	733.42	11026.85	7606.00	2891.02	426.99	-79.46	311.68	187.40	1.67	PASS
11213.00†	7663.00	2991.82	733.32	11126.85	7606.00	2991.02	426.73	-79.47	311.85	193.33	1.62	PASS
11313.00†	7663.00	3091.82	733.23	11226.85	7606.00	3091.02	426.47	-79.47	312.01	199.26	1.57	PASS
11413.00†	7663.00	3191.82	733.13	11326.85	7606.00	3191.02	426.21	-79.48	312.17	205.21	1.52	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-2NBH** Offset Wellpath: **ACKARD NORTH 2-35-2NBH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W Slot: SLOT#08 ACKARD NORTH 2-35-2NBH (600'FSL & 2040'FWL, SEC.02) Well: ACKARD NORTH 2-35-2NBH 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
11513.00†	7663.00	3291.82	733.03	11426.85	7606.00	3291.02	425.95	-79.49	312.33	211.18	1.48	PASS
11613.00†	7663.00	3391.82	732.93	11526.85	7606.00	3391.02	425.68	-79.49	312.49	217.15	1.44	PASS
11713.00†	7663.00	3491.82	732.84	11626.85	7606.00	3491.02	425.42	-79.50	312.66	223.14	1.40	PASS
11813.00†	7663.00	3591.82	732.74	11726.85	7606.00	3591.01	425.16	-79.50	312.82	229.13	1.37	PASS
11913.00†	7663.00	3691.82	732.64	11826.85	7606.00	3691.01	424.90	-79.51	312.98	235.14	1.33	PASS
12013.00†	7663.00	3791.82	732.55	11926.85	7606.00	3791.01	424.64	-79.51	313.14	241.15	1.30	PASS
12113.00†	7663.00	3891.82	732.45	12026.85	7606.00	3891.01	424.37	-79.52	313.30	247.17	1.27	PASS
12213.00†	7663.00	3991.82	732.35	12126.85	7606.00	3991.01	424.11	-79.52	313.47	253.20	1.24	PASS
12313.00†	7663.00	4091.82	732.26	12226.85	7606.00	4091.01	423.85	-79.53	313.63	259.24	1.21	PASS
12413.00†	7663.00	4191.82	732.16	12326.85	7606.00	4191.01	423.59	-79.53	313.79	265.28	1.18	PASS
12513.00†	7663.00	4291.82	732.06	12426.85	7606.00	4291.01	423.33	-79.54	313.95	271.33	1.16	PASS
12613.00†	7663.00	4391.82	731.96	12526.85	7606.00	4391.01	423.07	-79.55	314.11	277.38	1.13	PASS
12713.00†	7663.00	4491.82	731.87	12626.85	7606.00	4491.01	422.80	-79.55	314.28	283.44	1.11	PASS
12813.00†	7663.00	4591.82	731.77	12726.85	7606.00	4591.01	422.54	-79.56	314.44	289.51	1.09	PASS
12913.00†	7663.00	4691.82	731.67	12826.85	7606.00	4691.01	422.28	-79.56	314.60	295.58	1.06	PASS
13013.00†	7663.00	4791.82	731.58	12926.85	7606.00	4791.01	422.02	-79.57	314.76	301.65	1.04	PASS
13113.00†	7663.00	4891.82	731.48	13026.85	7606.00	4891.01	421.76	-79.57	314.93	307.73	1.02	PASS
13213.00†	7663.00	4991.82	731.38	13126.85	7606.00	4991.01	421.49	-79.58	315.09	313.81	1.00	PASS
13313.00†	7663.00	5091.82	731.29	13226.85	7606.00	5091.01	421.23	-79.58	315.25	319.90	0.99	FAIL
13413.00†	7663.00	5191.82	731.19	13326.85	7606.00	5191.01	420.97	-79.59	315.41	325.99	0.97	FAIL
13513.00†	7663.00	5291.82	731.09	13426.85	7606.00	5291.01	420.71	-79.59	315.57	332.08	0.95	FAIL
13613.00†	7663.00	5391.82	730.99	13526.85	7606.00	5391.01	420.45	-79.60	315.74	338.17	0.93	FAIL
13713.00†	7663.00	5491.82	730.90	13626.85	7606.00	5491.01	420.19	-79.61	315.90	344.27	0.92	FAIL
13813.00†	7663.00	5591.82	730.80	13726.85	7606.00	5591.01	419.92	-79.61	316.06	350.37	0.90	FAIL
13913.00†	7663.00	5691.82	730.70	13826.85	7606.00	5691.00	419.66	-79.61	316.22	356.48	0.89	FAIL
14013.00†	7663.00	5791.82	730.61	13926.85	7606.00	5791.00	419.40	-79.62	316.38	362.58	0.87	FAIL
14113.00†	7663.00	5891.82	730.51	14026.85	7606.00	5891.00	419.14	-79.63	316.55	368.69	0.86	FAIL
14213.00†	7663.00	5991.82	730.41	14126.85	7606.00	5991.00	418.88	-79.63	316.71	374.80	0.84	FAIL
14313.00†	7663.00	6091.82	730.31	14226.85	7606.00	6091.00	418.61	-79.64	316.87	380.92	0.83	FAIL
14413.00†	7663.00	6191.82	730.22	14326.85	7606.00	6191.00	418.35	-79.64	317.03	387.03	0.82	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-2NBH** Offset Wellpath: **ACKARD NORTH 2-35-2NBH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W Slot: SLOT#08 ACKARD NORTH 2-35-2NBH (600'FSL & 2040'FWL, SEC.02) Well: ACKARD NORTH 2-35-2NBH 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
14513.00†	7663.00	6291.82	730.12	14426.85	7606.00	6291.00	418.09	-79.65	317.19	393.15	0.81	FAIL
14613.00†	7663.00	6391.82	730.02	14526.84	7606.00	6391.00	417.83	-79.65	317.36	399.27	0.79	FAIL
14713.00†	7663.00	6491.82	729.93	14626.84	7606.00	6491.00	417.57	-79.66	317.52	405.39	0.78	FAIL
14813.00†	7663.00	6591.82	729.83	14726.84	7606.00	6591.00	417.31	-79.66	317.68	411.52	0.77	FAIL
14913.00†	7663.00	6691.82	729.73	14826.84	7606.00	6691.00	417.04	-79.67	317.84	417.64	0.76	FAIL
15013.00†	7663.00	6791.82	729.64	14926.84	7606.00	6791.00	416.78	-79.67	318.01	423.77	0.75	FAIL
15113.00†	7663.00	6891.82	729.54	15026.84	7606.00	6891.00	416.52	-79.68	318.17	429.90	0.74	FAIL
15213.00†	7663.00	6991.82	729.44	15126.84	7606.00	6991.00	416.26	-79.69	318.33	436.03	0.73	FAIL
15313.00†	7663.00	7091.82	729.34	15226.84	7606.00	7091.00	416.00	-79.69	318.49	442.16	0.72	FAIL
15413.00†	7663.00	7191.82	729.25	15326.84	7606.00	7191.00	415.73	-79.70	318.65	448.29	0.71	FAIL
15513.00†	7663.00	7291.82	729.15	15426.84	7606.00	7291.00	415.47	-79.70	318.82	454.43	0.70	FAIL
15613.00†	7663.00	7391.82	729.05	15526.84	7606.00	7391.00	415.21	-79.71	318.98	460.56	0.69	FAIL
15713.00†	7663.00	7491.82	728.96	15626.84	7606.00	7491.00	414.95	-79.71	319.14	466.70	0.68	FAIL
15813.00†	7663.00	7591.82	728.86	15726.84	7606.00	7591.00	414.69	-79.72	319.30	472.84	0.67	FAIL
15913.00†	7663.00	7691.82	728.76	15826.84	7606.00	7691.00	414.43	-79.72	319.46	478.98	0.67	FAIL
16013.00†	7663.00	7791.82	728.67	15926.84	7606.00	7790.99	414.16	-79.73	319.63	485.12	0.66	FAIL
16113.00†	7663.00	7891.82	728.57	16026.84	7606.00	7890.99	413.90	-79.73	319.79	491.26	0.65	FAIL
16213.00†	7663.00	7991.82	728.47	16126.84	7606.00	7990.99	413.64	-79.74	319.95	497.40	0.64	FAIL
16313.00†	7663.00	8091.82	728.37	16226.84	7606.00	8090.99	413.38	-79.74	320.11	503.55	0.64	FAIL
16413.00†	7663.00	8191.82	728.28	16326.84	7606.00	8190.99	413.12	-79.75	320.28	509.69	0.63	FAIL
16513.00†	7663.00	8291.82	728.18	16426.84	7606.00	8290.99	412.85	-79.75	320.44	515.84	0.62	FAIL
16613.00†	7663.00	8391.82	728.08	16526.84	7606.00	8390.99	412.59	-79.76	320.60	521.99	0.61	FAIL
16713.00†	7663.00	8491.82	727.99	16626.84	7606.00	8490.99	412.33	-79.76	320.76	528.13	0.61	FAIL
16813.00†	7663.00	8591.82	727.89	16726.84	7606.00	8590.99	412.07	-79.77	320.92	534.28	0.60	FAIL
16913.00†	7663.00	8691.82	727.79	16826.84	7606.00	8690.99	411.81	-79.78	321.09	540.43	0.59	FAIL
17013.00†	7663.00	8791.82	727.70	16926.84	7606.00	8790.99	411.55	-79.78	321.25	546.58	0.59	FAIL
17113.00†	7663.00	8891.82	727.60	17026.84	7606.00	8890.99	411.28	-79.79	321.41	552.74	0.58	FAIL
17213.00†	7663.00	8991.82	727.50	17126.84	7606.00	8990.99	411.02	-79.79	321.57	558.89	0.57	FAIL
17313.00†	7663.00	9091.82	727.40	17226.84	7606.00	9090.99	410.76	-79.80	321.74	565.04	0.57	FAIL
17413.00†	7663.00	9191.82	727.31	17326.84	7606.00	9190.99	410.50	-79.80	321.90	571.19	0.56	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-2NBH Offset Wellpath: ACKARD NORTH 2-35-2NBH PWP (REV. A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#08 ACKARD NORTH 2-35-2NBH (600'FSL & 2040'FWL, SEC.02) Well: ACKARD NORTH 2-35-2NBH 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
17513.00†	7663.00	9291.82	727.21	17426.84	7606.00	9290.99	410.24	-79.81	322.06	577.35	0.56	FAIL
17613.00†	7663.00	9391.82	727.11	17526.84	7606.00	9390.99	409.97	-79.81	322.22	583.50	0.55	FAIL
17713.00†	7663.00	9491.82	727.02	17626.84	7606.00	9490.99	409.71	-79.82	322.38	589.66	0.55	FAIL
17805.28†	7663.00	9584.09	726.93	17719.10	7606.00	9583.25	409.47	-79.82	322.53	595.34	0.54	FAIL
17807.10	7663.00	9585.92	726.93	17719.12	7606.00	9583.26	409.47	-79.82	322.54	595.18	0.54	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ACKARD NORTH 2-35-2NBH Offset Wellpath: ACKARD NORTH 2-35-2NBH 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: ACKARD NORTH 2-35-2NBH Offset Wellpath: ACKARD NORTH 2-35-2NBH 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	1799.45	-0.01	-9.13	-4.17	-6.77
8.5in Open Hole	1800.00	17719.12	15919.12	1799.45	N/A	-4.17	-6.77	N/A	N/A

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: ACKARD NORTH 2-35-2NBH PWP (REV. A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17719.12	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-2NBH

REFERENCE WELLPATH IDENTIFICATION			
Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

OFFSET WELLPATH REFERENCE - **Offset Wellbore: ACKARD NORTH 2-35-2NBH** **Offset Wellpath: ACKARD NORTH 2-35-2NBH 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3NBH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3NBH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#10 ACKARD NORTH 2-35-3NBH (600'FSL & 2070'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-3NBH** **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	0.02	15.01	89.93	15.01	1.40	23.68	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	0.02	15.01	89.93	15.01	1.72	15.52	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	0.02	15.01	89.93	15.01	2.28	9.60	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	0.02	15.01	89.93	15.01	2.88	6.83	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	0.02	15.01	89.93	15.01	3.50	5.27	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	0.02	15.01	89.93	15.01	4.12	4.29	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	0.02	15.01	89.93	15.01	4.74	3.61	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	0.02	15.01	89.93	15.01	5.36	3.12	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	0.02	15.01	89.93	15.01	5.99	2.74	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	0.02	15.01	89.93	15.01	6.61	2.45	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	0.02	15.01	89.93	15.01	7.24	2.21	PASS
1113.00†	1113.00	0.00	0.00	1113.00	1113.00	0.02	15.01	89.93	15.01	7.86	2.01	PASS
1213.00†	1213.00	0.00	0.00	1213.00	1213.00	0.02	15.01	89.93	15.01	8.49	1.85	PASS
1313.00†	1313.00	0.00	0.00	1313.00	1313.00	0.02	15.01	89.93	15.01	9.12	1.71	PASS
1413.00†	1413.00	0.00	0.00	1413.00	1413.00	0.02	15.01	89.93	15.01	9.75	1.59	PASS
1513.00†	1513.00	0.00	0.00	1512.94	1512.94	0.00	15.03	89.99	15.03	10.37	1.49	PASS
1600.00	1600.00	0.00	0.00	1599.53	1599.51	-0.98	16.43	93.40	16.46	10.96	1.54	PASS
1613.00†	1613.00	-0.02	0.02	1612.46	1612.43	-1.25	16.82	-42.95	16.85	11.05	1.57	PASS
1713.00†	1712.97	-1.63	1.52	1711.84	1711.64	-4.48	21.42	-38.92	20.15	11.93	1.74	PASS
1813.00†	1812.80	-5.80	5.38	1811.08	1810.47	-9.68	28.82	-37.55	23.87	12.82	1.91	PASS
1913.00†	1912.38	-12.52	11.62	1910.19	1908.79	-16.84	39.00	-37.85	27.95	13.75	2.09	PASS
2013.00†	2011.57	-21.78	20.22	2009.16	2006.48	-25.93	51.93	-39.15	32.39	14.63	2.28	PASS
2113.00†	2110.26	-33.58	31.16	2107.98	2103.42	-36.94	67.59	-41.07	37.22	15.48	2.47	PASS
2129.27	2126.27	-35.74	33.16	2124.04	2119.12	-38.91	70.40	-41.42	38.05	15.60	2.51	PASS
2213.00†	2208.57	-47.01	43.63	2207.01	2199.90	-49.78	85.87	-42.41	43.22	16.20	2.74	PASS
2313.00†	2306.87	-60.48	56.12	2306.79	2296.93	-63.16	104.90	-43.01	49.85	16.93	3.03	PASS
2413.00†	2405.17	-73.94	68.62	2406.57	2393.97	-76.53	123.92	-43.48	56.49	17.71	3.28	PASS
2513.00†	2503.46	-87.41	81.11	2506.35	2491.00	-89.90	142.95	-43.84	63.13	18.54	3.50	PASS
2613.00†	2601.76	-100.87	93.61	2606.13	2588.03	-103.27	161.97	-44.14	69.77	19.37	3.70	PASS
2713.00†	2700.06	-114.34	106.10	2705.91	2685.06	-116.64	181.00	-44.39	76.42	20.24	3.88	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3NBH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3NBH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#10 ACKARD NORTH 2-35-3NBH (600'FSL & 2070'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-3NBH** **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†	2798.36	-127.80	118.60	2805.68	2782.09	-130.01	200.02	-44.59	83.06	21.14	4.03	PASS
2913.00†	2896.66	-141.27	131.10	2905.46	2879.12	-143.38	219.05	-44.77	89.71	22.06	4.17	PASS
3013.00†	2994.95	-154.73	143.59	3005.24	2976.15	-156.75	238.07	-44.92	96.35	23.00	4.29	PASS
3113.00†	3093.25	-168.20	156.09	3105.02	3073.18	-170.12	257.10	-45.05	103.00	23.95	4.40	PASS
3213.00†	3191.55	-181.67	168.58	3204.80	3170.22	-183.49	276.12	-45.17	109.65	24.91	4.50	PASS
3313.00†	3289.85	-195.13	181.08	3304.58	3267.25	-196.86	295.14	-45.27	116.30	25.89	4.59	PASS
3413.00†	3388.15	-208.60	193.57	3404.36	3364.28	-210.23	314.17	-45.36	122.95	26.88	4.67	PASS
3513.00†	3486.45	-222.06	206.07	3504.13	3461.31	-223.60	333.19	-45.44	129.60	27.88	4.74	PASS
3613.00†	3584.74	-235.53	218.57	3603.91	3558.34	-236.97	352.22	-45.52	136.24	28.89	4.81	PASS
3713.00†	3683.04	-248.99	231.06	3703.69	3655.37	-250.34	371.24	-45.58	142.89	29.90	4.87	PASS
3813.00†	3781.34	-262.46	243.56	3803.47	3752.40	-263.71	390.27	-45.64	149.54	30.92	4.93	PASS
3913.00†	3879.64	-275.92	256.05	3903.25	3849.43	-277.08	409.29	-45.70	156.19	31.95	4.98	PASS
4013.00†	3977.94	-289.39	268.55	4003.03	3946.47	-290.45	428.32	-45.75	162.84	32.98	5.02	PASS
4113.00†	4076.24	-302.85	281.04	4102.81	4043.50	-303.82	447.34	-45.80	169.49	34.02	5.07	PASS
4213.00†	4174.53	-316.32	293.54	4202.58	4140.53	-317.19	466.37	-45.84	176.14	35.06	5.11	PASS
4313.00†	4272.83	-329.79	306.04	4302.36	4237.56	-330.57	485.39	-45.88	182.79	36.11	5.14	PASS
4413.00†	4371.13	-343.25	318.53	4402.14	4334.59	-343.94	504.42	-45.92	189.44	37.16	5.18	PASS
4513.00†	4469.43	-356.72	331.03	4501.92	4431.62	-357.31	523.44	-45.96	196.09	38.22	5.21	PASS
4613.00†	4567.73	-370.18	343.52	4601.70	4528.65	-370.68	542.46	-45.99	202.74	39.28	5.24	PASS
4713.00†	4666.02	-383.65	356.02	4701.48	4625.68	-384.05	561.49	-46.02	209.39	40.34	5.27	PASS
4813.00†	4764.32	-397.11	368.51	4801.26	4722.71	-397.42	580.51	-46.05	216.04	41.40	5.29	PASS
4913.00†	4862.62	-410.58	381.01	4901.03	4819.75	-410.79	599.54	-46.08	222.69	42.47	5.32	PASS
5013.00†	4960.92	-424.04	393.51	5000.81	4916.78	-424.16	618.56	-46.10	229.35	43.53	5.34	PASS
5113.00†	5059.22	-437.51	406.00	5100.59	5013.81	-437.53	637.59	-46.13	236.00	44.60	5.36	PASS
5213.00†	5157.52	-450.98	418.50	5200.37	5110.84	-450.90	656.61	-46.15	242.65	45.68	5.38	PASS
5313.00†	5255.81	-464.44	430.99	5300.15	5207.87	-464.27	675.64	-46.17	249.30	46.75	5.40	PASS
5413.00†	5354.11	-477.91	443.49	5399.93	5304.90	-477.64	694.66	-46.19	255.95	47.83	5.42	PASS
5513.00†	5452.41	-491.37	455.98	5499.71	5401.93	-491.01	713.69	-46.21	262.60	48.91	5.43	PASS
5613.00†	5550.71	-504.84	468.48	5599.48	5498.96	-504.38	732.71	-46.23	269.25	49.98	5.45	PASS
5713.00†	5649.01	-518.30	480.98	5699.26	5596.00	-517.75	751.73	-46.25	275.90	51.07	5.46	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3NBH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3NBH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#10 ACKARD NORTH 2-35-3NBH (600'FSL & 2070'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-3NBH** **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†	5747.30	-531.77	493.47	5799.04	5693.03	-531.12	770.76	-46.26	282.55	52.15	5.48	PASS
5913.00†	5845.60	-545.23	505.97	5898.82	5790.06	-544.49	789.78	-46.28	289.20	53.23	5.49	PASS
6013.00†	5943.90	-558.70	518.46	5998.60	5887.09	-557.86	808.81	-46.29	295.85	54.31	5.51	PASS
6113.00†	6042.20	-572.16	530.96	6098.38	5984.12	-571.23	827.83	-46.31	302.50	55.40	5.52	PASS
6213.00†	6140.50	-585.63	543.45	6198.16	6081.15	-584.60	846.86	-46.32	309.15	56.49	5.53	PASS
6313.00†	6238.80	-599.10	555.95	6297.93	6178.18	-597.97	865.88	-46.34	315.81	57.57	5.54	PASS
6413.00†	6337.09	-612.56	568.45	6397.71	6275.21	-611.35	884.91	-46.35	322.46	58.66	5.55	PASS
6513.00†	6435.39	-626.03	580.94	6497.49	6372.25	-624.72	903.93	-46.36	329.11	59.75	5.56	PASS
6613.00†	6533.69	-639.49	593.44	6597.27	6469.28	-638.09	922.96	-46.37	335.76	60.84	5.57	PASS
6713.00†	6631.99	-652.96	605.93	6697.05	6566.31	-651.46	941.98	-46.38	342.41	61.93	5.58	PASS
6813.00†	6730.29	-666.42	618.43	6796.83	6663.34	-664.83	961.00	-46.39	349.06	63.02	5.59	PASS
6913.00†	6828.59	-679.89	630.92	6896.61	6760.37	-678.20	980.03	-46.41	355.71	64.12	5.60	PASS
7013.00†	6926.88	-693.35	643.42	6996.38	6857.40	-691.57	999.05	-46.42	362.36	65.21	5.61	PASS
7105.70	7018.00	-705.84	655.00	7088.87	6947.34	-703.96	1016.69	-46.42	368.53	66.22	5.61	PASS
7113.00†	7025.19	-706.77	655.92	7096.16	6954.43	-704.94	1018.08	-43.65	369.01	66.30	5.62	PASS
7213.00†	7124.20	-710.27	668.49	7195.76	7051.95	-709.46	1037.19	22.03	375.71	67.01	5.66	PASS
7313.00†	7222.32	-696.39	680.94	7295.55	7148.94	-696.68	1056.18	59.76	382.35	67.06	5.75	PASS
7413.00†	7316.56	-665.54	692.88	7395.56	7242.50	-666.88	1074.48	70.75	388.73	66.64	5.88	PASS
7513.00†	7404.05	-618.66	703.94	7495.80	7329.77	-620.85	1091.54	75.22	394.66	65.94	6.04	PASS
7613.00†	7482.14	-557.19	713.80	7596.29	7408.01	-559.89	1106.81	77.42	399.95	64.36	6.27	PASS
7713.00†	7548.46	-482.98	722.15	7697.01	7474.76	-485.77	1119.81	78.63	404.45	62.57	6.53	PASS
7813.00†	7600.98	-398.29	728.74	7797.94	7527.85	-400.71	1130.13	79.32	408.01	60.78	6.78	PASS
7913.00†	7638.12	-305.69	733.36	7899.05	7565.55	-307.32	1137.43	79.70	410.54	59.18	7.01	PASS
8013.00†	7658.74	-208.00	735.89	8000.28	7586.59	-208.51	1141.46	79.90	411.94	57.96	7.18	PASS
8083.15	7663.00	-138.03	736.36	8071.34	7591.00	-137.64	1142.25	79.94	412.23	57.38	7.26	PASS
8113.00†	7663.00	-108.18	736.33	8101.20	7591.00	-107.78	1142.22	79.94	412.23	57.22	7.28	PASS
8213.00†	7663.00	-8.18	736.23	8201.20	7591.00	-7.78	1142.13	79.94	412.23	57.13	7.29	PASS
8313.00†	7663.00	91.82	736.14	8301.20	7591.00	92.22	1142.03	79.94	412.23	57.72	7.22	PASS
8413.00†	7663.00	191.82	736.04	8401.20	7591.00	192.22	1141.93	79.94	412.23	58.97	7.06	PASS
8513.00†	7663.00	291.82	735.94	8501.20	7591.00	292.22	1141.83	79.94	412.23	60.83	6.84	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3NBH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3NBH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#10 ACKARD NORTH 2-35-3NBH (600'FSL & 2070'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-3NBH** **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†	7663.00	391.82	735.84	8601.20	7591.00	392.22	1141.74	79.94	412.23	63.25	6.58	PASS
8713.00†	7663.00	491.82	735.75	8701.20	7591.00	492.22	1141.64	79.94	412.23	66.17	6.29	PASS
8813.00†	7663.00	591.82	735.65	8801.20	7591.00	592.22	1141.54	79.94	412.23	69.94	5.94	PASS
8913.00†	7663.00	691.82	735.55	8901.20	7591.00	692.22	1141.45	79.94	412.23	73.23	5.67	PASS
9013.00†	7663.00	791.82	735.46	9001.20	7591.00	792.22	1141.35	79.94	412.23	77.27	5.37	PASS
9113.00†	7663.00	891.82	735.36	9101.20	7591.00	892.22	1141.25	79.94	412.23	81.58	5.09	PASS
9213.00†	7663.00	991.82	735.26	9201.20	7591.00	992.22	1141.15	79.94	412.23	86.12	4.82	PASS
9313.00†	7663.00	1091.82	735.17	9301.20	7591.00	1092.22	1141.06	79.94	412.23	90.86	4.56	PASS
9413.00†	7663.00	1191.82	735.07	9401.20	7591.00	1192.22	1140.96	79.94	412.23	95.76	4.33	PASS
9513.00†	7663.00	1291.82	734.97	9501.20	7591.00	1292.22	1140.86	79.94	412.23	100.80	4.11	PASS
9613.00†	7663.00	1391.82	734.87	9601.20	7591.00	1392.22	1140.77	79.94	412.23	105.96	3.91	PASS
9713.00†	7663.00	1491.82	734.78	9701.20	7591.00	1492.22	1140.67	79.94	412.23	111.23	3.72	PASS
9813.00†	7663.00	1591.82	734.68	9801.20	7591.00	1592.22	1140.57	79.94	412.23	116.59	3.55	PASS
9913.00†	7663.00	1691.82	734.58	9901.20	7591.00	1692.22	1140.47	79.94	412.23	122.02	3.39	PASS
10013.00†	7663.00	1791.82	734.49	10001.20	7591.00	1792.22	1140.38	79.94	412.23	127.53	3.24	PASS
10113.00†	7663.00	1891.82	734.39	10101.20	7591.00	1892.22	1140.28	79.94	412.23	133.09	3.11	PASS
10213.00†	7663.00	1991.82	734.29	10201.20	7591.00	1992.22	1140.18	79.94	412.23	138.70	2.98	PASS
10313.00†	7663.00	2091.82	734.20	10301.20	7591.00	2092.22	1140.09	79.94	412.23	144.36	2.86	PASS
10413.00†	7663.00	2191.82	734.10	10401.20	7591.00	2192.22	1139.99	79.94	412.23	150.07	2.76	PASS
10513.00†	7663.00	2291.82	734.00	10501.20	7591.00	2292.22	1139.89	79.94	412.23	155.81	2.65	PASS
10613.00†	7663.00	2391.82	733.90	10601.20	7591.00	2392.21	1139.79	79.94	412.23	161.58	2.56	PASS
10713.00†	7663.00	2491.82	733.81	10701.20	7591.00	2492.21	1139.70	79.94	412.23	167.38	2.47	PASS
10813.00†	7663.00	2591.82	733.71	10801.20	7591.00	2592.21	1139.60	79.94	412.23	173.20	2.39	PASS
10913.00†	7663.00	2691.82	733.61	10901.20	7591.00	2692.21	1139.50	79.94	412.23	179.05	2.31	PASS
11013.00†	7663.00	2791.82	733.52	11001.20	7591.00	2792.21	1139.41	79.94	412.23	184.92	2.23	PASS
11113.00†	7663.00	2891.82	733.42	11101.20	7591.00	2892.21	1139.31	79.94	412.23	190.82	2.16	PASS
11213.00†	7663.00	2991.82	733.32	11201.20	7591.00	2992.21	1139.21	79.94	412.23	196.72	2.10	PASS
11313.00†	7663.00	3091.82	733.23	11301.20	7591.00	3092.21	1139.11	79.94	412.23	202.65	2.04	PASS
11413.00†	7663.00	3191.82	733.13	11401.20	7591.00	3192.21	1139.02	79.94	412.23	208.59	1.98	PASS
11513.00†	7663.00	3291.82	733.03	11501.20	7591.00	3292.21	1138.92	79.94	412.23	214.54	1.92	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-3NBH PWB Offset Wellpath: ACKARD NORTH 2-35-3NBH PWP (REV. A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#10 ACKARD NORTH 2-35-3NBH (600'FSL & 2070'FWL, SEC.02) Well: ACKARD NORTH 2-35-3NBH 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†	7663.00	3391.82	732.93	11601.20	7591.00	3392.21	1138.82	79.94	412.23	220.50	1.87	PASS
11713.00†	7663.00	3491.82	732.84	11701.20	7591.00	3492.21	1138.73	79.94	412.23	226.48	1.82	PASS
11813.00†	7663.00	3591.82	732.74	11801.20	7591.00	3592.21	1138.63	79.94	412.22	232.47	1.78	PASS
11913.00†	7663.00	3691.82	732.64	11901.20	7591.00	3692.21	1138.53	79.94	412.22	238.47	1.73	PASS
12013.00†	7663.00	3791.82	732.55	12001.20	7591.00	3792.21	1138.43	79.94	412.22	244.47	1.69	PASS
12113.00†	7663.00	3891.82	732.45	12101.20	7591.00	3892.21	1138.34	79.94	412.22	250.49	1.65	PASS
12213.00†	7663.00	3991.82	732.35	12201.20	7591.00	3992.21	1138.24	79.94	412.22	256.51	1.61	PASS
12313.00†	7663.00	4091.82	732.26	12301.20	7591.00	4092.21	1138.14	79.94	412.22	262.54	1.57	PASS
12413.00†	7663.00	4191.82	732.16	12401.20	7591.00	4192.21	1138.05	79.94	412.22	268.57	1.54	PASS
12513.00†	7663.00	4291.82	732.06	12501.20	7591.00	4292.21	1137.95	79.94	412.22	274.62	1.50	PASS
12613.00†	7663.00	4391.82	731.96	12601.20	7591.00	4392.21	1137.85	79.94	412.22	280.67	1.47	PASS
12713.00†	7663.00	4491.82	731.87	12701.20	7591.00	4492.21	1137.75	79.94	412.22	286.72	1.44	PASS
12813.00†	7663.00	4591.82	731.77	12801.20	7591.00	4592.21	1137.66	79.94	412.22	292.78	1.41	PASS
12913.00†	7663.00	4691.82	731.67	12901.20	7591.00	4692.21	1137.56	79.94	412.22	298.84	1.38	PASS
13013.00†	7663.00	4791.82	731.58	13001.20	7591.00	4792.21	1137.46	79.94	412.22	304.91	1.35	PASS
13113.00†	7663.00	4891.82	731.48	13101.20	7591.00	4892.21	1137.37	79.94	412.22	310.98	1.33	PASS
13213.00†	7663.00	4991.82	731.38	13201.20	7591.00	4992.21	1137.27	79.94	412.22	317.06	1.30	PASS
13313.00†	7663.00	5091.82	731.29	13301.20	7591.00	5092.21	1137.17	79.94	412.22	323.14	1.28	PASS
13413.00†	7663.00	5191.82	731.19	13401.20	7591.00	5192.21	1137.07	79.94	412.22	329.23	1.25	PASS
13513.00†	7663.00	5291.82	731.09	13501.20	7591.00	5292.21	1136.98	79.94	412.22	335.31	1.23	PASS
13613.00†	7663.00	5391.82	730.99	13601.20	7591.00	5392.21	1136.88	79.94	412.22	341.41	1.21	PASS
13713.00†	7663.00	5491.82	730.90	13701.20	7591.00	5492.21	1136.78	79.94	412.22	347.50	1.19	PASS
13813.00†	7663.00	5591.82	730.80	13801.20	7591.00	5592.21	1136.69	79.94	412.22	353.60	1.17	PASS
13913.00†	7663.00	5691.82	730.70	13901.20	7591.00	5692.21	1136.59	79.94	412.22	359.70	1.15	PASS
14013.00†	7663.00	5791.82	730.61	14001.20	7591.00	5792.21	1136.49	79.94	412.22	365.80	1.13	PASS
14113.00†	7663.00	5891.82	730.51	14101.20	7591.00	5892.21	1136.39	79.94	412.22	371.90	1.11	PASS
14213.00†	7663.00	5991.82	730.41	14201.20	7591.00	5992.21	1136.30	79.94	412.22	378.01	1.09	PASS
14313.00†	7663.00	6091.82	730.31	14301.20	7591.00	6092.21	1136.20	79.94	412.22	384.12	1.07	PASS
14413.00†	7663.00	6191.82	730.22	14401.20	7591.00	6192.21	1136.10	79.94	412.22	390.23	1.06	PASS
14513.00†	7663.00	6291.82	730.12	14501.20	7591.00	6292.21	1136.01	79.94	412.22	396.35	1.04	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3NBH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3NBH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W Slot: SLOT#10 ACKARD NORTH 2-35-3NBH (600'FSL & 2070'FWL, SEC.02) Well: ACKARD NORTH 2-35-3NBH 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
14613.00†	7663.00	6391.82	730.02	14601.20	7591.00	6392.21	1135.91	79.94	412.22	402.46	1.02	PASS
14713.00†	7663.00	6491.82	729.93	14701.20	7591.00	6492.21	1135.81	79.94	412.22	408.58	1.01	PASS
14813.00†	7663.00	6591.82	729.83	14801.20	7591.00	6592.21	1135.71	79.94	412.22	414.70	0.99	FAIL
14913.00†	7663.00	6691.82	729.73	14901.20	7591.00	6692.21	1135.62	79.94	412.22	420.82	0.98	FAIL
15013.00†	7663.00	6791.82	729.64	15001.20	7591.00	6792.21	1135.52	79.94	412.22	426.94	0.97	FAIL
15113.00†	7663.00	6891.82	729.54	15101.20	7591.00	6892.21	1135.42	79.94	412.22	433.07	0.95	FAIL
15213.00†	7663.00	6991.82	729.44	15201.20	7591.00	6992.21	1135.33	79.94	412.22	439.19	0.94	FAIL
15313.00†	7663.00	7091.82	729.34	15301.20	7591.00	7092.21	1135.23	79.94	412.22	445.32	0.93	FAIL
15413.00†	7663.00	7191.82	729.25	15401.20	7591.00	7192.21	1135.13	79.94	412.22	451.45	0.91	FAIL
15513.00†	7663.00	7291.82	729.15	15501.20	7591.00	7292.21	1135.03	79.94	412.22	457.58	0.90	FAIL
15613.00†	7663.00	7391.82	729.05	15601.20	7591.00	7392.21	1134.94	79.94	412.22	463.71	0.89	FAIL
15713.00†	7663.00	7491.82	728.96	15701.20	7591.00	7492.21	1134.84	79.94	412.22	469.84	0.88	FAIL
15813.00†	7663.00	7591.82	728.86	15801.20	7591.00	7592.21	1134.74	79.94	412.22	475.97	0.87	FAIL
15913.00†	7663.00	7691.82	728.76	15901.20	7591.00	7692.21	1134.65	79.94	412.22	482.11	0.85	FAIL
16013.00†	7663.00	7791.82	728.67	16001.20	7591.00	7792.21	1134.55	79.94	412.22	488.24	0.84	FAIL
16113.00†	7663.00	7891.82	728.57	16101.20	7591.00	7892.21	1134.45	79.94	412.22	494.38	0.83	FAIL
16213.00†	7663.00	7991.82	728.47	16201.20	7591.00	7992.21	1134.35	79.94	412.22	500.52	0.82	FAIL
16313.00†	7663.00	8091.82	728.37	16301.20	7591.00	8092.21	1134.26	79.94	412.22	506.66	0.81	FAIL
16413.00†	7663.00	8191.82	728.28	16401.20	7591.00	8192.21	1134.16	79.94	412.22	512.80	0.80	FAIL
16513.00†	7663.00	8291.82	728.18	16501.20	7591.00	8292.21	1134.06	79.94	412.22	518.94	0.79	FAIL
16613.00†	7663.00	8391.82	728.08	16601.20	7591.00	8392.21	1133.97	79.94	412.22	525.08	0.78	FAIL
16713.00†	7663.00	8491.82	727.99	16701.20	7591.00	8492.21	1133.87	79.94	412.22	531.22	0.78	FAIL
16813.00†	7663.00	8591.82	727.89	16801.20	7591.00	8592.21	1133.77	79.94	412.22	537.37	0.77	FAIL
16913.00†	7663.00	8691.82	727.79	16901.20	7591.00	8692.21	1133.67	79.94	412.22	543.51	0.76	FAIL
17013.00†	7663.00	8791.82	727.70	17001.20	7591.00	8792.21	1133.58	79.94	412.22	549.65	0.75	FAIL
17113.00†	7663.00	8891.82	727.60	17101.20	7591.00	8892.21	1133.48	79.94	412.22	555.80	0.74	FAIL
17213.00†	7663.00	8991.82	727.50	17201.20	7591.00	8992.21	1133.38	79.94	412.22	561.95	0.73	FAIL
17313.00†	7663.00	9091.82	727.40	17301.20	7591.00	9092.21	1133.29	79.94	412.22	568.09	0.73	FAIL
17413.00†	7663.00	9191.82	727.31	17401.20	7591.00	9192.21	1133.19	79.94	412.22	574.24	0.72	FAIL
17513.00†	7663.00	9291.82	727.21	17501.20	7591.00	9292.21	1133.09	79.94	412.22	580.39	0.71	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-3NBH PWB Offset Wellpath: ACKARD NORTH 2-35-3NBH PWP (REV. A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#10 ACKARD NORTH 2-35-3NBH (600'FSL & 2070'FWL, SEC.02) Well: ACKARD NORTH 2-35-3NBH 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
17613.00†	7663.00	9391.82	727.11	17601.20	7591.00	9392.21	1132.99	79.94	412.22	586.54	0.70	FAIL
17713.00†	7663.00	9491.82	727.02	17701.20	7591.00	9492.21	1132.90	79.94	412.22	592.69	0.70	FAIL
17807.10	7663.00	9585.92	726.93	17795.30	7591.00	9586.31	1132.81	79.94	412.22	598.47	0.69	FAIL

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ACKARD NORTH 2-35-3NBH PWB Offset Wellpath: ACKARD NORTH 2-35-3NBH 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: ACKARD NORTH 2-35-3NBH PWB Offset Wellpath: ACKARD NORTH 2-35-3NBH 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	1799.45	0.01	9.15	-2.74	13.06
8.5in Open Hole	1800.00	17798.06	15998.06	1799.45	7591.00	-2.74	13.06	2922.76	349.85

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: ACKARD NORTH 2-35-3NBH PWP (REV. A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17798.06	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-3NBH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: ACKARD NORTH 2-35-3NBH PWB Offset Wellpath: ACKARD NORTH 2-35-3NBH 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **BOX ELDER FARMS 32-35#4 AWB** Offset Wellpath: **BOX ELDER FARMS 32-35#4 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#03 EX BOX ELDER FARMS 32-35#4 (1980'FNL & 1980'FEL, SEC.35, 8312 PR) Well: BOX ELDER FARMS 32-35#4 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	7975.99	1248.20	8.89	8073.07	25.40	328.12	PASS
113.00†	113.00	0.00	0.00	77.00	113.00	7975.99	1248.20	8.89	8073.07	51.81	158.26	PASS
213.00†	213.00	0.00	0.00	177.00	213.00	7975.99	1248.20	8.89	8073.07	54.15	151.30	PASS
313.00†	313.00	0.00	0.00	277.00	313.00	7975.99	1248.20	8.89	8073.07	56.50	144.92	PASS
413.00†	413.00	0.00	0.00	377.00	413.00	7975.99	1248.20	8.89	8073.07	58.86	139.04	PASS
513.00†	513.00	0.00	0.00	477.00	513.00	7975.99	1248.20	8.89	8073.07	61.22	133.62	PASS
613.00†	613.00	0.00	0.00	577.00	613.00	7975.99	1248.20	8.89	8073.07	63.58	128.59	PASS
713.00†	713.00	0.00	0.00	677.00	713.00	7975.99	1248.20	8.89	8073.07	65.94	123.92	PASS
813.00†	813.00	0.00	0.00	777.00	813.00	7975.99	1248.20	8.89	8073.07	68.31	119.57	PASS
913.00†	913.00	0.00	0.00	877.00	913.00	7975.99	1248.20	8.89	8073.07	70.69	115.51	PASS
1013.00†	1013.00	0.00	0.00	977.00	1013.00	7975.99	1248.20	8.89	8073.07	73.06	111.71	PASS
1113.00†	1113.00	0.00	0.00	1077.00	1113.00	7975.99	1248.20	8.89	8073.07	75.44	108.15	PASS
1213.00†	1213.00	0.00	0.00	1177.00	1213.00	7975.99	1248.20	8.89	8073.07	77.83	104.80	PASS
1313.00†	1313.00	0.00	0.00	1277.00	1313.00	7975.99	1248.20	8.89	8073.07	80.22	101.65	PASS
1413.00†	1413.00	0.00	0.00	1377.00	1413.00	7975.99	1248.20	8.89	8073.07	82.61	98.67	PASS
1513.00†	1513.00	0.00	0.00	1477.00	1513.00	7975.99	1248.20	8.89	8073.07	85.01	95.86	PASS
1600.00	1600.00	0.00	0.00	1564.00	1600.00	7975.99	1248.20	8.89	8073.07	87.10	93.54	PASS
1613.00†	1613.00	-0.02	0.02	1577.00	1613.00	7975.99	1248.20	-128.25	8073.08	87.41	93.21	PASS
1713.00†	1712.97	-1.63	1.52	1676.97	1712.97	7975.99	1248.20	-128.24	8074.44	89.82	90.70	PASS
1813.00†	1812.80	-5.80	5.38	1776.80	1812.80	7975.99	1248.20	-128.21	8077.97	92.15	88.33	PASS
1913.00†	1912.38	-12.52	11.62	1876.38	1912.38	7975.99	1248.20	-128.17	8083.65	94.58	86.11	PASS
2013.00†	2011.57	-21.78	20.22	1975.57	2011.57	7975.99	1248.20	-128.12	8091.50	97.01	84.02	PASS
2113.00†	2110.26	-33.58	31.16	2074.26	2110.26	7975.99	1248.20	-128.05	8101.50	99.43	82.05	PASS
2129.27	2126.27	-35.74	33.16	2090.27	2126.27	7975.99	1248.20	-128.04	8103.33	99.83	81.75	PASS
2213.00†	2208.57	-47.01	43.63	2172.57	2208.57	7975.99	1248.20	-128.12	8112.92	101.84	80.21	PASS
2313.00†	2306.87	-60.48	56.12	2270.87	2306.87	7975.99	1248.20	-128.22	8124.40	104.26	78.45	PASS
2413.00†	2405.17	-73.94	68.62	2369.17	2405.17	7975.99	1248.20	-128.32	8135.89	106.69	76.76	PASS
2513.00†	2503.46	-87.41	81.11	2467.46	2503.46	7975.99	1248.20	-128.42	8147.42	109.13	75.14	PASS
2613.00†	2601.76	-100.87	93.61	2565.76	2601.76	7975.99	1248.20	-128.52	8158.97	111.58	73.58	PASS
2713.00†	2700.06	-114.34	106.10	2664.06	2700.06	7975.99	1248.20	-128.62	8170.54	114.04	72.09	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **BOX ELDER FARMS 32-35#4 AWB** Offset Wellpath: **BOX ELDER FARMS 32-35#4 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#03 EX BOX ELDER FARMS 32-35#4 (1980'FNL & 1980'FEL, SEC.35, 8312 PR) Well: BOX ELDER FARMS 32-35#4 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†	2798.36	-127.80	118.60	2762.36	2798.36	7975.99	1248.20	-128.72	8182.14	116.52	70.65	PASS
2913.00†	2896.66	-141.27	131.10	2860.66	2896.66	7975.99	1248.20	-128.82	8193.76	119.00	69.26	PASS
3013.00†	2994.95	-154.73	143.59	2958.95	2994.95	7975.99	1248.20	-128.92	8205.41	121.49	67.93	PASS
3113.00†	3093.25	-168.20	156.09	3057.25	3093.25	7975.99	1248.20	-129.02	8217.09	123.99	66.65	PASS
3213.00†	3191.55	-181.67	168.58	3155.55	3191.55	7975.99	1248.20	-129.12	8228.78	126.50	65.41	PASS
3313.00†	3289.85	-195.13	181.08	3253.85	3289.85	7975.99	1248.20	-129.22	8240.51	129.02	64.22	PASS
3413.00†	3388.15	-208.60	193.57	3352.15	3388.15	7975.99	1248.20	-129.31	8252.25	131.55	63.06	PASS
3513.00†	3486.45	-222.06	206.07	3450.45	3486.45	7975.99	1248.20	-129.41	8264.02	134.09	61.95	PASS
3613.00†	3584.74	-235.53	218.57	3548.74	3584.74	7975.99	1248.20	-129.51	8275.82	136.64	60.88	PASS
3713.00†	3683.04	-248.99	231.06	3647.04	3683.04	7975.99	1248.20	-129.61	8287.63	139.19	59.84	PASS
3813.00†	3781.34	-262.46	243.56	3745.34	3781.34	7975.99	1248.20	-129.70	8299.48	141.75	58.84	PASS
3913.00†	3879.64	-275.92	256.05	3843.64	3879.64	7975.99	1248.20	-129.80	8311.34	144.32	57.87	PASS
4013.00†	3977.94	-289.39	268.55	3941.94	3977.94	7975.99	1248.20	-129.90	8323.23	146.90	56.93	PASS
4113.00†	4076.24	-302.85	281.04	4040.24	4076.24	7975.99	1248.20	-129.99	8335.14	149.48	56.02	PASS
4213.00†	4174.53	-316.32	293.54	4138.53	4174.53	7975.99	1248.20	-130.09	8347.08	152.07	55.14	PASS
4313.00†	4272.83	-329.79	306.04	4236.83	4272.83	7975.99	1248.20	-130.18	8359.04	154.67	54.29	PASS
4413.00†	4371.13	-343.25	318.53	4335.13	4371.13	7975.99	1248.20	-130.28	8371.02	157.27	53.46	PASS
4513.00†	4469.43	-356.72	331.03	4433.43	4469.43	7975.99	1248.20	-130.37	8383.03	159.88	52.66	PASS
4613.00†	4567.73	-370.18	343.52	4531.73	4567.73	7975.99	1248.20	-130.47	8395.06	162.49	51.89	PASS
4713.00†	4666.02	-383.65	356.02	4630.02	4666.02	7975.99	1248.20	-130.56	8407.11	165.11	51.13	PASS
4813.00†	4764.32	-397.11	368.51	4728.32	4764.32	7975.99	1248.20	-130.66	8419.18	167.74	50.40	PASS
4913.00†	4862.62	-410.58	381.01	4826.62	4862.62	7975.99	1248.20	-130.75	8431.28	170.37	49.69	PASS
5013.00†	4960.92	-424.04	393.51	4924.92	4960.92	7975.99	1248.20	-130.84	8443.40	173.00	49.00	PASS
5113.00†	5059.22	-437.51	406.00	5023.22	5059.22	7975.99	1248.20	-130.94	8455.54	175.64	48.33	PASS
5213.00†	5157.52	-450.98	418.50	5121.52	5157.52	7975.99	1248.20	-131.03	8467.71	178.29	47.68	PASS
5313.00†	5255.81	-464.44	430.99	5219.81	5255.81	7975.99	1248.20	-131.12	8479.90	180.94	47.05	PASS
5413.00†	5354.11	-477.91	443.49	5318.11	5354.11	7975.99	1248.20	-131.21	8492.11	183.59	46.43	PASS
5513.00†	5452.41	-491.37	455.98	5416.41	5452.41	7975.99	1248.20	-131.31	8504.34	186.25	45.83	PASS
5613.00†	5550.71	-504.84	468.48	5514.71	5550.71	7975.99	1248.20	-131.40	8516.59	188.91	45.25	PASS
5713.00†	5649.01	-518.30	480.98	5613.01	5649.01	7975.99	1248.20	-131.49	8528.87	191.58	44.68	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **BOX ELDER FARMS 32-35#4 AWB** Offset Wellpath: **BOX ELDER FARMS 32-35#4 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#03 EX BOX ELDER FARMS 32-35#4 (1980'FNL & 1980'FEL, SEC.35, 8312 PR) Well: BOX ELDER FARMS 32-35#4 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†	5747.30	-531.77	493.47	5711.30	5747.30	7975.99	1248.20	-131.58	8541.17	194.25	44.13	PASS
5913.00†	5845.60	-545.23	505.97	5809.60	5845.60	7975.99	1248.20	-131.67	8553.49	196.92	43.59	PASS
6013.00†	5943.90	-558.70	518.46	5907.90	5943.90	7975.99	1248.20	-131.76	8565.83	199.59	43.07	PASS
6113.00†	6042.20	-572.16	530.96	6006.20	6042.20	7975.99	1248.20	-131.85	8578.19	202.27	42.55	PASS
6213.00†	6140.50	-585.63	543.45	6104.50	6140.50	7975.99	1248.20	-131.94	8590.57	204.96	42.06	PASS
6313.00†	6238.80	-599.10	555.95	6202.80	6238.80	7975.99	1248.20	-132.03	8602.98	207.64	41.57	PASS
6413.00†	6337.09	-612.56	568.45	6301.09	6337.09	7975.99	1248.20	-132.12	8615.41	210.33	41.10	PASS
6513.00†	6435.39	-626.03	580.94	6399.39	6435.39	7975.99	1248.20	-132.21	8627.85	213.02	40.63	PASS
6613.00†	6533.69	-639.49	593.44	6497.69	6533.69	7975.99	1248.20	-132.30	8640.32	215.71	40.18	PASS
6713.00†	6631.99	-652.96	605.93	6595.99	6631.99	7975.99	1248.20	-132.39	8652.81	218.41	39.74	PASS
6813.00†	6730.29	-666.42	618.43	6694.29	6730.29	7975.99	1248.20	-132.48	8665.33	221.11	39.31	PASS
6913.00†	6828.59	-679.89	630.92	6792.59	6828.59	7975.99	1248.20	-132.57	8677.86	223.81	38.89	PASS
7013.00†	6926.88	-693.35	643.42	6890.88	6926.88	7975.99	1248.20	-132.66	8690.41	226.51	38.48	PASS
7105.70	7018.00	-705.84	655.00	6982.00	7018.00	7975.99	1248.20	-132.74	8702.06	229.02	38.11	PASS
7113.00†	7025.19	-706.77	655.92	6989.19	7025.19	7975.99	1248.20	-129.93	8702.94	229.21	38.08	PASS
7213.00†	7124.20	-710.27	668.49	7088.20	7124.20	7975.99	1248.20	-63.85	8705.58	232.03	37.63	PASS
7313.00†	7222.32	-696.39	680.94	7186.32	7222.32	7975.99	1248.20	-25.60	8690.91	235.25	37.05	PASS
7413.00†	7316.56	-665.54	692.88	7280.56	7316.56	7975.99	1248.20	-13.98	8659.35	238.63	36.39	PASS
7513.00†	7404.05	-618.66	703.94	7368.05	7404.05	7975.99	1248.20	-8.76	8611.87	241.60	35.75	PASS
7613.00†	7482.14	-557.19	713.80	7446.14	7482.14	7975.99	1248.20	-5.58	8549.89	244.12	35.12	PASS
7713.00†	7548.46	-482.98	722.15	7512.46	7548.46	7975.99	1248.20	-3.03	8475.30	246.17	34.53	PASS
7813.00†	7600.98	-398.29	728.74	7564.98	7600.98	7975.99	1248.20	-0.16	8390.37	247.69	33.97	PASS
7913.00†	7638.12	-305.69	733.36	7602.12	7638.12	7975.99	1248.20	4.83	8297.67	248.68	33.46	PASS
8013.00†	7658.74	-208.00	735.89	7622.74	7658.74	7975.99	1248.20	21.62	8200.01	249.16	33.00	PASS
8083.15	7663.00	-138.03	736.36	7627.00	7663.00	7975.99	1248.20	90.00	8130.14	249.20	32.71	PASS
8113.00†	7663.00	-108.18	736.33	7627.00	7663.00	7975.99	1248.20	90.00	8100.35	249.18	32.60	PASS
8213.00†	7663.00	-8.18	736.23	7627.00	7663.00	7975.99	1248.20	90.00	8000.56	249.07	32.21	PASS
8313.00†	7663.00	91.82	736.14	7627.00	7663.00	7975.99	1248.20	90.00	7900.78	248.97	31.82	PASS
8413.00†	7663.00	191.82	736.04	7627.00	7663.00	7975.99	1248.20	90.00	7801.00	248.87	31.43	PASS
8513.00†	7663.00	291.82	735.94	7627.00	7663.00	7975.99	1248.20	90.00	7701.22	248.76	31.04	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **BOX ELDER FARMS 32-35#4 AWB** Offset Wellpath: **BOX ELDER FARMS 32-35#4 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#03 EX BOX ELDER FARMS 32-35#4 (1980'FNL & 1980'FEL, SEC.35, 8312 PR) Well: BOX ELDER FARMS 32-35#4 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†	7663.00	391.82	735.84	7627.00	7663.00	7975.99	1248.20	90.00	7601.45	248.66	30.65	PASS
8713.00†	7663.00	491.82	735.75	7627.00	7663.00	7975.99	1248.20	90.00	7501.69	248.55	30.26	PASS
8813.00†	7663.00	591.82	735.65	7627.00	7663.00	7975.99	1248.20	90.00	7401.93	248.45	29.88	PASS
8913.00†	7663.00	691.82	735.55	7627.00	7663.00	7975.99	1248.20	90.00	7302.18	248.34	29.49	PASS
9013.00†	7663.00	791.82	735.46	7627.00	7663.00	7975.99	1248.20	90.00	7202.44	248.23	29.10	PASS
9113.00†	7663.00	891.82	735.36	7627.00	7663.00	7975.99	1248.20	90.00	7102.70	248.12	28.70	PASS
9213.00†	7663.00	991.82	735.26	7627.00	7663.00	7975.99	1248.20	90.00	7002.98	248.02	28.31	PASS
9313.00†	7663.00	1091.82	735.17	7627.00	7663.00	7975.99	1248.20	90.00	6903.26	247.90	27.92	PASS
9413.00†	7663.00	1191.82	735.07	7627.00	7663.00	7975.99	1248.20	90.00	6803.54	247.79	27.53	PASS
9513.00†	7663.00	1291.82	734.97	7627.00	7663.00	7975.99	1248.20	90.00	6703.84	247.68	27.14	PASS
9613.00†	7663.00	1391.82	734.87	7627.00	7663.00	7975.99	1248.20	90.00	6604.15	247.57	26.75	PASS
9713.00†	7663.00	1491.82	734.78	7627.00	7663.00	7975.99	1248.20	90.00	6504.46	247.45	26.36	PASS
9813.00†	7663.00	1591.82	734.68	7627.00	7663.00	7975.99	1248.20	90.00	6404.79	247.34	25.97	PASS
9913.00†	7663.00	1691.82	734.58	7627.00	7663.00	7975.99	1248.20	90.00	6305.12	247.22	25.57	PASS
10013.00†	7663.00	1791.82	734.49	7627.00	7663.00	7975.99	1248.20	90.00	6205.47	247.11	25.18	PASS
10113.00†	7663.00	1891.82	734.39	7627.00	7663.00	7975.99	1248.20	90.00	6105.82	246.99	24.79	PASS
10213.00†	7663.00	1991.82	734.29	7627.00	7663.00	7975.99	1248.20	90.00	6006.19	246.87	24.40	PASS
10313.00†	7663.00	2091.82	734.20	7627.00	7663.00	7975.99	1248.20	90.00	5906.57	246.75	24.00	PASS
10413.00†	7663.00	2191.82	734.10	7627.00	7663.00	7975.99	1248.20	90.00	5806.97	246.63	23.61	PASS
10513.00†	7663.00	2291.82	734.00	7627.00	7663.00	7975.99	1248.20	90.00	5707.38	246.51	23.22	PASS
10613.00†	7663.00	2391.82	733.90	7627.00	7663.00	7975.99	1248.20	90.00	5607.80	246.39	22.82	PASS
10713.00†	7663.00	2491.82	733.81	7627.00	7663.00	7975.99	1248.20	90.00	5508.24	246.27	22.43	PASS
10813.00†	7663.00	2591.82	733.71	7627.00	7663.00	7975.99	1248.20	90.00	5408.69	246.15	22.03	PASS
10913.00†	7663.00	2691.82	733.61	7627.00	7663.00	7975.99	1248.20	90.00	5309.16	246.02	21.64	PASS
11013.00†	7663.00	2791.82	733.52	7627.00	7663.00	7975.99	1248.20	90.00	5209.65	245.90	21.24	PASS
11113.00†	7663.00	2891.82	733.42	7627.00	7663.00	7975.99	1248.20	90.00	5110.16	245.78	20.85	PASS
11213.00†	7663.00	2991.82	733.32	7627.00	7663.00	7975.99	1248.20	90.00	5010.69	245.66	20.45	PASS
11313.00†	7663.00	3091.82	733.23	7627.00	7663.00	7975.99	1248.20	90.00	4911.24	245.54	20.06	PASS
11413.00†	7663.00	3191.82	733.13	7627.00	7663.00	7975.99	1248.20	90.00	4811.81	245.42	19.66	PASS
11513.00†	7663.00	3291.82	733.03	7627.00	7663.00	7975.99	1248.20	90.00	4712.41	245.30	19.26	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: BOX ELDER FARMS 32-35#4 AWB Offset Wellpath: BOX ELDER FARMS 32-35#4 AWP

Facility: SEC.35-T01S-R66W Slot: SLOT#03 EX BOX ELDER FARMS 32-35#4 (1980'FNL & 1980'FEL, SEC.35, 8312 PR) Well: BOX ELDER FARMS 32-35#4 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†	7663.00	3391.82	732.93	7627.00	7663.00	7975.99	1248.20	90.00	4613.03	245.19	18.87	PASS
11713.00†	7663.00	3491.82	732.84	7627.00	7663.00	7975.99	1248.20	90.00	4513.69	245.08	18.47	PASS
11813.00†	7663.00	3591.82	732.74	7627.00	7663.00	7975.99	1248.20	90.00	4414.37	244.97	18.07	PASS
11913.00†	7663.00	3691.82	732.64	7627.00	7663.00	7975.99	1248.20	90.00	4315.08	244.87	17.67	PASS
12013.00†	7663.00	3791.82	732.55	7627.00	7663.00	7975.99	1248.20	90.00	4215.82	244.77	17.27	PASS
12113.00†	7663.00	3891.82	732.45	7627.00	7663.00	7975.99	1248.20	90.00	4116.60	244.69	16.87	PASS
12213.00†	7663.00	3991.82	732.35	7627.00	7663.00	7975.99	1248.20	90.00	4017.42	244.61	16.47	PASS
12313.00†	7663.00	4091.82	732.26	7627.00	7663.00	7975.99	1248.20	90.00	3918.28	244.54	16.07	PASS
12413.00†	7663.00	4191.82	732.16	7627.00	7663.00	7975.99	1248.20	90.00	3819.19	244.48	15.66	PASS
12513.00†	7663.00	4291.82	732.06	7627.00	7663.00	7975.99	1248.20	90.00	3720.15	244.44	15.26	PASS
12613.00†	7663.00	4391.82	731.96	7627.00	7663.00	7975.99	1248.20	90.00	3621.15	244.42	14.86	PASS
12713.00†	7663.00	4491.82	731.87	7627.00	7663.00	7975.99	1248.20	90.00	3522.22	244.42	14.45	PASS
12813.00†	7663.00	4591.82	731.77	7627.00	7663.00	7975.99	1248.20	90.00	3423.35	244.45	14.04	PASS
12913.00†	7663.00	4691.82	731.67	7627.00	7663.00	7975.99	1248.20	90.00	3324.54	244.51	13.63	PASS
13013.00†	7663.00	4791.82	731.58	7627.00	7663.00	7975.99	1248.20	90.00	3225.81	244.60	13.22	PASS
13113.00†	7663.00	4891.82	731.48	7627.00	7663.00	7975.99	1248.20	90.00	3127.15	244.74	12.81	PASS
13213.00†	7663.00	4991.82	731.38	7627.00	7663.00	7975.99	1248.20	90.00	3028.59	244.93	12.40	PASS
13313.00†	7663.00	5091.82	731.29	7627.00	7663.00	7975.99	1248.20	90.00	2930.12	245.17	11.98	PASS
13413.00†	7663.00	5191.82	731.19	7627.00	7663.00	7975.99	1248.20	90.00	2831.77	245.49	11.57	PASS
13513.00†	7663.00	5291.82	731.09	7627.00	7663.00	7975.99	1248.20	90.00	2733.53	245.88	11.15	PASS
13613.00†	7663.00	5391.82	730.99	7627.00	7663.00	7975.99	1248.20	90.00	2635.42	246.38	10.72	PASS
13713.00†	7663.00	5491.82	730.90	7627.00	7663.00	7975.99	1248.20	90.00	2537.46	246.98	10.30	PASS
13813.00†	7663.00	5591.82	730.80	7627.00	7663.00	7975.99	1248.20	90.00	2439.66	247.72	9.87	PASS
13913.00†	7663.00	5691.82	730.70	7627.00	7663.00	7975.99	1248.20	90.00	2342.06	248.62	9.44	PASS
14013.00†	7663.00	5791.82	730.61	7627.00	7663.00	7975.99	1248.20	90.00	2244.66	249.69	9.01	PASS
14113.00†	7663.00	5891.82	730.51	7627.00	7663.00	7975.99	1248.20	90.00	2147.50	250.98	8.58	PASS
14213.00†	7663.00	5991.82	730.41	7627.00	7663.00	7975.99	1248.20	90.00	2050.62	252.51	8.14	PASS
14313.00†	7663.00	6091.82	730.31	7627.00	7663.00	7975.99	1248.20	90.00	1954.05	254.34	7.70	PASS
14413.00†	7663.00	6191.82	730.22	7627.00	7663.00	7975.99	1248.20	90.00	1857.84	256.51	7.26	PASS
14513.00†	7663.00	6291.82	730.12	7627.00	7663.00	7975.99	1248.20	90.00	1762.05	259.07	6.82	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **BOX ELDER FARMS 32-35#4 AWB** Offset Wellpath: **BOX ELDER FARMS 32-35#4 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#03 EX BOX ELDER FARMS 32-35#4 (1980'FNL & 1980'FEL, SEC.35, 8312 PR) Well: BOX ELDER FARMS 32-35#4 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
14613.00†	7663.00	6391.82	730.02	7627.00	7663.00	7975.99	1248.20	90.00	1666.76	262.10	6.37	PASS
14713.00†	7663.00	6491.82	729.93	7627.00	7663.00	7975.99	1248.20	90.00	1572.06	265.68	5.93	PASS
14813.00†	7663.00	6591.82	729.83	7627.00	7663.00	7975.99	1248.20	90.00	1478.05	269.90	5.49	PASS
14913.00†	7663.00	6691.82	729.73	7627.00	7663.00	7975.99	1248.20	90.00	1384.88	274.87	5.05	PASS
15013.00†	7663.00	6791.82	729.64	7627.00	7663.00	7975.99	1248.20	90.00	1292.74	280.75	4.61	PASS
15113.00†	7663.00	6891.82	729.54	7627.00	7663.00	7975.99	1248.20	90.00	1201.85	287.69	4.19	PASS
15213.00†	7663.00	6991.82	729.44	7627.00	7663.00	7975.99	1248.20	90.00	1112.52	295.90	3.77	PASS
15313.00†	7663.00	7091.82	729.34	7627.00	7663.00	7975.99	1248.20	90.00	1025.17	305.63	3.36	PASS
15413.00†	7663.00	7191.82	729.25	7627.00	7663.00	7975.99	1248.20	90.00	940.34	317.15	2.97	PASS
15513.00†	7663.00	7291.82	729.15	7627.00	7663.00	7975.99	1248.20	90.00	858.78	330.76	2.60	PASS
15613.00†	7663.00	7391.82	729.05	7627.00	7663.00	7975.99	1248.20	90.00	781.52	346.75	2.26	PASS
15713.00†	7663.00	7491.82	728.96	7627.00	7663.00	7975.99	1248.20	90.00	709.96	365.26	1.95	PASS
15813.00†	7663.00	7591.82	728.86	7627.00	7663.00	7975.99	1248.20	90.00	645.99	386.09	1.67	PASS
15913.00†	7663.00	7691.82	728.76	7627.00	7663.00	7975.99	1248.20	90.00	592.09	408.28	1.45	PASS
16013.00†	7663.00	7791.82	728.67	7627.00	7663.00	7975.99	1248.20	90.00	551.22	429.80	1.28	PASS
16113.00†	7663.00	7891.82	728.57	7627.00	7663.00	7975.99	1248.20	90.00	526.41	447.42	1.18	PASS
16195.76†	7663.00	7974.58	728.49	7626.00	7662.00	7975.99	1248.20	89.89	519.72	456.60	1.14	PASS
16213.00†	7663.00	7991.82	728.47	7627.00	7663.00	7975.99	1248.20	90.00	519.97	457.79	1.14	PASS
16225.26†	7663.00	8004.07	728.46	7627.00	7663.00	7975.99	1248.20	90.00	520.50	458.45	1.14	PASS
16313.00†	7663.00	8091.82	728.37	7627.00	7663.00	7975.99	1248.20	90.00	532.58	459.23	1.16	PASS
16413.00†	7663.00	8191.82	728.28	7627.00	7663.00	7975.99	1248.20	90.00	562.95	452.74	1.24	PASS
16513.00†	7663.00	8291.82	728.18	7627.00	7663.00	7975.99	1248.20	90.00	608.42	441.08	1.38	PASS
16613.00†	7663.00	8391.82	728.08	7627.00	7663.00	7975.99	1248.20	90.00	665.91	427.12	1.56	PASS
16713.00†	7663.00	8491.82	727.99	7627.00	7663.00	7975.99	1248.20	90.00	732.60	412.87	1.78	PASS
16813.00†	7663.00	8591.82	727.89	7627.00	7663.00	7975.99	1248.20	90.00	806.21	399.44	2.02	PASS
16913.00†	7663.00	8691.82	727.79	7627.00	7663.00	7975.99	1248.20	90.00	885.01	387.28	2.29	PASS
17013.00†	7663.00	8791.82	727.70	7627.00	7663.00	7975.99	1248.20	90.00	967.73	376.49	2.57	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION			
Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

POSITIONAL UNCERTAINTY - Offset Wellbore: BOX ELDER FARMS 32-35#4 AWB Offset Wellpath: BOX ELDER FARMS 32-35#4 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: BOX ELDER FARMS 32-35#4 AWB Offset Wellpath: BOX ELDER FARMS 32-35#4 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8312.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8312>	BOX ELDER FARMS 32-35#4 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: BOX ELDER FARMS 32-35#4 AWB Offset Wellpath: BOX ELDER FARMS 32-35#4 AWP

MD Reference: **Rig on SLOT#03 EX BOX ELDER FARMS 32-35#4 (1980'FNL & 1980'FEL, SEC.35, 8312 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-2NCH PWB** Offset Wellpath: **ACKARD NORTH 2-35-2NCH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#07 ACKARD NORTH 2-35-2NCH (600'FSL & 2025'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-2NCH** **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	-0.07	-29.96	-90.14	29.96	1.40	48.60	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.07	-29.96	-90.14	29.96	1.72	31.86	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.07	-29.96	-90.14	29.96	2.28	19.71	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.07	-29.96	-90.14	29.96	2.88	14.02	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.07	-29.96	-90.14	29.96	3.50	10.82	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.07	-29.96	-90.14	29.96	4.12	8.80	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.07	-29.96	-90.14	29.96	4.74	7.41	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.07	-29.96	-90.14	29.96	5.36	6.40	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.07	-29.96	-90.14	29.96	5.99	5.63	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	-0.07	-29.96	-90.14	29.96	6.61	5.02	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	-0.07	-29.96	-90.14	29.96	7.24	4.53	PASS
1113.00†	1113.00	0.00	0.00	1113.00	1113.00	-0.07	-29.96	-90.14	29.96	7.86	4.13	PASS
1213.00†	1213.00	0.00	0.00	1213.00	1213.00	-0.07	-29.96	-90.14	29.96	8.49	3.79	PASS
1313.00†	1313.00	0.00	0.00	1313.00	1313.00	-0.07	-29.96	-90.14	29.96	9.12	3.51	PASS
1413.00†	1413.00	0.00	0.00	1413.01	1413.01	-0.10	-29.96	-90.20	29.96	9.75	3.26	PASS
1513.00†	1513.00	0.00	0.00	1513.03	1513.00	-2.30	-29.79	-94.41	29.88	10.37	3.04	PASS
1600.00	1600.00	0.00	0.00	1599.83	1599.67	-7.02	-29.43	-103.41	30.26	10.93	2.91	PASS
1613.00†	1613.00	-0.02	0.02	1612.77	1612.58	-7.95	-29.36	117.76	30.43	11.02	2.90	PASS
1713.00†	1712.97	-1.63	1.52	1712.16	1711.55	-17.01	-28.67	105.76	33.91	11.74	3.03	PASS
1813.00†	1812.80	-5.80	5.38	1811.47	1810.09	-29.21	-27.73	97.30	40.64	12.40	3.41	PASS
1913.00†	1912.38	-12.52	11.62	1911.13	1908.92	-42.06	-26.75	94.79	48.54	13.11	3.86	PASS
2013.00†	2011.57	-21.78	20.22	2010.77	2007.72	-54.91	-25.76	96.46	56.80	13.82	4.28	PASS
2113.00†	2110.26	-33.58	31.16	2110.26	2106.38	-67.73	-24.78	100.68	65.66	14.60	4.67	PASS
2129.27	2126.27	-35.74	33.16	2126.43	2122.41	-69.82	-24.62	101.53	67.20	14.74	4.74	PASS
2213.00†	2208.57	-47.01	43.63	2209.60	2204.88	-80.54	-23.80	105.66	75.39	15.45	5.07	PASS
2313.00†	2306.87	-60.48	56.12	2308.93	2303.38	-93.35	-22.82	109.53	85.58	16.34	5.43	PASS
2413.00†	2405.17	-73.94	68.62	2408.26	2401.88	-106.16	-21.84	112.57	96.07	17.26	5.76	PASS
2513.00†	2503.46	-87.41	81.11	2507.60	2500.38	-118.96	-20.85	115.01	106.78	18.19	6.07	PASS
2613.00†	2601.76	-100.87	93.61	2606.93	2598.88	-131.77	-19.87	117.00	117.65	19.14	6.35	PASS
2713.00†	2700.06	-114.34	106.10	2706.26	2697.37	-144.58	-18.89	118.65	128.63	20.09	6.60	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-2NCH PWB** Offset Wellpath: **ACKARD NORTH 2-35-2NCH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W Slot: SLOT#07 ACKARD NORTH 2-35-2NCH (600'FSL & 2025'FWL, SEC.02) Well: ACKARD NORTH 2-35-2NCH 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†	2798.36	-127.80	118.60	2805.59	2795.87	-157.39	-17.91	120.04	139.70	21.05	6.83	PASS
2913.00†	2896.66	-141.27	131.10	2904.93	2894.37	-170.19	-16.93	121.23	150.84	22.01	7.05	PASS
3013.00†	2994.95	-154.73	143.59	3004.26	2992.87	-183.00	-15.95	122.25	162.04	22.98	7.24	PASS
3113.00†	3093.25	-168.20	156.09	3103.59	3091.37	-195.81	-14.97	123.14	173.28	23.96	7.42	PASS
3213.00†	3191.55	-181.67	168.58	3202.92	3189.87	-208.62	-13.99	123.93	184.55	24.94	7.59	PASS
3313.00†	3289.85	-195.13	181.08	3302.26	3288.36	-221.42	-13.00	124.62	195.86	25.92	7.74	PASS
3413.00†	3388.15	-208.60	193.57	3401.59	3386.86	-234.23	-12.02	125.24	207.19	26.90	7.88	PASS
3513.00†	3486.45	-222.06	206.07	3500.92	3485.36	-247.04	-11.04	125.79	218.54	27.89	8.01	PASS
3613.00†	3584.74	-235.53	218.57	3600.25	3583.86	-259.84	-10.06	126.29	229.92	28.88	8.14	PASS
3713.00†	3683.04	-248.99	231.06	3699.59	3682.36	-272.65	-9.08	126.74	241.30	29.88	8.25	PASS
3813.00†	3781.34	-262.46	243.56	3798.92	3780.86	-285.46	-8.10	127.15	252.70	30.87	8.35	PASS
3913.00†	3879.64	-275.92	256.05	3898.25	3879.36	-298.27	-7.12	127.52	264.11	31.87	8.45	PASS
4013.00†	3977.94	-289.39	268.55	3997.58	3977.85	-311.07	-6.13	127.87	275.54	32.87	8.54	PASS
4113.00†	4076.24	-302.85	281.04	4096.92	4076.35	-323.88	-5.15	128.18	286.97	33.87	8.63	PASS
4213.00†	4174.53	-316.32	293.54	4196.25	4174.85	-336.69	-4.17	128.48	298.41	34.88	8.71	PASS
4313.00†	4272.83	-329.79	306.04	4295.58	4273.35	-349.50	-3.19	128.75	309.85	35.88	8.79	PASS
4413.00†	4371.13	-343.25	318.53	4394.91	4371.85	-362.30	-2.21	129.00	321.31	36.89	8.86	PASS
4513.00†	4469.43	-356.72	331.03	4494.25	4470.35	-375.11	-1.23	129.23	332.76	37.89	8.93	PASS
4613.00†	4567.73	-370.18	343.52	4593.58	4568.85	-387.92	-0.25	129.45	344.23	38.90	8.99	PASS
4713.00†	4666.02	-383.65	356.02	4692.91	4667.34	-400.73	0.74	129.66	355.70	39.91	9.05	PASS
4813.00†	4764.32	-397.11	368.51	4792.24	4765.84	-413.53	1.72	129.85	367.17	40.92	9.11	PASS
4913.00†	4862.62	-410.58	381.01	4891.58	4864.34	-426.34	2.70	130.03	378.64	41.93	9.17	PASS
5013.00†	4960.92	-424.04	393.51	4990.91	4962.84	-439.15	3.68	130.20	390.12	42.95	9.22	PASS
5113.00†	5059.22	-437.51	406.00	5090.24	5061.34	-451.95	4.66	130.36	401.61	43.96	9.27	PASS
5213.00†	5157.52	-450.98	418.50	5189.57	5159.84	-464.76	5.64	130.51	413.09	44.97	9.32	PASS
5313.00†	5255.81	-464.44	430.99	5288.91	5258.33	-477.57	6.62	130.65	424.58	45.99	9.36	PASS
5413.00†	5354.11	-477.91	443.49	5388.24	5356.83	-490.38	7.61	130.79	436.07	47.00	9.40	PASS
5513.00†	5452.41	-491.37	455.98	5487.57	5455.33	-503.18	8.59	130.91	447.56	48.02	9.44	PASS
5613.00†	5550.71	-504.84	468.48	5586.90	5553.83	-515.99	9.57	131.04	459.06	49.04	9.48	PASS
5713.00†	5649.01	-518.30	480.98	5686.24	5652.33	-528.80	10.55	131.15	470.56	50.06	9.52	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-2NCH PWB** Offset Wellpath: **ACKARD NORTH 2-35-2NCH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#07 ACKARD NORTH 2-35-2NCH (600'FSL & 2025'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-2NCH** **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
5813.00†	5747.30	-531.77	493.47	5785.57	5750.83	-541.61	11.53	131.26	482.05	51.07	9.56	PASS
5913.00†	5845.60	-545.23	505.97	5884.90	5849.33	-554.41	12.51	131.37	493.55	52.09	9.59	PASS
6013.00†	5943.90	-558.70	518.46	5984.23	5947.82	-567.22	13.49	131.47	505.06	53.11	9.62	PASS
6113.00†	6042.20	-572.16	530.96	6083.57	6046.32	-580.03	14.47	131.56	516.56	54.13	9.66	PASS
6213.00†	6140.50	-585.63	543.45	6182.90	6144.82	-592.83	15.46	131.66	528.06	55.15	9.69	PASS
6313.00†	6238.80	-599.10	555.95	6282.23	6243.32	-605.64	16.44	131.74	539.57	56.17	9.72	PASS
6413.00†	6337.09	-612.56	568.45	6381.56	6341.82	-618.45	17.42	131.83	551.08	57.19	9.74	PASS
6513.00†	6435.39	-626.03	580.94	6480.90	6440.32	-631.26	18.40	131.91	562.59	58.21	9.77	PASS
6613.00†	6533.69	-639.49	593.44	6580.23	6538.82	-644.06	19.38	131.99	574.10	59.23	9.80	PASS
6713.00†	6631.99	-652.96	605.93	6679.56	6637.31	-656.87	20.36	132.06	585.61	60.25	9.82	PASS
6813.00†	6730.29	-666.42	618.43	6778.89	6735.81	-669.68	21.34	132.13	597.12	61.28	9.85	PASS
6913.00†	6828.59	-679.89	630.92	6878.23	6834.31	-682.49	22.33	132.20	608.63	62.30	9.87	PASS
7013.00†	6926.88	-693.35	643.42	6977.56	6932.81	-695.29	23.31	132.27	620.14	63.32	9.89	PASS
7105.70	7018.00	-705.84	655.00	7069.64	7024.11	-707.17	24.22	132.33	630.82	64.27	9.91	PASS
7113.00†	7025.19	-706.77	655.92	7076.89	7031.31	-708.10	24.29	135.23	631.66	64.34	9.91	PASS
7213.00†	7124.20	-710.27	668.49	7176.21	7130.41	-712.31	25.25	-157.48	643.27	65.65	9.89	PASS
7313.00†	7222.32	-696.39	680.94	7275.68	7228.89	-699.32	26.17	-118.17	654.81	67.76	9.76	PASS
7413.00†	7316.56	-665.54	692.88	7375.36	7323.86	-669.44	27.00	-105.68	665.93	68.48	9.82	PASS
7513.00†	7404.05	-618.66	703.94	7475.33	7412.45	-623.42	27.73	-99.86	676.28	67.23	10.16	PASS
7613.00†	7482.14	-557.19	713.80	7575.62	7491.95	-562.50	28.34	-96.45	685.55	65.52	10.57	PASS
7713.00†	7548.46	-482.98	722.15	7676.23	7559.83	-488.40	28.80	-94.24	693.46	63.55	11.02	PASS
7813.00†	7600.98	-398.29	728.74	7777.17	7613.87	-403.30	29.10	-92.76	699.78	61.52	11.50	PASS
7913.00†	7638.12	-305.69	733.36	7878.35	7652.23	-309.81	29.22	-91.82	704.29	59.71	11.92	PASS
8013.00†	7658.74	-208.00	735.89	7979.72	7673.59	-210.86	29.17	-91.32	706.88	58.27	12.27	PASS
8083.15	7663.00	-138.03	736.36	8050.88	7678.00	-139.88	29.02	-91.22	707.50	57.51	12.44	PASS
8113.00†	7663.00	-108.18	736.33	8080.73	7678.00	-110.03	28.95	-91.22	707.55	57.30	12.49	PASS
8213.00†	7663.00	-8.18	736.23	8180.73	7678.00	-10.03	28.68	-91.21	707.71	57.03	12.55	PASS
8313.00†	7663.00	91.82	736.14	8280.73	7678.00	89.97	28.42	-91.21	707.87	57.45	12.46	PASS
8413.00†	7663.00	191.82	736.04	8380.73	7678.00	189.97	28.16	-91.21	708.04	58.56	12.23	PASS
8513.00†	7663.00	291.82	735.94	8480.73	7678.00	289.97	27.90	-91.21	708.20	60.30	11.87	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-2NCH PWB** Offset Wellpath: **ACKARD NORTH 2-35-2NCH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W Slot: SLOT#07 ACKARD NORTH 2-35-2NCH (600'FSL & 2025'FWL, SEC.02) Well: ACKARD NORTH 2-35-2NCH 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
8613.00†	7663.00	391.82	735.84	8580.73	7678.00	389.97	27.64	-91.21	708.37	62.61	11.43	PASS
8713.00†	7663.00	491.82	735.75	8680.73	7678.00	489.97	27.38	-91.21	708.53	65.46	10.93	PASS
8813.00†	7663.00	591.82	735.65	8780.73	7678.00	589.97	27.11	-91.21	708.70	68.78	10.40	PASS
8913.00†	7663.00	691.82	735.55	8880.73	7678.00	689.97	26.85	-91.21	708.86	72.49	9.87	PASS
9013.00†	7663.00	791.82	735.46	8980.73	7678.00	789.97	26.59	-91.21	709.03	76.53	9.34	PASS
9113.00†	7663.00	891.82	735.36	9080.73	7678.00	889.97	26.33	-91.21	709.19	81.02	8.82	PASS
9213.00†	7663.00	991.82	735.26	9180.73	7678.00	989.96	26.07	-91.21	709.36	85.43	8.36	PASS
9313.00†	7663.00	1091.82	735.17	9280.73	7678.00	1089.96	25.80	-91.21	709.52	90.21	7.92	PASS
9413.00†	7663.00	1191.82	735.07	9380.73	7678.00	1189.96	25.54	-91.21	709.69	95.15	7.51	PASS
9513.00†	7663.00	1291.82	734.97	9480.73	7678.00	1289.96	25.28	-91.21	709.85	100.25	7.12	PASS
9613.00†	7663.00	1391.82	734.87	9580.73	7678.00	1389.96	25.02	-91.21	710.02	105.46	6.77	PASS
9713.00†	7663.00	1491.82	734.78	9680.73	7678.00	1489.96	24.76	-91.21	710.18	110.80	6.44	PASS
9813.00†	7663.00	1591.82	734.68	9780.73	7678.00	1589.96	24.50	-91.21	710.35	116.22	6.14	PASS
9913.00†	7663.00	1691.82	734.58	9880.73	7678.00	1689.96	24.23	-91.21	710.51	121.73	5.87	PASS
10013.00†	7663.00	1791.82	734.49	9980.73	7678.00	1789.96	23.97	-91.21	710.68	127.30	5.61	PASS
10113.00†	7663.00	1891.82	734.39	10080.73	7678.00	1889.96	23.71	-91.21	710.84	132.94	5.37	PASS
10213.00†	7663.00	1991.82	734.29	10180.73	7678.00	1989.96	23.45	-91.21	711.00	138.63	5.15	PASS
10313.00†	7663.00	2091.82	734.20	10280.73	7678.00	2089.96	23.19	-91.21	711.17	144.36	4.95	PASS
10413.00†	7663.00	2191.82	734.10	10380.73	7678.00	2189.96	22.92	-91.21	711.33	150.14	4.76	PASS
10513.00†	7663.00	2291.82	734.00	10480.73	7678.00	2289.96	22.66	-91.21	711.50	155.96	4.58	PASS
10613.00†	7663.00	2391.82	733.90	10580.73	7678.00	2389.96	22.40	-91.21	711.66	161.81	4.41	PASS
10713.00†	7663.00	2491.82	733.81	10680.73	7678.00	2489.96	22.14	-91.21	711.83	167.69	4.26	PASS
10813.00†	7663.00	2591.82	733.71	10780.73	7678.00	2589.96	21.88	-91.21	711.99	173.59	4.11	PASS
10913.00†	7663.00	2691.82	733.61	10880.73	7678.00	2689.96	21.62	-91.21	712.16	179.52	3.98	PASS
11013.00†	7663.00	2791.82	733.52	10980.72	7678.00	2789.96	21.35	-91.21	712.32	185.47	3.85	PASS
11113.00†	7663.00	2891.82	733.42	11080.72	7678.00	2889.96	21.09	-91.21	712.49	191.44	3.73	PASS
11213.00†	7663.00	2991.82	733.32	11180.72	7678.00	2989.96	20.83	-91.21	712.65	197.43	3.62	PASS
11313.00†	7663.00	3091.82	733.23	11280.72	7678.00	3089.95	20.57	-91.21	712.82	203.44	3.51	PASS
11413.00†	7663.00	3191.82	733.13	11380.72	7678.00	3189.95	20.31	-91.21	712.98	209.46	3.41	PASS
11513.00†	7663.00	3291.82	733.03	11480.72	7678.00	3289.95	20.05	-91.21	713.15	215.49	3.32	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-2NCH PWB** Offset Wellpath: **ACKARD NORTH 2-35-2NCH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W Slot: SLOT#07 ACKARD NORTH 2-35-2NCH (600'FSL & 2025'FWL, SEC.02) Well: ACKARD NORTH 2-35-2NCH 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
11613.00†	7663.00	3391.82	732.93	11580.72	7678.00	3389.95	19.78	-91.21	713.31	221.54	3.23	PASS
11713.00†	7663.00	3491.82	732.84	11680.72	7678.00	3489.95	19.52	-91.21	713.48	227.60	3.14	PASS
11813.00†	7663.00	3591.82	732.74	11780.72	7678.00	3589.95	19.26	-91.20	713.64	233.67	3.06	PASS
11913.00†	7663.00	3691.82	732.64	11880.72	7678.00	3689.95	19.00	-91.20	713.81	239.75	2.98	PASS
12013.00†	7663.00	3791.82	732.55	11980.72	7678.00	3789.95	18.74	-91.20	713.97	245.84	2.91	PASS
12113.00†	7663.00	3891.82	732.45	12080.72	7678.00	3889.95	18.47	-91.20	714.13	251.93	2.84	PASS
12213.00†	7663.00	3991.82	732.35	12180.72	7678.00	3989.95	18.21	-91.20	714.30	258.04	2.77	PASS
12313.00†	7663.00	4091.82	732.26	12280.72	7678.00	4089.95	17.95	-91.20	714.46	264.15	2.71	PASS
12413.00†	7663.00	4191.82	732.16	12380.72	7678.00	4189.95	17.69	-91.20	714.63	270.27	2.65	PASS
12513.00†	7663.00	4291.82	732.06	12480.72	7678.00	4289.95	17.43	-91.20	714.79	276.39	2.59	PASS
12613.00†	7663.00	4391.82	731.96	12580.72	7678.00	4389.95	17.17	-91.20	714.96	282.52	2.53	PASS
12713.00†	7663.00	4491.82	731.87	12680.72	7678.00	4489.95	16.90	-91.20	715.12	288.66	2.48	PASS
12813.00†	7663.00	4591.82	731.77	12780.72	7678.00	4589.95	16.64	-91.20	715.29	294.80	2.43	PASS
12913.00†	7663.00	4691.82	731.67	12880.72	7678.00	4689.95	16.38	-91.20	715.45	300.95	2.38	PASS
13013.00†	7663.00	4791.82	731.58	12980.72	7678.00	4789.95	16.12	-91.20	715.62	307.10	2.33	PASS
13113.00†	7663.00	4891.82	731.48	13080.72	7678.00	4889.95	15.86	-91.20	715.78	313.25	2.29	PASS
13213.00†	7663.00	4991.82	731.38	13180.72	7678.00	4989.95	15.60	-91.20	715.95	319.41	2.24	PASS
13313.00†	7663.00	5091.82	731.29	13280.72	7678.00	5089.95	15.33	-91.20	716.11	325.57	2.20	PASS
13413.00†	7663.00	5191.82	731.19	13380.72	7678.00	5189.94	15.07	-91.20	716.28	331.74	2.16	PASS
13513.00†	7663.00	5291.82	731.09	13480.72	7678.00	5289.94	14.81	-91.20	716.44	337.91	2.12	PASS
13613.00†	7663.00	5391.82	730.99	13580.72	7678.00	5389.94	14.55	-91.20	716.61	344.08	2.08	PASS
13713.00†	7663.00	5491.82	730.90	13680.72	7678.00	5489.94	14.29	-91.20	716.77	350.26	2.05	PASS
13813.00†	7663.00	5591.82	730.80	13780.72	7678.00	5589.94	14.02	-91.20	716.93	356.44	2.01	PASS
13913.00†	7663.00	5691.82	730.70	13880.72	7678.00	5689.94	13.76	-91.20	717.10	362.62	1.98	PASS
14013.00†	7663.00	5791.82	730.61	13980.72	7678.00	5789.94	13.50	-91.20	717.26	368.81	1.95	PASS
14113.00†	7663.00	5891.82	730.51	14080.72	7678.00	5889.94	13.24	-91.20	717.43	374.99	1.91	PASS
14213.00†	7663.00	5991.82	730.41	14180.72	7678.00	5989.94	12.98	-91.20	717.59	381.18	1.88	PASS
14313.00†	7663.00	6091.82	730.31	14280.72	7678.00	6089.94	12.72	-91.20	717.76	387.38	1.85	PASS
14413.00†	7663.00	6191.82	730.22	14380.72	7678.00	6189.94	12.45	-91.20	717.92	393.57	1.83	PASS
14513.00†	7663.00	6291.82	730.12	14480.72	7678.00	6289.94	12.19	-91.20	718.09	399.77	1.80	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-2NCH PWB** Offset Wellpath: **ACKARD NORTH 2-35-2NCH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W Slot: SLOT#07 ACKARD NORTH 2-35-2NCH (600'FSL & 2025'FWL, SEC.02) Well: ACKARD NORTH 2-35-2NCH 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
14613.00†	7663.00	6391.82	730.02	14580.72	7678.00	6389.94	11.93	-91.20	718.25	405.96	1.77	PASS
14713.00†	7663.00	6491.82	729.93	14680.72	7678.00	6489.94	11.67	-91.20	718.42	412.16	1.74	PASS
14813.00†	7663.00	6591.82	729.83	14780.72	7678.00	6589.94	11.41	-91.20	718.58	418.37	1.72	PASS
14913.00†	7663.00	6691.82	729.73	14880.72	7678.00	6689.94	11.14	-91.20	718.75	424.57	1.69	PASS
15013.00†	7663.00	6791.82	729.64	14980.72	7678.00	6789.94	10.88	-91.20	718.91	430.77	1.67	PASS
15113.00†	7663.00	6891.82	729.54	15080.72	7678.00	6889.94	10.62	-91.20	719.08	436.98	1.65	PASS
15213.00†	7663.00	6991.82	729.44	15180.72	7678.00	6989.94	10.36	-91.20	719.24	443.19	1.62	PASS
15313.00†	7663.00	7091.82	729.34	15280.72	7678.00	7089.94	10.10	-91.20	719.41	449.40	1.60	PASS
15413.00†	7663.00	7191.82	729.25	15380.72	7678.00	7189.94	9.84	-91.19	719.57	455.61	1.58	PASS
15513.00†	7663.00	7291.82	729.15	15480.72	7678.00	7289.93	9.57	-91.19	719.74	461.82	1.56	PASS
15613.00†	7663.00	7391.82	729.05	15580.72	7678.00	7389.93	9.31	-91.19	719.90	468.03	1.54	PASS
15713.00†	7663.00	7491.82	728.96	15680.72	7678.00	7489.93	9.05	-91.19	720.06	474.25	1.52	PASS
15813.00†	7663.00	7591.82	728.86	15780.72	7678.00	7589.93	8.79	-91.19	720.23	480.47	1.50	PASS
15913.00†	7663.00	7691.82	728.76	15880.72	7678.00	7689.93	8.53	-91.19	720.39	486.68	1.48	PASS
16013.00†	7663.00	7791.82	728.67	15980.72	7678.00	7789.93	8.27	-91.19	720.56	492.90	1.46	PASS
16113.00†	7663.00	7891.82	728.57	16080.72	7678.00	7889.93	8.00	-91.19	720.72	499.12	1.44	PASS
16213.00†	7663.00	7991.82	728.47	16180.72	7678.00	7989.93	7.74	-91.19	720.89	505.34	1.43	PASS
16313.00†	7663.00	8091.82	728.37	16280.72	7678.00	8089.93	7.48	-91.19	721.05	511.56	1.41	PASS
16413.00†	7663.00	8191.82	728.28	16380.72	7678.00	8189.93	7.22	-91.19	721.22	517.78	1.39	PASS
16513.00†	7663.00	8291.82	728.18	16480.72	7678.00	8289.93	6.96	-91.19	721.38	524.01	1.38	PASS
16613.00†	7663.00	8391.82	728.08	16580.72	7678.00	8389.93	6.69	-91.19	721.55	530.23	1.36	PASS
16713.00†	7663.00	8491.82	727.99	16680.72	7678.00	8489.93	6.43	-91.19	721.71	536.45	1.35	PASS
16813.00†	7663.00	8591.82	727.89	16780.72	7678.00	8589.93	6.17	-91.19	721.88	542.68	1.33	PASS
16913.00†	7663.00	8691.82	727.79	16880.72	7678.00	8689.93	5.91	-91.19	722.04	548.91	1.32	PASS
17013.00†	7663.00	8791.82	727.70	16980.72	7678.00	8789.93	5.65	-91.19	722.21	555.13	1.30	PASS
17113.00†	7663.00	8891.82	727.60	17080.72	7678.00	8889.93	5.39	-91.19	722.37	561.36	1.29	PASS
17213.00†	7663.00	8991.82	727.50	17180.72	7678.00	8989.93	5.12	-91.19	722.54	567.59	1.27	PASS
17313.00†	7663.00	9091.82	727.40	17280.72	7678.00	9089.93	4.86	-91.19	722.70	573.82	1.26	PASS
17413.00†	7663.00	9191.82	727.31	17380.72	7678.00	9189.93	4.60	-91.19	722.87	580.05	1.25	PASS
17513.00†	7663.00	9291.82	727.21	17480.72	7678.00	9289.93	4.34	-91.19	723.03	586.28	1.23	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-2NCH PWB Offset Wellpath: ACKARD NORTH 2-35-2NCH PWP (REV. A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#07 ACKARD NORTH 2-35-2NCH (600'FSL & 2025'FWL, SEC.02) Well: ACKARD NORTH 2-35-2NCH 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
17613.00†	7663.00	9391.82	727.11	17580.72	7678.00	9389.92	4.08	-91.19	723.19	592.51	1.22	PASS
17713.00†	7663.00	9491.82	727.02	17680.72	7678.00	9489.92	3.82	-91.19	723.36	598.74	1.21	PASS
17807.10	7663.00	9585.92	726.93	17770.56	7678.00	9579.77	3.58	-91.19	723.53	604.31	1.20	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ACKARD NORTH 2-35-2NCH PWB Offset Wellpath: ACKARD NORTH 2-35-2NCH PWP (REV. A.0)

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

HOLE & CASING SECTIONS - Offset Wellbore: ACKARD NORTH 2-35-2NCH PWB Offset Wellpath: ACKARD NORTH 2-35-2NCH 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	1798.72	-0.04	-18.27	-8.47	-17.62
8.5in Open Hole	1800.00	17770.56	15970.56	1798.72	7678.00	-8.47	-17.62	2919.89	-8.04

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: ACKARD NORTH 2-35-2NCH PWP (REV. A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	20586.05	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-2NCH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: ACKARD NORTH 2-35-2NCH PWB Offset Wellpath: ACKARD NORTH 2-35-2NCH 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3NAH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3NAH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#11 ACKARD NORTH 2-35-3NAH (600'FSL & 2085'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-3NAH** **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	0.07	29.96	89.86	29.96	1.40	48.60	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	0.07	29.96	89.86	29.96	1.72	31.86	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	0.07	29.96	89.86	29.96	2.28	19.71	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	0.07	29.96	89.86	29.96	2.88	14.02	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	0.07	29.96	89.86	29.96	3.50	10.82	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	0.07	29.96	89.86	29.96	4.12	8.80	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	0.07	29.96	89.86	29.96	4.74	7.41	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	0.07	29.96	89.86	29.96	5.36	6.40	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	0.07	29.96	89.86	29.96	5.99	5.63	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	0.07	29.96	89.86	29.96	6.61	5.02	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	0.07	29.96	89.86	29.96	7.24	4.53	PASS
1113.00†	1113.00	0.00	0.00	1113.00	1113.00	0.07	29.96	89.86	29.96	7.86	4.13	PASS
1213.00†	1213.00	0.00	0.00	1213.00	1213.00	0.07	29.96	89.86	29.96	8.49	3.79	PASS
1313.00†	1313.00	0.00	0.00	1313.00	1313.00	0.07	29.96	89.86	29.96	9.12	3.51	PASS
1413.00†	1413.00	0.00	0.00	1412.88	1412.88	0.06	29.99	89.89	29.99	9.74	3.26	PASS
1513.00†	1513.00	0.00	0.00	1511.94	1511.91	-1.04	31.85	91.87	31.88	10.43	3.23	PASS
1600.00	1600.00	0.00	0.00	1597.90	1597.75	-3.41	35.84	95.43	36.08	11.20	3.39	PASS
1613.00†	1613.00	-0.02	0.02	1610.72	1610.53	-3.88	36.63	-41.12	36.89	11.29	3.44	PASS
1713.00†	1712.97	-1.63	1.52	1709.21	1708.61	-8.42	44.31	-38.00	43.55	12.16	3.76	PASS
1813.00†	1812.80	-5.80	5.38	1807.43	1806.06	-14.67	54.85	-36.71	50.70	13.05	4.05	PASS
1913.00†	1912.38	-12.52	11.62	1905.40	1902.78	-22.59	68.22	-36.59	58.29	13.97	4.34	PASS
2013.00†	2011.57	-21.78	20.22	2003.09	1998.64	-32.16	84.38	-37.24	66.27	14.87	4.63	PASS
2113.00†	2110.26	-33.58	31.16	2100.50	2093.54	-43.36	103.28	-38.40	74.68	15.73	4.92	PASS
2129.27	2126.27	-35.74	33.16	2116.32	2108.88	-45.34	106.61	-38.62	76.09	15.86	4.98	PASS
2213.00†	2208.57	-47.01	43.63	2198.33	2188.08	-56.18	124.91	-39.50	84.33	16.44	5.31	PASS
2313.00†	2306.87	-60.48	56.12	2297.79	2283.99	-69.60	147.57	-40.22	94.71	17.16	5.71	PASS
2413.00†	2405.17	-73.94	68.62	2397.24	2379.89	-83.02	170.22	-40.80	105.10	17.94	6.06	PASS
2513.00†	2503.46	-87.41	81.11	2496.69	2475.80	-96.44	192.88	-41.28	115.49	18.72	6.37	PASS
2613.00†	2601.76	-100.87	93.61	2596.15	2571.70	-109.86	215.53	-41.68	125.90	19.55	6.64	PASS
2713.00†	2700.06	-114.34	106.10	2695.60	2667.61	-123.29	238.19	-42.01	136.31	20.41	6.88	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3NAH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3NAH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#11 ACKARD NORTH 2-35-3NAH (600'FSL & 2085'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-3NAH** **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†	2798.36	-127.80	118.60	2795.06	2763.51	-136.71	260.84	-42.30	146.72	21.30	7.09	PASS
2913.00†	2896.66	-141.27	131.10	2894.51	2859.41	-150.13	283.50	-42.55	157.14	22.20	7.28	PASS
3013.00†	2994.95	-154.73	143.59	2993.96	2955.32	-163.55	306.15	-42.77	167.56	23.13	7.44	PASS
3113.00†	3093.25	-168.20	156.09	3093.42	3051.22	-176.97	328.81	-42.96	177.98	24.08	7.59	PASS
3213.00†	3191.55	-181.67	168.58	3192.87	3147.13	-190.39	351.47	-43.14	188.40	25.04	7.71	PASS
3313.00†	3289.85	-195.13	181.08	3292.32	3243.03	-203.82	374.12	-43.29	198.83	26.01	7.83	PASS
3413.00†	3388.15	-208.60	193.57	3391.78	3338.94	-217.24	396.78	-43.43	209.25	27.00	7.93	PASS
3513.00†	3486.45	-222.06	206.07	3491.23	3434.84	-230.66	419.43	-43.56	219.68	27.99	8.03	PASS
3613.00†	3584.74	-235.53	218.57	3590.69	3530.75	-244.08	442.09	-43.67	230.11	29.00	8.11	PASS
3713.00†	3683.04	-248.99	231.06	3690.14	3626.65	-257.50	464.74	-43.77	240.54	30.01	8.18	PASS
3813.00†	3781.34	-262.46	243.56	3789.59	3722.55	-270.93	487.40	-43.87	250.97	31.03	8.25	PASS
3913.00†	3879.64	-275.92	256.05	3889.05	3818.46	-284.35	510.05	-43.96	261.40	32.06	8.31	PASS
4013.00†	3977.94	-289.39	268.55	3988.50	3914.36	-297.77	532.71	-44.04	271.83	33.09	8.37	PASS
4113.00†	4076.24	-302.85	281.04	4087.95	4010.27	-311.19	555.36	-44.11	282.26	34.13	8.42	PASS
4213.00†	4174.53	-316.32	293.54	4187.41	4106.17	-324.61	578.02	-44.18	292.69	35.18	8.47	PASS
4313.00†	4272.83	-329.79	306.04	4286.86	4202.08	-338.03	600.67	-44.25	303.13	36.23	8.51	PASS
4413.00†	4371.13	-343.25	318.53	4386.32	4297.98	-351.46	623.33	-44.31	313.56	37.28	8.55	PASS
4513.00†	4469.43	-356.72	331.03	4485.77	4393.88	-364.88	645.98	-44.37	323.99	38.34	8.59	PASS
4613.00†	4567.73	-370.18	343.52	4585.22	4489.79	-378.30	668.64	-44.42	334.43	39.40	8.62	PASS
4713.00†	4666.02	-383.65	356.02	4684.68	4585.69	-391.72	691.29	-44.47	344.86	40.46	8.66	PASS
4813.00†	4764.32	-397.11	368.51	4784.13	4681.60	-405.14	713.95	-44.52	355.29	41.53	8.69	PASS
4913.00†	4862.62	-410.58	381.01	4883.58	4777.50	-418.56	736.60	-44.56	365.73	42.60	8.71	PASS
5013.00†	4960.92	-424.04	393.51	4983.04	4873.41	-431.99	759.26	-44.60	376.16	43.67	8.74	PASS
5113.00†	5059.22	-437.51	406.00	5082.49	4969.31	-445.41	781.91	-44.64	386.60	44.75	8.76	PASS
5213.00†	5157.52	-450.98	418.50	5181.95	5065.22	-458.83	804.57	-44.68	397.03	45.83	8.78	PASS
5313.00†	5255.81	-464.44	430.99	5281.40	5161.12	-472.25	827.22	-44.72	407.47	46.91	8.80	PASS
5413.00†	5354.11	-477.91	443.49	5380.85	5257.02	-485.67	849.88	-44.75	417.90	47.99	8.82	PASS
5513.00†	5452.41	-491.37	455.98	5480.31	5352.93	-499.09	872.54	-44.78	428.34	49.07	8.84	PASS
5613.00†	5550.71	-504.84	468.48	5579.76	5448.83	-512.52	895.19	-44.81	438.77	50.16	8.86	PASS
5713.00†	5649.01	-518.30	480.98	5679.21	5544.74	-525.94	917.85	-44.84	449.21	51.24	8.88	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3NAH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3NAH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#11 ACKARD NORTH 2-35-3NAH (600'FSL & 2085'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-3NAH** **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†	5747.30	-531.77	493.47	5778.67	5640.64	-539.36	940.50	-44.87	459.64	52.33	8.89	PASS
5913.00†	5845.60	-545.23	505.97	5878.12	5736.55	-552.78	963.16	-44.90	470.08	53.42	8.90	PASS
6013.00†	5943.90	-558.70	518.46	5977.58	5832.45	-566.20	985.81	-44.92	480.51	54.51	8.92	PASS
6113.00†	6042.20	-572.16	530.96	6077.03	5928.35	-579.63	1008.47	-44.95	490.95	55.60	8.93	PASS
6213.00†	6140.50	-585.63	543.45	6176.48	6024.26	-593.05	1031.12	-44.97	501.38	56.69	8.94	PASS
6313.00†	6238.80	-599.10	555.95	6275.94	6120.16	-606.47	1053.78	-44.99	511.82	57.79	8.95	PASS
6413.00†	6337.09	-612.56	568.45	6375.39	6216.07	-619.89	1076.43	-45.02	522.26	58.88	8.97	PASS
6513.00†	6435.39	-626.03	580.94	6474.84	6311.97	-633.31	1099.09	-45.04	532.69	59.98	8.98	PASS
6613.00†	6533.69	-639.49	593.44	6574.30	6407.88	-646.73	1121.74	-45.06	543.13	61.07	8.99	PASS
6713.00†	6631.99	-652.96	605.93	6673.75	6503.78	-660.16	1144.40	-45.08	553.56	62.17	8.99	PASS
6813.00†	6730.29	-666.42	618.43	6773.21	6599.69	-673.58	1167.05	-45.09	564.00	63.27	9.00	PASS
6913.00†	6828.59	-679.89	630.92	6872.66	6695.59	-687.00	1189.71	-45.11	574.44	64.37	9.01	PASS
7013.00†	6926.88	-693.35	643.42	6972.11	6791.49	-700.42	1212.36	-45.13	584.87	65.47	9.02	PASS
7105.70	7018.00	-705.84	655.00	7064.26	6880.79	-707.99	1233.49	-45.62	594.54	66.64	9.01	PASS
7113.00†	7025.19	-706.77	655.92	7071.43	6887.76	-707.98	1235.15	-42.97	595.31	66.76	9.00	PASS
7213.00†	7124.20	-710.27	668.49	7168.48	6981.65	-699.03	1257.48	20.95	606.10	68.00	9.00	PASS
7313.00†	7222.32	-696.39	680.94	7263.58	7070.94	-674.59	1278.83	57.02	617.15	68.63	9.08	PASS
7413.00†	7316.56	-665.54	692.88	7357.04	7153.63	-636.13	1298.72	66.49	628.06	68.28	9.28	PASS
7513.00†	7404.05	-618.66	703.94	7449.11	7228.09	-585.22	1316.74	69.58	638.44	67.05	9.61	PASS
7613.00†	7482.14	-557.19	713.80	7540.09	7292.91	-523.51	1332.55	70.62	647.92	65.34	10.01	PASS
7713.00†	7548.46	-482.98	722.15	7630.22	7346.95	-452.74	1345.87	70.87	656.16	63.39	10.46	PASS
7813.00†	7600.98	-398.29	728.74	7719.74	7389.28	-374.68	1356.46	70.81	662.88	61.48	10.90	PASS
7913.00†	7638.12	-305.69	733.36	7808.88	7419.16	-291.14	1364.14	70.69	667.86	59.87	11.28	PASS
8013.00†	7658.74	-208.00	735.89	7897.84	7436.05	-204.02	1368.76	70.61	670.92	58.80	11.54	PASS
8083.15	7663.00	-138.03	736.36	7960.25	7439.97	-141.78	1370.13	70.61	671.88	58.41	11.63	PASS
8113.00†	7663.00	-108.18	736.33	7989.38	7440.00	-112.65	1370.34	70.62	672.10	58.34	11.65	PASS
8213.00†	7663.00	-8.18	736.23	8089.37	7440.00	-12.65	1371.04	70.64	672.86	58.49	11.63	PASS
8313.00†	7663.00	91.82	736.14	8189.37	7440.00	87.34	1371.75	70.67	673.61	59.27	11.49	PASS
8413.00†	7663.00	191.82	736.04	8289.37	7440.00	187.34	1372.45	70.69	674.37	60.62	11.24	PASS
8513.00†	7663.00	291.82	735.94	8389.37	7440.00	287.33	1373.16	70.71	675.12	62.53	10.91	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3NAH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3NAH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#11 ACKARD NORTH 2-35-3NAH (600'FSL & 2085'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-3NAH** **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†	7663.00	391.82	735.84	8489.36	7440.00	387.33	1373.86	70.73	675.88	64.93	10.51	PASS
8713.00†	7663.00	491.82	735.75	8589.36	7440.00	487.32	1374.57	70.76	676.64	67.78	10.08	PASS
8813.00†	7663.00	591.82	735.65	8689.36	7440.00	587.31	1375.27	70.78	677.40	72.00	9.49	PASS
8913.00†	7663.00	691.82	735.55	8789.35	7440.00	687.31	1375.98	70.80	678.15	74.61	9.17	PASS
9013.00†	7663.00	791.82	735.46	8889.35	7440.00	787.30	1376.68	70.82	678.91	78.48	8.72	PASS
9113.00†	7663.00	891.82	735.36	8989.35	7440.00	887.30	1377.39	70.85	679.67	82.61	8.29	PASS
9213.00†	7663.00	991.82	735.26	9089.34	7440.00	987.29	1378.09	70.87	680.42	86.95	7.88	PASS
9313.00†	7663.00	1091.82	735.17	9189.34	7440.00	1087.29	1378.79	70.89	681.18	91.47	7.50	PASS
9413.00†	7663.00	1191.82	735.07	9289.34	7440.00	1187.28	1379.50	70.91	681.94	96.16	7.14	PASS
9513.00†	7663.00	1291.82	734.97	9389.33	7440.00	1287.27	1380.20	70.93	682.70	100.98	6.80	PASS
9613.00†	7663.00	1391.82	734.87	9489.33	7440.00	1387.27	1380.91	70.96	683.45	105.92	6.49	PASS
9713.00†	7663.00	1491.82	734.78	9589.33	7440.00	1487.26	1381.61	70.98	684.21	110.97	6.20	PASS
9813.00†	7663.00	1591.82	734.68	9689.32	7440.00	1587.26	1382.32	71.00	684.97	116.10	5.93	PASS
9913.00†	7663.00	1691.82	734.58	9789.32	7440.00	1687.25	1383.02	71.02	685.73	121.31	5.68	PASS
10013.00†	7663.00	1791.82	734.49	9889.32	7440.00	1787.25	1383.73	71.04	686.49	126.59	5.45	PASS
10113.00†	7663.00	1891.82	734.39	9989.31	7440.00	1887.24	1384.43	71.07	687.24	131.93	5.23	PASS
10213.00†	7663.00	1991.82	734.29	10089.31	7440.00	1987.23	1385.14	71.09	688.00	137.33	5.03	PASS
10313.00†	7663.00	2091.82	734.20	10189.31	7440.00	2087.23	1385.84	71.11	688.76	142.77	4.84	PASS
10413.00†	7663.00	2191.82	734.10	10289.30	7440.00	2187.22	1386.55	71.13	689.52	148.25	4.67	PASS
10513.00†	7663.00	2291.82	734.00	10389.30	7440.00	2287.22	1387.25	71.15	690.28	153.78	4.51	PASS
10613.00†	7663.00	2391.82	733.90	10489.30	7440.00	2387.21	1387.95	71.17	691.04	159.33	4.35	PASS
10713.00†	7663.00	2491.82	733.81	10589.29	7440.00	2487.21	1388.66	71.19	691.80	164.92	4.21	PASS
10813.00†	7663.00	2591.82	733.71	10689.29	7440.00	2587.20	1389.36	71.22	692.55	170.54	4.07	PASS
10913.00†	7663.00	2691.82	733.61	10789.29	7440.00	2687.19	1390.07	71.24	693.31	176.18	3.95	PASS
11013.00†	7663.00	2791.82	733.52	10889.28	7440.00	2787.19	1390.77	71.26	694.07	181.84	3.83	PASS
11113.00†	7663.00	2891.82	733.42	10989.28	7440.00	2887.18	1391.48	71.28	694.83	187.52	3.72	PASS
11213.00†	7663.00	2991.82	733.32	11089.28	7440.00	2987.18	1392.18	71.30	695.59	193.23	3.61	PASS
11313.00†	7663.00	3091.82	733.23	11189.28	7440.00	3087.17	1392.89	71.32	696.35	198.95	3.51	PASS
11413.00†	7663.00	3191.82	733.13	11289.27	7440.00	3187.17	1393.59	71.34	697.11	204.69	3.41	PASS
11513.00†	7663.00	3291.82	733.03	11389.27	7440.00	3287.16	1394.30	71.36	697.87	210.44	3.32	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3NAH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3NAH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W Slot: SLOT#11 ACKARD NORTH 2-35-3NAH (600'FSL & 2085'FWL, SEC.02) Well: ACKARD NORTH 2-35-3NAH 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†	7663.00	3391.82	732.93	11489.27	7440.00	3387.15	1395.00	71.39	698.63	216.21	3.24	PASS
11713.00†	7663.00	3491.82	732.84	11589.26	7440.00	3487.15	1395.71	71.41	699.39	221.99	3.16	PASS
11813.00†	7663.00	3591.82	732.74	11689.26	7440.00	3587.14	1396.41	71.43	700.15	227.79	3.08	PASS
11913.00†	7663.00	3691.82	732.64	11789.26	7440.00	3687.14	1397.12	71.45	700.91	233.59	3.01	PASS
12013.00†	7663.00	3791.82	732.55	11889.25	7440.00	3787.13	1397.82	71.47	701.67	239.41	2.94	PASS
12113.00†	7663.00	3891.82	732.45	11989.25	7440.00	3887.13	1398.52	71.49	702.43	245.23	2.87	PASS
12213.00†	7663.00	3991.82	732.35	12089.25	7440.00	3987.12	1399.23	71.51	703.19	251.07	2.81	PASS
12313.00†	7663.00	4091.82	732.26	12189.24	7440.00	4087.12	1399.93	71.53	703.95	256.91	2.74	PASS
12413.00†	7663.00	4191.82	732.16	12289.24	7440.00	4187.11	1400.64	71.55	704.71	262.76	2.69	PASS
12513.00†	7663.00	4291.82	732.06	12389.24	7440.00	4287.10	1401.34	71.57	705.47	268.61	2.63	PASS
12613.00†	7663.00	4391.82	731.96	12489.23	7440.00	4387.10	1402.05	71.59	706.23	274.49	2.58	PASS
12713.00†	7663.00	4491.82	731.87	12589.23	7440.00	4487.09	1402.75	71.61	706.99	280.36	2.53	PASS
12813.00†	7663.00	4591.82	731.77	12689.23	7440.00	4587.09	1403.46	71.63	707.75	286.24	2.48	PASS
12913.00†	7663.00	4691.82	731.67	12789.22	7440.00	4687.08	1404.16	71.65	708.51	292.13	2.43	PASS
13013.00†	7663.00	4791.82	731.58	12889.22	7440.00	4787.08	1404.87	71.68	709.27	298.02	2.38	PASS
13113.00†	7663.00	4891.82	731.48	12989.22	7440.00	4887.07	1405.57	71.69	710.04	303.92	2.34	PASS
13213.00†	7663.00	4991.82	731.38	13089.21	7440.00	4987.06	1406.28	71.72	710.80	309.82	2.30	PASS
13313.00†	7663.00	5091.82	731.29	13189.21	7440.00	5087.06	1406.98	71.74	711.56	315.73	2.26	PASS
13413.00†	7663.00	5191.82	731.19	13289.21	7440.00	5187.05	1407.68	71.76	712.32	321.64	2.22	PASS
13513.00†	7663.00	5291.82	731.09	13389.20	7440.00	5287.05	1408.39	71.78	713.08	327.56	2.18	PASS
13613.00†	7663.00	5391.82	730.99	13489.20	7440.00	5387.04	1409.09	71.80	713.84	333.48	2.14	PASS
13713.00†	7663.00	5491.82	730.90	13589.20	7440.00	5487.04	1409.80	71.82	714.60	339.41	2.11	PASS
13813.00†	7663.00	5591.82	730.80	13689.19	7440.00	5587.03	1410.50	71.84	715.37	345.34	2.07	PASS
13913.00†	7663.00	5691.82	730.70	13789.19	7440.00	5687.02	1411.21	71.86	716.13	351.28	2.04	PASS
14013.00†	7663.00	5791.82	730.61	13889.19	7440.00	5787.02	1411.91	71.88	716.89	357.22	2.01	PASS
14113.00†	7663.00	5891.82	730.51	13989.19	7440.00	5887.01	1412.62	71.90	717.65	363.16	1.98	PASS
14213.00†	7663.00	5991.82	730.41	14089.18	7440.00	5987.01	1413.32	71.92	718.41	369.11	1.95	PASS
14313.00†	7663.00	6091.82	730.31	14189.18	7440.00	6087.00	1414.03	71.94	719.18	375.06	1.92	PASS
14413.00†	7663.00	6191.82	730.22	14289.18	7440.00	6187.00	1414.73	71.96	719.94	381.01	1.89	PASS
14513.00†	7663.00	6291.82	730.12	14389.17	7440.00	6286.99	1415.44	71.97	720.70	386.97	1.86	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3NAH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3NAH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W Slot: SLOT#11 ACKARD NORTH 2-35-3NAH (600'FSL & 2085'FWL, SEC.02) Well: ACKARD NORTH 2-35-3NAH 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
14613.00†	7663.00	6391.82	730.02	14489.17	7440.00	6386.98	1416.14	72.00	721.46	392.92	1.84	PASS
14713.00†	7663.00	6491.82	729.93	14589.17	7440.00	6486.98	1416.84	72.01	722.22	398.89	1.81	PASS
14813.00†	7663.00	6591.82	729.83	14689.16	7440.00	6586.97	1417.55	72.03	722.99	404.85	1.79	PASS
14913.00†	7663.00	6691.82	729.73	14789.16	7440.00	6686.97	1418.25	72.05	723.75	410.82	1.76	PASS
15013.00†	7663.00	6791.82	729.64	14889.16	7440.00	6786.96	1418.96	72.07	724.51	416.79	1.74	PASS
15113.00†	7663.00	6891.82	729.54	14989.15	7440.00	6886.96	1419.66	72.09	725.28	422.77	1.72	PASS
15213.00†	7663.00	6991.82	729.44	15089.15	7440.00	6986.95	1420.37	72.11	726.04	428.74	1.69	PASS
15313.00†	7663.00	7091.82	729.34	15189.15	7440.00	7086.94	1421.07	72.13	726.80	434.72	1.67	PASS
15413.00†	7663.00	7191.82	729.25	15289.14	7440.00	7186.94	1421.78	72.15	727.56	440.70	1.65	PASS
15513.00†	7663.00	7291.82	729.15	15389.14	7440.00	7286.93	1422.48	72.17	728.33	446.69	1.63	PASS
15613.00†	7663.00	7391.82	729.05	15489.14	7440.00	7386.93	1423.19	72.19	729.09	452.67	1.61	PASS
15713.00†	7663.00	7491.82	728.96	15589.13	7440.00	7486.92	1423.89	72.21	729.85	458.66	1.59	PASS
15813.00†	7663.00	7591.82	728.86	15689.13	7440.00	7586.92	1424.60	72.23	730.62	464.65	1.57	PASS
15913.00†	7663.00	7691.82	728.76	15789.13	7440.00	7686.91	1425.30	72.25	731.38	470.64	1.55	PASS
16013.00†	7663.00	7791.82	728.67	15889.12	7440.00	7786.90	1426.00	72.27	732.14	476.64	1.54	PASS
16113.00†	7663.00	7891.82	728.57	15989.12	7440.00	7886.90	1426.71	72.29	732.91	482.64	1.52	PASS
16213.00†	7663.00	7991.82	728.47	16089.12	7440.00	7986.89	1427.41	72.30	733.67	488.64	1.50	PASS
16313.00†	7663.00	8091.82	728.37	16189.11	7440.00	8086.89	1428.12	72.32	734.44	494.64	1.49	PASS
16413.00†	7663.00	8191.82	728.28	16289.11	7440.00	8186.88	1428.82	72.34	735.20	500.64	1.47	PASS
16513.00†	7663.00	8291.82	728.18	16389.11	7440.00	8286.88	1429.53	72.36	735.96	506.65	1.45	PASS
16613.00†	7663.00	8391.82	728.08	16489.10	7440.00	8386.87	1430.23	72.38	736.73	512.65	1.44	PASS
16713.00†	7663.00	8491.82	727.99	16589.10	7440.00	8486.86	1430.94	72.40	737.49	518.66	1.42	PASS
16813.00†	7663.00	8591.82	727.89	16689.10	7440.00	8586.86	1431.64	72.42	738.26	524.67	1.41	PASS
16913.00†	7663.00	8691.82	727.79	16789.10	7440.00	8686.85	1432.35	72.44	739.02	530.68	1.39	PASS
17013.00†	7663.00	8791.82	727.70	16889.09	7440.00	8786.85	1433.05	72.46	739.78	536.70	1.38	PASS
17113.00†	7663.00	8891.82	727.60	16989.09	7440.00	8886.84	1433.76	72.47	740.55	542.71	1.37	PASS
17213.00†	7663.00	8991.82	727.50	17089.09	7440.00	8986.84	1434.46	72.49	741.31	548.73	1.35	PASS
17313.00†	7663.00	9091.82	727.40	17189.08	7440.00	9086.83	1435.16	72.51	742.08	554.75	1.34	PASS
17413.00†	7663.00	9191.82	727.31	17289.08	7440.00	9186.82	1435.87	72.53	742.84	560.77	1.33	PASS
17513.00†	7663.00	9291.82	727.21	17389.08	7440.00	9286.82	1436.57	72.55	743.61	566.79	1.31	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-3NAH PWB Offset Wellpath: ACKARD NORTH 2-35-3NAH PWP (REV. A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#11 ACKARD NORTH 2-35-3NAH (600'FSL & 2085'FWL, SEC.02) Well: ACKARD NORTH 2-35-3NAH 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
17613.00†	7663.00	9391.82	727.11	17489.07	7440.00	9386.81	1437.28	72.57	744.37	572.82	1.30	PASS
17713.00†	7663.00	9491.82	727.02	17589.07	7440.00	9486.81	1437.98	72.58	745.14	578.84	1.29	PASS
17807.10	7663.00	9585.92	726.93	17683.17	7440.00	9580.90	1438.65	72.60	745.86	584.52	1.28	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ACKARD NORTH 2-35-3NAH PWB Offset Wellpath: ACKARD NORTH 2-35-3NAH 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: ACKARD NORTH 2-35-3NAH PWB Offset Wellpath: ACKARD NORTH 2-35-3NAH 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	1798.70	0.04	18.27	-4.29	25.58
8.5in Open Hole	1800.00	17693.67	15893.67	1798.70	7440.00	-4.29	25.58	2923.48	447.66

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: ACKARD NORTH 2-35-3NAH PWP (REV. A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17693.71	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-3NAH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: ACKARD NORTH 2-35-3NAH PWB Offset Wellpath: ACKARD NORTH 2-35-3NAH 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **CHAMPLIN 117 AMOCO G#2 AWB** Offset Wellpath: **CHAMPLIN 117 AMOCO G#2 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G#2 (660'FSL & 1980'FEL, SEC.35, PA, 8360) Well: CHAMPLIN 117 AMOCO G#2 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	5342.52	1249.72	13.17	5486.74	50.38	110.65	PASS
113.00†	113.00	0.00	0.00	116.00	113.00	5342.52	1249.72	13.17	5486.74	52.72	105.66	PASS
213.00†	213.00	0.00	0.00	216.00	213.00	5342.52	1249.72	13.17	5486.74	55.07	101.09	PASS
313.00†	313.00	0.00	0.00	316.00	313.00	5342.52	1249.72	13.17	5486.74	57.42	96.89	PASS
413.00†	413.00	0.00	0.00	416.00	413.00	5342.52	1249.72	13.17	5486.74	59.78	93.02	PASS
513.00†	513.00	0.00	0.00	516.00	513.00	5342.52	1249.72	13.17	5486.74	62.14	89.45	PASS
613.00†	613.00	0.00	0.00	616.00	613.00	5342.52	1249.72	13.17	5486.74	64.50	86.13	PASS
713.00†	713.00	0.00	0.00	716.00	713.00	5342.52	1249.72	13.17	5486.74	66.87	83.04	PASS
813.00†	813.00	0.00	0.00	816.00	813.00	5342.52	1249.72	13.17	5486.74	69.24	80.16	PASS
913.00†	913.00	0.00	0.00	916.00	913.00	5342.52	1249.72	13.17	5486.74	71.61	77.48	PASS
1013.00†	1013.00	0.00	0.00	1016.00	1013.00	5342.52	1249.72	13.17	5486.74	73.99	74.96	PASS
1113.00†	1113.00	0.00	0.00	1116.00	1113.00	5342.52	1249.72	13.17	5486.74	76.37	72.59	PASS
1213.00†	1213.00	0.00	0.00	1216.00	1213.00	5342.52	1249.72	13.17	5486.74	78.76	70.37	PASS
1313.00†	1313.00	0.00	0.00	1316.00	1313.00	5342.52	1249.72	13.17	5486.74	81.15	68.28	PASS
1413.00†	1413.00	0.00	0.00	1416.00	1413.00	5342.52	1249.72	13.17	5486.74	83.54	66.30	PASS
1513.00†	1513.00	0.00	0.00	1516.00	1513.00	5342.52	1249.72	13.17	5486.74	85.94	64.43	PASS
1600.00	1600.00	0.00	0.00	1603.00	1600.00	5342.52	1249.72	13.17	5486.74	88.03	62.89	PASS
1613.00†	1613.00	-0.02	0.02	1616.00	1613.00	5342.52	1249.72	-123.97	5486.75	88.34	62.67	PASS
1713.00†	1712.97	-1.63	1.52	1715.97	1712.97	5342.52	1249.72	-123.97	5487.98	90.75	61.00	PASS
1813.00†	1812.80	-5.80	5.38	1815.80	1812.80	5342.52	1249.72	-123.97	5491.16	93.09	59.43	PASS
1913.00†	1912.38	-12.52	11.62	1915.38	1912.38	5342.52	1249.72	-123.96	5496.30	95.51	57.97	PASS
2013.00†	2011.57	-21.78	20.22	2014.57	2011.57	5342.52	1249.72	-123.95	5503.40	97.94	56.60	PASS
2113.00†	2110.26	-33.58	31.16	2113.26	2110.26	5342.52	1249.72	-123.94	5512.47	100.36	55.31	PASS
2129.27	2126.27	-35.74	33.16	2129.27	2126.27	5342.52	1249.72	-123.94	5514.13	100.76	55.11	PASS
2213.00†	2208.57	-47.01	43.63	2211.57	2208.57	5342.52	1249.72	-124.07	5522.83	102.77	54.10	PASS
2313.00†	2306.87	-60.48	56.12	2309.87	2306.87	5342.52	1249.72	-124.22	5533.26	105.20	52.95	PASS
2413.00†	2405.17	-73.94	68.62	2408.17	2405.17	5342.52	1249.72	-124.38	5543.74	107.63	51.84	PASS
2513.00†	2503.46	-87.41	81.11	2506.46	2503.46	5342.52	1249.72	-124.53	5554.25	110.08	50.78	PASS
2613.00†	2601.76	-100.87	93.61	2604.76	2601.76	5342.52	1249.72	-124.69	5564.81	112.54	49.76	PASS
2713.00†	2700.06	-114.34	106.10	2703.06	2700.06	5342.52	1249.72	-124.84	5575.40	115.01	48.77	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **CHAMPLIN 117 AMOCO G#2 AWB** Offset Wellpath: **CHAMPLIN 117 AMOCO G#2 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G#2 (660'FSL & 1980'FEL, SEC.35, PA, 8360) Well: CHAMPLIN 117 AMOCO G#2 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†	2798.36	-127.80	118.60	2801.36	2798.36	5342.52	1249.72	-124.99	5586.04	117.49	47.83	PASS
2913.00†	2896.66	-141.27	131.10	2899.66	2896.66	5342.52	1249.72	-125.15	5596.71	119.98	46.92	PASS
3013.00†	2994.95	-154.73	143.59	2997.95	2994.95	5342.52	1249.72	-125.30	5607.43	122.48	46.04	PASS
3113.00†	3093.25	-168.20	156.09	3096.25	3093.25	5342.52	1249.72	-125.45	5618.19	124.99	45.20	PASS
3213.00†	3191.55	-181.67	168.58	3194.55	3191.55	5342.52	1249.72	-125.60	5628.98	127.51	44.39	PASS
3313.00†	3289.85	-195.13	181.08	3292.85	3289.85	5342.52	1249.72	-125.75	5639.82	130.04	43.60	PASS
3413.00†	3388.15	-208.60	193.57	3391.15	3388.15	5342.52	1249.72	-125.90	5650.69	132.58	42.85	PASS
3513.00†	3486.45	-222.06	206.07	3489.45	3486.45	5342.52	1249.72	-126.05	5661.60	135.12	42.11	PASS
3613.00†	3584.74	-235.53	218.57	3587.74	3584.74	5342.52	1249.72	-126.20	5672.55	137.68	41.41	PASS
3713.00†	3683.04	-248.99	231.06	3686.04	3683.04	5342.52	1249.72	-126.34	5683.54	140.24	40.73	PASS
3813.00†	3781.34	-262.46	243.56	3784.34	3781.34	5342.52	1249.72	-126.49	5694.57	142.81	40.07	PASS
3913.00†	3879.64	-275.92	256.05	3882.64	3879.64	5342.52	1249.72	-126.64	5705.63	145.39	39.43	PASS
4013.00†	3977.94	-289.39	268.55	3980.94	3977.94	5342.52	1249.72	-126.78	5716.73	147.98	38.81	PASS
4113.00†	4076.24	-302.85	281.04	4079.24	4076.24	5342.52	1249.72	-126.93	5727.87	150.57	38.22	PASS
4213.00†	4174.53	-316.32	293.54	4177.53	4174.53	5342.52	1249.72	-127.07	5739.05	153.17	37.64	PASS
4313.00†	4272.83	-329.79	306.04	4275.83	4272.83	5342.52	1249.72	-127.22	5750.26	155.78	37.08	PASS
4413.00†	4371.13	-343.25	318.53	4374.13	4371.13	5342.52	1249.72	-127.36	5761.51	158.39	36.53	PASS
4513.00†	4469.43	-356.72	331.03	4472.43	4469.43	5342.52	1249.72	-127.51	5772.80	161.01	36.01	PASS
4613.00†	4567.73	-370.18	343.52	4570.73	4567.73	5342.52	1249.72	-127.65	5784.13	163.64	35.50	PASS
4713.00†	4666.02	-383.65	356.02	4669.02	4666.02	5342.52	1249.72	-127.79	5795.48	166.26	35.00	PASS
4813.00†	4764.32	-397.11	368.51	4767.32	4764.32	5342.52	1249.72	-127.93	5806.88	168.90	34.52	PASS
4913.00†	4862.62	-410.58	381.01	4865.62	4862.62	5342.52	1249.72	-128.07	5818.31	171.54	34.05	PASS
5013.00†	4960.92	-424.04	393.51	4963.92	4960.92	5342.52	1249.72	-128.22	5829.78	174.18	33.60	PASS
5113.00†	5059.22	-437.51	406.00	5062.22	5059.22	5342.52	1249.72	-128.35	5841.28	176.83	33.16	PASS
5213.00†	5157.52	-450.98	418.50	5160.52	5157.52	5342.52	1249.72	-128.49	5852.82	179.49	32.73	PASS
5313.00†	5255.81	-464.44	430.99	5258.81	5255.81	5342.52	1249.72	-128.63	5864.39	182.14	32.32	PASS
5413.00†	5354.11	-477.91	443.49	5357.11	5354.11	5342.52	1249.72	-128.77	5875.99	184.81	31.91	PASS
5513.00†	5452.41	-491.37	455.98	5455.41	5452.41	5342.52	1249.72	-128.91	5887.64	187.47	31.52	PASS
5613.00†	5550.71	-504.84	468.48	5553.71	5550.71	5342.52	1249.72	-129.05	5899.31	190.14	31.14	PASS
5713.00†	5649.01	-518.30	480.98	5652.01	5649.01	5342.52	1249.72	-129.18	5911.02	192.81	30.77	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **CHAMPLIN 117 AMOCO G#2 AWB** Offset Wellpath: **CHAMPLIN 117 AMOCO G#2 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G#2 (660'FSL & 1980'FEL, SEC.35, PA, 8360) Well: CHAMPLIN 117 AMOCO G#2 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†	5747.30	-531.77	493.47	5750.30	5747.30	5342.52	1249.72	-129.32	5922.76	195.49	30.40	PASS
5913.00†	5845.60	-545.23	505.97	5848.60	5845.60	5342.52	1249.72	-129.46	5934.54	198.17	30.05	PASS
6013.00†	5943.90	-558.70	518.46	5946.90	5943.90	5342.52	1249.72	-129.59	5946.35	200.85	29.71	PASS
6113.00†	6042.20	-572.16	530.96	6045.20	6042.20	5342.52	1249.72	-129.73	5958.19	203.54	29.37	PASS
6213.00†	6140.50	-585.63	543.45	6143.50	6140.50	5342.52	1249.72	-129.86	5970.07	206.23	29.05	PASS
6313.00†	6238.80	-599.10	555.95	6241.80	6238.80	5342.52	1249.72	-129.99	5981.98	208.92	28.73	PASS
6413.00†	6337.09	-612.56	568.45	6340.09	6337.09	5342.52	1249.72	-130.13	5993.92	211.61	28.42	PASS
6513.00†	6435.39	-626.03	580.94	6438.39	6435.39	5342.52	1249.72	-130.26	6005.89	214.30	28.11	PASS
6613.00†	6533.69	-639.49	593.44	6536.69	6533.69	5342.52	1249.72	-130.39	6017.90	217.00	27.82	PASS
6713.00†	6631.99	-652.96	605.93	6634.99	6631.99	5342.52	1249.72	-130.52	6029.94	219.70	27.53	PASS
6813.00†	6730.29	-666.42	618.43	6733.29	6730.29	5342.52	1249.72	-130.66	6042.01	222.40	27.25	PASS
6913.00†	6828.59	-679.89	630.92	6831.59	6828.59	5342.52	1249.72	-130.79	6054.11	225.11	26.98	PASS
7013.00†	6926.88	-693.35	643.42	6929.88	6926.88	5342.52	1249.72	-130.92	6066.24	227.81	26.71	PASS
7105.70	7018.00	-705.84	655.00	7021.00	7018.00	5342.52	1249.72	-131.04	6077.52	230.32	26.47	PASS
7113.00†	7025.19	-706.77	655.92	7028.19	7025.19	5342.52	1249.72	-128.23	6078.36	230.52	26.45	PASS
7213.00†	7124.20	-710.27	668.49	7127.20	7124.20	5342.52	1249.72	-62.20	6080.63	233.33	26.14	PASS
7313.00†	7222.32	-696.39	680.94	7225.32	7222.32	5342.52	1249.72	-23.92	6065.63	236.51	25.72	PASS
7413.00†	7316.56	-665.54	692.88	7319.56	7316.56	5342.52	1249.72	-12.22	6033.80	239.85	25.23	PASS
7513.00†	7404.05	-618.66	703.94	7407.05	7404.05	5342.52	1249.72	-6.84	5986.11	242.78	24.73	PASS
7613.00†	7482.14	-557.19	713.80	7485.14	7482.14	5342.52	1249.72	-3.38	5923.99	245.27	24.22	PASS
7713.00†	7548.46	-482.98	722.15	7551.46	7548.46	5342.52	1249.72	-0.33	5849.33	247.28	23.72	PASS
7813.00†	7600.98	-398.29	728.74	7603.98	7600.98	5342.52	1249.72	3.47	5764.39	248.77	23.24	PASS
7913.00†	7638.12	-305.69	733.36	7641.12	7638.12	5342.52	1249.72	10.47	5671.76	249.72	22.77	PASS
8013.00†	7658.74	-208.00	735.89	7661.74	7658.74	5342.52	1249.72	32.75	5574.25	250.15	22.34	PASS
8083.15	7663.00	-138.03	736.36	7666.00	7663.00	5342.52	1249.72	90.00	5504.53	250.16	22.06	PASS
8113.00†	7663.00	-108.18	736.33	7666.00	7663.00	5342.52	1249.72	90.00	5474.82	250.11	21.95	PASS
8213.00†	7663.00	-8.18	736.23	7666.00	7663.00	5342.52	1249.72	90.00	5375.28	249.96	21.56	PASS
8313.00†	7663.00	91.82	736.14	7666.00	7663.00	5342.52	1249.72	90.00	5275.75	249.80	21.18	PASS
8413.00†	7663.00	191.82	736.04	7666.00	7663.00	5342.52	1249.72	90.00	5176.24	249.64	20.79	PASS
8513.00†	7663.00	291.82	735.94	7666.00	7663.00	5342.52	1249.72	90.00	5076.76	249.48	20.40	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: CHAMPLIN 117 AMOCO G#2 AWB Offset Wellpath: CHAMPLIN 117 AMOCO G#2 AWP

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G#2 (660'FSL & 1980'FEL, SEC.35, PA, 8360) Well: CHAMPLIN 117 AMOCO G#2 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†	7663.00	391.82	735.84	7666.00	7663.00	5342.52	1249.72	90.00	4977.29	249.31	20.02	PASS
8713.00†	7663.00	491.82	735.75	7666.00	7663.00	5342.52	1249.72	90.00	4877.85	249.14	19.63	PASS
8813.00†	7663.00	591.82	735.65	7666.00	7663.00	5342.52	1249.72	90.00	4778.43	248.96	19.25	PASS
8913.00†	7663.00	691.82	735.55	7666.00	7663.00	5342.52	1249.72	90.00	4679.03	248.79	18.86	PASS
9013.00†	7663.00	791.82	735.46	7666.00	7663.00	5342.52	1249.72	90.00	4579.66	248.60	18.47	PASS
9113.00†	7663.00	891.82	735.36	7666.00	7663.00	5342.52	1249.72	90.00	4480.32	248.42	18.08	PASS
9213.00†	7663.00	991.82	735.26	7666.00	7663.00	5342.52	1249.72	90.00	4381.00	248.23	17.70	PASS
9313.00†	7663.00	1091.82	735.17	7666.00	7663.00	5342.52	1249.72	90.00	4281.72	248.04	17.31	PASS
9413.00†	7663.00	1191.82	735.07	7666.00	7663.00	5342.52	1249.72	90.00	4182.48	247.84	16.92	PASS
9513.00†	7663.00	1291.82	734.97	7666.00	7663.00	5342.52	1249.72	90.00	4083.27	247.64	16.53	PASS
9613.00†	7663.00	1391.82	734.87	7666.00	7663.00	5342.52	1249.72	90.00	3984.10	247.43	16.15	PASS
9713.00†	7663.00	1491.82	734.78	7666.00	7663.00	5342.52	1249.72	90.00	3884.97	247.22	15.76	PASS
9813.00†	7663.00	1591.82	734.68	7666.00	7663.00	5342.52	1249.72	90.00	3785.89	247.01	15.37	PASS
9913.00†	7663.00	1691.82	734.58	7666.00	7663.00	5342.52	1249.72	90.00	3686.86	246.79	14.98	PASS
10013.00†	7663.00	1791.82	734.49	7666.00	7663.00	5342.52	1249.72	90.00	3587.88	246.57	14.59	PASS
10113.00†	7663.00	1891.82	734.39	7666.00	7663.00	5342.52	1249.72	90.00	3488.96	246.35	14.20	PASS
10213.00†	7663.00	1991.82	734.29	7666.00	7663.00	5342.52	1249.72	90.00	3390.11	246.13	13.81	PASS
10313.00†	7663.00	2091.82	734.20	7666.00	7663.00	5342.52	1249.72	90.00	3291.32	245.91	13.42	PASS
10413.00†	7663.00	2191.82	734.10	7666.00	7663.00	5342.52	1249.72	90.00	3192.61	245.68	13.03	PASS
10513.00†	7663.00	2291.82	734.00	7666.00	7663.00	5342.52	1249.72	90.00	3093.98	245.47	12.64	PASS
10613.00†	7663.00	2391.82	733.90	7666.00	7663.00	5342.52	1249.72	90.00	2995.44	245.25	12.25	PASS
10713.00†	7663.00	2491.82	733.81	7666.00	7663.00	5342.52	1249.72	90.00	2897.00	245.05	11.85	PASS
10813.00†	7663.00	2591.82	733.71	7666.00	7663.00	5342.52	1249.72	90.00	2798.68	244.86	11.46	PASS
10913.00†	7663.00	2691.82	733.61	7666.00	7663.00	5342.52	1249.72	90.00	2700.47	244.68	11.07	PASS
11013.00†	7663.00	2791.82	733.52	7666.00	7663.00	5342.52	1249.72	90.00	2602.40	244.53	10.67	PASS
11113.00†	7663.00	2891.82	733.42	7666.00	7663.00	5342.52	1249.72	90.00	2504.49	244.41	10.27	PASS
11213.00†	7663.00	2991.82	733.32	7666.00	7663.00	5342.52	1249.72	90.00	2406.75	244.33	9.88	PASS
11313.00†	7663.00	3091.82	733.23	7666.00	7663.00	5342.52	1249.72	90.00	2309.20	244.30	9.48	PASS
11413.00†	7663.00	3191.82	733.13	7666.00	7663.00	5342.52	1249.72	90.00	2211.87	244.34	9.08	PASS
11513.00†	7663.00	3291.82	733.03	7666.00	7663.00	5342.52	1249.72	90.00	2114.79	244.47	8.67	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **CHAMPLIN 117 AMOCO G#2 AWB** Offset Wellpath: **CHAMPLIN 117 AMOCO G#2 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G#2 (660'FSL & 1980'FEL, SEC.35, PA, 8360) Well: CHAMPLIN 117 AMOCO G#2 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†	7663.00	3391.82	732.93	7666.00	7663.00	5342.52	1249.72	90.00	2017.99	244.71	8.27	PASS
11713.00†	7663.00	3491.82	732.84	7666.00	7663.00	5342.52	1249.72	90.00	1921.52	245.09	7.86	PASS
11813.00†	7663.00	3591.82	732.74	7666.00	7663.00	5342.52	1249.72	90.00	1825.43	245.66	7.45	PASS
11913.00†	7663.00	3691.82	732.64	7666.00	7663.00	5342.52	1249.72	90.00	1729.79	246.46	7.04	PASS
12013.00†	7663.00	3791.82	732.55	7666.00	7663.00	5342.52	1249.72	90.00	1634.66	247.54	6.62	PASS
12113.00†	7663.00	3891.82	732.45	7666.00	7663.00	5342.52	1249.72	90.00	1540.16	248.98	6.20	PASS
12213.00†	7663.00	3991.82	732.35	7666.00	7663.00	5342.52	1249.72	90.00	1446.39	250.87	5.78	PASS
12313.00†	7663.00	4091.82	732.26	7666.00	7663.00	5342.52	1249.72	90.00	1353.52	253.32	5.36	PASS
12413.00†	7663.00	4191.82	732.16	7666.00	7663.00	5342.52	1249.72	90.00	1261.73	256.43	4.93	PASS
12513.00†	7663.00	4291.82	732.06	7666.00	7663.00	5342.52	1249.72	90.00	1171.30	260.38	4.51	PASS
12613.00†	7663.00	4391.82	731.96	7666.00	7663.00	5342.52	1249.72	90.00	1082.54	265.32	4.09	PASS
12713.00†	7663.00	4491.82	731.87	7666.00	7663.00	5342.52	1249.72	90.00	995.92	271.47	3.68	PASS
12813.00†	7663.00	4591.82	731.77	7666.00	7663.00	5342.52	1249.72	90.00	912.04	279.07	3.27	PASS
12913.00†	7663.00	4691.82	731.67	7666.00	7663.00	5342.52	1249.72	90.00	831.73	288.35	2.89	PASS
13013.00†	7663.00	4791.82	731.58	7666.00	7663.00	5342.52	1249.72	90.00	756.13	299.55	2.53	PASS
13113.00†	7663.00	4891.82	731.48	7666.00	7663.00	5342.52	1249.72	90.00	686.81	312.78	2.20	PASS
13213.00†	7663.00	4991.82	731.38	7666.00	7663.00	5342.52	1249.72	90.00	625.83	327.84	1.91	PASS
13313.00†	7663.00	5091.82	731.29	7666.00	7663.00	5342.52	1249.72	90.00	575.87	343.97	1.68	PASS
13413.00†	7663.00	5191.82	731.19	7666.00	7663.00	5342.52	1249.72	90.00	539.99	359.52	1.50	PASS
13513.00†	7663.00	5291.82	731.09	7666.00	7663.00	5342.52	1249.72	90.00	521.10	372.12	1.40	PASS
13562.96†	7663.00	5341.78	731.04	7664.42	7661.42	5342.52	1249.72	89.83	518.68	376.53	1.38	PASS
13600.06†	7663.00	5378.88	731.01	7666.00	7663.00	5342.52	1249.72	90.00	519.99	378.90	1.37	PASS
13613.00†	7663.00	5391.82	730.99	7666.00	7663.00	5342.52	1249.72	90.00	521.06	379.51	1.37	PASS
13713.00†	7663.00	5491.82	730.90	7666.00	7663.00	5342.52	1249.72	90.00	539.88	380.89	1.42	PASS
13813.00†	7663.00	5591.82	730.80	7666.00	7663.00	5342.52	1249.72	90.00	575.70	377.23	1.53	PASS
13913.00†	7663.00	5691.82	730.70	7666.00	7663.00	5342.52	1249.72	90.00	625.61	370.41	1.69	PASS
14013.00†	7663.00	5791.82	730.61	7666.00	7663.00	5342.52	1249.72	90.00	686.55	362.23	1.90	PASS
14113.00†	7663.00	5891.82	730.51	7666.00	7663.00	5342.52	1249.72	90.00	755.85	353.87	2.14	PASS
14213.00†	7663.00	5991.82	730.41	7666.00	7663.00	5342.52	1249.72	90.00	831.43	345.97	2.41	PASS
14313.00†	7663.00	6091.82	730.31	7666.00	7663.00	5342.52	1249.72	90.00	911.72	338.80	2.69	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: CHAMPLIN 117 AMOCO G#2 AWB Offset Wellpath: CHAMPLIN 117 AMOCO G#2 AWP

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G#2 (660'FSL & 1980'FEL, SEC.35, PA, 8360) Well: CHAMPLIN 117 AMOCO G#2 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
14413.00†	7663.00	6191.82	730.22	7666.00	7663.00	5342.52	1249.72	90.00	995.59	332.41	3.00	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: CHAMPLIN 117 AMOCO G#2 AWB Offset Wellpath: CHAMPLIN 117 AMOCO G#2 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: CHAMPLIN 117 AMOCO G#2 AWB Offset Wellpath: CHAMPLIN 117 AMOCO G#2 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8360.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8360>	CHAMPLIN 117 AMOCO G#2 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: CHAMPLIN 117 AMOCO G#2 AWB Offset Wellpath: CHAMPLIN 117 AMOCO G#2 AWP

MD Reference: **Rig on SLOT#01 EX CHAMPLIND 117 AMOCO G#2 (660'FSL & 1980'FEL, SEC.35, PA, 8360) (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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3CDH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3CDH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#12 ACKARD NORTH 2-35-3CDH (600'FSL & 2100'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-3CDH** **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	0.13	44.98	89.84	44.98	1.40	73.62	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	0.13	44.98	89.84	44.98	1.72	48.25	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	0.13	44.98	89.84	44.98	2.28	29.86	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	0.13	44.98	89.84	44.98	2.88	21.23	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	0.13	44.98	89.84	44.98	3.50	16.39	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	0.13	44.98	89.84	44.98	4.12	13.33	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	0.13	44.98	89.84	44.98	4.74	11.22	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	0.13	44.98	89.84	44.98	5.36	9.69	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	0.13	44.98	89.84	44.98	5.99	8.52	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	0.13	44.98	89.84	44.98	6.61	7.60	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	0.13	44.98	89.84	44.98	7.24	6.86	PASS
1113.00†	1113.00	0.00	0.00	1113.00	1113.00	0.13	44.98	89.84	44.98	7.86	6.25	PASS
1213.00†	1213.00	0.00	0.00	1213.00	1213.00	0.13	44.98	89.84	44.98	8.49	5.74	PASS
1313.00†	1313.00	0.00	0.00	1312.82	1312.82	0.11	45.00	89.85	45.00	9.12	5.32	PASS
1413.00†	1413.00	0.00	0.00	1411.39	1411.37	-0.87	46.90	91.07	46.93	9.81	5.12	PASS
1513.00†	1513.00	0.00	0.00	1509.70	1509.52	-3.42	51.78	93.78	52.01	10.68	5.18	PASS
1600.00	1600.00	0.00	0.00	1594.84	1594.32	-6.88	58.42	96.72	59.09	11.41	5.50	PASS
1613.00†	1613.00	-0.02	0.02	1607.53	1606.94	-7.50	59.60	-39.97	60.35	11.53	5.55	PASS
1713.00†	1712.97	-1.63	1.52	1704.89	1703.54	-13.08	70.30	-37.52	70.37	12.40	6.00	PASS
1813.00†	1812.80	-5.80	5.38	1801.88	1799.31	-20.15	83.85	-36.42	80.90	13.26	6.39	PASS
1913.00†	1912.38	-12.52	11.62	1898.49	1894.14	-28.68	100.20	-36.22	91.87	14.18	6.77	PASS
2013.00†	2011.57	-21.78	20.22	1994.70	1987.91	-38.64	119.29	-36.61	103.25	15.05	7.15	PASS
2113.00†	2110.26	-33.58	31.16	2091.21	2081.21	-50.06	141.18	-37.44	114.98	15.87	7.54	PASS
2129.27	2126.27	-35.74	33.16	2107.38	2096.79	-52.05	145.00	-37.63	116.80	15.98	7.60	PASS
2213.00†	2208.57	-47.01	43.63	2190.57	2176.98	-62.29	164.64	-38.70	126.00	16.54	7.91	PASS
2313.00†	2306.87	-60.48	56.12	2289.92	2272.75	-74.53	188.09	-39.80	137.03	17.28	8.23	PASS
2413.00†	2405.17	-73.94	68.62	2389.28	2368.52	-86.77	211.55	-40.73	148.11	18.01	8.52	PASS
2513.00†	2503.46	-87.41	81.11	2488.64	2464.29	-99.00	235.01	-41.53	159.23	18.81	8.76	PASS
2613.00†	2601.76	-100.87	93.61	2588.00	2560.06	-111.24	258.47	-42.23	170.37	19.65	8.96	PASS
2713.00†	2700.06	-114.34	106.10	2687.36	2655.83	-123.48	281.92	-42.84	181.53	20.52	9.13	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3CDH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3CDH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#12 ACKARD NORTH 2-35-3CDH (600'FSL & 2100'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-3CDH** **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†	2798.36	-127.80	118.60	2786.71	2751.60	-135.72	305.38	-43.38	192.71	21.42	9.27	PASS
2913.00†	2896.66	-141.27	131.10	2886.07	2847.37	-147.95	328.84	-43.86	203.90	22.35	9.39	PASS
3013.00†	2994.95	-154.73	143.59	2985.43	2943.14	-160.19	352.30	-44.29	215.11	23.29	9.49	PASS
3113.00†	3093.25	-168.20	156.09	3084.79	3038.91	-172.43	375.75	-44.68	226.33	24.26	9.58	PASS
3213.00†	3191.55	-181.67	168.58	3184.14	3134.68	-184.66	399.21	-45.03	237.56	25.25	9.65	PASS
3313.00†	3289.85	-195.13	181.08	3283.50	3230.45	-196.90	422.67	-45.35	248.79	26.25	9.71	PASS
3413.00†	3388.15	-208.60	193.57	3382.86	3326.22	-209.14	446.13	-45.65	260.04	27.26	9.77	PASS
3513.00†	3486.45	-222.06	206.07	3482.22	3421.99	-221.37	469.58	-45.91	271.29	28.29	9.81	PASS
3613.00†	3584.74	-235.53	218.57	3581.57	3517.76	-233.61	493.04	-46.16	282.54	29.33	9.85	PASS
3713.00†	3683.04	-248.99	231.06	3680.93	3613.53	-245.85	516.50	-46.39	293.80	30.38	9.88	PASS
3813.00†	3781.34	-262.46	243.56	3780.29	3709.30	-258.08	539.96	-46.60	305.06	31.44	9.91	PASS
3913.00†	3879.64	-275.92	256.05	3879.65	3805.07	-270.32	563.42	-46.80	316.33	32.50	9.93	PASS
4013.00†	3977.94	-289.39	268.55	3979.00	3900.84	-282.56	586.87	-46.98	327.60	33.57	9.95	PASS
4113.00†	4076.24	-302.85	281.04	4078.36	3996.61	-294.80	610.33	-47.15	338.87	34.65	9.96	PASS
4213.00†	4174.53	-316.32	293.54	4177.72	4092.38	-307.03	633.79	-47.31	350.15	35.74	9.98	PASS
4313.00†	4272.83	-329.79	306.04	4277.08	4188.15	-319.27	657.25	-47.46	361.43	36.83	9.99	PASS
4413.00†	4371.13	-343.25	318.53	4376.43	4283.92	-331.51	680.70	-47.60	372.71	37.92	10.00	PASS
4513.00†	4469.43	-356.72	331.03	4475.79	4379.69	-343.74	704.16	-47.73	383.99	39.02	10.00	PASS
4613.00†	4567.73	-370.18	343.52	4575.15	4475.46	-355.98	727.62	-47.86	395.28	40.13	10.01	PASS
4713.00†	4666.02	-383.65	356.02	4674.51	4571.23	-368.22	751.08	-47.97	406.56	41.24	10.01	PASS
4813.00†	4764.32	-397.11	368.51	4773.87	4667.00	-380.45	774.53	-48.08	417.85	42.35	10.02	PASS
4913.00†	4862.62	-410.58	381.01	4873.22	4762.77	-392.69	797.99	-48.19	429.14	43.46	10.02	PASS
5013.00†	4960.92	-424.04	393.51	4972.58	4858.54	-404.93	821.45	-48.29	440.43	44.58	10.02	PASS
5113.00†	5059.22	-437.51	406.00	5071.94	4954.31	-417.16	844.91	-48.39	451.73	45.70	10.02	PASS
5213.00†	5157.52	-450.98	418.50	5171.30	5050.08	-429.40	868.36	-48.48	463.02	46.83	10.02	PASS
5313.00†	5255.81	-464.44	430.99	5270.65	5145.85	-441.64	891.82	-48.56	474.32	47.95	10.02	PASS
5413.00†	5354.11	-477.91	443.49	5370.01	5241.62	-453.87	915.28	-48.64	485.61	49.08	10.02	PASS
5513.00†	5452.41	-491.37	455.98	5469.37	5337.39	-466.11	938.74	-48.72	496.91	50.21	10.02	PASS
5613.00†	5550.71	-504.84	468.48	5568.73	5433.16	-478.35	962.20	-48.80	508.21	51.34	10.02	PASS
5713.00†	5649.01	-518.30	480.98	5668.08	5528.93	-490.59	985.65	-48.87	519.50	52.48	10.02	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3CDH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3CDH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W Slot: SLOT#12 ACKARD NORTH 2-35-3CDH (600'FSL & 2100'FWL, SEC.02) Well: ACKARD NORTH 2-35-3CDH 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†	5747.30	-531.77	493.47	5767.44	5624.70	-502.82	1009.11	-48.94	530.80	53.61	10.02	PASS
5913.00†	5845.60	-545.23	505.97	5866.80	5720.47	-515.06	1032.57	-49.00	542.10	54.75	10.02	PASS
6013.00†	5943.90	-558.70	518.46	5966.16	5816.24	-527.30	1056.03	-49.07	553.40	55.89	10.02	PASS
6113.00†	6042.20	-572.16	530.96	6065.51	5912.02	-539.53	1079.48	-49.13	564.71	57.03	10.01	PASS
6213.00†	6140.50	-585.63	543.45	6164.87	6007.79	-551.77	1102.94	-49.19	576.01	58.17	10.01	PASS
6313.00†	6238.80	-599.10	555.95	6264.23	6103.56	-564.01	1126.40	-49.24	587.31	59.31	10.01	PASS
6413.00†	6337.09	-612.56	568.45	6363.59	6199.33	-576.24	1149.86	-49.29	598.61	60.46	10.01	PASS
6513.00†	6435.39	-626.03	580.94	6462.94	6295.10	-588.48	1173.31	-49.35	609.92	61.60	10.00	PASS
6613.00†	6533.69	-639.49	593.44	6562.30	6390.87	-600.72	1196.77	-49.40	621.22	62.75	10.00	PASS
6713.00†	6631.99	-652.96	605.93	6661.66	6486.64	-612.95	1220.23	-49.44	632.52	63.90	10.00	PASS
6813.00†	6730.29	-666.42	618.43	6761.02	6582.41	-625.19	1243.69	-49.49	643.83	65.04	10.00	PASS
6913.00†	6828.59	-679.89	630.92	6860.38	6678.18	-637.43	1267.14	-49.54	655.13	66.19	9.99	PASS
7013.00†	6926.88	-693.35	643.42	6959.73	6773.95	-649.67	1290.60	-49.58	666.44	67.34	9.99	PASS
7105.70	7018.00	-705.84	655.00	7051.83	6862.72	-661.01	1312.35	-49.62	676.92	68.41	9.99	PASS
7113.00†	7025.19	-706.77	655.92	7059.09	6869.72	-661.90	1314.06	-46.88	677.74	68.49	9.99	PASS
7213.00†	7124.20	-710.27	668.49	7157.93	6964.99	-674.08	1337.40	19.00	688.54	68.99	10.07	PASS
7313.00†	7222.32	-696.39	680.94	7253.74	7057.33	-685.87	1360.01	58.29	698.91	68.50	10.30	PASS
7413.00†	7316.56	-665.54	692.88	7343.59	7143.94	-696.94	1381.23	71.70	710.36	66.92	10.72	PASS
7513.00†	7404.05	-618.66	703.94	7428.48	7225.82	-706.90	1401.28	78.97	725.14	64.51	11.35	PASS
7613.00†	7482.14	-557.19	713.80	7527.86	7322.23	-706.42	1424.88	84.38	743.97	62.51	12.03	PASS
7713.00†	7548.46	-482.98	722.15	7644.05	7432.81	-684.18	1451.93	88.93	765.80	61.61	12.56	PASS
7813.00†	7600.98	-398.29	728.74	7785.96	7558.46	-626.70	1482.64	93.23	788.89	61.48	12.97	PASS
7913.00†	7638.12	-305.69	733.36	7965.74	7691.62	-511.51	1515.12	97.39	810.17	61.15	13.39	PASS
8013.00†	7658.74	-208.00	735.89	8191.95	7799.68	-316.20	1541.39	100.64	824.86	59.93	13.92	PASS
8083.15	7663.00	-138.03	736.36	8371.62	7827.99	-139.65	1548.15	101.49	828.39	58.80	14.25	PASS
8113.00†	7663.00	-108.18	736.33	8403.88	7828.00	-107.39	1548.12	101.49	828.39	58.56	14.31	PASS
8213.00†	7663.00	-8.18	736.23	8503.88	7828.00	-7.39	1548.02	101.49	828.39	58.18	14.40	PASS
8313.00†	7663.00	91.82	736.14	8603.88	7828.00	92.61	1547.92	101.49	828.39	58.46	14.33	PASS
8413.00†	7663.00	191.82	736.04	8703.88	7828.00	192.61	1547.83	101.49	828.39	59.39	14.10	PASS
8513.00†	7663.00	291.82	735.94	8803.88	7828.00	292.61	1547.73	101.49	828.39	60.95	13.74	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3CDH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3CDH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#12 ACKARD NORTH 2-35-3CDH (600'FSL & 2100'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-3CDH** **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†	7663.00	391.82	735.84	8903.88	7828.00	392.61	1547.63	101.49	828.39	63.07	13.27	PASS
8713.00†	7663.00	491.82	735.75	9003.88	7828.00	492.61	1547.53	101.49	828.39	66.00	12.68	PASS
8813.00†	7663.00	591.82	735.65	9103.88	7828.00	592.61	1547.44	101.49	828.39	68.80	12.16	PASS
8913.00†	7663.00	691.82	735.55	9203.88	7828.00	692.61	1547.34	101.49	828.38	72.29	11.56	PASS
9013.00†	7663.00	791.82	735.46	9303.88	7828.00	792.61	1547.24	101.49	828.38	76.11	10.98	PASS
9113.00†	7663.00	891.82	735.36	9403.88	7828.00	892.61	1547.14	101.49	828.38	80.23	10.41	PASS
9213.00†	7663.00	991.82	735.26	9503.88	7828.00	992.61	1547.05	101.49	828.38	84.60	9.87	PASS
9313.00†	7663.00	1091.82	735.17	9603.88	7828.00	1092.61	1546.95	101.49	828.38	89.18	9.36	PASS
9413.00†	7663.00	1191.82	735.07	9703.88	7828.00	1192.61	1546.85	101.49	828.38	93.94	8.88	PASS
9513.00†	7663.00	1291.82	734.97	9803.88	7828.00	1292.61	1546.75	101.49	828.38	98.85	8.43	PASS
9613.00†	7663.00	1391.82	734.87	9903.88	7828.00	1392.61	1546.66	101.49	828.38	103.90	8.02	PASS
9713.00†	7663.00	1491.82	734.78	10003.88	7828.00	1492.61	1546.56	101.49	828.38	109.06	7.64	PASS
9813.00†	7663.00	1591.82	734.68	10103.88	7828.00	1592.61	1546.46	101.49	828.38	114.32	7.29	PASS
9913.00†	7663.00	1691.82	734.58	10203.88	7828.00	1692.61	1546.36	101.49	828.38	119.66	6.96	PASS
10013.00†	7663.00	1791.82	734.49	10303.88	7828.00	1792.61	1546.27	101.49	828.38	125.08	6.65	PASS
10113.00†	7663.00	1891.82	734.39	10403.88	7828.00	1892.61	1546.17	101.49	828.38	130.56	6.37	PASS
10213.00†	7663.00	1991.82	734.29	10503.88	7828.00	1992.61	1546.07	101.49	828.38	136.10	6.11	PASS
10313.00†	7663.00	2091.82	734.20	10603.88	7828.00	2092.61	1545.98	101.49	828.38	141.69	5.87	PASS
10413.00†	7663.00	2191.82	734.10	10703.88	7828.00	2192.61	1545.88	101.49	828.38	147.33	5.64	PASS
10513.00†	7663.00	2291.82	734.00	10803.88	7828.00	2292.61	1545.78	101.49	828.38	153.01	5.43	PASS
10613.00†	7663.00	2391.82	733.90	10903.88	7828.00	2392.61	1545.68	101.49	828.38	158.72	5.24	PASS
10713.00†	7663.00	2491.82	733.81	11003.88	7828.00	2492.61	1545.59	101.49	828.38	164.46	5.05	PASS
10813.00†	7663.00	2591.82	733.71	11103.88	7828.00	2592.61	1545.49	101.49	828.38	170.23	4.88	PASS
10913.00†	7663.00	2691.82	733.61	11203.88	7828.00	2692.61	1545.39	101.49	828.38	176.03	4.72	PASS
11013.00†	7663.00	2791.82	733.52	11303.88	7828.00	2792.61	1545.29	101.49	828.38	181.84	4.57	PASS
11113.00†	7663.00	2891.82	733.42	11403.88	7828.00	2892.61	1545.20	101.49	828.38	187.69	4.43	PASS
11213.00†	7663.00	2991.82	733.32	11503.88	7828.00	2992.61	1545.10	101.49	828.38	193.55	4.29	PASS
11313.00†	7663.00	3091.82	733.23	11603.88	7828.00	3092.61	1545.00	101.49	828.38	199.42	4.17	PASS
11413.00†	7663.00	3191.82	733.13	11703.88	7828.00	3192.61	1544.90	101.49	828.37	205.32	4.05	PASS
11513.00†	7663.00	3291.82	733.03	11803.88	7828.00	3292.61	1544.81	101.49	828.37	211.22	3.93	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3CDH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3CDH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W Slot: SLOT#12 ACKARD NORTH 2-35-3CDH (600'FSL & 2100'FWL, SEC.02) Well: ACKARD NORTH 2-35-3CDH 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†	7663.00	3391.82	732.93	11903.88	7828.00	3392.61	1544.71	101.49	828.37	217.15	3.82	PASS
11713.00†	7663.00	3491.82	732.84	12003.88	7828.00	3492.61	1544.61	101.49	828.37	223.08	3.72	PASS
11813.00†	7663.00	3591.82	732.74	12103.88	7828.00	3592.61	1544.51	101.49	828.37	229.02	3.63	PASS
11913.00†	7663.00	3691.82	732.64	12203.88	7828.00	3692.61	1544.42	101.49	828.37	234.98	3.53	PASS
12013.00†	7663.00	3791.82	732.55	12303.88	7828.00	3792.61	1544.32	101.49	828.37	240.95	3.45	PASS
12113.00†	7663.00	3891.82	732.45	12403.88	7828.00	3892.61	1544.22	101.49	828.37	246.92	3.36	PASS
12213.00†	7663.00	3991.82	732.35	12503.88	7828.00	3992.61	1544.12	101.49	828.37	252.90	3.28	PASS
12313.00†	7663.00	4091.82	732.26	12603.88	7828.00	4092.61	1544.03	101.49	828.37	258.89	3.21	PASS
12413.00†	7663.00	4191.82	732.16	12703.88	7828.00	4192.61	1543.93	101.49	828.37	264.89	3.13	PASS
12513.00†	7663.00	4291.82	732.06	12803.88	7828.00	4292.61	1543.83	101.49	828.37	270.90	3.06	PASS
12613.00†	7663.00	4391.82	731.96	12903.88	7828.00	4392.61	1543.73	101.49	828.37	276.91	3.00	PASS
12713.00†	7663.00	4491.82	731.87	13003.88	7828.00	4492.61	1543.64	101.49	828.37	282.93	2.93	PASS
12813.00†	7663.00	4591.82	731.77	13103.88	7828.00	4592.61	1543.54	101.49	828.37	288.95	2.87	PASS
12913.00†	7663.00	4691.82	731.67	13203.88	7828.00	4692.61	1543.44	101.49	828.37	294.97	2.81	PASS
13013.00†	7663.00	4791.82	731.58	13303.88	7828.00	4792.61	1543.34	101.49	828.37	301.01	2.76	PASS
13113.00†	7663.00	4891.82	731.48	13403.88	7828.00	4892.61	1543.25	101.49	828.37	307.05	2.70	PASS
13213.00†	7663.00	4991.82	731.38	13503.88	7828.00	4992.61	1543.15	101.49	828.37	313.09	2.65	PASS
13313.00†	7663.00	5091.82	731.29	13603.88	7828.00	5092.61	1543.05	101.49	828.37	319.13	2.60	PASS
13413.00†	7663.00	5191.82	731.19	13703.88	7828.00	5192.61	1542.96	101.49	828.37	325.18	2.55	PASS
13513.00†	7663.00	5291.82	731.09	13803.88	7828.00	5292.61	1542.86	101.49	828.37	331.24	2.50	PASS
13613.00†	7663.00	5391.82	730.99	13903.88	7828.00	5392.61	1542.76	101.49	828.37	337.29	2.46	PASS
13713.00†	7663.00	5491.82	730.90	14003.88	7828.00	5492.61	1542.66	101.49	828.37	343.35	2.42	PASS
13813.00†	7663.00	5591.82	730.80	14103.88	7828.00	5592.61	1542.57	101.49	828.37	349.42	2.37	PASS
13913.00†	7663.00	5691.82	730.70	14203.88	7828.00	5692.61	1542.47	101.49	828.36	355.48	2.33	PASS
14013.00†	7663.00	5791.82	730.61	14303.88	7828.00	5792.61	1542.37	101.49	828.36	361.55	2.29	PASS
14113.00†	7663.00	5891.82	730.51	14403.88	7828.00	5892.61	1542.27	101.49	828.36	367.62	2.26	PASS
14213.00†	7663.00	5991.82	730.41	14503.88	7828.00	5992.61	1542.18	101.49	828.36	373.70	2.22	PASS
14313.00†	7663.00	6091.82	730.31	14603.88	7828.00	6092.61	1542.08	101.49	828.36	379.77	2.18	PASS
14413.00†	7663.00	6191.82	730.22	14703.88	7828.00	6192.61	1541.98	101.49	828.36	385.85	2.15	PASS
14513.00†	7663.00	6291.82	730.12	14803.88	7828.00	6292.61	1541.88	101.49	828.36	391.94	2.12	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-3CDH PWB** Offset Wellpath: **ACKARD NORTH 2-35-3CDH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W Slot: SLOT#12 ACKARD NORTH 2-35-3CDH (600'FSL & 2100'FWL, SEC.02) Well: ACKARD NORTH 2-35-3CDH 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
14613.00†	7663.00	6391.82	730.02	14903.88	7828.00	6392.61	1541.79	101.49	828.36	398.02	2.08	PASS
14713.00†	7663.00	6491.82	729.93	15003.88	7828.00	6492.61	1541.69	101.49	828.36	404.10	2.05	PASS
14813.00†	7663.00	6591.82	729.83	15103.88	7828.00	6592.61	1541.59	101.49	828.36	410.19	2.02	PASS
14913.00†	7663.00	6691.82	729.73	15203.88	7828.00	6692.61	1541.49	101.49	828.36	416.28	1.99	PASS
15013.00†	7663.00	6791.82	729.64	15303.88	7828.00	6792.61	1541.40	101.49	828.36	422.37	1.96	PASS
15113.00†	7663.00	6891.82	729.54	15403.88	7828.00	6892.61	1541.30	101.49	828.36	428.46	1.93	PASS
15213.00†	7663.00	6991.82	729.44	15503.88	7828.00	6992.61	1541.20	101.49	828.36	434.56	1.91	PASS
15313.00†	7663.00	7091.82	729.34	15603.88	7828.00	7092.61	1541.10	101.49	828.36	440.65	1.88	PASS
15413.00†	7663.00	7191.82	729.25	15703.88	7828.00	7192.61	1541.01	101.49	828.36	446.75	1.86	PASS
15513.00†	7663.00	7291.82	729.15	15803.88	7828.00	7292.61	1540.91	101.49	828.36	452.85	1.83	PASS
15613.00†	7663.00	7391.82	729.05	15903.88	7828.00	7392.61	1540.81	101.49	828.36	458.95	1.81	PASS
15713.00†	7663.00	7491.82	728.96	16003.88	7828.00	7492.61	1540.71	101.49	828.36	465.05	1.78	PASS
15813.00†	7663.00	7591.82	728.86	16103.88	7828.00	7592.61	1540.62	101.49	828.36	471.15	1.76	PASS
15913.00†	7663.00	7691.82	728.76	16203.88	7828.00	7692.61	1540.52	101.49	828.36	477.25	1.74	PASS
16013.00†	7663.00	7791.82	728.67	16303.88	7828.00	7792.61	1540.42	101.49	828.36	483.36	1.71	PASS
16113.00†	7663.00	7891.82	728.57	16403.88	7828.00	7892.61	1540.32	101.49	828.36	489.46	1.69	PASS
16213.00†	7663.00	7991.82	728.47	16503.88	7828.00	7992.61	1540.23	101.49	828.36	495.57	1.67	PASS
16313.00†	7663.00	8091.82	728.37	16603.88	7828.00	8092.61	1540.13	101.49	828.36	501.68	1.65	PASS
16413.00†	7663.00	8191.82	728.28	16703.88	7828.00	8192.61	1540.03	101.49	828.35	507.79	1.63	PASS
16513.00†	7663.00	8291.82	728.18	16803.88	7828.00	8292.61	1539.93	101.49	828.35	513.90	1.61	PASS
16613.00†	7663.00	8391.82	728.08	16903.88	7828.00	8392.61	1539.84	101.49	828.35	520.01	1.59	PASS
16713.00†	7663.00	8491.82	727.99	17003.88	7828.00	8492.61	1539.74	101.49	828.35	526.12	1.58	PASS
16813.00†	7663.00	8591.82	727.89	17103.88	7828.00	8592.61	1539.64	101.49	828.35	532.23	1.56	PASS
16913.00†	7663.00	8691.82	727.79	17203.88	7828.00	8692.61	1539.55	101.49	828.35	538.35	1.54	PASS
17013.00†	7663.00	8791.82	727.70	17303.88	7828.00	8792.61	1539.45	101.49	828.35	544.46	1.52	PASS
17113.00†	7663.00	8891.82	727.60	17403.88	7828.00	8892.61	1539.35	101.49	828.35	550.58	1.51	PASS
17213.00†	7663.00	8991.82	727.50	17503.88	7828.00	8992.61	1539.25	101.49	828.35	556.69	1.49	PASS
17313.00†	7663.00	9091.82	727.40	17603.88	7828.00	9092.61	1539.16	101.49	828.35	562.81	1.47	PASS
17413.00†	7663.00	9191.82	727.31	17703.88	7828.00	9192.61	1539.06	101.49	828.35	568.93	1.46	PASS
17513.00†	7663.00	9291.82	727.21	17803.88	7828.00	9292.61	1538.96	101.49	828.35	575.04	1.44	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-3CDH PWB Offset Wellpath: ACKARD NORTH 2-35-3CDH PWP (REV. A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#12 ACKARD NORTH 2-35-3CDH (600'FSL & 2100'FWL, SEC.02) Well: ACKARD NORTH 2-35-3CDH 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
17613.00†	7663.00	9391.82	727.11	17903.88	7828.00	9392.61	1538.86	101.49	828.35	581.16	1.43	PASS
17713.00†	7663.00	9491.82	727.02	18003.88	7828.00	9492.61	1538.77	101.49	828.35	587.28	1.41	PASS
17807.10	7663.00	9585.92	726.93	18097.98	7828.00	9586.71	1538.67	101.49	828.35	593.04	1.40	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ACKARD NORTH 2-35-3CDH PWB Offset Wellpath: ACKARD NORTH 2-35-3CDH 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: ACKARD NORTH 2-35-3CDH PWB Offset Wellpath: ACKARD NORTH 2-35-3CDH 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	1797.47	0.08	27.42	-6.06	39.18
8.5in Open Hole	1800.00	18103.54	16303.54	1797.47	7828.00	-6.06	39.18	2923.76	482.69

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: ACKARD NORTH 2-35-3CDH PWP (REV. A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	18103.54	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-3CDH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: ACKARD NORTH 2-35-3CDH PWB Offset Wellpath: ACKARD NORTH 2-35-3CDH 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: CHAMPLIN 117 AMOCO G#6 AWB Offset Wellpath: CHAMPLIN 117 AMOCO G#6 AWP

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G #6 (660'FNL & 1980'FWL, SEC.35,8308,PR) Well: CHAMPLIN 117 AMOCO G#6 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	65.00	9284.26	-64.11	-0.40	9284.62	25.40	377.37	PASS
113.00†	113.00	0.00	0.00	35.00	113.00	9284.26	-64.11	-0.40	9284.48	50.83	185.58	PASS
213.00†	213.00	0.00	0.00	135.00	213.00	9284.26	-64.11	-0.40	9284.48	53.17	177.27	PASS
313.00†	313.00	0.00	0.00	235.00	313.00	9284.26	-64.11	-0.40	9284.48	55.52	169.66	PASS
413.00†	413.00	0.00	0.00	335.00	413.00	9284.26	-64.11	-0.40	9284.48	57.87	162.66	PASS
513.00†	513.00	0.00	0.00	435.00	513.00	9284.26	-64.11	-0.40	9284.48	60.23	156.21	PASS
613.00†	613.00	0.00	0.00	535.00	613.00	9284.26	-64.11	-0.40	9284.48	62.59	150.24	PASS
713.00†	713.00	0.00	0.00	635.00	713.00	9284.26	-64.11	-0.40	9284.48	64.96	144.70	PASS
813.00†	813.00	0.00	0.00	735.00	813.00	9284.26	-64.11	-0.40	9284.48	67.33	139.55	PASS
913.00†	913.00	0.00	0.00	835.00	913.00	9284.26	-64.11	-0.40	9284.48	69.70	134.74	PASS
1013.00†	1013.00	0.00	0.00	935.00	1013.00	9284.26	-64.11	-0.40	9284.48	72.08	130.25	PASS
1113.00†	1113.00	0.00	0.00	1035.00	1113.00	9284.26	-64.11	-0.40	9284.48	74.46	126.04	PASS
1213.00†	1213.00	0.00	0.00	1135.00	1213.00	9284.26	-64.11	-0.40	9284.48	76.85	122.08	PASS
1313.00†	1313.00	0.00	0.00	1235.00	1313.00	9284.26	-64.11	-0.40	9284.48	79.23	118.37	PASS
1413.00†	1413.00	0.00	0.00	1335.00	1413.00	9284.26	-64.11	-0.40	9284.48	81.63	114.86	PASS
1513.00†	1513.00	0.00	0.00	1435.00	1513.00	9284.26	-64.11	-0.40	9284.48	84.02	111.55	PASS
1600.00	1600.00	0.00	0.00	1522.00	1600.00	9284.26	-64.11	-0.40	9284.48	86.11	108.82	PASS
1613.00†	1613.00	-0.02	0.02	1535.00	1613.00	9284.26	-64.11	-137.54	9284.50	86.42	108.43	PASS
1713.00†	1712.97	-1.63	1.52	1634.97	1712.97	9284.26	-64.11	-137.52	9286.12	88.84	105.48	PASS
1813.00†	1812.80	-5.80	5.38	1734.80	1812.80	9284.26	-64.11	-137.49	9290.32	91.18	102.68	PASS
1913.00†	1912.38	-12.52	11.62	1834.38	1912.38	9284.26	-64.11	-137.44	9297.09	93.62	100.06	PASS
2013.00†	2011.57	-21.78	20.22	1933.57	2011.57	9284.26	-64.11	-137.36	9306.42	96.05	97.60	PASS
2113.00†	2110.26	-33.58	31.16	2032.26	2110.26	9284.26	-64.11	-137.26	9318.32	98.48	95.30	PASS
2129.27	2126.27	-35.74	33.16	2048.27	2126.27	9284.26	-64.11	-137.25	9320.50	98.88	94.94	PASS
2213.00†	2208.57	-47.01	43.63	2130.57	2208.57	9284.26	-64.11	-137.31	9331.89	100.89	93.15	PASS
2313.00†	2306.87	-60.48	56.12	2228.87	2306.87	9284.26	-64.11	-137.39	9345.51	103.30	91.09	PASS
2413.00†	2405.17	-73.94	68.62	2327.17	2405.17	9284.26	-64.11	-137.46	9359.14	105.72	89.12	PASS
2513.00†	2503.46	-87.41	81.11	2425.46	2503.46	9284.26	-64.11	-137.54	9372.79	108.15	87.23	PASS
2613.00†	2601.76	-100.87	93.61	2523.76	2601.76	9284.26	-64.11	-137.61	9386.45	110.59	85.42	PASS
2713.00†	2700.06	-114.34	106.10	2622.06	2700.06	9284.26	-64.11	-137.69	9400.14	113.03	83.68	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **CHAMPLIN 117 AMOCO G#6 AWB** Offset Wellpath: **CHAMPLIN 117 AMOCO G#6 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G #6 (660'FNL & 1980'FWL, SEC.35,8308,PR) Well: CHAMPLIN 117 AMOCO G#6 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†	2798.36	-127.80	118.60	2720.36	2798.36	9284.26	-64.11	-137.76	9413.83	115.49	82.01	PASS
2913.00†	2896.66	-141.27	131.10	2818.66	2896.66	9284.26	-64.11	-137.84	9427.55	117.96	80.40	PASS
3013.00†	2994.95	-154.73	143.59	2916.95	2994.95	9284.26	-64.11	-137.91	9441.28	120.43	78.85	PASS
3113.00†	3093.25	-168.20	156.09	3015.25	3093.25	9284.26	-64.11	-137.99	9455.02	122.91	77.37	PASS
3213.00†	3191.55	-181.67	168.58	3113.55	3191.55	9284.26	-64.11	-138.06	9468.78	125.40	75.93	PASS
3313.00†	3289.85	-195.13	181.08	3211.85	3289.85	9284.26	-64.11	-138.13	9482.56	127.90	74.55	PASS
3413.00†	3388.15	-208.60	193.57	3310.15	3388.15	9284.26	-64.11	-138.21	9496.35	130.41	73.21	PASS
3513.00†	3486.45	-222.06	206.07	3408.45	3486.45	9284.26	-64.11	-138.28	9510.16	132.92	71.93	PASS
3613.00†	3584.74	-235.53	218.57	3506.74	3584.74	9284.26	-64.11	-138.35	9523.98	135.44	70.68	PASS
3713.00†	3683.04	-248.99	231.06	3605.04	3683.04	9284.26	-64.11	-138.43	9537.82	137.97	69.48	PASS
3813.00†	3781.34	-262.46	243.56	3703.34	3781.34	9284.26	-64.11	-138.50	9551.67	140.50	68.32	PASS
3913.00†	3879.64	-275.92	256.05	3801.64	3879.64	9284.26	-64.11	-138.57	9565.54	143.04	67.20	PASS
4013.00†	3977.94	-289.39	268.55	3899.94	3977.94	9284.26	-64.11	-138.64	9579.42	145.59	66.11	PASS
4113.00†	4076.24	-302.85	281.04	3998.24	4076.24	9284.26	-64.11	-138.71	9593.32	148.14	65.06	PASS
4213.00†	4174.53	-316.32	293.54	4096.53	4174.53	9284.26	-64.11	-138.79	9607.24	150.70	64.05	PASS
4313.00†	4272.83	-329.79	306.04	4194.83	4272.83	9284.26	-64.11	-138.86	9621.16	153.27	63.06	PASS
4413.00†	4371.13	-343.25	318.53	4293.13	4371.13	9284.26	-64.11	-138.93	9635.11	155.84	62.10	PASS
4513.00†	4469.43	-356.72	331.03	4391.43	4469.43	9284.26	-64.11	-139.00	9649.07	158.42	61.18	PASS
4613.00†	4567.73	-370.18	343.52	4489.73	4567.73	9284.26	-64.11	-139.07	9663.04	161.00	60.28	PASS
4713.00†	4666.02	-383.65	356.02	4588.02	4666.02	9284.26	-64.11	-139.14	9677.03	163.59	59.41	PASS
4813.00†	4764.32	-397.11	368.51	4686.32	4764.32	9284.26	-64.11	-139.21	9691.03	166.18	58.56	PASS
4913.00†	4862.62	-410.58	381.01	4784.62	4862.62	9284.26	-64.11	-139.28	9705.05	168.77	57.74	PASS
5013.00†	4960.92	-424.04	393.51	4882.92	4960.92	9284.26	-64.11	-139.35	9719.08	171.38	56.94	PASS
5113.00†	5059.22	-437.51	406.00	4981.22	5059.22	9284.26	-64.11	-139.42	9733.13	173.98	56.17	PASS
5213.00†	5157.52	-450.98	418.50	5079.52	5157.52	9284.26	-64.11	-139.49	9747.19	176.59	55.41	PASS
5313.00†	5255.81	-464.44	430.99	5177.81	5255.81	9284.26	-64.11	-139.56	9761.26	179.21	54.68	PASS
5413.00†	5354.11	-477.91	443.49	5276.11	5354.11	9284.26	-64.11	-139.63	9775.35	181.83	53.97	PASS
5513.00†	5452.41	-491.37	455.98	5374.41	5452.41	9284.26	-64.11	-139.70	9789.45	184.45	53.27	PASS
5613.00†	5550.71	-504.84	468.48	5472.71	5550.71	9284.26	-64.11	-139.77	9803.57	187.08	52.60	PASS
5713.00†	5649.01	-518.30	480.98	5571.01	5649.01	9284.26	-64.11	-139.84	9817.70	189.71	51.94	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **CHAMPLIN 117 AMOCO G#6 AWB** Offset Wellpath: **CHAMPLIN 117 AMOCO G#6 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G #6 (660'FNL & 1980'FWL, SEC.35,8308,PR) Well: CHAMPLIN 117 AMOCO G#6 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†	5747.30	-531.77	493.47	5669.30	5747.30	9284.26	-64.11	-139.91	9831.85	192.34	51.30	PASS
5913.00†	5845.60	-545.23	505.97	5767.60	5845.60	9284.26	-64.11	-139.98	9846.01	194.98	50.68	PASS
6013.00†	5943.90	-558.70	518.46	5865.90	5943.90	9284.26	-64.11	-140.04	9860.18	197.62	50.07	PASS
6113.00†	6042.20	-572.16	530.96	5964.20	6042.20	9284.26	-64.11	-140.11	9874.37	200.26	49.48	PASS
6213.00†	6140.50	-585.63	543.45	6062.50	6140.50	9284.26	-64.11	-140.18	9888.57	202.91	48.90	PASS
6313.00†	6238.80	-599.10	555.95	6160.80	6238.80	9284.26	-64.11	-140.25	9902.78	205.55	48.34	PASS
6413.00†	6337.09	-612.56	568.45	6259.09	6337.09	9284.26	-64.11	-140.31	9917.01	208.21	47.79	PASS
6513.00†	6435.39	-626.03	580.94	6357.39	6435.39	9284.26	-64.11	-140.38	9931.25	210.86	47.25	PASS
6613.00†	6533.69	-639.49	593.44	6455.69	6533.69	9284.26	-64.11	-140.45	9945.51	213.52	46.73	PASS
6713.00†	6631.99	-652.96	605.93	6553.99	6631.99	9284.26	-64.11	-140.51	9959.78	216.18	46.22	PASS
6813.00†	6730.29	-666.42	618.43	6652.29	6730.29	9284.26	-64.11	-140.58	9974.06	218.84	45.72	PASS
6913.00†	6828.59	-679.89	630.92	6750.59	6828.59	9284.26	-64.11	-140.65	9988.36	221.50	45.23	PASS
7013.00†	6926.88	-693.35	643.42	6848.88	6926.88	9284.26	-64.11	-140.71	10002.66	224.17	44.76	PASS
7105.70	7018.00	-705.84	655.00	6940.00	7018.00	9284.26	-64.11	-140.78	10015.94	226.65	44.33	PASS
7113.00†	7025.19	-706.77	655.92	6947.19	7025.19	9284.26	-64.11	-137.95	10016.94	226.84	44.29	PASS
7213.00†	7124.20	-710.27	668.49	7046.20	7124.20	9284.26	-64.11	-71.81	10021.34	229.67	43.77	PASS
7313.00†	7222.32	-696.39	680.94	7144.32	7222.32	9284.26	-64.11	-33.75	10008.41	233.04	43.08	PASS
7413.00†	7316.56	-665.54	692.88	7238.56	7316.56	9284.26	-64.11	-22.62	9978.55	236.61	42.30	PASS
7513.00†	7404.05	-618.66	703.94	7326.05	7404.05	9284.26	-64.11	-18.27	9932.66	239.71	41.56	PASS
7613.00†	7482.14	-557.19	713.80	7404.14	7482.14	9284.26	-64.11	-16.54	9872.14	242.38	40.85	PASS
7713.00†	7548.46	-482.98	722.15	7470.46	7548.46	9284.26	-64.11	-16.41	9798.83	244.58	40.18	PASS
7813.00†	7600.98	-398.29	728.74	7522.98	7600.98	9284.26	-64.11	-17.94	9714.95	246.28	39.56	PASS
7913.00†	7638.12	-305.69	733.36	7560.12	7638.12	9284.26	-64.11	-22.65	9623.05	247.48	38.99	PASS
8013.00†	7658.74	-208.00	735.89	7580.74	7658.74	9284.26	-64.11	-39.23	9525.91	248.17	38.49	PASS
8083.15	7663.00	-138.03	736.36	7585.00	7663.00	9284.26	-64.11	-90.00	9456.22	248.37	38.18	PASS
8113.00†	7663.00	-108.18	736.33	7585.00	7663.00	9284.26	-64.11	-90.00	9426.48	248.41	38.05	PASS
8213.00†	7663.00	-8.18	736.23	7585.00	7663.00	9284.26	-64.11	-90.00	9326.84	248.54	37.63	PASS
8313.00†	7663.00	91.82	736.14	7585.00	7663.00	9284.26	-64.11	-90.00	9227.20	248.67	37.21	PASS
8413.00†	7663.00	191.82	736.04	7585.00	7663.00	9284.26	-64.11	-90.00	9127.57	248.81	36.79	PASS
8513.00†	7663.00	291.82	735.94	7585.00	7663.00	9284.26	-64.11	-90.00	9027.95	248.96	36.36	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: CHAMPLIN 117 AMOCO G#6 AWB Offset Wellpath: CHAMPLIN 117 AMOCO G#6 AWP

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G #6 (660'FNL & 1980'FWL, SEC.35,8308,PR) Well: CHAMPLIN 117 AMOCO G#6 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†	7663.00	391.82	735.84	7585.00	7663.00	9284.26	-64.11	-90.00	8928.34	249.11	35.94	PASS
8713.00†	7663.00	491.82	735.75	7585.00	7663.00	9284.26	-64.11	-90.00	8828.74	249.27	35.52	PASS
8813.00†	7663.00	591.82	735.65	7585.00	7663.00	9284.26	-64.11	-90.00	8729.15	249.43	35.09	PASS
8913.00†	7663.00	691.82	735.55	7585.00	7663.00	9284.26	-64.11	-90.00	8629.56	249.60	34.67	PASS
9013.00†	7663.00	791.82	735.46	7585.00	7663.00	9284.26	-64.11	-90.00	8529.99	249.77	34.25	PASS
9113.00†	7663.00	891.82	735.36	7585.00	7663.00	9284.26	-64.11	-90.00	8430.43	249.95	33.82	PASS
9213.00†	7663.00	991.82	735.26	7585.00	7663.00	9284.26	-64.11	-90.00	8330.87	250.14	33.40	PASS
9313.00†	7663.00	1091.82	735.17	7585.00	7663.00	9284.26	-64.11	-90.00	8231.33	250.34	32.97	PASS
9413.00†	7663.00	1191.82	735.07	7585.00	7663.00	9284.26	-64.11	-90.00	8131.80	250.54	32.55	PASS
9513.00†	7663.00	1291.82	734.97	7585.00	7663.00	9284.26	-64.11	-90.00	8032.28	250.75	32.12	PASS
9613.00†	7663.00	1391.82	734.87	7585.00	7663.00	9284.26	-64.11	-90.00	7932.77	250.97	31.70	PASS
9713.00†	7663.00	1491.82	734.78	7585.00	7663.00	9284.26	-64.11	-90.00	7833.28	251.20	31.27	PASS
9813.00†	7663.00	1591.82	734.68	7585.00	7663.00	9284.26	-64.11	-90.00	7733.80	251.43	30.84	PASS
9913.00†	7663.00	1691.82	734.58	7585.00	7663.00	9284.26	-64.11	-90.00	7634.33	251.67	30.42	PASS
10013.00†	7663.00	1791.82	734.49	7585.00	7663.00	9284.26	-64.11	-90.00	7534.87	251.93	29.99	PASS
10113.00†	7663.00	1891.82	734.39	7585.00	7663.00	9284.26	-64.11	-90.00	7435.44	252.19	29.56	PASS
10213.00†	7663.00	1991.82	734.29	7585.00	7663.00	9284.26	-64.11	-90.00	7336.01	252.46	29.14	PASS
10313.00†	7663.00	2091.82	734.20	7585.00	7663.00	9284.26	-64.11	-90.00	7236.60	252.74	28.71	PASS
10413.00†	7663.00	2191.82	734.10	7585.00	7663.00	9284.26	-64.11	-90.00	7137.21	253.03	28.28	PASS
10513.00†	7663.00	2291.82	734.00	7585.00	7663.00	9284.26	-64.11	-90.00	7037.84	253.33	27.86	PASS
10613.00†	7663.00	2391.82	733.90	7585.00	7663.00	9284.26	-64.11	-90.00	6938.48	253.65	27.43	PASS
10713.00†	7663.00	2491.82	733.81	7585.00	7663.00	9284.26	-64.11	-90.00	6839.14	253.97	27.00	PASS
10813.00†	7663.00	2591.82	733.71	7585.00	7663.00	9284.26	-64.11	-90.00	6739.82	254.31	26.57	PASS
10913.00†	7663.00	2691.82	733.61	7585.00	7663.00	9284.26	-64.11	-90.00	6640.52	254.66	26.15	PASS
11013.00†	7663.00	2791.82	733.52	7585.00	7663.00	9284.26	-64.11	-90.00	6541.25	255.02	25.72	PASS
11113.00†	7663.00	2891.82	733.42	7585.00	7663.00	9284.26	-64.11	-90.00	6441.99	255.40	25.29	PASS
11213.00†	7663.00	2991.82	733.32	7585.00	7663.00	9284.26	-64.11	-90.00	6342.76	255.80	24.86	PASS
11313.00†	7663.00	3091.82	733.23	7585.00	7663.00	9284.26	-64.11	-90.00	6243.56	256.20	24.43	PASS
11413.00†	7663.00	3191.82	733.13	7585.00	7663.00	9284.26	-64.11	-90.00	6144.38	256.63	24.01	PASS
11513.00†	7663.00	3291.82	733.03	7585.00	7663.00	9284.26	-64.11	-90.00	6045.22	257.07	23.58	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **CHAMPLIN 117 AMOCO G#6 AWB** Offset Wellpath: **CHAMPLIN 117 AMOCO G#6 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G #6 (660'FNL & 1980'FWL, SEC.35,8308,PR) Well: CHAMPLIN 117 AMOCO G#6 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†	7663.00	3391.82	732.93	7585.00	7663.00	9284.26	-64.11	-90.00	5946.10	257.53	23.15	PASS
11713.00†	7663.00	3491.82	732.84	7585.00	7663.00	9284.26	-64.11	-90.00	5847.00	258.01	22.72	PASS
11813.00†	7663.00	3591.82	732.74	7585.00	7663.00	9284.26	-64.11	-90.00	5747.94	258.51	22.29	PASS
11913.00†	7663.00	3691.82	732.64	7585.00	7663.00	9284.26	-64.11	-90.00	5648.91	259.03	21.86	PASS
12013.00†	7663.00	3791.82	732.55	7585.00	7663.00	9284.26	-64.11	-90.00	5549.91	259.57	21.44	PASS
12113.00†	7663.00	3891.82	732.45	7585.00	7663.00	9284.26	-64.11	-90.00	5450.95	260.14	21.01	PASS
12213.00†	7663.00	3991.82	732.35	7585.00	7663.00	9284.26	-64.11	-90.00	5352.03	260.73	20.58	PASS
12313.00†	7663.00	4091.82	732.26	7585.00	7663.00	9284.26	-64.11	-90.00	5253.15	261.34	20.15	PASS
12413.00†	7663.00	4191.82	732.16	7585.00	7663.00	9284.26	-64.11	-90.00	5154.31	261.99	19.72	PASS
12513.00†	7663.00	4291.82	732.06	7585.00	7663.00	9284.26	-64.11	-90.00	5055.52	262.66	19.30	PASS
12613.00†	7663.00	4391.82	731.96	7585.00	7663.00	9284.26	-64.11	-90.00	4956.78	263.37	18.87	PASS
12713.00†	7663.00	4491.82	731.87	7585.00	7663.00	9284.26	-64.11	-90.00	4858.09	264.10	18.44	PASS
12813.00†	7663.00	4591.82	731.77	7585.00	7663.00	9284.26	-64.11	-90.00	4759.45	264.88	18.01	PASS
12913.00†	7663.00	4691.82	731.67	7585.00	7663.00	9284.26	-64.11	-90.00	4660.87	265.69	17.59	PASS
13013.00†	7663.00	4791.82	731.58	7585.00	7663.00	9284.26	-64.11	-90.00	4562.36	266.54	17.16	PASS
13113.00†	7663.00	4891.82	731.48	7585.00	7663.00	9284.26	-64.11	-90.00	4463.91	267.43	16.73	PASS
13213.00†	7663.00	4991.82	731.38	7585.00	7663.00	9284.26	-64.11	-90.00	4365.53	268.37	16.31	PASS
13313.00†	7663.00	5091.82	731.29	7585.00	7663.00	9284.26	-64.11	-90.00	4267.22	269.36	15.88	PASS
13413.00†	7663.00	5191.82	731.19	7585.00	7663.00	9284.26	-64.11	-90.00	4169.00	270.40	15.46	PASS
13513.00†	7663.00	5291.82	731.09	7585.00	7663.00	9284.26	-64.11	-90.00	4070.86	271.49	15.03	PASS
13613.00†	7663.00	5391.82	730.99	7585.00	7663.00	9284.26	-64.11	-90.00	3972.81	272.65	14.61	PASS
13713.00†	7663.00	5491.82	730.90	7585.00	7663.00	9284.26	-64.11	-90.00	3874.87	273.87	14.18	PASS
13813.00†	7663.00	5591.82	730.80	7585.00	7663.00	9284.26	-64.11	-90.00	3777.03	275.16	13.76	PASS
13913.00†	7663.00	5691.82	730.70	7585.00	7663.00	9284.26	-64.11	-90.00	3679.31	276.53	13.34	PASS
14013.00†	7663.00	5791.82	730.61	7585.00	7663.00	9284.26	-64.11	-90.00	3581.72	277.98	12.92	PASS
14113.00†	7663.00	5891.82	730.51	7585.00	7663.00	9284.26	-64.11	-90.00	3484.26	279.51	12.49	PASS
14213.00†	7663.00	5991.82	730.41	7585.00	7663.00	9284.26	-64.11	-90.00	3386.95	281.15	12.07	PASS
14313.00†	7663.00	6091.82	730.31	7585.00	7663.00	9284.26	-64.11	-90.00	3289.80	282.89	11.66	PASS
14413.00†	7663.00	6191.82	730.22	7585.00	7663.00	9284.26	-64.11	-90.00	3192.82	284.74	11.24	PASS
14513.00†	7663.00	6291.82	730.12	7585.00	7663.00	9284.26	-64.11	-90.00	3096.04	286.71	10.82	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **CHAMPLIN 117 AMOCO G#6 AWB** Offset Wellpath: **CHAMPLIN 117 AMOCO G#6 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G #6 (660'FNL & 1980'FWL, SEC.35,8308,PR) Well: CHAMPLIN 117 AMOCO G#6 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
14613.00†	7663.00	6391.82	730.02	7585.00	7663.00	9284.26	-64.11	-90.00	2999.47	288.83	10.41	PASS
14713.00†	7663.00	6491.82	729.93	7585.00	7663.00	9284.26	-64.11	-90.00	2903.14	291.09	10.00	PASS
14813.00†	7663.00	6591.82	729.83	7585.00	7663.00	9284.26	-64.11	-90.00	2807.05	293.51	9.58	PASS
14913.00†	7663.00	6691.82	729.73	7585.00	7663.00	9284.26	-64.11	-90.00	2711.26	296.11	9.18	PASS
15013.00†	7663.00	6791.82	729.64	7585.00	7663.00	9284.26	-64.11	-90.00	2615.77	298.91	8.77	PASS
15113.00†	7663.00	6891.82	729.54	7585.00	7663.00	9284.26	-64.11	-90.00	2520.64	301.93	8.37	PASS
15213.00†	7663.00	6991.82	729.44	7585.00	7663.00	9284.26	-64.11	-90.00	2425.90	305.19	7.96	PASS
15313.00†	7663.00	7091.82	729.34	7585.00	7663.00	9284.26	-64.11	-90.00	2331.60	308.72	7.57	PASS
15413.00†	7663.00	7191.82	729.25	7585.00	7663.00	9284.26	-64.11	-90.00	2237.79	312.54	7.17	PASS
15513.00†	7663.00	7291.82	729.15	7585.00	7663.00	9284.26	-64.11	-90.00	2144.54	316.70	6.78	PASS
15613.00†	7663.00	7391.82	729.05	7585.00	7663.00	9284.26	-64.11	-90.00	2051.93	321.23	6.40	PASS
15713.00†	7663.00	7491.82	728.96	7585.00	7663.00	9284.26	-64.11	-90.00	1960.05	326.16	6.02	PASS
15813.00†	7663.00	7591.82	728.86	7585.00	7663.00	9284.26	-64.11	-90.00	1868.99	331.56	5.65	PASS
15913.00†	7663.00	7691.82	728.76	7585.00	7663.00	9284.26	-64.11	-90.00	1778.90	337.48	5.28	PASS
16013.00†	7663.00	7791.82	728.67	7585.00	7663.00	9284.26	-64.11	-90.00	1689.93	343.97	4.92	PASS
16113.00†	7663.00	7891.82	728.57	7585.00	7663.00	9284.26	-64.11	-90.00	1602.25	351.10	4.57	PASS
16213.00†	7663.00	7991.82	728.47	7585.00	7663.00	9284.26	-64.11	-90.00	1516.11	358.95	4.23	PASS
16313.00†	7663.00	8091.82	728.37	7585.00	7663.00	9284.26	-64.11	-90.00	1431.76	367.58	3.90	PASS
16413.00†	7663.00	8191.82	728.28	7585.00	7663.00	9284.26	-64.11	-90.00	1349.55	377.07	3.58	PASS
16513.00†	7663.00	8291.82	728.18	7585.00	7663.00	9284.26	-64.11	-90.00	1269.90	387.48	3.28	PASS
16613.00†	7663.00	8391.82	728.08	7585.00	7663.00	9284.26	-64.11	-90.00	1193.32	398.84	3.00	PASS
16713.00†	7663.00	8491.82	727.99	7585.00	7663.00	9284.26	-64.11	-90.00	1120.43	411.14	2.73	PASS
16813.00†	7663.00	8591.82	727.89	7585.00	7663.00	9284.26	-64.11	-90.00	1052.01	424.28	2.48	PASS
16913.00†	7663.00	8691.82	727.79	7585.00	7663.00	9284.26	-64.11	-90.00	988.98	438.03	2.26	PASS
17013.00†	7663.00	8791.82	727.70	7585.00	7663.00	9284.26	-64.11	-90.00	932.44	452.01	2.06	PASS
17113.00†	7663.00	8891.82	727.60	7585.00	7663.00	9284.26	-64.11	-90.00	883.63	465.56	1.90	PASS
17213.00†	7663.00	8991.82	727.50	7585.00	7663.00	9284.26	-64.11	-90.00	843.90	477.81	1.77	PASS
17313.00†	7663.00	9091.82	727.40	7585.00	7663.00	9284.26	-64.11	-90.00	814.57	487.68	1.67	PASS
17413.00†	7663.00	9191.82	727.31	7585.00	7663.00	9284.26	-64.11	-90.00	796.79	494.12	1.61	PASS
17506.38†	7663.00	9285.20	727.22	7584.09	7662.09	9284.26	-64.11	-89.93	791.32	496.29	1.60	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: CHAMPLIN 117 AMOCO G#6 AWB Offset Wellpath: CHAMPLIN 117 AMOCO G#6 AWP

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G #6 (660'FNL & 1980'FWL, SEC.35,8308,PR) Well: CHAMPLIN 117 AMOCO G#6 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
17513.00†	7663.00	9291.82	727.21	7585.00	7663.00	9284.26	-64.11	-90.00	791.35	496.32	1.60	PASS
17613.00†	7663.00	9391.82	727.11	7585.00	7663.00	9284.26	-64.11	-90.00	798.50	494.00	1.62	PASS
17713.00†	7663.00	9491.82	727.02	7585.00	7663.00	9284.26	-64.11	-90.00	817.90	487.50	1.68	PASS
17807.10	7663.00	9585.92	726.93	7585.00	7663.00	9284.26	-64.11	-90.00	846.60	478.32	1.77	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: CHAMPLIN 117 AMOCO G#6 AWB Offset Wellpath: CHAMPLIN 117 AMOCO G#6 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: CHAMPLIN 117 AMOCO G#6 AWB Offset Wellpath: CHAMPLIN 117 AMOCO G#6 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8308.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8308>	CHAMPLIN 117 AMOCO G#6 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: CHAMPLIN 117 AMOCO G#6 AWB Offset Wellpath: CHAMPLIN 117 AMOCO G#6 AWP

MD Reference: **Rig on SLOT#01 EX CHAMPLIN 117 AOMOCO G #6 (660'FNL & 1980'FWL, SEC.35,8308,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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-2NAH PWB** Offset Wellpath: **ACKARD NORTH 2-35-2NAH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#06 ACKARD NORTH 2-35-2NAH (600'FSL & 2010'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-2NAH** **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	-0.13	-45.00	-90.16	45.00	1.40	73.67	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.13	-45.00	-90.16	45.00	1.72	48.28	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.13	-45.00	-90.16	45.00	2.28	29.88	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.13	-45.00	-90.16	45.00	2.88	21.24	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.13	-45.00	-90.16	45.00	3.50	16.41	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.13	-45.00	-90.16	45.00	4.12	13.34	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.13	-45.00	-90.16	45.00	4.74	11.23	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.13	-45.00	-90.16	45.00	5.36	9.69	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.13	-45.00	-90.16	45.00	5.99	8.53	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	-0.13	-45.00	-90.16	45.00	6.61	7.61	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	-0.13	-45.00	-90.16	45.00	7.24	6.87	PASS
1113.00†	1113.00	0.00	0.00	1113.00	1113.00	-0.13	-45.00	-90.16	45.00	7.86	6.26	PASS
1213.00†	1213.00	0.00	0.00	1213.00	1213.00	-0.13	-45.00	-90.16	45.00	8.49	5.75	PASS
1313.00†	1313.00	0.00	0.00	1312.94	1312.94	-0.16	-45.01	-90.20	45.01	9.12	5.32	PASS
1413.00†	1413.00	0.00	0.00	1412.45	1412.42	-2.25	-45.62	-92.82	45.68	9.75	5.01	PASS
1513.00†	1513.00	0.00	0.00	1511.68	1511.49	-7.64	-47.18	-99.19	47.82	10.45	4.88	PASS
1600.00	1600.00	0.00	0.00	1597.61	1597.07	-14.96	-49.30	-106.88	51.60	11.11	4.93	PASS
1613.00†	1613.00	-0.02	0.02	1610.41	1609.80	-16.27	-49.68	114.75	52.38	11.22	4.95	PASS
1713.00†	1712.97	-1.63	1.52	1708.72	1707.34	-28.06	-53.09	106.83	60.92	12.03	5.36	PASS
1813.00†	1812.80	-5.80	5.38	1808.00	1805.68	-41.18	-56.89	102.81	71.97	12.64	5.97	PASS
1913.00†	1912.38	-12.52	11.62	1907.28	1904.01	-54.30	-60.69	102.16	83.93	13.32	6.60	PASS
2013.00†	2011.57	-21.78	20.22	2006.42	2002.21	-67.40	-64.48	103.63	96.66	14.04	7.20	PASS
2113.00†	2110.26	-33.58	31.16	2105.32	2100.16	-80.47	-68.27	106.45	110.39	14.82	7.77	PASS
2129.27	2126.27	-35.74	33.16	2121.38	2116.07	-82.59	-68.88	106.99	112.75	14.95	7.86	PASS
2213.00†	2208.57	-47.01	43.63	2203.99	2197.90	-93.51	-72.04	109.79	125.12	15.65	8.33	PASS
2313.00†	2306.87	-60.48	56.12	2302.65	2295.62	-106.55	-75.82	112.47	140.20	16.53	8.82	PASS
2413.00†	2405.17	-73.94	68.62	2401.32	2393.35	-119.59	-79.60	114.63	155.53	17.41	9.27	PASS
2513.00†	2503.46	-87.41	81.11	2499.98	2491.08	-132.63	-83.37	116.40	171.04	18.32	9.67	PASS
2613.00†	2601.76	-100.87	93.61	2598.65	2588.80	-145.66	-87.15	117.88	186.67	19.25	10.03	PASS
2713.00†	2700.06	-114.34	106.10	2697.31	2686.53	-158.70	-90.92	119.13	202.41	20.19	10.35	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-2NAH PWB** Offset Wellpath: **ACKARD NORTH 2-35-2NAH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#06 ACKARD NORTH 2-35-2NAH (600'FSL & 2010'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-2NAH** **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†	2798.36	-127.80	118.60	2795.98	2784.26	-171.74	-94.70	120.20	218.23	21.14	10.64	PASS
2913.00†	2896.66	-141.27	131.10	2894.64	2881.98	-184.78	-98.47	121.12	234.12	22.11	10.91	PASS
3013.00†	2994.95	-154.73	143.59	2993.31	2979.71	-197.82	-102.25	121.93	250.05	23.08	11.15	PASS
3113.00†	3093.25	-168.20	156.09	3091.97	3077.43	-210.86	-106.03	122.63	266.03	24.05	11.37	PASS
3213.00†	3191.55	-181.67	168.58	3190.63	3175.16	-223.90	-109.80	123.26	282.05	25.04	11.56	PASS
3313.00†	3289.85	-195.13	181.08	3289.30	3272.89	-236.94	-113.58	123.83	298.09	26.02	11.75	PASS
3413.00†	3388.15	-208.60	193.57	3387.96	3370.61	-249.98	-117.35	124.33	314.16	27.02	11.91	PASS
3513.00†	3486.45	-222.06	206.07	3486.63	3468.34	-263.02	-121.13	124.78	330.25	28.01	12.07	PASS
3613.00†	3584.74	-235.53	218.57	3585.29	3566.07	-276.05	-124.91	125.20	346.36	29.01	12.21	PASS
3713.00†	3683.04	-248.99	231.06	3683.96	3663.79	-289.09	-128.68	125.57	362.48	30.02	12.34	PASS
3813.00†	3781.34	-262.46	243.56	3782.62	3761.52	-302.13	-132.46	125.92	378.62	31.03	12.47	PASS
3913.00†	3879.64	-275.92	256.05	3881.29	3859.25	-315.17	-136.23	126.23	394.77	32.03	12.58	PASS
4013.00†	3977.94	-289.39	268.55	3979.95	3956.97	-328.21	-140.01	126.52	410.93	33.05	12.69	PASS
4113.00†	4076.24	-302.85	281.04	4078.62	4054.70	-341.25	-143.78	126.79	427.10	34.06	12.78	PASS
4213.00†	4174.53	-316.32	293.54	4177.28	4152.43	-354.29	-147.56	127.04	443.28	35.08	12.88	PASS
4313.00†	4272.83	-329.79	306.04	4275.95	4250.15	-367.33	-151.34	127.28	459.47	36.09	12.96	PASS
4413.00†	4371.13	-343.25	318.53	4374.61	4347.88	-380.37	-155.11	127.49	475.66	37.11	13.05	PASS
4513.00†	4469.43	-356.72	331.03	4473.28	4445.60	-393.40	-158.89	127.69	491.86	38.14	13.12	PASS
4613.00†	4567.73	-370.18	343.52	4571.94	4543.33	-406.44	-162.66	127.88	508.07	39.16	13.20	PASS
4713.00†	4666.02	-383.65	356.02	4670.61	4641.06	-419.48	-166.44	128.06	524.28	40.18	13.26	PASS
4813.00†	4764.32	-397.11	368.51	4769.27	4738.78	-432.52	-170.21	128.23	540.49	41.21	13.33	PASS
4913.00†	4862.62	-410.58	381.01	4867.93	4836.51	-445.56	-173.99	128.38	556.71	42.23	13.39	PASS
5013.00†	4960.92	-424.04	393.51	4966.60	4934.24	-458.60	-177.77	128.53	572.94	43.26	13.45	PASS
5113.00†	5059.22	-437.51	406.00	5065.26	5031.96	-471.64	-181.54	128.67	589.16	44.29	13.50	PASS
5213.00†	5157.52	-450.98	418.50	5163.93	5129.69	-484.68	-185.32	128.80	605.39	45.32	13.56	PASS
5313.00†	5255.81	-464.44	430.99	5262.59	5227.42	-497.72	-189.09	128.93	621.63	46.35	13.60	PASS
5413.00†	5354.11	-477.91	443.49	5361.26	5325.14	-510.76	-192.87	129.05	637.86	47.38	13.65	PASS
5513.00†	5452.41	-491.37	455.98	5459.92	5422.87	-523.79	-196.65	129.16	654.10	48.41	13.70	PASS
5613.00†	5550.71	-504.84	468.48	5558.59	5520.60	-536.83	-200.42	129.27	670.34	49.44	13.74	PASS
5713.00†	5649.01	-518.30	480.98	5657.25	5618.32	-549.87	-204.20	129.37	686.59	50.48	13.78	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-2NAH PWB Offset Wellpath: ACKARD NORTH 2-35-2NAH PWP (REV. A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#06 ACKARD NORTH 2-35-2NAH (600'FSL & 2010'FWL, SEC.02) Well: ACKARD NORTH 2-35-2NAH 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
5813.00†	5747.30	-531.77	493.47	5755.92	5716.05	-562.91	-207.97	129.47	702.83	51.51	13.82	PASS
5913.00†	5845.60	-545.23	505.97	5854.58	5813.77	-575.95	-211.75	129.56	719.08	52.54	13.86	PASS
6013.00†	5943.90	-558.70	518.46	5953.25	5911.50	-588.99	-215.52	129.65	735.33	53.58	13.89	PASS
6113.00†	6042.20	-572.16	530.96	6051.91	6009.23	-602.03	-219.30	129.74	751.58	54.62	13.93	PASS
6213.00†	6140.50	-585.63	543.45	6150.58	6106.95	-615.07	-223.08	129.82	767.83	55.65	13.96	PASS
6313.00†	6238.80	-599.10	555.95	6249.24	6204.68	-628.11	-226.85	129.90	784.08	56.69	13.99	PASS
6413.00†	6337.09	-612.56	568.45	6347.91	6302.41	-641.15	-230.63	129.97	800.34	57.73	14.02	PASS
6513.00†	6435.39	-626.03	580.94	6446.57	6400.13	-654.18	-234.40	130.05	816.59	58.76	14.05	PASS
6613.00†	6533.69	-639.49	593.44	6545.24	6497.86	-667.22	-238.18	130.12	832.85	59.80	14.08	PASS
6713.00†	6631.99	-652.96	605.93	6643.90	6595.59	-680.26	-241.96	130.18	849.11	60.84	14.11	PASS
6813.00†	6730.29	-666.42	618.43	6742.56	6693.31	-693.30	-245.73	130.25	865.37	61.88	14.14	PASS
6913.00†	6828.59	-679.89	630.92	6841.23	6791.04	-706.34	-249.51	130.31	881.63	62.92	14.16	PASS
7013.00†	6926.88	-693.35	643.42	6942.83	6892.19	-713.55	-253.43	130.77	897.75	63.98	14.18	PASS
7105.70	7018.00	-705.84	655.00	7033.10	6981.90	-705.09	-256.95	132.11	912.67	64.90	14.21	PASS
7113.00†	7025.19	-706.77	655.92	7039.91	6988.60	-703.88	-257.22	135.18	913.87	64.83	14.24	PASS
7213.00†	7124.20	-710.27	668.49	7130.95	7076.33	-680.15	-260.70	-155.23	930.91	66.42	14.16	PASS
7313.00†	7222.32	-696.39	680.94	7218.42	7156.06	-644.53	-263.90	-113.76	948.58	65.94	14.53	PASS
7413.00†	7316.56	-665.54	692.88	7303.07	7227.20	-598.90	-266.79	-99.31	966.12	65.00	15.02	PASS
7513.00†	7404.05	-618.66	703.94	7385.52	7289.31	-544.84	-269.35	-91.75	982.81	63.48	15.65	PASS
7613.00†	7482.14	-557.19	713.80	7466.28	7342.02	-483.78	-271.57	-86.86	997.98	61.82	16.32	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ACKARD NORTH 2-35-2NAH PWB Offset Wellpath: ACKARD NORTH 2-35-2NAH PWP (REV. A.0)

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

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

HOLE & CASING SECTIONS - Offset Wellbore: ACKARD NORTH 2-35-2NAH PWB Offset Wellpath: ACKARD NORTH 2-35-2NAH 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	1797.75	-0.08	-27.43	-12.27	-30.96
8.5in Open Hole	1800.00	17752.02	15952.02	1797.75	N/A	-12.27	-30.96	N/A	N/A

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: ACKARD NORTH 2-35-2NAH PWP (REV. A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17552.02	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-2NAH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: ACKARD NORTH 2-35-2NAH PWB Offset Wellpath: ACKARD NORTH 2-35-2NAH 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWB Offset Wellpath: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWP

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 (1980'FSL & 1980'FWL, SEC.35, PA,8360) Well: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 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	21.00	6609.99	-61.82	-0.54	6610.28	25.40	268.66	PASS
113.00†	113.00	0.00	0.00	79.00	113.00	6609.99	-61.82	-0.54	6610.28	51.86	129.46	PASS
213.00†	213.00	0.00	0.00	179.00	213.00	6609.99	-61.82	-0.54	6610.28	54.20	123.77	PASS
313.00†	313.00	0.00	0.00	279.00	313.00	6609.99	-61.82	-0.54	6610.28	56.56	118.55	PASS
413.00†	413.00	0.00	0.00	379.00	413.00	6609.99	-61.82	-0.54	6610.28	58.91	113.74	PASS
513.00†	513.00	0.00	0.00	479.00	513.00	6609.99	-61.82	-0.54	6610.28	61.27	109.31	PASS
613.00†	613.00	0.00	0.00	579.00	613.00	6609.99	-61.82	-0.54	6610.28	63.63	105.20	PASS
713.00†	713.00	0.00	0.00	679.00	713.00	6609.99	-61.82	-0.54	6610.28	66.00	101.38	PASS
813.00†	813.00	0.00	0.00	779.00	813.00	6609.99	-61.82	-0.54	6610.28	68.37	97.82	PASS
913.00†	913.00	0.00	0.00	879.00	913.00	6609.99	-61.82	-0.54	6610.28	70.75	94.50	PASS
1013.00†	1013.00	0.00	0.00	979.00	1013.00	6609.99	-61.82	-0.54	6610.28	73.12	91.39	PASS
1113.00†	1113.00	0.00	0.00	1079.00	1113.00	6609.99	-61.82	-0.54	6610.28	75.51	88.47	PASS
1213.00†	1213.00	0.00	0.00	1179.00	1213.00	6609.99	-61.82	-0.54	6610.28	77.89	85.74	PASS
1313.00†	1313.00	0.00	0.00	1279.00	1313.00	6609.99	-61.82	-0.54	6610.28	80.28	83.16	PASS
1413.00†	1413.00	0.00	0.00	1379.00	1413.00	6609.99	-61.82	-0.54	6610.28	82.68	80.73	PASS
1513.00†	1513.00	0.00	0.00	1479.00	1513.00	6609.99	-61.82	-0.54	6610.28	85.08	78.43	PASS
1600.00	1600.00	0.00	0.00	1566.00	1600.00	6609.99	-61.82	-0.54	6610.28	87.17	76.53	PASS
1613.00†	1613.00	-0.02	0.02	1579.00	1613.00	6609.99	-61.82	-137.68	6610.30	87.48	76.25	PASS
1713.00†	1712.97	-1.63	1.52	1678.97	1712.97	6609.99	-61.82	-137.67	6611.93	89.89	74.21	PASS
1813.00†	1812.80	-5.80	5.38	1778.80	1812.80	6609.99	-61.82	-137.64	6616.13	92.24	72.28	PASS
1913.00†	1912.38	-12.52	11.62	1878.38	1912.38	6609.99	-61.82	-137.60	6622.92	94.68	70.47	PASS
2013.00†	2011.57	-21.78	20.22	1977.57	2011.57	6609.99	-61.82	-137.55	6632.28	97.11	68.79	PASS
2113.00†	2110.26	-33.58	31.16	2076.26	2110.26	6609.99	-61.82	-137.48	6644.22	99.55	67.22	PASS
2129.27	2126.27	-35.74	33.16	2092.27	2126.27	6609.99	-61.82	-137.47	6646.41	99.94	66.97	PASS
2213.00†	2208.57	-47.01	43.63	2174.57	2208.57	6609.99	-61.82	-137.56	6657.84	101.95	65.75	PASS
2313.00†	2306.87	-60.48	56.12	2272.87	2306.87	6609.99	-61.82	-137.66	6671.51	104.36	64.36	PASS
2413.00†	2405.17	-73.94	68.62	2371.17	2405.17	6609.99	-61.82	-137.77	6685.20	106.79	63.02	PASS
2513.00†	2503.46	-87.41	81.11	2469.46	2503.46	6609.99	-61.82	-137.87	6698.92	109.22	61.73	PASS
2613.00†	2601.76	-100.87	93.61	2567.76	2601.76	6609.99	-61.82	-137.98	6712.66	111.66	60.50	PASS
2713.00†	2700.06	-114.34	106.10	2666.06	2700.06	6609.99	-61.82	-138.08	6726.42	114.10	59.31	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWB** Offset Wellpath: **SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 (1980'FSL & 1980'FWL, SEC.35, PA,8360) Well: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 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†	2798.36	-127.80	118.60	2764.36	2798.36	6609.99	-61.82	-138.19	6740.21	116.56	58.17	PASS
2913.00†	2896.66	-141.27	131.10	2862.66	2896.66	6609.99	-61.82	-138.29	6754.02	119.03	57.08	PASS
3013.00†	2994.95	-154.73	143.59	2960.95	2994.95	6609.99	-61.82	-138.39	6767.84	121.50	56.02	PASS
3113.00†	3093.25	-168.20	156.09	3059.25	3093.25	6609.99	-61.82	-138.49	6781.69	123.98	55.01	PASS
3213.00†	3191.55	-181.67	168.58	3157.55	3191.55	6609.99	-61.82	-138.60	6795.56	126.48	54.03	PASS
3313.00†	3289.85	-195.13	181.08	3255.85	3289.85	6609.99	-61.82	-138.70	6809.45	128.97	53.08	PASS
3413.00†	3388.15	-208.60	193.57	3354.15	3388.15	6609.99	-61.82	-138.80	6823.37	131.48	52.17	PASS
3513.00†	3486.45	-222.06	206.07	3452.45	3486.45	6609.99	-61.82	-138.90	6837.30	133.99	51.29	PASS
3613.00†	3584.74	-235.53	218.57	3550.74	3584.74	6609.99	-61.82	-139.00	6851.26	136.51	50.45	PASS
3713.00†	3683.04	-248.99	231.06	3649.04	3683.04	6609.99	-61.82	-139.10	6865.23	139.04	49.62	PASS
3813.00†	3781.34	-262.46	243.56	3747.34	3781.34	6609.99	-61.82	-139.20	6879.23	141.57	48.83	PASS
3913.00†	3879.64	-275.92	256.05	3845.64	3879.64	6609.99	-61.82	-139.30	6893.25	144.11	48.06	PASS
4013.00†	3977.94	-289.39	268.55	3943.94	3977.94	6609.99	-61.82	-139.40	6907.28	146.66	47.32	PASS
4113.00†	4076.24	-302.85	281.04	4042.24	4076.24	6609.99	-61.82	-139.49	6921.34	149.21	46.60	PASS
4213.00†	4174.53	-316.32	293.54	4140.53	4174.53	6609.99	-61.82	-139.59	6935.42	151.76	45.91	PASS
4313.00†	4272.83	-329.79	306.04	4238.83	4272.83	6609.99	-61.82	-139.69	6949.52	154.33	45.23	PASS
4413.00†	4371.13	-343.25	318.53	4337.13	4371.13	6609.99	-61.82	-139.79	6963.64	156.90	44.58	PASS
4513.00†	4469.43	-356.72	331.03	4435.43	4469.43	6609.99	-61.82	-139.88	6977.77	159.47	43.95	PASS
4613.00†	4567.73	-370.18	343.52	4533.73	4567.73	6609.99	-61.82	-139.98	6991.93	162.05	43.33	PASS
4713.00†	4666.02	-383.65	356.02	4632.02	4666.02	6609.99	-61.82	-140.07	7006.11	164.63	42.74	PASS
4813.00†	4764.32	-397.11	368.51	4730.32	4764.32	6609.99	-61.82	-140.17	7020.31	167.22	42.16	PASS
4913.00†	4862.62	-410.58	381.01	4828.62	4862.62	6609.99	-61.82	-140.27	7034.52	169.81	41.59	PASS
5013.00†	4960.92	-424.04	393.51	4926.92	4960.92	6609.99	-61.82	-140.36	7048.76	172.41	41.05	PASS
5113.00†	5059.22	-437.51	406.00	5025.22	5059.22	6609.99	-61.82	-140.46	7063.01	175.01	40.52	PASS
5213.00†	5157.52	-450.98	418.50	5123.52	5157.52	6609.99	-61.82	-140.55	7077.28	177.62	40.00	PASS
5313.00†	5255.81	-464.44	430.99	5221.81	5255.81	6609.99	-61.82	-140.64	7091.58	180.23	39.50	PASS
5413.00†	5354.11	-477.91	443.49	5320.11	5354.11	6609.99	-61.82	-140.74	7105.89	182.84	39.01	PASS
5513.00†	5452.41	-491.37	455.98	5418.41	5452.41	6609.99	-61.82	-140.83	7120.21	185.46	38.54	PASS
5613.00†	5550.71	-504.84	468.48	5516.71	5550.71	6609.99	-61.82	-140.92	7134.56	188.08	38.07	PASS
5713.00†	5649.01	-518.30	480.98	5615.01	5649.01	6609.99	-61.82	-141.01	7148.93	190.70	37.62	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWB** Offset Wellpath: **SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 (1980'FSL & 1980'FWL, SEC.35, PA,8360) Well: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 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†	5747.30	-531.77	493.47	5713.30	5747.30	6609.99	-61.82	-141.10	7163.31	193.33	37.18	PASS
5913.00†	5845.60	-545.23	505.97	5811.60	5845.60	6609.99	-61.82	-141.20	7177.72	195.96	36.76	PASS
6013.00†	5943.90	-558.70	518.46	5909.90	5943.90	6609.99	-61.82	-141.29	7192.14	198.59	36.34	PASS
6113.00†	6042.20	-572.16	530.96	6008.20	6042.20	6609.99	-61.82	-141.38	7206.58	201.23	35.94	PASS
6213.00†	6140.50	-585.63	543.45	6106.50	6140.50	6609.99	-61.82	-141.47	7221.03	203.87	35.54	PASS
6313.00†	6238.80	-599.10	555.95	6204.80	6238.80	6609.99	-61.82	-141.56	7235.51	206.51	35.15	PASS
6413.00†	6337.09	-612.56	568.45	6303.09	6337.09	6609.99	-61.82	-141.65	7250.00	209.16	34.78	PASS
6513.00†	6435.39	-626.03	580.94	6401.39	6435.39	6609.99	-61.82	-141.74	7264.51	211.80	34.41	PASS
6613.00†	6533.69	-639.49	593.44	6499.69	6533.69	6609.99	-61.82	-141.83	7279.04	214.45	34.05	PASS
6713.00†	6631.99	-652.96	605.93	6597.99	6631.99	6609.99	-61.82	-141.92	7293.58	217.10	33.70	PASS
6813.00†	6730.29	-666.42	618.43	6696.29	6730.29	6609.99	-61.82	-142.00	7308.14	219.76	33.36	PASS
6913.00†	6828.59	-679.89	630.92	6794.59	6828.59	6609.99	-61.82	-142.09	7322.72	222.41	33.03	PASS
7013.00†	6926.88	-693.35	643.42	6892.88	6926.88	6609.99	-61.82	-142.18	7337.32	225.07	32.70	PASS
7105.70	7018.00	-705.84	655.00	6984.00	7018.00	6609.99	-61.82	-142.26	7350.86	227.54	32.40	PASS
7113.00†	7025.19	-706.77	655.92	6991.19	7025.19	6609.99	-61.82	-139.44	7351.88	227.73	32.38	PASS
7213.00†	7124.20	-710.27	668.49	7090.20	7124.20	6609.99	-61.82	-73.31	7356.60	230.56	32.00	PASS
7313.00†	7222.32	-696.39	680.94	7188.32	7222.32	6609.99	-61.82	-35.31	7344.03	233.95	31.48	PASS
7413.00†	7316.56	-665.54	692.88	7282.56	7316.56	6609.99	-61.82	-24.30	7314.57	237.55	30.88	PASS
7513.00†	7404.05	-618.66	703.94	7370.05	7404.05	6609.99	-61.82	-20.15	7269.10	240.67	30.29	PASS
7613.00†	7482.14	-557.19	713.80	7448.14	7482.14	6609.99	-61.82	-18.72	7209.02	243.36	29.71	PASS
7713.00†	7548.46	-482.98	722.15	7514.46	7548.46	6609.99	-61.82	-19.09	7136.16	245.58	29.14	PASS
7813.00†	7600.98	-398.29	728.74	7566.98	7600.98	6609.99	-61.82	-21.48	7052.72	247.31	28.60	PASS
7913.00†	7638.12	-305.69	733.36	7604.12	7638.12	6609.99	-61.82	-27.83	6961.25	248.54	28.09	PASS
8013.00†	7658.74	-208.00	735.89	7624.74	7658.74	6609.99	-61.82	-47.40	6864.50	249.28	27.61	PASS
8083.15	7663.00	-138.03	736.36	7629.00	7663.00	6609.99	-61.82	-90.00	6795.06	249.51	27.31	PASS
8113.00†	7663.00	-108.18	736.33	7629.00	7663.00	6609.99	-61.82	-90.00	6765.41	249.57	27.18	PASS
8213.00†	7663.00	-8.18	736.23	7629.00	7663.00	6609.99	-61.82	-90.00	6666.11	249.74	26.76	PASS
8313.00†	7663.00	91.82	736.14	7629.00	7663.00	6609.99	-61.82	-90.00	6566.83	249.93	26.35	PASS
8413.00†	7663.00	191.82	736.04	7629.00	7663.00	6609.99	-61.82	-90.00	6467.57	250.13	25.93	PASS
8513.00†	7663.00	291.82	735.94	7629.00	7663.00	6609.99	-61.82	-90.00	6368.33	250.34	25.51	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWB** Offset Wellpath: **SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 (1980'FSL & 1980'FWL, SEC.35, PA,8360) Well: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 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†	7663.00	391.82	735.84	7629.00	7663.00	6609.99	-61.82	-90.00	6269.12	250.55	25.09	PASS
8713.00†	7663.00	491.82	735.75	7629.00	7663.00	6609.99	-61.82	-90.00	6169.94	250.78	24.67	PASS
8813.00†	7663.00	591.82	735.65	7629.00	7663.00	6609.99	-61.82	-90.00	6070.78	251.02	24.25	PASS
8913.00†	7663.00	691.82	735.55	7629.00	7663.00	6609.99	-61.82	-90.00	5971.64	251.27	23.83	PASS
9013.00†	7663.00	791.82	735.46	7629.00	7663.00	6609.99	-61.82	-90.00	5872.54	251.53	23.41	PASS
9113.00†	7663.00	891.82	735.36	7629.00	7663.00	6609.99	-61.82	-90.00	5773.47	251.81	22.99	PASS
9213.00†	7663.00	991.82	735.26	7629.00	7663.00	6609.99	-61.82	-90.00	5674.43	252.10	22.57	PASS
9313.00†	7663.00	1091.82	735.17	7629.00	7663.00	6609.99	-61.82	-90.00	5575.43	252.40	22.15	PASS
9413.00†	7663.00	1191.82	735.07	7629.00	7663.00	6609.99	-61.82	-90.00	5476.46	252.72	21.73	PASS
9513.00†	7663.00	1291.82	734.97	7629.00	7663.00	6609.99	-61.82	-90.00	5377.53	253.05	21.31	PASS
9613.00†	7663.00	1391.82	734.87	7629.00	7663.00	6609.99	-61.82	-90.00	5278.64	253.41	20.89	PASS
9713.00†	7663.00	1491.82	734.78	7629.00	7663.00	6609.99	-61.82	-90.00	5179.79	253.78	20.47	PASS
9813.00†	7663.00	1591.82	734.68	7629.00	7663.00	6609.99	-61.82	-90.00	5080.99	254.17	20.04	PASS
9913.00†	7663.00	1691.82	734.58	7629.00	7663.00	6609.99	-61.82	-90.00	4982.23	254.58	19.62	PASS
10013.00†	7663.00	1791.82	734.49	7629.00	7663.00	6609.99	-61.82	-90.00	4883.53	255.01	19.20	PASS
10113.00†	7663.00	1891.82	734.39	7629.00	7663.00	6609.99	-61.82	-90.00	4784.88	255.46	18.78	PASS
10213.00†	7663.00	1991.82	734.29	7629.00	7663.00	6609.99	-61.82	-90.00	4686.29	255.94	18.36	PASS
10313.00†	7663.00	2091.82	734.20	7629.00	7663.00	6609.99	-61.82	-90.00	4587.75	256.45	17.94	PASS
10413.00†	7663.00	2191.82	734.10	7629.00	7663.00	6609.99	-61.82	-90.00	4489.29	256.98	17.51	PASS
10513.00†	7663.00	2291.82	734.00	7629.00	7663.00	6609.99	-61.82	-90.00	4390.89	257.55	17.09	PASS
10613.00†	7663.00	2391.82	733.90	7629.00	7663.00	6609.99	-61.82	-90.00	4292.57	258.14	16.67	PASS
10713.00†	7663.00	2491.82	733.81	7629.00	7663.00	6609.99	-61.82	-90.00	4194.32	258.77	16.25	PASS
10813.00†	7663.00	2591.82	733.71	7629.00	7663.00	6609.99	-61.82	-90.00	4096.16	259.44	15.83	PASS
10913.00†	7663.00	2691.82	733.61	7629.00	7663.00	6609.99	-61.82	-90.00	3998.10	260.15	15.41	PASS
11013.00†	7663.00	2791.82	733.52	7629.00	7663.00	6609.99	-61.82	-90.00	3900.13	260.90	14.99	PASS
11113.00†	7663.00	2891.82	733.42	7629.00	7663.00	6609.99	-61.82	-90.00	3802.26	261.70	14.57	PASS
11213.00†	7663.00	2991.82	733.32	7629.00	7663.00	6609.99	-61.82	-90.00	3704.51	262.55	14.15	PASS
11313.00†	7663.00	3091.82	733.23	7629.00	7663.00	6609.99	-61.82	-90.00	3606.88	263.45	13.73	PASS
11413.00†	7663.00	3191.82	733.13	7629.00	7663.00	6609.99	-61.82	-90.00	3509.39	264.41	13.31	PASS
11513.00†	7663.00	3291.82	733.03	7629.00	7663.00	6609.99	-61.82	-90.00	3412.04	265.44	12.89	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWB** Offset Wellpath: **SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWP**

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 (1980'FSL & 1980'FWL, SEC.35, PA,8360) Well: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 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†	7663.00	3391.82	732.93	7629.00	7663.00	6609.99	-61.82	-90.00	3314.85	266.53	12.47	PASS
11713.00†	7663.00	3491.82	732.84	7629.00	7663.00	6609.99	-61.82	-90.00	3217.84	267.71	12.05	PASS
11813.00†	7663.00	3591.82	732.74	7629.00	7663.00	6609.99	-61.82	-90.00	3121.01	268.96	11.63	PASS
11913.00†	7663.00	3691.82	732.64	7629.00	7663.00	6609.99	-61.82	-90.00	3024.38	270.31	11.22	PASS
12013.00†	7663.00	3791.82	732.55	7629.00	7663.00	6609.99	-61.82	-90.00	2927.99	271.76	10.80	PASS
12113.00†	7663.00	3891.82	732.45	7629.00	7663.00	6609.99	-61.82	-90.00	2831.84	273.32	10.39	PASS
12213.00†	7663.00	3991.82	732.35	7629.00	7663.00	6609.99	-61.82	-90.00	2735.97	275.00	9.97	PASS
12313.00†	7663.00	4091.82	732.26	7629.00	7663.00	6609.99	-61.82	-90.00	2640.40	276.82	9.56	PASS
12413.00†	7663.00	4191.82	732.16	7629.00	7663.00	6609.99	-61.82	-90.00	2545.18	278.78	9.15	PASS
12513.00†	7663.00	4291.82	732.06	7629.00	7663.00	6609.99	-61.82	-90.00	2450.34	280.91	8.74	PASS
12613.00†	7663.00	4391.82	731.96	7629.00	7663.00	6609.99	-61.82	-90.00	2355.92	283.22	8.34	PASS
12713.00†	7663.00	4491.82	731.87	7629.00	7663.00	6609.99	-61.82	-90.00	2261.99	285.73	7.93	PASS
12813.00†	7663.00	4591.82	731.77	7629.00	7663.00	6609.99	-61.82	-90.00	2168.59	288.47	7.53	PASS
12913.00†	7663.00	4691.82	731.67	7629.00	7663.00	6609.99	-61.82	-90.00	2075.81	291.47	7.14	PASS
13013.00†	7663.00	4791.82	731.58	7629.00	7663.00	6609.99	-61.82	-90.00	1983.74	294.75	6.74	PASS
13113.00†	7663.00	4891.82	731.48	7629.00	7663.00	6609.99	-61.82	-90.00	1892.47	298.34	6.36	PASS
13213.00†	7663.00	4991.82	731.38	7629.00	7663.00	6609.99	-61.82	-90.00	1802.12	302.29	5.97	PASS
13313.00†	7663.00	5091.82	731.29	7629.00	7663.00	6609.99	-61.82	-90.00	1712.85	306.64	5.60	PASS
13413.00†	7663.00	5191.82	731.19	7629.00	7663.00	6609.99	-61.82	-90.00	1624.83	311.43	5.23	PASS
13513.00†	7663.00	5291.82	731.09	7629.00	7663.00	6609.99	-61.82	-90.00	1538.27	316.72	4.87	PASS
13613.00†	7663.00	5391.82	730.99	7629.00	7663.00	6609.99	-61.82	-90.00	1453.44	322.55	4.51	PASS
13713.00†	7663.00	5491.82	730.90	7629.00	7663.00	6609.99	-61.82	-90.00	1370.66	328.99	4.17	PASS
13813.00†	7663.00	5591.82	730.80	7629.00	7663.00	6609.99	-61.82	-90.00	1290.32	336.07	3.85	PASS
13913.00†	7663.00	5691.82	730.70	7629.00	7663.00	6609.99	-61.82	-90.00	1212.90	343.83	3.53	PASS
14013.00†	7663.00	5791.82	730.61	7629.00	7663.00	6609.99	-61.82	-90.00	1139.01	352.27	3.24	PASS
14113.00†	7663.00	5891.82	730.51	7629.00	7663.00	6609.99	-61.82	-90.00	1069.37	361.34	2.96	PASS
14213.00†	7663.00	5991.82	730.41	7629.00	7663.00	6609.99	-61.82	-90.00	1004.87	370.92	2.71	PASS
14313.00†	7663.00	6091.82	730.31	7629.00	7663.00	6609.99	-61.82	-90.00	946.56	380.76	2.49	PASS
14413.00†	7663.00	6191.82	730.22	7629.00	7663.00	6609.99	-61.82	-90.00	895.65	390.44	2.30	PASS
14513.00†	7663.00	6291.82	730.12	7629.00	7663.00	6609.99	-61.82	-90.00	853.46	399.40	2.14	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWB Offset Wellpath: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWP

Facility: SEC.35-T01S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 (1980'FSL & 1980'FWL, SEC.35, PA,8360) Well: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 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
14613.00†	7663.00	6391.82	730.02	7629.00	7663.00	6609.99	-61.82	-90.00	821.35	406.90	2.02	PASS
14713.00†	7663.00	6491.82	729.93	7629.00	7663.00	6609.99	-61.82	-90.00	800.51	412.17	1.94	PASS
14813.00†	7663.00	6591.82	729.83	7629.00	7663.00	6609.99	-61.82	-90.00	791.86	414.58	1.91	PASS
14832.08†	7663.00	6610.89	729.81	7629.23	7663.23	6609.99	-61.82	-90.02	791.63	414.68	1.91	PASS
14834.18†	7663.00	6613.00	729.81	7629.00	7663.00	6609.99	-61.82	-90.00	791.63	414.68	1.91	PASS
14913.00†	7663.00	6691.82	729.73	7629.00	7663.00	6609.99	-61.82	-90.00	795.77	413.80	1.92	PASS
15013.00†	7663.00	6791.82	729.64	7629.00	7663.00	6609.99	-61.82	-90.00	812.07	409.98	1.98	PASS
15113.00†	7663.00	6891.82	729.54	7629.00	7663.00	6609.99	-61.82	-90.00	840.04	403.63	2.08	PASS
15213.00†	7663.00	6991.82	729.44	7629.00	7663.00	6609.99	-61.82	-90.00	878.57	395.49	2.22	PASS
15313.00†	7663.00	7091.82	729.34	7629.00	7663.00	6609.99	-61.82	-90.00	926.33	386.32	2.40	PASS
15413.00†	7663.00	7191.82	729.25	7629.00	7663.00	6609.99	-61.82	-90.00	981.99	376.77	2.61	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWB Offset Wellpath: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWB Offset Wellpath: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8360.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8360>	SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWB Offset Wellpath: SLOT#01 EX CHAMPLIN 117 AMOCO G#3 AWP

MD Reference: **Rig on SLOT#01 EX CHAMPLIN 117 AMOCO G#3 (1980'FSL & 1980'FWL, SEC.35, PA,8360) (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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-2CDH PWB** Offset Wellpath: **ACKARD NORTH 2-35-2CDH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#05 ACKARD NORTH 2-35-2CDH (600'FSL & 1995'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-2CDH** **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	-0.18	-59.99	-90.17	59.99	1.40	98.64	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.18	-59.99	-90.17	59.99	1.72	64.57	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.18	-59.99	-90.17	59.99	2.28	39.94	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.18	-59.99	-90.17	59.99	2.89	28.41	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.18	-59.99	-90.17	59.99	3.50	21.94	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.18	-59.99	-90.17	59.99	4.12	17.85	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.18	-59.99	-90.17	59.99	4.74	15.03	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.18	-59.99	-90.17	59.99	5.36	12.97	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.18	-59.99	-90.17	59.99	5.99	11.41	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	-0.18	-59.99	-90.17	59.99	6.61	10.18	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	-0.18	-59.99	-90.17	59.99	7.24	9.19	PASS
1113.00†	1113.00	0.00	0.00	1113.00	1113.00	-0.18	-59.99	-90.17	59.99	7.87	8.38	PASS
1213.00†	1213.00	0.00	0.00	1212.90	1212.90	-0.21	-60.00	-90.20	60.00	8.49	7.70	PASS
1313.00†	1313.00	0.00	0.00	1312.06	1312.04	-2.22	-60.80	-92.09	60.85	9.13	7.21	PASS
1413.00†	1413.00	0.00	0.00	1410.96	1410.77	-7.39	-62.87	-96.71	63.34	9.84	6.92	PASS
1513.00†	1513.00	0.00	0.00	1509.36	1508.76	-15.68	-66.18	-103.33	68.15	10.62	6.86	PASS
1600.00	1600.00	0.00	0.00	1594.73	1593.49	-25.32	-70.05	-109.88	74.77	11.30	7.04	PASS
1613.00†	1613.00	-0.02	0.02	1607.62	1606.27	-26.88	-70.67	112.03	75.92	11.40	7.09	PASS
1713.00†	1712.97	-1.63	1.52	1706.86	1704.67	-38.89	-75.47	106.82	85.93	12.11	7.53	PASS
1813.00†	1812.80	-5.80	5.38	1806.16	1803.12	-50.90	-80.28	104.64	97.30	12.70	8.06	PASS
1913.00†	1912.38	-12.52	11.62	1905.39	1901.51	-62.91	-85.08	104.65	109.59	13.39	8.59	PASS
2013.00†	2011.57	-21.78	20.22	2004.45	1999.71	-74.89	-89.88	106.17	122.81	14.11	9.11	PASS
2113.00†	2110.26	-33.58	31.16	2103.19	2097.62	-86.84	-94.66	108.73	137.21	14.90	9.62	PASS
2129.27	2126.27	-35.74	33.16	2119.22	2113.51	-88.78	-95.44	109.21	139.69	15.03	9.70	PASS
2213.00†	2208.57	-47.01	43.63	2201.68	2195.27	-98.76	-99.43	111.77	152.70	15.73	10.12	PASS
2313.00†	2306.87	-60.48	56.12	2300.17	2292.91	-110.67	-104.20	114.30	168.57	16.58	10.58	PASS
2413.00†	2405.17	-73.94	68.62	2398.65	2390.56	-122.59	-108.96	116.39	184.70	17.46	10.99	PASS
2513.00†	2503.46	-87.41	81.11	2497.14	2488.20	-134.50	-113.73	118.15	201.03	18.35	11.35	PASS
2613.00†	2601.76	-100.87	93.61	2595.62	2585.85	-146.42	-118.50	119.64	217.52	19.26	11.68	PASS
2713.00†	2700.06	-114.34	106.10	2694.11	2683.49	-158.33	-123.27	120.92	234.14	20.19	11.98	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-2CDH PWB** Offset Wellpath: **ACKARD NORTH 2-35-2CDH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#05 ACKARD NORTH 2-35-2CDH (600'FSL & 1995'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-2CDH** **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†	2798.36	-127.80	118.60	2792.59	2781.14	-170.25	-128.03	122.03	250.85	21.12	12.26	PASS
2913.00†	2896.66	-141.27	131.10	2891.07	2878.78	-182.16	-132.80	123.00	267.64	22.06	12.50	PASS
3013.00†	2994.95	-154.73	143.59	2989.56	2976.43	-194.08	-137.57	123.86	284.50	23.00	12.73	PASS
3113.00†	3093.25	-168.20	156.09	3088.04	3074.07	-205.99	-142.34	124.62	301.42	23.96	12.94	PASS
3213.00†	3191.55	-181.67	168.58	3186.53	3171.72	-217.91	-147.10	125.30	318.38	24.91	13.13	PASS
3313.00†	3289.85	-195.13	181.08	3285.01	3269.36	-229.82	-151.87	125.92	335.38	25.87	13.30	PASS
3413.00†	3388.15	-208.60	193.57	3383.49	3367.00	-241.74	-156.64	126.47	352.41	26.84	13.46	PASS
3513.00†	3486.45	-222.06	206.07	3481.98	3464.65	-253.65	-161.41	126.97	369.48	27.80	13.61	PASS
3613.00†	3584.74	-235.53	218.57	3580.46	3562.29	-265.57	-166.17	127.43	386.56	28.78	13.75	PASS
3713.00†	3683.04	-248.99	231.06	3678.95	3659.94	-277.48	-170.94	127.85	403.67	29.75	13.88	PASS
3813.00†	3781.34	-262.46	243.56	3777.43	3757.58	-289.40	-175.71	128.23	420.80	30.73	14.00	PASS
3913.00†	3879.64	-275.92	256.05	3875.92	3855.23	-301.31	-180.48	128.59	437.95	31.70	14.11	PASS
4013.00†	3977.94	-289.39	268.55	3974.40	3952.87	-313.23	-185.24	128.92	455.11	32.68	14.21	PASS
4113.00†	4076.24	-302.85	281.04	4072.88	4050.52	-325.14	-190.01	129.22	472.28	33.67	14.31	PASS
4213.00†	4174.53	-316.32	293.54	4171.37	4148.16	-337.06	-194.78	129.50	489.47	34.65	14.40	PASS
4313.00†	4272.83	-329.79	306.04	4269.85	4245.80	-348.97	-199.55	129.77	506.67	35.63	14.49	PASS
4413.00†	4371.13	-343.25	318.53	4368.34	4343.45	-360.89	-204.32	130.01	523.88	36.62	14.57	PASS
4513.00†	4469.43	-356.72	331.03	4466.82	4441.09	-372.81	-209.08	130.24	541.09	37.61	14.64	PASS
4613.00†	4567.73	-370.18	343.52	4565.31	4538.74	-384.72	-213.85	130.46	558.32	38.60	14.72	PASS
4713.00†	4666.02	-383.65	356.02	4663.79	4636.38	-396.64	-218.62	130.66	575.55	39.59	14.79	PASS
4813.00†	4764.32	-397.11	368.51	4762.27	4734.03	-408.55	-223.39	130.85	592.78	40.58	14.85	PASS
4913.00†	4862.62	-410.58	381.01	4860.76	4831.67	-420.47	-228.15	131.04	610.03	41.57	14.91	PASS
5013.00†	4960.92	-424.04	393.51	4959.24	4929.32	-432.38	-232.92	131.21	627.28	42.56	14.97	PASS
5113.00†	5059.22	-437.51	406.00	5057.73	5026.96	-444.30	-237.69	131.37	644.53	43.56	15.03	PASS
5213.00†	5157.52	-450.98	418.50	5156.21	5124.60	-456.21	-242.46	131.52	661.79	44.55	15.08	PASS
5313.00†	5255.81	-464.44	430.99	5254.70	5222.25	-468.13	-247.22	131.67	679.06	45.55	15.13	PASS
5413.00†	5354.11	-477.91	443.49	5353.18	5319.89	-480.04	-251.99	131.81	696.32	46.54	15.18	PASS
5513.00†	5452.41	-491.37	455.98	5451.66	5417.54	-491.96	-256.76	131.94	713.60	47.54	15.22	PASS
5613.00†	5550.71	-504.84	468.48	5550.15	5515.18	-503.87	-261.53	132.06	730.87	48.54	15.27	PASS
5713.00†	5649.01	-518.30	480.98	5648.63	5612.83	-515.79	-266.29	132.18	748.15	49.53	15.31	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-2CDH PWB Offset Wellpath: ACKARD NORTH 2-35-2CDH PWP (REV. A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#05 ACKARD NORTH 2-35-2CDH (600'FSL & 1995'FWL, SEC.02) Well: ACKARD NORTH 2-35-2CDH 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
5813.00†	5747.30	-531.77	493.47	5747.12	5710.47	-527.70	-271.06	132.30	765.43	50.53	15.35	PASS
5913.00†	5845.60	-545.23	505.97	5845.60	5808.12	-539.62	-275.83	132.41	782.71	51.53	15.39	PASS
6013.00†	5943.90	-558.70	518.46	5944.09	5905.76	-551.53	-280.60	132.51	800.00	52.53	15.42	PASS
6113.00†	6042.20	-572.16	530.96	6042.57	6003.41	-563.45	-285.36	132.61	817.29	53.53	15.46	PASS
6213.00†	6140.50	-585.63	543.45	6141.05	6101.05	-575.36	-290.13	132.71	834.58	54.53	15.49	PASS
6313.00†	6238.80	-599.10	555.95	6239.54	6198.69	-587.28	-294.90	132.80	851.88	55.53	15.53	PASS
6413.00†	6337.09	-612.56	568.45	6338.02	6296.34	-599.19	-299.67	132.89	869.17	56.53	15.56	PASS
6513.00†	6435.39	-626.03	580.94	6436.51	6393.98	-611.11	-304.43	132.97	886.47	57.53	15.59	PASS
6613.00†	6533.69	-639.49	593.44	6534.99	6491.63	-623.02	-309.20	133.05	903.77	58.53	15.62	PASS
6713.00†	6631.99	-652.96	605.93	6633.47	6589.27	-634.94	-313.97	133.13	921.07	59.54	15.64	PASS
6813.00†	6730.29	-666.42	618.43	6731.96	6686.92	-646.85	-318.74	133.21	938.37	60.54	15.67	PASS
6913.00†	6828.59	-679.89	630.92	6830.44	6784.56	-658.77	-323.50	133.28	955.68	61.54	15.70	PASS
7013.00†	6926.88	-693.35	643.42	6928.93	6882.21	-670.68	-328.27	133.35	972.98	62.54	15.72	PASS
7105.70	7018.00	-705.84	655.00	7020.22	6972.72	-681.73	-332.69	133.41	989.03	63.47	15.75	PASS
7113.00†	7025.19	-706.77	655.92	7027.41	6979.85	-682.60	-333.04	136.37	990.29	63.55	15.75	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ACKARD NORTH 2-35-2CDH PWB Offset Wellpath: ACKARD NORTH 2-35-2CDH 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: ACKARD NORTH 2-35-2CDH PWB Offset Wellpath: ACKARD NORTH 2-35-2CDH 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	1797.01	-0.11	-36.57	-15.34	-42.66
8.5in Open Hole	1800.00	17937.78	16137.78	1797.01	7843.00	-15.34	-42.66	2918.80	-140.91

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: ACKARD NORTH 2-35-2CDH PWP (REV. A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	19125.24	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-2CDH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: ACKARD NORTH 2-35-2CDH PWB Offset Wellpath: ACKARD NORTH 2-35-2CDH 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-4NCH PWB** Offset Wellpath: **ACKARD NORTH 2-35-4NCH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#13 ACKARD NORTH 2-35-4NCH (600'FSL & 2115'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-4NCH** **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	60.01	89.86	60.01	1.40	98.69	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	0.15	60.01	89.86	60.01	1.72	64.68	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	0.15	60.01	89.86	60.01	2.28	40.02	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	0.15	60.01	89.86	60.01	2.88	28.46	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	0.15	60.01	89.86	60.01	3.50	21.98	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	0.15	60.01	89.86	60.01	4.12	17.87	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	0.15	60.01	89.86	60.01	4.74	15.05	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	0.15	60.01	89.86	60.01	5.36	12.99	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	0.15	60.01	89.86	60.01	5.99	11.42	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	0.15	60.01	89.86	60.01	6.61	10.19	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	0.15	60.01	89.86	60.01	7.24	9.20	PASS
1113.00†	1113.00	0.00	0.00	1113.00	1113.00	0.15	60.01	89.86	60.01	7.86	8.38	PASS
1213.00†	1213.00	0.00	0.00	1212.75	1212.75	0.14	60.04	89.87	60.04	8.49	7.71	PASS
1313.00†	1313.00	0.00	0.00	1310.80	1310.77	-0.67	61.99	90.62	62.04	9.19	7.30	PASS
1413.00†	1413.00	0.00	0.00	1408.59	1408.41	-2.76	67.03	92.35	67.24	10.09	7.16	PASS
1513.00†	1513.00	0.00	0.00	1505.89	1505.31	-6.09	75.09	94.64	75.73	10.96	7.38	PASS
1600.00	1600.00	0.00	0.00	1589.98	1588.78	-9.99	84.50	96.74	85.83	11.68	7.82	PASS
1613.00†	1613.00	-0.02	0.02	1602.50	1601.18	-10.65	86.10	-40.08	87.53	11.79	7.90	PASS
1713.00†	1712.97	-1.63	1.52	1698.50	1695.98	-16.39	99.99	-38.40	101.01	12.63	8.48	PASS
1813.00†	1812.80	-5.80	5.38	1794.00	1789.75	-23.31	116.71	-37.74	115.03	13.52	8.95	PASS
1913.00†	1912.38	-12.52	11.62	1889.00	1882.38	-31.38	136.21	-37.78	129.53	14.34	9.45	PASS
2013.00†	2011.57	-21.78	20.22	1983.47	1973.74	-40.56	158.39	-38.30	144.49	15.20	9.92	PASS
2113.00†	2110.26	-33.58	31.16	2077.40	2063.75	-50.82	183.20	-39.15	159.93	16.05	10.38	PASS
2129.27	2126.27	-35.74	33.16	2092.64	2078.26	-52.59	187.48	-39.31	162.49	16.18	10.46	PASS
2213.00†	2208.57	-47.01	43.63	2172.10	2153.59	-62.27	210.86	-40.17	176.70	16.79	10.94	PASS
2313.00†	2306.87	-60.48	56.12	2270.50	2246.67	-74.47	240.34	-41.02	194.31	17.50	11.53	PASS
2413.00†	2405.17	-73.94	68.62	2368.90	2339.75	-86.67	269.83	-41.72	211.96	18.26	12.04	PASS
2513.00†	2503.46	-87.41	81.11	2467.30	2432.83	-98.87	299.32	-42.31	229.64	19.07	12.47	PASS
2613.00†	2601.76	-100.87	93.61	2565.70	2525.91	-111.07	328.81	-42.82	247.34	19.92	12.84	PASS
2713.00†	2700.06	-114.34	106.10	2664.10	2618.99	-123.27	358.30	-43.27	265.05	20.80	13.16	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION			
Operator	PETROSHARE	Slot	SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)
Area	COLORADO	Well	ACKARD NORTH 2-35-3NCH
Field	ADAMS COUNTY (NAD83/ GRID NORTH)	Wellbore	ACKARD NORTH 2-35-3NCH PWB
Facility	SEC.02-T03S-R66W		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-4NCH PWB** Offset Wellpath: **ACKARD NORTH 2-35-4NCH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#13 ACKARD NORTH 2-35-4NCH (600'FSL & 2115'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-4NCH** **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†	2798.36	-127.80	118.60	2762.50	2712.08	-135.47	387.78	-43.65	282.78	21.71	13.43	PASS
2913.00†	2896.66	-141.27	131.10	2860.90	2805.16	-147.67	417.27	-43.99	300.52	22.65	13.66	PASS
3013.00†	2994.95	-154.73	143.59	2959.30	2898.24	-159.87	446.76	-44.30	318.27	23.61	13.87	PASS
3113.00†	3093.25	-168.20	156.09	3057.69	2991.32	-172.07	476.25	-44.57	336.02	24.59	14.04	PASS
3213.00†	3191.55	-181.67	168.58	3156.09	3084.40	-184.27	505.74	-44.81	353.78	25.58	14.19	PASS
3313.00†	3289.85	-195.13	181.08	3254.49	3177.48	-196.48	535.22	-45.03	371.55	26.60	14.32	PASS
3413.00†	3388.15	-208.60	193.57	3352.89	3270.56	-208.68	564.71	-45.23	389.32	27.62	14.44	PASS
3513.00†	3486.45	-222.06	206.07	3451.29	3363.64	-220.88	594.20	-45.41	407.10	28.66	14.54	PASS
3613.00†	3584.74	-235.53	218.57	3549.69	3456.72	-233.08	623.69	-45.58	424.88	29.71	14.63	PASS
3713.00†	3683.04	-248.99	231.06	3648.09	3549.80	-245.28	653.18	-45.73	442.66	30.77	14.70	PASS
3813.00†	3781.34	-262.46	243.56	3746.49	3642.88	-257.48	682.67	-45.88	460.45	31.83	14.77	PASS
3913.00†	3879.64	-275.92	256.05	3844.89	3735.96	-269.68	712.15	-46.01	478.24	32.91	14.83	PASS
4013.00†	3977.94	-289.39	268.55	3943.29	3829.04	-281.88	741.64	-46.13	496.03	33.99	14.88	PASS
4113.00†	4076.24	-302.85	281.04	4041.69	3922.12	-294.08	771.13	-46.24	513.82	35.08	14.93	PASS
4213.00†	4174.53	-316.32	293.54	4140.09	4015.21	-306.28	800.62	-46.35	531.62	36.17	14.97	PASS
4313.00†	4272.83	-329.79	306.04	4238.49	4108.29	-318.48	830.11	-46.45	549.41	37.27	15.01	PASS
4413.00†	4371.13	-343.25	318.53	4336.89	4201.37	-330.69	859.59	-46.54	567.21	38.37	15.04	PASS
4513.00†	4469.43	-356.72	331.03	4435.29	4294.45	-342.89	889.08	-46.63	585.01	39.48	15.07	PASS
4613.00†	4567.73	-370.18	343.52	4533.69	4387.53	-355.09	918.57	-46.71	602.81	40.59	15.10	PASS
4713.00†	4666.02	-383.65	356.02	4632.08	4480.61	-367.29	948.06	-46.79	620.61	41.71	15.12	PASS
4813.00†	4764.32	-397.11	368.51	4730.48	4573.69	-379.49	977.55	-46.86	638.41	42.83	15.14	PASS
4913.00†	4862.62	-410.58	381.01	4828.88	4666.77	-391.69	1007.04	-46.93	656.22	43.95	15.16	PASS
5013.00†	4960.92	-424.04	393.51	4927.28	4759.85	-403.89	1036.52	-47.00	674.02	45.08	15.17	PASS
5113.00†	5059.22	-437.51	406.00	5025.68	4852.93	-416.09	1066.01	-47.06	691.83	46.21	15.19	PASS
5213.00†	5157.52	-450.98	418.50	5124.08	4946.01	-428.29	1095.50	-47.12	709.63	47.34	15.20	PASS
5313.00†	5255.81	-464.44	430.99	5222.48	5039.09	-440.49	1124.99	-47.17	727.44	48.47	15.21	PASS
5413.00†	5354.11	-477.91	443.49	5320.88	5132.17	-452.70	1154.48	-47.23	745.25	49.61	15.22	PASS
5513.00†	5452.41	-491.37	455.98	5419.28	5225.25	-464.90	1183.96	-47.28	763.06	50.75	15.23	PASS
5613.00†	5550.71	-504.84	468.48	5517.68	5318.34	-477.10	1213.45	-47.33	780.87	51.89	15.24	PASS
5713.00†	5649.01	-518.30	480.98	5616.08	5411.42	-489.30	1242.94	-47.37	798.68	53.03	15.25	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-4NCH PWB Offset Wellpath: ACKARD NORTH 2-35-4NCH PWP (REV. A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#13 ACKARD NORTH 2-35-4NCH (600'FSL & 2115'FWL, SEC.02) Well: ACKARD NORTH 2-35-4NCH 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†	5747.30	-531.77	493.47	5714.48	5504.50	-501.50	1272.43	-47.42	816.48	54.17	15.26	PASS
5913.00†	5845.60	-545.23	505.97	5812.88	5597.58	-513.70	1301.92	-47.46	834.29	55.32	15.26	PASS
6013.00†	5943.90	-558.70	518.46	5911.28	5690.66	-525.90	1331.41	-47.50	852.11	56.47	15.27	PASS
6113.00†	6042.20	-572.16	530.96	6009.68	5783.74	-538.10	1360.89	-47.54	869.92	57.61	15.27	PASS
6213.00†	6140.50	-585.63	543.45	6108.08	5876.82	-550.30	1390.38	-47.58	887.73	58.76	15.28	PASS
6313.00†	6238.80	-599.10	555.95	6206.47	5969.90	-562.50	1419.87	-47.61	905.54	59.92	15.28	PASS
6413.00†	6337.09	-612.56	568.45	6304.87	6062.98	-574.70	1449.36	-47.65	923.35	61.07	15.29	PASS
6513.00†	6435.39	-626.03	580.94	6403.27	6156.06	-586.91	1478.85	-47.68	941.16	62.22	15.29	PASS
6613.00†	6533.69	-639.49	593.44	6501.67	6249.14	-599.11	1508.33	-47.71	958.98	63.37	15.29	PASS
6713.00†	6631.99	-652.96	605.93	6600.07	6342.22	-611.31	1537.82	-47.75	976.79	64.53	15.29	PASS
6813.00†	6730.29	-666.42	618.43	6698.47	6435.30	-623.51	1567.31	-47.78	994.60	65.69	15.30	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ACKARD NORTH 2-35-4NCH PWB Offset Wellpath: ACKARD NORTH 2-35-4NCH 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: ACKARD NORTH 2-35-4NCH PWB Offset Wellpath: ACKARD NORTH 2-35-4NCH 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	0.09	36.58	-7.21	54.22
8.5in Open Hole	1800.00	18043.25	16243.25	1795.62	7658.00	-7.21	54.22	2924.74	611.01

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: ACKARD NORTH 2-35-4NCH PWP (REV. A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	18043.28	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-4NCH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: ACKARD NORTH 2-35-4NCH PWB Offset Wellpath: ACKARD NORTH 2-35-4NCH 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

Facility: SEC.02-T02S-R66W Slot: SLOT#01 EX MARTIN #1 (600'FNL & 2040'FWL, SEC.02,8400, SI) Well: MARTIN #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	27.00	13.00	4042.18	-7.14	-0.10	4042.19	50.64	81.09	PASS
113.00†	113.00	0.00	0.00	127.00	113.00	4042.18	-7.14	-0.10	4042.19	52.98	77.45	PASS
213.00†	213.00	0.00	0.00	227.00	213.00	4042.18	-7.14	-0.10	4042.19	55.33	74.12	PASS
313.00†	313.00	0.00	0.00	327.00	313.00	4042.18	-7.14	-0.10	4042.19	57.68	71.05	PASS
413.00†	413.00	0.00	0.00	427.00	413.00	4042.18	-7.14	-0.10	4042.19	60.04	68.22	PASS
513.00†	513.00	0.00	0.00	527.00	513.00	4042.18	-7.14	-0.10	4042.19	62.40	65.61	PASS
613.00†	613.00	0.00	0.00	627.00	613.00	4042.18	-7.14	-0.10	4042.19	64.76	63.18	PASS
713.00†	713.00	0.00	0.00	727.00	713.00	4042.18	-7.14	-0.10	4042.19	67.13	60.93	PASS
813.00†	813.00	0.00	0.00	827.00	813.00	4042.18	-7.14	-0.10	4042.19	69.50	58.83	PASS
913.00†	913.00	0.00	0.00	927.00	913.00	4042.18	-7.14	-0.10	4042.19	71.88	56.86	PASS
1013.00†	1013.00	0.00	0.00	1027.00	1013.00	4042.18	-7.14	-0.10	4042.19	74.26	55.02	PASS
1113.00†	1113.00	0.00	0.00	1127.00	1113.00	4042.18	-7.14	-0.10	4042.19	76.64	53.29	PASS
1213.00†	1213.00	0.00	0.00	1227.00	1213.00	4042.18	-7.14	-0.10	4042.19	79.03	51.66	PASS
1313.00†	1313.00	0.00	0.00	1327.00	1313.00	4042.18	-7.14	-0.10	4042.19	81.42	50.13	PASS
1413.00†	1413.00	0.00	0.00	1427.00	1413.00	4042.18	-7.14	-0.10	4042.19	83.82	48.68	PASS
1513.00†	1513.00	0.00	0.00	1527.00	1513.00	4042.18	-7.14	-0.10	4042.19	86.22	47.31	PASS
1600.00	1600.00	0.00	0.00	1614.00	1600.00	4042.18	-7.14	-0.10	4042.19	88.31	46.18	PASS
1613.00†	1613.00	-0.02	0.02	1627.00	1613.00	4042.18	-7.14	-137.24	4042.21	88.62	46.02	PASS
1713.00†	1712.97	-1.63	1.52	1726.97	1712.97	4042.18	-7.14	-137.24	4043.82	91.04	44.81	PASS
1813.00†	1812.80	-5.80	5.38	1826.80	1812.80	4042.18	-7.14	-137.24	4048.00	93.38	43.67	PASS
1913.00†	1912.38	-12.52	11.62	1926.38	1912.38	4042.18	-7.14	-137.23	4054.75	95.82	42.62	PASS
2013.00†	2011.57	-21.78	20.22	2025.57	2011.57	4042.18	-7.14	-137.23	4064.06	98.26	41.65	PASS
2113.00†	2110.26	-33.58	31.16	2124.26	2110.26	4042.18	-7.14	-137.22	4075.94	100.70	40.76	PASS
2129.27	2126.27	-35.74	33.16	2140.27	2126.27	4042.18	-7.14	-137.22	4078.12	101.09	40.62	PASS
2213.00†	2208.57	-47.01	43.63	2222.57	2208.57	4042.18	-7.14	-137.36	4089.51	103.10	39.93	PASS
2313.00†	2306.87	-60.48	56.12	2320.87	2306.87	4042.18	-7.14	-137.53	4103.15	105.52	39.14	PASS
2413.00†	2405.17	-73.94	68.62	2419.17	2405.17	4042.18	-7.14	-137.71	4116.82	107.94	38.39	PASS
2513.00†	2503.46	-87.41	81.11	2517.46	2503.46	4042.18	-7.14	-137.88	4130.53	110.37	37.66	PASS
2613.00†	2601.76	-100.87	93.61	2615.76	2601.76	4042.18	-7.14	-138.04	4144.28	112.81	36.96	PASS
2713.00†	2700.06	-114.34	106.10	2714.06	2700.06	4042.18	-7.14	-138.21	4158.06	115.26	36.29	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

Facility: SEC.02-T02S-R66W Slot: SLOT#01 EX MARTIN #1 (600'FNL & 2040'FWL, SEC.02,8400, SI) Well: MARTIN #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†	2798.36	-127.80	118.60	2812.36	2798.36	4042.18	-7.14	-138.38	4171.88	117.72	35.65	PASS
2913.00†	2896.66	-141.27	131.10	2910.66	2896.66	4042.18	-7.14	-138.54	4185.73	120.19	35.03	PASS
3013.00†	2994.95	-154.73	143.59	3008.95	2994.95	4042.18	-7.14	-138.71	4199.62	122.66	34.43	PASS
3113.00†	3093.25	-168.20	156.09	3107.25	3093.25	4042.18	-7.14	-138.87	4213.54	125.14	33.86	PASS
3213.00†	3191.55	-181.67	168.58	3205.55	3191.55	4042.18	-7.14	-139.04	4227.50	127.63	33.30	PASS
3313.00†	3289.85	-195.13	181.08	3303.85	3289.85	4042.18	-7.14	-139.20	4241.49	130.13	32.77	PASS
3413.00†	3388.15	-208.60	193.57	3402.15	3388.15	4042.18	-7.14	-139.36	4255.51	132.63	32.25	PASS
3513.00†	3486.45	-222.06	206.07	3500.45	3486.45	4042.18	-7.14	-139.52	4269.57	135.15	31.75	PASS
3613.00†	3584.74	-235.53	218.57	3598.74	3584.74	4042.18	-7.14	-139.68	4283.66	137.66	31.27	PASS
3713.00†	3683.04	-248.99	231.06	3697.04	3683.04	4042.18	-7.14	-139.83	4297.78	140.19	30.81	PASS
3813.00†	3781.34	-262.46	243.56	3795.34	3781.34	4042.18	-7.14	-139.99	4311.93	142.72	30.36	PASS
3913.00†	3879.64	-275.92	256.05	3893.64	3879.64	4042.18	-7.14	-140.14	4326.12	145.25	29.92	PASS
4013.00†	3977.94	-289.39	268.55	3991.94	3977.94	4042.18	-7.14	-140.30	4340.34	147.80	29.50	PASS
4113.00†	4076.24	-302.85	281.04	4090.24	4076.24	4042.18	-7.14	-140.45	4354.58	150.34	29.10	PASS
4213.00†	4174.53	-316.32	293.54	4188.53	4174.53	4042.18	-7.14	-140.60	4368.86	152.90	28.70	PASS
4313.00†	4272.83	-329.79	306.04	4286.83	4272.83	4042.18	-7.14	-140.76	4383.17	155.45	28.32	PASS
4413.00†	4371.13	-343.25	318.53	4385.13	4371.13	4042.18	-7.14	-140.91	4397.51	158.02	27.95	PASS
4513.00†	4469.43	-356.72	331.03	4483.43	4469.43	4042.18	-7.14	-141.06	4411.88	160.59	27.59	PASS
4613.00†	4567.73	-370.18	343.52	4581.73	4567.73	4042.18	-7.14	-141.20	4426.28	163.16	27.24	PASS
4713.00†	4666.02	-383.65	356.02	4680.02	4666.02	4042.18	-7.14	-141.35	4440.70	165.73	26.90	PASS
4813.00†	4764.32	-397.11	368.51	4778.32	4764.32	4042.18	-7.14	-141.50	4455.16	168.32	26.58	PASS
4913.00†	4862.62	-410.58	381.01	4876.62	4862.62	4042.18	-7.14	-141.64	4469.65	170.90	26.26	PASS
5013.00†	4960.92	-424.04	393.51	4974.92	4960.92	4042.18	-7.14	-141.79	4484.16	173.49	25.95	PASS
5113.00†	5059.22	-437.51	406.00	5073.22	5059.22	4042.18	-7.14	-141.93	4498.70	176.08	25.65	PASS
5213.00†	5157.52	-450.98	418.50	5171.52	5157.52	4042.18	-7.14	-142.07	4513.27	178.68	25.36	PASS
5313.00†	5255.81	-464.44	430.99	5269.81	5255.81	4042.18	-7.14	-142.22	4527.87	181.28	25.07	PASS
5413.00†	5354.11	-477.91	443.49	5368.11	5354.11	4042.18	-7.14	-142.36	4542.49	183.88	24.79	PASS
5513.00†	5452.41	-491.37	455.98	5466.41	5452.41	4042.18	-7.14	-142.50	4557.15	186.49	24.53	PASS
5613.00†	5550.71	-504.84	468.48	5564.71	5550.71	4042.18	-7.14	-142.64	4571.83	189.10	24.26	PASS
5713.00†	5649.01	-518.30	480.98	5663.01	5649.01	4042.18	-7.14	-142.78	4586.53	191.71	24.01	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

Facility: SEC.02-T02S-R66W Slot: SLOT#01 EX MARTIN #1 (600'FNL & 2040'FWL, SEC.02,8400, SI) Well: MARTIN #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†	5747.30	-531.77	493.47	5761.30	5747.30	4042.18	-7.14	-142.91	4601.26	194.33	23.76	PASS
5913.00†	5845.60	-545.23	505.97	5859.60	5845.60	4042.18	-7.14	-143.05	4616.02	196.95	23.52	PASS
6013.00†	5943.90	-558.70	518.46	5957.90	5943.90	4042.18	-7.14	-143.19	4630.81	199.57	23.28	PASS
6113.00†	6042.20	-572.16	530.96	6056.20	6042.20	4042.18	-7.14	-143.32	4645.62	202.19	23.05	PASS
6213.00†	6140.50	-585.63	543.45	6154.50	6140.50	4042.18	-7.14	-143.46	4660.45	204.82	22.83	PASS
6313.00†	6238.80	-599.10	555.95	6252.80	6238.80	4042.18	-7.14	-143.59	4675.31	207.45	22.61	PASS
6413.00†	6337.09	-612.56	568.45	6351.09	6337.09	4042.18	-7.14	-143.72	4690.19	210.08	22.40	PASS
6513.00†	6435.39	-626.03	580.94	6449.39	6435.39	4042.18	-7.14	-143.85	4705.10	212.71	22.19	PASS
6613.00†	6533.69	-639.49	593.44	6547.69	6533.69	4042.18	-7.14	-143.98	4720.04	215.34	21.99	PASS
6713.00†	6631.99	-652.96	605.93	6645.99	6631.99	4042.18	-7.14	-144.11	4735.00	217.98	21.79	PASS
6813.00†	6730.29	-666.42	618.43	6744.29	6730.29	4042.18	-7.14	-144.24	4749.98	220.62	21.60	PASS
6913.00†	6828.59	-679.89	630.92	6842.59	6828.59	4042.18	-7.14	-144.37	4764.98	223.26	21.41	PASS
7013.00†	6926.88	-693.35	643.42	6940.88	6926.88	4042.18	-7.14	-144.50	4780.01	225.90	21.22	PASS
7105.70	7018.00	-705.84	655.00	7032.00	7018.00	4042.18	-7.14	-144.62	4793.96	228.35	21.06	PASS
7113.00†	7025.19	-706.77	655.92	7039.19	7025.19	4042.18	-7.14	-141.79	4795.02	228.54	21.04	PASS
7213.00†	7124.20	-710.27	668.49	7138.20	7124.20	4042.18	-7.14	-75.68	4800.24	231.36	20.81	PASS
7313.00†	7222.32	-696.39	680.94	7236.32	7222.32	4042.18	-7.14	-37.79	4788.27	234.79	20.45	PASS
7413.00†	7316.56	-665.54	692.88	7330.56	7316.56	4042.18	-7.14	-26.99	4759.48	238.43	20.02	PASS
7513.00†	7404.05	-618.66	703.94	7418.05	7404.05	4042.18	-7.14	-23.17	4714.78	241.57	19.57	PASS
7613.00†	7482.14	-557.19	713.80	7496.14	7482.14	4042.18	-7.14	-22.27	4655.53	244.28	19.11	PASS
7713.00†	7548.46	-482.98	722.15	7562.46	7548.46	4042.18	-7.14	-23.45	4583.55	246.53	18.64	PASS
7813.00†	7600.98	-398.29	728.74	7614.98	7600.98	4042.18	-7.14	-27.18	4501.03	248.30	18.18	PASS
7913.00†	7638.12	-305.69	733.36	7652.12	7638.12	4042.18	-7.14	-35.78	4410.48	249.58	17.72	PASS
8013.00†	7658.74	-208.00	735.89	7672.74	7658.74	4042.18	-7.14	-57.45	4314.64	250.38	17.28	PASS
8083.15	7663.00	-138.03	736.36	7677.00	7663.00	4042.18	-7.14	-90.00	4245.81	250.67	16.98	PASS
8113.00†	7663.00	-108.18	736.33	7677.00	7663.00	4042.18	-7.14	-90.00	4216.42	250.74	16.86	PASS
8213.00†	7663.00	-8.18	736.23	7677.00	7663.00	4042.18	-7.14	-90.00	4118.01	251.01	16.45	PASS
8313.00†	7663.00	91.82	736.14	7677.00	7663.00	4042.18	-7.14	-90.00	4019.68	251.29	16.04	PASS
8413.00†	7663.00	191.82	736.04	7677.00	7663.00	4042.18	-7.14	-90.00	3921.43	251.59	15.63	PASS
8513.00†	7663.00	291.82	735.94	7677.00	7663.00	4042.18	-7.14	-90.00	3823.27	251.91	15.22	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

Facility: SEC.02-T02S-R66W Slot: SLOT#01 EX MARTIN #1 (600'FNL & 2040'FWL, SEC.02,8400, SI) Well: MARTIN #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
8613.00†	7663.00	391.82	735.84	7677.00	7663.00	4042.18	-7.14	-90.00	3725.21	252.26	14.81	PASS
8713.00†	7663.00	491.82	735.75	7677.00	7663.00	4042.18	-7.14	-90.00	3627.25	252.63	14.40	PASS
8813.00†	7663.00	591.82	735.65	7677.00	7663.00	4042.18	-7.14	-90.00	3529.41	253.03	13.98	PASS
8913.00†	7663.00	691.82	735.55	7677.00	7663.00	4042.18	-7.14	-90.00	3431.69	253.46	13.57	PASS
9013.00†	7663.00	791.82	735.46	7677.00	7663.00	4042.18	-7.14	-90.00	3334.11	253.93	13.16	PASS
9113.00†	7663.00	891.82	735.36	7677.00	7663.00	4042.18	-7.14	-90.00	3236.68	254.43	12.75	PASS
9213.00†	7663.00	991.82	735.26	7677.00	7663.00	4042.18	-7.14	-90.00	3139.40	254.98	12.34	PASS
9313.00†	7663.00	1091.82	735.17	7677.00	7663.00	4042.18	-7.14	-90.00	3042.31	255.57	11.93	PASS
9413.00†	7663.00	1191.82	735.07	7677.00	7663.00	4042.18	-7.14	-90.00	2945.41	256.20	11.53	PASS
9513.00†	7663.00	1291.82	734.97	7677.00	7663.00	4042.18	-7.14	-90.00	2848.72	256.90	11.12	PASS
9613.00†	7663.00	1391.82	734.87	7677.00	7663.00	4042.18	-7.14	-90.00	2752.27	257.65	10.71	PASS
9713.00†	7663.00	1491.82	734.78	7677.00	7663.00	4042.18	-7.14	-90.00	2656.08	258.47	10.30	PASS
9813.00†	7663.00	1591.82	734.68	7677.00	7663.00	4042.18	-7.14	-90.00	2560.19	259.37	9.90	PASS
9913.00†	7663.00	1691.82	734.58	7677.00	7663.00	4042.18	-7.14	-90.00	2464.62	260.35	9.49	PASS
10013.00†	7663.00	1791.82	734.49	7677.00	7663.00	4042.18	-7.14	-90.00	2369.42	261.43	9.09	PASS
10113.00†	7663.00	1891.82	734.39	7677.00	7663.00	4042.18	-7.14	-90.00	2274.62	262.61	8.68	PASS
10213.00†	7663.00	1991.82	734.29	7677.00	7663.00	4042.18	-7.14	-90.00	2180.30	263.92	8.28	PASS
10313.00†	7663.00	2091.82	734.20	7677.00	7663.00	4042.18	-7.14	-90.00	2086.50	265.35	7.88	PASS
10413.00†	7663.00	2191.82	734.10	7677.00	7663.00	4042.18	-7.14	-90.00	1993.31	266.95	7.48	PASS
10513.00†	7663.00	2291.82	734.00	7677.00	7663.00	4042.18	-7.14	-90.00	1900.80	268.71	7.09	PASS
10613.00†	7663.00	2391.82	733.90	7677.00	7663.00	4042.18	-7.14	-90.00	1809.10	270.68	6.70	PASS
10713.00†	7663.00	2491.82	733.81	7677.00	7663.00	4042.18	-7.14	-90.00	1718.32	272.87	6.31	PASS
10813.00†	7663.00	2591.82	733.71	7677.00	7663.00	4042.18	-7.14	-90.00	1628.62	275.31	5.93	PASS
10913.00†	7663.00	2691.82	733.61	7677.00	7663.00	4042.18	-7.14	-90.00	1540.19	278.04	5.55	PASS
11013.00†	7663.00	2791.82	733.52	7677.00	7663.00	4042.18	-7.14	-90.00	1453.26	281.09	5.18	PASS
11113.00†	7663.00	2891.82	733.42	7677.00	7663.00	4042.18	-7.14	-90.00	1368.12	284.52	4.82	PASS
11213.00†	7663.00	2991.82	733.32	7677.00	7663.00	4042.18	-7.14	-90.00	1285.12	288.34	4.47	PASS
11313.00†	7663.00	3091.82	733.23	7677.00	7663.00	4042.18	-7.14	-90.00	1204.71	292.61	4.12	PASS
11413.00†	7663.00	3191.82	733.13	7677.00	7663.00	4042.18	-7.14	-90.00	1127.44	297.35	3.80	PASS
11513.00†	7663.00	3291.82	733.03	7677.00	7663.00	4042.18	-7.14	-90.00	1053.99	302.55	3.49	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

Facility: SEC.02-T02S-R66W Slot: SLOT#01 EX MARTIN #1 (600'FNL & 2040'FWL, SEC.02,8400, SI) Well: MARTIN #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
11613.00†	7663.00	3391.82	732.93	7677.00	7663.00	4042.18	-7.14	-90.00	985.23	308.19	3.20	PASS
11713.00†	7663.00	3491.82	732.84	7677.00	7663.00	4042.18	-7.14	-90.00	922.21	314.15	2.94	PASS
11813.00†	7663.00	3591.82	732.74	7677.00	7663.00	4042.18	-7.14	-90.00	866.17	320.23	2.71	PASS
11913.00†	7663.00	3691.82	732.64	7677.00	7663.00	4042.18	-7.14	-90.00	818.55	326.07	2.51	PASS
12013.00†	7663.00	3791.82	732.55	7677.00	7663.00	4042.18	-7.14	-90.00	780.91	331.23	2.36	PASS
12113.00†	7663.00	3891.82	732.45	7677.00	7663.00	4042.18	-7.14	-90.00	754.72	335.12	2.25	PASS
12213.00†	7663.00	3991.82	732.35	7677.00	7663.00	4042.18	-7.14	-90.00	741.20	337.22	2.20	PASS
12263.00†	7663.00	4041.82	732.30	7678.12	7664.12	4042.18	-7.14	-90.09	739.44	337.51	2.19	PASS
12263.64†	7663.00	4042.46	732.30	7677.00	7663.00	4042.18	-7.14	-90.00	739.44	337.48	2.19	PASS
12313.00†	7663.00	4091.82	732.26	7677.00	7663.00	4042.18	-7.14	-90.00	741.06	337.20	2.20	PASS
12413.00†	7663.00	4191.82	732.16	7677.00	7663.00	4042.18	-7.14	-90.00	754.29	335.08	2.25	PASS
12513.00†	7663.00	4291.82	732.06	7677.00	7663.00	4042.18	-7.14	-90.00	780.22	331.16	2.36	PASS
12613.00†	7663.00	4391.82	731.96	7677.00	7663.00	4042.18	-7.14	-90.00	817.63	325.99	2.51	PASS
12713.00†	7663.00	4491.82	731.87	7677.00	7663.00	4042.18	-7.14	-90.00	865.05	320.13	2.71	PASS
12813.00†	7663.00	4591.82	731.77	7677.00	7663.00	4042.18	-7.14	-90.00	920.92	314.06	2.94	PASS
12913.00†	7663.00	4691.82	731.67	7677.00	7663.00	4042.18	-7.14	-90.00	983.81	308.11	3.20	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

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

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8400.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8400>	MARTIN #1 AWB

REFERENCE WELLPATH IDENTIFICATION			
Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

OFFSET WELLPATH REFERENCE - **Offset Wellbore: MARTIN #1 AWB Offset Wellpath: MARTIN #1 AWP**	
MD Reference: **Rig on SLOT#01 EX MARTIN #1 (600'FNL & 2040'FWL, SEC.02,8400, 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-1NBH PWB** Offset Wellpath: **ACKARD NORTH 2-35-1NBH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#04 ACKARD NORTH 2-35-1NBH (600'FSL & 1980'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-1NBH** **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	-0.20	-75.00	-90.15	75.00	1.40	123.66	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.20	-75.00	-90.15	75.00	1.72	81.05	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.20	-75.00	-90.15	75.00	2.28	50.15	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.20	-75.00	-90.15	75.00	2.88	35.66	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.20	-75.00	-90.15	75.00	3.50	27.54	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.20	-75.00	-90.15	75.00	4.12	22.39	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.20	-75.00	-90.15	75.00	4.74	18.85	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.20	-75.00	-90.15	75.00	5.36	16.27	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.20	-75.00	-90.15	75.00	5.99	14.31	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	-0.20	-75.00	-90.15	75.00	6.61	12.77	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	-0.20	-75.00	-90.15	75.00	7.24	11.53	PASS
1113.00†	1113.00	0.00	0.00	1112.78	1112.78	-0.22	-75.02	-90.17	75.02	7.86	10.51	PASS
1213.00†	1213.00	0.00	0.00	1211.00	1210.97	-1.81	-76.43	-91.35	76.48	8.53	9.79	PASS
1313.00†	1313.00	0.00	0.00	1308.97	1308.78	-5.88	-80.07	-94.20	80.40	9.34	9.33	PASS
1413.00†	1413.00	0.00	0.00	1406.45	1405.86	-12.42	-85.90	-98.22	87.09	10.17	9.21	PASS
1513.00†	1513.00	0.00	0.00	1503.22	1501.89	-21.33	-93.86	-102.80	96.90	11.00	9.42	PASS
1600.00	1600.00	0.00	0.00	1586.91	1584.57	-30.99	-102.48	-106.82	108.17	11.70	9.85	PASS
1613.00†	1613.00	-0.02	0.02	1599.73	1597.21	-32.58	-103.90	115.43	110.04	11.79	9.94	PASS
1713.00†	1712.97	-1.63	1.52	1698.34	1694.44	-44.83	-114.84	112.17	125.49	12.46	10.70	PASS
1813.00†	1812.80	-5.80	5.38	1796.87	1791.60	-57.06	-125.77	110.86	142.40	13.09	11.48	PASS
1913.00†	1912.38	-12.52	11.62	1895.19	1888.55	-69.28	-136.67	110.92	160.56	13.72	12.29	PASS
2013.00†	2011.57	-21.78	20.22	1993.20	1985.19	-81.45	-147.54	111.93	179.99	14.44	13.06	PASS
2113.00†	2110.26	-33.58	31.16	2090.76	2081.39	-93.57	-158.36	113.58	200.87	15.25	13.77	PASS
2129.27	2126.27	-35.74	33.16	2106.59	2096.99	-95.53	-160.12	113.89	204.42	15.36	13.91	PASS
2213.00†	2208.57	-47.01	43.63	2187.98	2177.25	-105.64	-169.14	115.70	222.91	16.02	14.51	PASS
2313.00†	2306.87	-60.48	56.12	2285.20	2273.11	-117.72	-179.92	117.51	245.22	16.85	15.15	PASS
2413.00†	2405.17	-73.94	68.62	2382.41	2368.96	-129.79	-190.70	119.01	267.73	17.70	15.71	PASS
2513.00†	2503.46	-87.41	81.11	2479.62	2464.82	-141.87	-201.49	120.29	290.38	18.58	16.21	PASS
2613.00†	2601.76	-100.87	93.61	2576.83	2560.67	-153.94	-212.27	121.37	313.15	19.47	16.65	PASS
2713.00†	2700.06	-114.34	106.10	2674.05	2656.53	-166.02	-223.05	122.32	336.02	20.38	17.04	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-1NBH PWB** Offset Wellpath: **ACKARD NORTH 2-35-1NBH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#04 ACKARD NORTH 2-35-1NBH (600'FSL & 1980'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-1NBH** **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†	2798.36	-127.80	118.60	2771.26	2752.39	-178.09	-233.83	123.14	358.95	21.30	17.39	PASS
2913.00†	2896.66	-141.27	131.10	2868.47	2848.24	-190.17	-244.61	123.86	381.96	22.24	17.71	PASS
3013.00†	2994.95	-154.73	143.59	2965.68	2944.10	-202.24	-255.39	124.50	405.01	23.18	17.99	PASS
3113.00†	3093.25	-168.20	156.09	3062.90	3039.95	-214.32	-266.17	125.07	428.10	24.13	18.25	PASS
3213.00†	3191.55	-181.67	168.58	3160.11	3135.81	-226.39	-276.95	125.58	451.23	25.09	18.48	PASS
3313.00†	3289.85	-195.13	181.08	3257.32	3231.66	-238.47	-287.73	126.05	474.39	26.05	18.69	PASS
3413.00†	3388.15	-208.60	193.57	3354.53	3327.52	-250.54	-298.52	126.47	497.58	27.02	18.89	PASS
3513.00†	3486.45	-222.06	206.07	3451.75	3423.37	-262.62	-309.30	126.85	520.79	27.99	19.06	PASS
3613.00†	3584.74	-235.53	218.57	3548.96	3519.23	-274.69	-320.08	127.20	544.02	28.97	19.22	PASS
3713.00†	3683.04	-248.99	231.06	3646.17	3615.08	-286.77	-330.86	127.52	567.27	29.95	19.37	PASS
3813.00†	3781.34	-262.46	243.56	3743.39	3710.94	-298.84	-341.64	127.82	590.54	30.94	19.51	PASS
3913.00†	3879.64	-275.92	256.05	3840.60	3806.79	-310.92	-352.42	128.09	613.82	31.93	19.64	PASS
4013.00†	3977.94	-289.39	268.55	3937.81	3902.65	-322.99	-363.20	128.34	637.11	32.92	19.76	PASS
4113.00†	4076.24	-302.85	281.04	4035.02	3998.51	-335.07	-373.98	128.58	660.41	33.91	19.87	PASS
4213.00†	4174.53	-316.32	293.54	4132.24	4094.36	-347.14	-384.76	128.80	683.72	34.91	19.97	PASS
4313.00†	4272.83	-329.79	306.04	4229.45	4190.22	-359.21	-395.55	129.01	707.04	35.91	20.07	PASS
4413.00†	4371.13	-343.25	318.53	4326.66	4286.07	-371.29	-406.33	129.20	730.37	36.91	20.16	PASS
4513.00†	4469.43	-356.72	331.03	4423.87	4381.93	-383.36	-417.11	129.38	753.71	37.91	20.24	PASS
4613.00†	4567.73	-370.18	343.52	4521.09	4477.78	-395.44	-427.89	129.55	777.05	38.92	20.32	PASS
4713.00†	4666.02	-383.65	356.02	4618.30	4573.64	-407.51	-438.67	129.71	800.40	39.92	20.39	PASS
4813.00†	4764.32	-397.11	368.51	4715.51	4669.49	-419.59	-449.45	129.86	823.75	40.93	20.46	PASS
4913.00†	4862.62	-410.58	381.01	4812.72	4765.35	-431.66	-460.23	130.00	847.11	41.94	20.53	PASS
5013.00†	4960.92	-424.04	393.51	4909.94	4861.20	-443.74	-471.01	130.13	870.47	42.95	20.59	PASS
5113.00†	5059.22	-437.51	406.00	5007.15	4957.06	-455.81	-481.79	130.26	893.84	43.96	20.65	PASS
5213.00†	5157.52	-450.98	418.50	5104.36	5052.91	-467.89	-492.58	130.38	917.21	44.97	20.71	PASS
5313.00†	5255.81	-464.44	430.99	5201.57	5148.77	-479.96	-503.36	130.50	940.59	45.99	20.76	PASS
5413.00†	5354.11	-477.91	443.49	5298.79	5244.63	-492.04	-514.14	130.61	963.97	47.00	20.81	PASS
5513.00†	5452.41	-491.37	455.98	5396.00	5340.48	-504.11	-524.92	130.71	987.35	48.02	20.86	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

POSITIONAL UNCERTAINTY - Offset Wellbore: ACKARD NORTH 2-35-1NBH PWB Offset Wellpath: ACKARD NORTH 2-35-1NBH 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: ACKARD NORTH 2-35-1NBH PWB Offset Wellpath: ACKARD NORTH 2-35-1NBH 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	1794.69	-0.12	-45.72	-17.57	-61.30
8.5in Open Hole	1800.00	17742.92	15942.92	1794.69	7618.00	-17.57	-61.30	2917.74	-269.20

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: ACKARD NORTH 2-35-1NBH PWP (REV. A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17742.92	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-1NBH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: ACKARD NORTH 2-35-1NBH PWB Offset Wellpath: ACKARD NORTH 2-35-1NBH 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-4NBH** Offset Wellpath: **ACKARD NORTH 2-35-4NBH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#14 ACKARD NORTH 2-35-4NBH (600'FSL & 2130'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-4NBH** **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	0.24	74.97	89.82	74.97	1.40	123.61	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	0.24	74.97	89.82	74.97	1.72	81.02	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	0.24	74.97	89.82	74.97	2.28	50.13	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	0.24	74.97	89.82	74.97	2.88	35.64	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	0.24	74.97	89.82	74.97	3.50	27.53	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	0.24	74.97	89.82	74.97	4.12	22.38	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	0.24	74.97	89.82	74.97	4.74	18.85	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	0.24	74.97	89.82	74.97	5.36	16.27	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	0.24	74.97	89.82	74.97	5.99	14.31	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	0.24	74.97	89.82	74.97	6.61	12.77	PASS
1013.00†	1013.00	0.00	0.00	1013.00	1013.00	0.24	74.97	89.82	74.97	7.24	11.52	PASS
1113.00†	1113.00	0.00	0.00	1112.69	1112.69	0.23	74.99	89.83	75.00	7.86	10.51	PASS
1213.00†	1213.00	0.00	0.00	1210.22	1210.19	-0.45	76.97	90.33	77.03	8.57	9.81	PASS
1313.00†	1313.00	0.00	0.00	1307.50	1307.31	-2.19	82.07	91.53	82.30	9.49	9.38	PASS
1413.00†	1413.00	0.00	0.00	1404.30	1403.72	-4.99	90.24	93.16	90.86	10.38	9.40	PASS
1513.00†	1513.00	0.00	0.00	1500.40	1499.10	-8.80	101.40	94.96	102.73	11.21	9.80	PASS
1600.00	1600.00	0.00	0.00	1583.29	1581.01	-12.92	113.45	96.50	115.75	11.92	10.34	PASS
1613.00†	1613.00	-0.02	0.02	1595.62	1593.15	-13.60	115.43	-40.40	117.89	12.02	10.44	PASS
1713.00†	1712.97	-1.63	1.52	1690.09	1685.92	-19.36	132.27	-39.15	134.69	12.86	11.11	PASS
1813.00†	1812.80	-5.80	5.38	1783.96	1777.48	-26.06	151.85	-38.71	152.03	13.69	11.69	PASS
1913.00†	1912.38	-12.52	11.62	1877.21	1867.71	-33.67	174.11	-38.82	169.84	14.51	12.26	PASS
2013.00†	2011.57	-21.78	20.22	1969.82	1956.52	-42.17	198.95	-39.32	188.13	15.35	12.80	PASS
2113.00†	2110.26	-33.58	31.16	2061.78	2043.81	-51.52	226.30	-40.10	206.92	16.18	13.32	PASS
2129.27	2126.27	-35.74	33.16	2076.68	2057.87	-53.12	230.97	-40.24	210.02	16.30	13.43	PASS
2213.00†	2208.57	-47.01	43.63	2152.92	2129.37	-61.68	256.00	-41.08	227.13	16.98	13.91	PASS
2313.00†	2306.87	-60.48	56.12	2245.73	2215.52	-72.86	288.67	-41.81	250.15	17.68	14.69	PASS
2413.00†	2405.17	-73.94	68.62	2342.86	2305.46	-84.73	323.37	-42.41	273.78	18.46	15.39	PASS
2513.00†	2503.46	-87.41	81.11	2439.99	2395.40	-96.60	358.07	-42.91	297.43	19.28	15.98	PASS
2613.00†	2601.76	-100.87	93.61	2537.12	2485.34	-108.47	392.77	-43.34	321.10	20.14	16.49	PASS
2713.00†	2700.06	-114.34	106.10	2634.25	2575.28	-120.33	427.47	-43.71	344.79	21.03	16.93	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-4NBH Offset Wellpath: ACKARD NORTH 2-35-4NBH PWP (REV. A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#14 ACKARD NORTH 2-35-4NBH (600'FSL & 2130'FWL, SEC.02) Well: ACKARD NORTH 2-35-4NBH 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†	2798.36	-127.80	118.60	2731.38	2665.23	-132.20	462.17	-44.04	368.49	21.95	17.31	PASS
2913.00†	2896.66	-141.27	131.10	2828.52	2755.17	-144.07	496.87	-44.32	392.20	22.90	17.64	PASS
3013.00†	2994.95	-154.73	143.59	2925.65	2845.11	-155.94	531.57	-44.57	415.91	23.88	17.92	PASS
3113.00†	3093.25	-168.20	156.09	3022.78	2935.05	-167.81	566.27	-44.80	439.63	24.87	18.17	PASS
3213.00†	3191.55	-181.67	168.58	3119.91	3025.00	-179.68	600.97	-45.00	463.36	25.88	18.38	PASS
3313.00†	3289.85	-195.13	181.08	3217.04	3114.94	-191.55	635.67	-45.18	487.09	26.91	18.57	PASS
3413.00†	3388.15	-208.60	193.57	3314.18	3204.88	-203.42	670.37	-45.35	510.83	27.95	18.73	PASS
3513.00†	3486.45	-222.06	206.07	3411.31	3294.82	-215.29	705.07	-45.50	534.57	29.00	18.87	PASS
3613.00†	3584.74	-235.53	218.57	3508.44	3384.76	-227.16	739.77	-45.64	558.32	30.07	18.99	PASS
3713.00†	3683.04	-248.99	231.06	3605.57	3474.71	-239.03	774.47	-45.76	582.06	31.14	19.10	PASS
3813.00†	3781.34	-262.46	243.56	3702.70	3564.65	-250.90	809.17	-45.88	605.81	32.22	19.20	PASS
3913.00†	3879.64	-275.92	256.05	3799.83	3654.59	-262.76	843.87	-45.99	629.57	33.32	19.29	PASS
4013.00†	3977.94	-289.39	268.55	3896.97	3744.53	-274.63	878.57	-46.09	653.32	34.42	19.36	PASS
4113.00†	4076.24	-302.85	281.04	3994.10	3834.47	-286.50	913.27	-46.18	677.07	35.52	19.43	PASS
4213.00†	4174.53	-316.32	293.54	4091.23	3924.42	-298.37	947.97	-46.27	700.83	36.63	19.49	PASS
4313.00†	4272.83	-329.79	306.04	4188.36	4014.36	-310.24	982.67	-46.35	724.59	37.75	19.54	PASS
4413.00†	4371.13	-343.25	318.53	4285.49	4104.30	-322.11	1017.37	-46.43	748.35	38.87	19.59	PASS
4513.00†	4469.43	-356.72	331.03	4382.63	4194.24	-333.98	1052.07	-46.50	772.11	40.00	19.63	PASS
4613.00†	4567.73	-370.18	343.52	4479.76	4284.19	-345.85	1086.77	-46.56	795.87	41.13	19.67	PASS
4713.00†	4666.02	-383.65	356.02	4576.89	4374.13	-357.72	1121.48	-46.63	819.63	42.27	19.70	PASS
4813.00†	4764.32	-397.11	368.51	4674.02	4464.07	-369.59	1156.18	-46.69	843.40	43.41	19.74	PASS
4913.00†	4862.62	-410.58	381.01	4771.15	4554.01	-381.46	1190.88	-46.74	867.16	44.55	19.76	PASS
5013.00†	4960.92	-424.04	393.51	4868.28	4643.95	-393.33	1225.58	-46.80	890.93	45.69	19.79	PASS
5113.00†	5059.22	-437.51	406.00	4965.42	4733.90	-405.19	1260.28	-46.85	914.69	46.84	19.81	PASS
5213.00†	5157.52	-450.98	418.50	5062.55	4823.84	-417.06	1294.98	-46.90	938.46	47.99	19.83	PASS
5313.00†	5255.81	-464.44	430.99	5159.68	4913.78	-428.93	1329.68	-46.94	962.23	49.15	19.85	PASS
5413.00†	5354.11	-477.91	443.49	5256.81	5003.72	-440.80	1364.38	-46.98	986.00	50.30	19.87	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

POSITIONAL UNCERTAINTY - Offset Wellbore: ACKARD NORTH 2-35-4NBH Offset Wellpath: ACKARD NORTH 2-35-4NBH 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: ACKARD NORTH 2-35-4NBH Offset Wellpath: ACKARD NORTH 2-35-4NBH 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	1793.06	0.14	45.70	-8.25	70.24
8.5in Open Hole	1800.00	18099.99	16299.99	1793.06	7586.00	-8.25	70.24	2925.73	739.28

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: ACKARD NORTH 2-35-4NBH PWP (REV. A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	18099.99	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-4NBH

OFFSET WELLPATH REFERENCE - Offset Wellbore: ACKARD NORTH 2-35-4NBH Offset Wellpath: ACKARD NORTH 2-35-4NBH 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

Facility: SEC.02-T02S-R66W Slot: SLOT#17 EX OTTER#1 (1980'FSL & 1980'FWL, SEC.02, PR, 8390) Well: OTTER#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	9.00	13.00	1349.16	-25.74	-1.09	1349.41	50.22	27.29	PASS
113.00†	113.00	0.00	0.00	109.00	113.00	1349.16	-25.74	-1.09	1349.41	52.56	26.06	PASS
213.00†	213.00	0.00	0.00	209.00	213.00	1349.16	-25.74	-1.09	1349.41	54.91	24.93	PASS
313.00†	313.00	0.00	0.00	309.00	313.00	1349.16	-25.74	-1.09	1349.41	57.26	23.89	PASS
413.00†	413.00	0.00	0.00	409.00	413.00	1349.16	-25.74	-1.09	1349.41	59.62	22.93	PASS
513.00†	513.00	0.00	0.00	509.00	513.00	1349.16	-25.74	-1.09	1349.41	61.98	22.05	PASS
613.00†	613.00	0.00	0.00	609.00	613.00	1349.16	-25.74	-1.09	1349.41	64.34	21.23	PASS
713.00†	713.00	0.00	0.00	709.00	713.00	1349.16	-25.74	-1.09	1349.41	66.71	20.46	PASS
813.00†	813.00	0.00	0.00	809.00	813.00	1349.16	-25.74	-1.09	1349.41	69.08	19.75	PASS
913.00†	913.00	0.00	0.00	909.00	913.00	1349.16	-25.74	-1.09	1349.41	71.46	19.09	PASS
1013.00†	1013.00	0.00	0.00	1009.00	1013.00	1349.16	-25.74	-1.09	1349.41	73.84	18.47	PASS
1113.00†	1113.00	0.00	0.00	1109.00	1113.00	1349.16	-25.74	-1.09	1349.41	76.22	17.88	PASS
1213.00†	1213.00	0.00	0.00	1209.00	1213.00	1349.16	-25.74	-1.09	1349.41	78.61	17.33	PASS
1313.00†	1313.00	0.00	0.00	1309.00	1313.00	1349.16	-25.74	-1.09	1349.41	81.00	16.82	PASS
1413.00†	1413.00	0.00	0.00	1409.00	1413.00	1349.16	-25.74	-1.09	1349.41	83.39	16.33	PASS
1513.00†	1513.00	0.00	0.00	1509.00	1513.00	1349.16	-25.74	-1.09	1349.41	85.79	15.87	PASS
1600.00	1600.00	0.00	0.00	1596.00	1600.00	1349.16	-25.74	-1.09	1349.41	87.88	15.49	PASS
1613.00†	1613.00	-0.02	0.02	1609.00	1613.00	1349.16	-25.74	-138.23	1349.43	88.20	15.43	PASS
1713.00†	1712.97	-1.63	1.52	1708.97	1712.97	1349.16	-25.74	-138.27	1351.07	90.61	15.04	PASS
1813.00†	1812.80	-5.80	5.38	1808.80	1812.80	1349.16	-25.74	-138.38	1355.32	92.96	14.68	PASS
1913.00†	1912.38	-12.52	11.62	1908.38	1912.38	1349.16	-25.74	-138.54	1362.20	95.40	14.38	PASS
2013.00†	2011.57	-21.78	20.22	2007.57	2011.57	1349.16	-25.74	-138.76	1371.72	97.84	14.12	PASS
2113.00†	2110.26	-33.58	31.16	2106.26	2110.26	1349.16	-25.74	-139.04	1383.91	100.27	13.89	PASS
2129.27	2126.27	-35.74	33.16	2122.27	2126.27	1349.16	-25.74	-139.09	1386.15	100.67	13.86	PASS
2213.00†	2208.57	-47.01	43.63	2204.57	2208.57	1349.16	-25.74	-139.50	1397.89	102.68	13.70	PASS
2313.00†	2306.87	-60.48	56.12	2302.87	2306.87	1349.16	-25.74	-139.98	1412.01	105.09	13.52	PASS
2413.00†	2405.17	-73.94	68.62	2401.17	2405.17	1349.16	-25.74	-140.45	1426.23	107.51	13.35	PASS
2513.00†	2503.46	-87.41	81.11	2499.46	2503.46	1349.16	-25.74	-140.91	1440.54	109.94	13.18	PASS
2613.00†	2601.76	-100.87	93.61	2597.76	2601.76	1349.16	-25.74	-141.37	1454.94	112.38	13.02	PASS
2713.00†	2700.06	-114.34	106.10	2696.06	2700.06	1349.16	-25.74	-141.81	1469.43	114.82	12.87	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

Facility: SEC.02-T02S-R66W Slot: SLOT#17 EX OTTER#1 (1980'FSL & 1980'FWL, SEC.02, PR, 8390) Well: OTTER#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†	2798.36	-127.80	118.60	2794.36	2798.36	1349.16	-25.74	-142.25	1484.00	117.27	12.73	PASS
2913.00†	2896.66	-141.27	131.10	2892.66	2896.66	1349.16	-25.74	-142.67	1498.66	119.73	12.59	PASS
3013.00†	2994.95	-154.73	143.59	2990.95	2994.95	1349.16	-25.74	-143.09	1513.40	122.19	12.45	PASS
3113.00†	3093.25	-168.20	156.09	3089.25	3093.25	1349.16	-25.74	-143.50	1528.22	124.66	12.32	PASS
3213.00†	3191.55	-181.67	168.58	3187.55	3191.55	1349.16	-25.74	-143.91	1543.11	127.14	12.20	PASS
3313.00†	3289.85	-195.13	181.08	3285.85	3289.85	1349.16	-25.74	-144.30	1558.08	129.62	12.08	PASS
3413.00†	3388.15	-208.60	193.57	3384.15	3388.15	1349.16	-25.74	-144.69	1573.12	132.11	11.97	PASS
3513.00†	3486.45	-222.06	206.07	3482.45	3486.45	1349.16	-25.74	-145.07	1588.23	134.60	11.86	PASS
3613.00†	3584.74	-235.53	218.57	3580.74	3584.74	1349.16	-25.74	-145.45	1603.41	137.10	11.75	PASS
3713.00†	3683.04	-248.99	231.06	3679.04	3683.04	1349.16	-25.74	-145.81	1618.65	139.60	11.65	PASS
3813.00†	3781.34	-262.46	243.56	3777.34	3781.34	1349.16	-25.74	-146.17	1633.96	142.11	11.55	PASS
3913.00†	3879.64	-275.92	256.05	3875.64	3879.64	1349.16	-25.74	-146.53	1649.34	144.62	11.46	PASS
4013.00†	3977.94	-289.39	268.55	3973.94	3977.94	1349.16	-25.74	-146.87	1664.77	147.13	11.36	PASS
4113.00†	4076.24	-302.85	281.04	4072.24	4076.24	1349.16	-25.74	-147.21	1680.26	149.65	11.28	PASS
4213.00†	4174.53	-316.32	293.54	4170.53	4174.53	1349.16	-25.74	-147.55	1695.81	152.17	11.19	PASS
4313.00†	4272.83	-329.79	306.04	4268.83	4272.83	1349.16	-25.74	-147.88	1711.41	154.70	11.11	PASS
4413.00†	4371.13	-343.25	318.53	4367.13	4371.13	1349.16	-25.74	-148.20	1727.07	157.23	11.03	PASS
4513.00†	4469.43	-356.72	331.03	4465.43	4469.43	1349.16	-25.74	-148.51	1742.79	159.76	10.95	PASS
4613.00†	4567.73	-370.18	343.52	4563.73	4567.73	1349.16	-25.74	-148.83	1758.55	162.30	10.88	PASS
4713.00†	4666.02	-383.65	356.02	4662.02	4666.02	1349.16	-25.74	-149.13	1774.36	164.84	10.81	PASS
4813.00†	4764.32	-397.11	368.51	4760.32	4764.32	1349.16	-25.74	-149.43	1790.23	167.38	10.74	PASS
4913.00†	4862.62	-410.58	381.01	4858.62	4862.62	1349.16	-25.74	-149.73	1806.14	169.93	10.67	PASS
5013.00†	4960.92	-424.04	393.51	4956.92	4960.92	1349.16	-25.74	-150.02	1822.09	172.48	10.60	PASS
5113.00†	5059.22	-437.51	406.00	5055.22	5059.22	1349.16	-25.74	-150.30	1838.09	175.03	10.54	PASS
5213.00†	5157.52	-450.98	418.50	5153.52	5157.52	1349.16	-25.74	-150.58	1854.14	177.58	10.48	PASS
5313.00†	5255.81	-464.44	430.99	5251.81	5255.81	1349.16	-25.74	-150.86	1870.23	180.14	10.42	PASS
5413.00†	5354.11	-477.91	443.49	5350.11	5354.11	1349.16	-25.74	-151.13	1886.36	182.69	10.36	PASS
5513.00†	5452.41	-491.37	455.98	5448.41	5452.41	1349.16	-25.74	-151.40	1902.53	185.26	10.31	PASS
5613.00†	5550.71	-504.84	468.48	5546.71	5550.71	1349.16	-25.74	-151.66	1918.74	187.82	10.25	PASS
5713.00†	5649.01	-518.30	480.98	5645.01	5649.01	1349.16	-25.74	-151.91	1934.99	190.38	10.20	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

Facility: SEC.02-T02S-R66W Slot: SLOT#17 EX OTTER#1 (1980'FSL & 1980'FWL, SEC.02, PR, 8390) Well: OTTER#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†	5747.30	-531.77	493.47	5743.30	5747.30	1349.16	-25.74	-152.17	1951.27	192.95	10.15	PASS
5913.00†	5845.60	-545.23	505.97	5841.60	5845.60	1349.16	-25.74	-152.42	1967.60	195.52	10.10	PASS
6013.00†	5943.90	-558.70	518.46	5939.90	5943.90	1349.16	-25.74	-152.66	1983.96	198.09	10.05	PASS
6113.00†	6042.20	-572.16	530.96	6038.20	6042.20	1349.16	-25.74	-152.90	2000.35	200.66	10.00	PASS
6213.00†	6140.50	-585.63	543.45	6136.50	6140.50	1349.16	-25.74	-153.14	2016.78	203.24	9.95	PASS
6313.00†	6238.80	-599.10	555.95	6234.80	6238.80	1349.16	-25.74	-153.37	2033.24	205.81	9.91	PASS
6413.00†	6337.09	-612.56	568.45	6333.09	6337.09	1349.16	-25.74	-153.60	2049.73	208.39	9.87	PASS
6513.00†	6435.39	-626.03	580.94	6431.39	6435.39	1349.16	-25.74	-153.83	2066.26	210.97	9.82	PASS
6613.00†	6533.69	-639.49	593.44	6529.69	6533.69	1349.16	-25.74	-154.05	2082.82	213.55	9.78	PASS
6713.00†	6631.99	-652.96	605.93	6627.99	6631.99	1349.16	-25.74	-154.27	2099.40	216.13	9.74	PASS
6813.00†	6730.29	-666.42	618.43	6726.29	6730.29	1349.16	-25.74	-154.48	2116.02	218.72	9.70	PASS
6913.00†	6828.59	-679.89	630.92	6824.59	6828.59	1349.16	-25.74	-154.69	2132.66	221.30	9.66	PASS
7013.00†	6926.88	-693.35	643.42	6922.88	6926.88	1349.16	-25.74	-154.90	2149.33	223.89	9.63	PASS
7105.70	7018.00	-705.84	655.00	7014.00	7018.00	1349.16	-25.74	-155.09	2164.81	226.29	9.59	PASS
7113.00†	7025.19	-706.77	655.92	7021.19	7025.19	1349.16	-25.74	-152.25	2165.99	226.48	9.59	PASS
7213.00†	7124.20	-710.27	668.49	7120.20	7124.20	1349.16	-25.74	-86.13	2173.30	229.28	9.51	PASS
7313.00†	7222.32	-696.39	680.94	7218.32	7222.32	1349.16	-25.74	-48.62	2164.18	232.81	9.32	PASS
7413.00†	7316.56	-665.54	692.88	7312.56	7316.56	1349.16	-25.74	-38.62	2139.02	236.54	9.07	PASS
7513.00†	7404.05	-618.66	703.94	7400.05	7404.05	1349.16	-25.74	-36.13	2098.75	239.67	8.78	PASS
7613.00†	7482.14	-557.19	713.80	7478.14	7482.14	1349.16	-25.74	-37.20	2044.77	242.36	8.46	PASS
7713.00†	7548.46	-482.98	722.15	7544.46	7548.46	1349.16	-25.74	-41.17	1978.90	244.61	8.11	PASS
7813.00†	7600.98	-398.29	728.74	7596.98	7600.98	1349.16	-25.74	-48.48	1903.37	246.42	7.74	PASS
7913.00†	7638.12	-305.69	733.36	7634.12	7638.12	1349.16	-25.74	-60.11	1820.65	247.77	7.37	PASS
8013.00†	7658.74	-208.00	735.89	7654.74	7658.74	1349.16	-25.74	-76.57	1733.45	248.69	6.99	PASS
8083.15	7663.00	-138.03	736.36	7659.00	7663.00	1349.16	-25.74	-90.00	1671.08	249.09	6.72	PASS
8113.00†	7663.00	-108.18	736.33	7659.00	7663.00	1349.16	-25.74	-90.00	1644.56	249.22	6.61	PASS
8213.00†	7663.00	-8.18	736.23	7659.00	7663.00	1349.16	-25.74	-90.00	1556.59	249.69	6.25	PASS
8313.00†	7663.00	91.82	736.14	7659.00	7663.00	1349.16	-25.74	-90.00	1470.15	250.23	5.89	PASS
8413.00†	7663.00	191.82	736.04	7659.00	7663.00	1349.16	-25.74	-90.00	1385.55	250.85	5.54	PASS
8513.00†	7663.00	291.82	735.94	7659.00	7663.00	1349.16	-25.74	-90.00	1303.12	251.55	5.19	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

Facility: SEC.02-T02S-R66W Slot: SLOT#17 EX OTTER#1 (1980'FSL & 1980'FWL, SEC.02, PR, 8390) Well: OTTER#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
8613.00†	7663.00	391.82	735.84	7659.00	7663.00	1349.16	-25.74	-90.00	1223.32	252.36	4.86	PASS
8713.00†	7663.00	491.82	735.75	7659.00	7663.00	1349.16	-25.74	-90.00	1146.69	253.26	4.54	PASS
8813.00†	7663.00	591.82	735.65	7659.00	7663.00	1349.16	-25.74	-90.00	1073.91	254.28	4.23	PASS
8913.00†	7663.00	691.82	735.55	7659.00	7663.00	1349.16	-25.74	-90.00	1005.81	255.39	3.95	PASS
9013.00†	7663.00	791.82	735.46	7659.00	7663.00	1349.16	-25.74	-90.00	943.42	256.59	3.68	PASS
9113.00†	7663.00	891.82	735.36	7659.00	7663.00	1349.16	-25.74	-90.00	887.93	257.81	3.45	PASS
9213.00†	7663.00	991.82	735.26	7659.00	7663.00	1349.16	-25.74	-90.00	840.72	259.00	3.25	PASS
9313.00†	7663.00	1091.82	735.17	7659.00	7663.00	1349.16	-25.74	-90.00	803.24	260.03	3.09	PASS
9413.00†	7663.00	1191.82	735.07	7659.00	7663.00	1349.16	-25.74	-90.00	776.90	260.77	2.98	PASS
9513.00†	7663.00	1291.82	734.97	7659.00	7663.00	1349.16	-25.74	-90.00	762.87	261.11	2.93	PASS
9567.56†	7663.00	1346.38	734.92	7659.00	7663.00	1349.16	-25.74	-90.00	760.66	261.10	2.92	PASS
9570.86†	7663.00	1349.68	734.92	7659.32	7663.32	1349.16	-25.74	-90.02	760.65	261.10	2.92	PASS
9613.00†	7663.00	1391.82	734.87	7659.00	7663.00	1349.16	-25.74	-90.00	761.81	260.98	2.92	PASS
9713.00†	7663.00	1491.82	734.78	7659.00	7663.00	1349.16	-25.74	-90.00	773.78	260.38	2.98	PASS
9813.00†	7663.00	1591.82	734.68	7659.00	7663.00	1349.16	-25.74	-90.00	798.20	259.40	3.08	PASS
9913.00†	7663.00	1691.82	734.58	7659.00	7663.00	1349.16	-25.74	-90.00	833.97	258.16	3.24	PASS
10013.00†	7663.00	1791.82	734.49	7659.00	7663.00	1349.16	-25.74	-90.00	879.71	256.82	3.43	PASS
10113.00†	7663.00	1891.82	734.39	7659.00	7663.00	1349.16	-25.74	-90.00	933.95	255.48	3.66	PASS
10213.00†	7663.00	1991.82	734.29	7659.00	7663.00	1349.16	-25.74	-90.00	995.32	254.21	3.92	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8390.00	Drift Indicator - Inclination Only (Actual Survey)	ASUMED VERTICAL <8390>	OTTER#1 AWB

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

MD Reference: **Rig on SLOT#17 EX OTTER#1 (1980'FSL & 1980'FWL, SEC.02, PR, 8390) (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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: LEECH #24-26 AWB Offset Wellpath: LEECH #24-26 AWP

Facility: SEC.26-T01S-R66W Slot: SLOT#03 EX LEECH #24-26 (659'FSL & 2026'FWL, SEC.26,8296, PR) Well: LEECH #24-26 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	64.00	10591.70	-65.70	-0.36	10592.02	25.40	430.51	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: LEECH #24-26 AWB Offset Wellpath: LEECH #24-26 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: LEECH #24-26 AWB Offset Wellpath: LEECH #24-26 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8296.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8296>	LEECH #24-26 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: LEECH #24-26 AWB Offset Wellpath: LEECH #24-26 AWP

MD Reference: **Rig on SLOT#03 ES LEECH #24-26 (659'FSL & 2026'FWL, SEC.26,8296, 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-1NCH PWB** Offset Wellpath: **ACKARD NORTH 2-35-1NCH PWP (REV-A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#03 ACKARD NORTH 2-35-1NCH (600'FSL & 1965'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-1NCH** **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	13.00	13.00	-0.26	-89.95	-90.16	89.95	1.40	148.58	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.26	-89.95	-90.16	89.95	1.72	96.81	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.26	-89.95	-90.16	89.95	2.29	59.85	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.26	-89.95	-90.16	89.95	2.89	42.60	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.26	-89.95	-90.16	89.95	3.51	32.93	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.26	-89.95	-90.16	89.95	4.13	26.80	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.26	-89.95	-90.16	89.95	4.75	22.57	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.26	-89.95	-90.16	89.95	5.38	19.49	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.26	-89.95	-90.16	89.95	6.00	17.15	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	-0.26	-89.95	-90.16	89.95	6.63	15.31	PASS
1013.00†	1013.00	0.00	0.00	1012.68	1012.68	-0.27	-89.97	-90.17	89.97	7.25	13.83	PASS
1113.00†	1113.00	0.00	0.00	1110.13	1110.10	-1.49	-91.67	-90.93	91.73	7.94	12.74	PASS
1213.00†	1213.00	0.00	0.00	1207.33	1207.15	-4.64	-96.04	-92.76	96.33	8.82	11.92	PASS
1313.00†	1313.00	0.00	0.00	1304.06	1303.49	-9.67	-103.03	-95.36	103.92	9.68	11.62	PASS
1413.00†	1413.00	0.00	0.00	1400.09	1398.79	-16.55	-112.59	-98.36	114.68	10.53	11.71	PASS
1513.00†	1513.00	0.00	0.00	1495.23	1492.77	-25.20	-124.61	-101.43	128.73	11.37	12.11	PASS
1600.00	1600.00	0.00	0.00	1577.12	1573.23	-34.10	-136.97	-103.98	143.67	12.07	12.68	PASS
1613.00†	1613.00	-0.02	0.02	1589.28	1585.13	-35.53	-138.97	118.48	146.14	12.16	12.79	PASS
1713.00†	1712.97	-1.63	1.52	1686.66	1680.40	-47.30	-155.32	116.21	166.56	12.81	13.80	PASS
1813.00†	1812.80	-5.80	5.38	1784.18	1775.82	-59.09	-171.70	115.28	188.59	13.43	14.82	PASS
1913.00†	1912.38	-12.52	11.62	1881.37	1870.90	-70.83	-188.02	115.31	212.08	14.07	15.82	PASS
2013.00†	2011.57	-21.78	20.22	1978.09	1965.53	-82.53	-204.26	116.01	237.07	14.83	16.74	PASS
2113.00†	2110.26	-33.58	31.16	2074.23	2059.59	-94.15	-220.41	117.15	263.68	15.55	17.71	PASS
2129.27	2126.27	-35.74	33.16	2089.81	2074.83	-96.03	-223.03	117.36	268.17	15.68	17.86	PASS
2213.00†	2208.57	-47.01	43.63	2169.94	2153.23	-105.72	-236.49	118.80	291.50	16.33	18.61	PASS
2313.00†	2306.87	-60.48	56.12	2265.64	2246.86	-117.28	-252.56	120.24	319.55	17.14	19.41	PASS
2413.00†	2405.17	-73.94	68.62	2361.34	2340.48	-128.85	-268.64	121.45	347.76	17.97	20.10	PASS
2513.00†	2503.46	-87.41	81.11	2457.04	2434.11	-140.42	-284.71	122.48	376.09	18.83	20.72	PASS
2613.00†	2601.76	-100.87	93.61	2552.74	2527.74	-151.99	-300.78	123.37	404.52	19.70	21.26	PASS
2713.00†	2700.06	-114.34	106.10	2648.44	2621.37	-163.56	-316.86	124.14	433.02	20.59	21.74	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-1NCH PWB Offset Wellpath: ACKARD NORTH 2-35-1NCH PWP (REV-A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#03 ACKARD NORTH 2-35-1NCH (600'FSL & 1965'FWL, SEC.02) Well: ACKARD NORTH 2-35-1NCH 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†	2798.36	-127.80	118.60	2744.14	2715.00	-175.12	-332.93	124.81	461.59	21.50	22.17	PASS
2913.00†	2896.66	-141.27	131.10	2839.84	2808.62	-186.69	-349.00	125.41	490.21	22.42	22.55	PASS
3013.00†	2994.95	-154.73	143.59	2935.54	2902.25	-198.26	-365.08	125.94	518.88	23.35	22.89	PASS
3113.00†	3093.25	-168.20	156.09	3031.24	2995.88	-209.83	-381.15	126.41	547.58	24.29	23.20	PASS
3213.00†	3191.55	-181.67	168.58	3126.93	3089.51	-221.40	-397.23	126.84	576.31	25.23	23.47	PASS
3313.00†	3289.85	-195.13	181.08	3222.63	3183.13	-232.96	-413.30	127.23	605.06	26.19	23.72	PASS
3413.00†	3388.15	-208.60	193.57	3318.33	3276.76	-244.53	-429.37	127.58	633.85	27.15	23.95	PASS
3513.00†	3486.45	-222.06	206.07	3414.03	3370.39	-256.10	-445.45	127.90	662.65	28.11	24.15	PASS
3613.00†	3584.74	-235.53	218.57	3509.73	3464.02	-267.67	-461.52	128.19	691.46	29.08	24.34	PASS
3713.00†	3683.04	-248.99	231.06	3605.43	3557.65	-279.24	-477.59	128.47	720.30	30.06	24.52	PASS
3813.00†	3781.34	-262.46	243.56	3701.13	3651.27	-290.80	-493.67	128.72	749.15	31.04	24.67	PASS
3913.00†	3879.64	-275.92	256.05	3796.83	3744.90	-302.37	-509.74	128.95	778.01	32.03	24.82	PASS
4013.00†	3977.94	-289.39	268.55	3892.53	3838.53	-313.94	-525.81	129.16	806.88	33.01	24.95	PASS
4113.00†	4076.24	-302.85	281.04	3988.23	3932.16	-325.51	-541.89	129.36	835.76	34.01	25.08	PASS
4213.00†	4174.53	-316.32	293.54	4083.93	4025.79	-337.08	-557.96	129.55	864.65	35.00	25.19	PASS
4313.00†	4272.83	-329.79	306.04	4179.63	4119.41	-348.64	-574.04	129.72	893.54	36.00	25.30	PASS
4413.00†	4371.13	-343.25	318.53	4275.33	4213.04	-360.21	-590.11	129.89	922.45	37.00	25.40	PASS
4513.00†	4469.43	-356.72	331.03	4371.03	4306.67	-371.78	-606.18	130.04	951.36	38.00	25.49	PASS
4613.00†	4567.73	-370.18	343.52	4466.73	4400.30	-383.35	-622.26	130.19	980.27	39.00	25.58	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ACKARD NORTH 2-35-1NCH PWB Offset Wellpath: ACKARD NORTH 2-35-1NCH PWP (REV-A.0)

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

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

HOLE & CASING SECTIONS - Offset Wellbore: ACKARD NORTH 2-35-1NCH PWB Offset Wellpath: ACKARD NORTH 2-35-1NCH 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	13.00	1800.00	1787.00	13.00	1791.29	-0.16	-54.83	-18.67	-80.56
8.5in Open Hole	1800.00	17864.18	16064.18	1791.29	7690.00	-18.67	-80.56	2916.65	-397.47

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: ACKARD NORTH 2-35-1NCH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17864.18	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-1NCH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: ACKARD NORTH 2-35-1NCH PWB Offset Wellpath: ACKARD NORTH 2-35-1NCH 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	**13.00ft**

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-4NAH PWB** Offset Wellpath: **ACKARD NORTH 2-35-4NAH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#15 ACKARD NORTH 2-35-4NAH (600'FSL & 2145'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-4NAH** **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	0.26	89.98	89.84	89.98	1.40	148.63	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	0.26	89.98	89.84	89.98	1.72	97.41	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	0.26	89.98	89.84	89.98	2.28	60.27	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	0.26	89.98	89.84	89.98	2.88	42.86	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	0.26	89.98	89.84	89.98	3.50	33.10	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	0.26	89.98	89.84	89.98	4.12	26.91	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	0.26	89.98	89.84	89.98	4.74	22.66	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	0.26	89.98	89.84	89.98	5.36	19.56	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	0.26	89.98	89.84	89.98	5.99	17.20	PASS
913.00†	913.00	0.00	0.00	913.00	913.00	0.26	89.98	89.84	89.98	6.61	15.35	PASS
1013.00†	1013.00	0.00	0.00	1012.62	1012.62	0.25	90.00	89.84	90.01	7.24	13.86	PASS
1113.00†	1113.00	0.00	0.00	1109.67	1109.64	-0.39	91.97	90.24	92.04	7.95	12.76	PASS
1213.00†	1213.00	0.00	0.00	1206.47	1206.29	-2.04	97.05	91.21	97.30	8.89	11.93	PASS
1313.00†	1313.00	0.00	0.00	1302.80	1302.23	-4.68	105.18	92.55	105.84	9.78	11.70	PASS
1413.00†	1413.00	0.00	0.00	1398.44	1397.16	-8.29	116.29	94.08	117.66	10.63	11.89	PASS
1513.00†	1513.00	0.00	0.00	1493.20	1490.77	-12.83	130.26	95.62	132.76	11.45	12.39	PASS
1600.00	1600.00	0.00	0.00	1574.77	1570.93	-17.50	144.63	96.90	148.56	12.17	13.00	PASS
1613.00†	1613.00	-0.02	0.02	1586.89	1582.79	-18.25	146.95	-40.03	151.11	12.26	13.12	PASS
1713.00†	1712.97	-1.63	1.52	1679.72	1673.36	-24.54	166.31	-38.91	171.03	13.03	13.92	PASS
1813.00†	1812.80	-5.80	5.38	1771.87	1762.56	-31.67	188.28	-38.45	191.43	13.87	14.54	PASS
1913.00†	1912.38	-12.52	11.62	1863.32	1850.31	-39.62	212.77	-38.44	212.24	14.67	15.15	PASS
2013.00†	2011.57	-21.78	20.22	1954.06	1936.53	-48.37	239.68	-38.77	233.46	15.51	15.73	PASS
2113.00†	2110.26	-33.58	31.16	2044.09	2021.12	-57.87	268.94	-39.33	255.10	16.39	16.23	PASS
2129.27	2126.27	-35.74	33.16	2058.66	2034.73	-59.49	273.92	-39.44	258.66	16.51	16.32	PASS
2213.00†	2208.57	-47.01	43.63	2133.20	2103.88	-68.08	300.38	-40.15	278.07	17.06	16.96	PASS
2313.00†	2306.87	-60.48	56.12	2227.03	2190.14	-79.48	335.48	-40.84	303.36	17.80	17.71	PASS
2413.00†	2405.17	-73.94	68.62	2323.67	2278.93	-91.27	371.78	-41.44	328.85	18.58	18.37	PASS
2513.00†	2503.46	-87.41	81.11	2420.32	2367.72	-103.06	408.08	-41.95	354.37	19.40	18.92	PASS
2613.00†	2601.76	-100.87	93.61	2516.96	2456.51	-114.85	444.37	-42.39	379.91	20.26	19.39	PASS
2713.00†	2700.06	-114.34	106.10	2613.61	2545.31	-126.64	480.67	-42.77	405.46	21.16	19.79	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-4NAH PWB Offset Wellpath: ACKARD NORTH 2-35-4NAH PWP (REV. A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#15 ACKARD NORTH 2-35-4NAH (600'FSL & 2145'FWL, SEC.02) Well: ACKARD NORTH 2-35-4NAH 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†	2798.36	-127.80	118.60	2710.25	2634.10	-138.43	516.97	-43.11	431.04	22.09	20.13	PASS
2913.00†	2896.66	-141.27	131.10	2806.90	2722.89	-150.22	553.27	-43.41	456.62	23.04	20.42	PASS
3013.00†	2994.95	-154.73	143.59	2903.54	2811.68	-162.01	589.56	-43.68	482.22	24.01	20.66	PASS
3113.00†	3093.25	-168.20	156.09	3000.19	2900.47	-173.80	625.86	-43.93	507.82	25.01	20.87	PASS
3213.00†	3191.55	-181.67	168.58	3096.84	2989.26	-185.59	662.16	-44.15	533.44	26.02	21.05	PASS
3313.00†	3289.85	-195.13	181.08	3193.48	3078.05	-197.37	698.45	-44.34	559.05	27.05	21.20	PASS
3413.00†	3388.15	-208.60	193.57	3290.13	3166.84	-209.16	734.75	-44.53	584.68	28.09	21.32	PASS
3513.00†	3486.45	-222.06	206.07	3386.77	3255.63	-220.95	771.05	-44.69	610.31	29.15	21.43	PASS
3613.00†	3584.74	-235.53	218.57	3483.42	3344.42	-232.74	807.35	-44.85	635.94	30.22	21.53	PASS
3713.00†	3683.04	-248.99	231.06	3580.06	3433.21	-244.53	843.64	-44.99	661.58	31.29	21.61	PASS
3813.00†	3781.34	-262.46	243.56	3676.71	3522.00	-256.32	879.94	-45.12	687.22	32.38	21.67	PASS
3913.00†	3879.64	-275.92	256.05	3773.35	3610.80	-268.11	916.24	-45.24	712.87	33.48	21.73	PASS
4013.00†	3977.94	-289.39	268.55	3870.00	3699.59	-279.90	952.54	-45.35	738.52	34.58	21.78	PASS
4113.00†	4076.24	-302.85	281.04	3966.64	3788.38	-291.69	988.83	-45.46	764.17	35.69	21.83	PASS
4213.00†	4174.53	-316.32	293.54	4063.29	3877.17	-303.48	1025.13	-45.56	789.82	36.80	21.86	PASS
4313.00†	4272.83	-329.79	306.04	4159.93	3965.96	-315.27	1061.43	-45.65	815.47	37.92	21.89	PASS
4413.00†	4371.13	-343.25	318.53	4256.58	4054.75	-327.06	1097.72	-45.73	841.13	39.05	21.92	PASS
4513.00†	4469.43	-356.72	331.03	4353.22	4143.54	-338.85	1134.02	-45.82	866.79	40.18	21.94	PASS
4613.00†	4567.73	-370.18	343.52	4449.87	4232.33	-350.63	1170.32	-45.89	892.45	41.32	21.96	PASS
4713.00†	4666.02	-383.65	356.02	4546.51	4321.12	-362.42	1206.62	-45.96	918.11	42.46	21.97	PASS
4813.00†	4764.32	-397.11	368.51	4643.16	4409.91	-374.21	1242.91	-46.03	943.77	43.60	21.99	PASS
4913.00†	4862.62	-410.58	381.01	4739.80	4498.70	-386.00	1279.21	-46.10	969.44	44.75	22.00	PASS
5013.00†	4960.92	-424.04	393.51	4836.45	4587.49	-397.79	1315.51	-46.16	995.10	45.90	22.01	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ACKARD NORTH 2-35-4NAH PWB Offset Wellpath: ACKARD NORTH 2-35-4NAH PWP (REV. A.0)

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

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

HOLE & CASING SECTIONS - Offset Wellbore: ACKARD NORTH 2-35-4NAH PWB Offset Wellpath: ACKARD NORTH 2-35-4NAH 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	1789.64	0.16	54.85	-10.29	87.02
8.5in Open Hole	1800.00	17994.78	16194.78	1789.64	7436.00	-10.29	87.02	2926.45	837.10

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: ACKARD NORTH 2-35-4NAH PWP (REV. A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17994.78	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-4NAH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: ACKARD NORTH 2-35-4NAH PWB Offset Wellpath: ACKARD NORTH 2-35-4NAH 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: HSR-VAN SCHAACK #2-11 AWB Offset Wellpath: HSR-VAN SCHAACK #2-11 AWP

Facility: SEC.11-T02S-R66W Slot: SLOT#01 EX HSR-VAN SCHAACK #2-11 (608'FNL & 1956'FEL, SEC.11,8384, PR) Well: HSR-VAN SCHAACK #2-11 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	15.00	-1196.96	1288.33	132.90	1758.55	25.40	71.45	PASS
113.00†	113.00	0.00	0.00	85.00	113.00	-1196.96	1288.33	132.90	1758.55	52.00	34.33	PASS
213.00†	213.00	0.00	0.00	185.00	213.00	-1196.96	1288.33	132.90	1758.55	54.35	32.83	PASS
313.00†	313.00	0.00	0.00	285.00	313.00	-1196.96	1288.33	132.90	1758.55	56.70	31.45	PASS
413.00†	413.00	0.00	0.00	385.00	413.00	-1196.96	1288.33	132.90	1758.55	59.05	30.18	PASS
513.00†	513.00	0.00	0.00	485.00	513.00	-1196.96	1288.33	132.90	1758.55	61.41	29.00	PASS
613.00†	613.00	0.00	0.00	585.00	613.00	-1196.96	1288.33	132.90	1758.55	63.78	27.91	PASS
713.00†	713.00	0.00	0.00	685.00	713.00	-1196.96	1288.33	132.90	1758.55	66.14	26.90	PASS
813.00†	813.00	0.00	0.00	785.00	813.00	-1196.96	1288.33	132.90	1758.55	68.52	25.96	PASS
913.00†	913.00	0.00	0.00	885.00	913.00	-1196.96	1288.33	132.90	1758.55	70.89	25.08	PASS
1013.00†	1013.00	0.00	0.00	985.00	1013.00	-1196.96	1288.33	132.90	1758.55	73.27	24.25	PASS
1113.00†	1113.00	0.00	0.00	1085.00	1113.00	-1196.96	1288.33	132.90	1758.55	75.66	23.48	PASS
1213.00†	1213.00	0.00	0.00	1185.00	1213.00	-1196.96	1288.33	132.90	1758.55	78.04	22.76	PASS
1313.00†	1313.00	0.00	0.00	1285.00	1313.00	-1196.96	1288.33	132.90	1758.55	80.43	22.07	PASS
1413.00†	1413.00	0.00	0.00	1385.00	1413.00	-1196.96	1288.33	132.90	1758.55	82.83	21.43	PASS
1513.00†	1513.00	0.00	0.00	1485.00	1513.00	-1196.96	1288.33	132.90	1758.55	85.23	20.82	PASS
1600.00	1600.00	0.00	0.00	1572.00	1600.00	-1196.96	1288.33	132.90	1758.55	87.32	20.32	PASS
1613.00†	1613.00	-0.02	0.02	1585.00	1613.00	-1196.96	1288.33	-4.25	1758.52	87.63	20.24	PASS
1713.00†	1712.97	-1.63	1.52	1684.97	1712.97	-1196.96	1288.33	-4.25	1756.33	90.05	19.67	PASS
1813.00†	1812.80	-5.80	5.38	1784.80	1812.80	-1196.96	1288.33	-4.28	1750.66	92.43	19.08	PASS
1913.00†	1912.38	-12.52	11.62	1884.38	1912.38	-1196.96	1288.33	-4.31	1741.52	94.89	18.48	PASS
2013.00†	2011.57	-21.78	20.22	1983.57	2011.57	-1196.96	1288.33	-4.36	1728.92	97.35	17.88	PASS
2113.00†	2110.26	-33.58	31.16	2082.26	2110.26	-1196.96	1288.33	-4.43	1712.87	99.80	17.28	PASS
2129.27	2126.27	-35.74	33.16	2098.27	2126.27	-1196.96	1288.33	-4.44	1709.94	100.20	17.18	PASS
2213.00†	2208.57	-47.01	43.63	2180.57	2208.57	-1196.96	1288.33	-4.48	1694.60	102.19	16.69	PASS
2313.00†	2306.87	-60.48	56.12	2278.87	2306.87	-1196.96	1288.33	-4.53	1676.29	104.59	16.13	PASS
2413.00†	2405.17	-73.94	68.62	2377.17	2405.17	-1196.96	1288.33	-4.58	1657.97	106.98	15.59	PASS
2513.00†	2503.46	-87.41	81.11	2475.46	2503.46	-1196.96	1288.33	-4.63	1639.66	109.38	15.08	PASS
2613.00†	2601.76	-100.87	93.61	2573.76	2601.76	-1196.96	1288.33	-4.68	1621.35	111.79	14.59	PASS
2713.00†	2700.06	-114.34	106.10	2672.06	2700.06	-1196.96	1288.33	-4.74	1603.04	114.20	14.12	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: HSR-VAN SCHAACK #2-11 AWB Offset Wellpath: HSR-VAN SCHAACK #2-11 AWP

Facility: SEC.11-T02S-R66W Slot: SLOT#01 EX HSR-VAN SCHAACK #2-11 (608'FNL & 1956'FEL, SEC.11,8384, PR) Well: HSR-VAN SCHAACK #2-11 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†	2798.36	-127.80	118.60	2770.36	2798.36	-1196.96	1288.33	-4.79	1584.73	116.62	13.67	PASS
2913.00†	2896.66	-141.27	131.10	2868.66	2896.66	-1196.96	1288.33	-4.85	1566.42	119.04	13.23	PASS
3013.00†	2994.95	-154.73	143.59	2966.95	2994.95	-1196.96	1288.33	-4.91	1548.12	121.47	12.81	PASS
3113.00†	3093.25	-168.20	156.09	3065.25	3093.25	-1196.96	1288.33	-4.97	1529.81	123.90	12.41	PASS
3213.00†	3191.55	-181.67	168.58	3163.55	3191.55	-1196.96	1288.33	-5.03	1511.51	126.33	12.03	PASS
3313.00†	3289.85	-195.13	181.08	3261.85	3289.85	-1196.96	1288.33	-5.09	1493.21	128.77	11.65	PASS
3413.00†	3388.15	-208.60	193.57	3360.15	3388.15	-1196.96	1288.33	-5.15	1474.91	131.21	11.30	PASS
3513.00†	3486.45	-222.06	206.07	3458.45	3486.45	-1196.96	1288.33	-5.22	1456.61	133.66	10.95	PASS
3613.00†	3584.74	-235.53	218.57	3556.74	3584.74	-1196.96	1288.33	-5.28	1438.32	136.12	10.62	PASS
3713.00†	3683.04	-248.99	231.06	3655.04	3683.04	-1196.96	1288.33	-5.35	1420.02	138.57	10.29	PASS
3813.00†	3781.34	-262.46	243.56	3753.34	3781.34	-1196.96	1288.33	-5.42	1401.73	141.03	9.98	PASS
3913.00†	3879.64	-275.92	256.05	3851.64	3879.64	-1196.96	1288.33	-5.49	1383.44	143.50	9.68	PASS
4013.00†	3977.94	-289.39	268.55	3949.94	3977.94	-1196.96	1288.33	-5.57	1365.15	145.97	9.39	PASS
4113.00†	4076.24	-302.85	281.04	4048.24	4076.24	-1196.96	1288.33	-5.64	1346.87	148.44	9.11	PASS
4213.00†	4174.53	-316.32	293.54	4146.53	4174.53	-1196.96	1288.33	-5.72	1328.58	150.92	8.84	PASS
4313.00†	4272.83	-329.79	306.04	4244.83	4272.83	-1196.96	1288.33	-5.80	1310.30	153.40	8.58	PASS
4413.00†	4371.13	-343.25	318.53	4343.13	4371.13	-1196.96	1288.33	-5.88	1292.03	155.89	8.32	PASS
4513.00†	4469.43	-356.72	331.03	4441.43	4469.43	-1196.96	1288.33	-5.97	1273.75	158.38	8.07	PASS
4613.00†	4567.73	-370.18	343.52	4539.73	4567.73	-1196.96	1288.33	-6.05	1255.48	160.87	7.83	PASS
4713.00†	4666.02	-383.65	356.02	4638.02	4666.02	-1196.96	1288.33	-6.14	1237.21	163.37	7.60	PASS
4813.00†	4764.32	-397.11	368.51	4736.32	4764.32	-1196.96	1288.33	-6.24	1218.94	165.87	7.38	PASS
4913.00†	4862.62	-410.58	381.01	4834.62	4862.62	-1196.96	1288.33	-6.33	1200.68	168.38	7.16	PASS
5013.00†	4960.92	-424.04	393.51	4932.92	4960.92	-1196.96	1288.33	-6.43	1182.42	170.89	6.94	PASS
5113.00†	5059.22	-437.51	406.00	5031.22	5059.22	-1196.96	1288.33	-6.53	1164.16	173.40	6.74	PASS
5213.00†	5157.52	-450.98	418.50	5129.52	5157.52	-1196.96	1288.33	-6.63	1145.91	175.91	6.54	PASS
5313.00†	5255.81	-464.44	430.99	5227.81	5255.81	-1196.96	1288.33	-6.74	1127.66	178.43	6.34	PASS
5413.00†	5354.11	-477.91	443.49	5326.11	5354.11	-1196.96	1288.33	-6.85	1109.41	180.96	6.15	PASS
5513.00†	5452.41	-491.37	455.98	5424.41	5452.41	-1196.96	1288.33	-6.97	1091.17	183.48	5.97	PASS
5613.00†	5550.71	-504.84	468.48	5522.71	5550.71	-1196.96	1288.33	-7.09	1072.94	186.01	5.79	PASS
5713.00†	5649.01	-518.30	480.98	5621.01	5649.01	-1196.96	1288.33	-7.21	1054.70	188.55	5.61	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: HSR-VAN SCHAACK #2-11 AWB Offset Wellpath: HSR-VAN SCHAACK #2-11 AWP

Facility: SEC.11-T02S-R66W Slot: SLOT#01 EX HSR-VAN SCHAACK #2-11 (608'FNL & 1956'FEL, SEC.11,8384, PR) Well: HSR-VAN SCHAACK #2-11 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†	5747.30	-531.77	493.47	5719.30	5747.30	-1196.96	1288.33	-7.34	1036.48	191.08	5.44	PASS
5913.00†	5845.60	-545.23	505.97	5817.60	5845.60	-1196.96	1288.33	-7.47	1018.25	193.62	5.27	PASS
6013.00†	5943.90	-558.70	518.46	5915.90	5943.90	-1196.96	1288.33	-7.61	1000.04	196.17	5.11	PASS
6113.00†	6042.20	-572.16	530.96	6014.20	6042.20	-1196.96	1288.33	-7.75	981.83	198.71	4.96	PASS
6213.00†	6140.50	-585.63	543.45	6112.50	6140.50	-1196.96	1288.33	-7.90	963.62	201.26	4.80	PASS
6313.00†	6238.80	-599.10	555.95	6210.80	6238.80	-1196.96	1288.33	-8.05	945.42	203.82	4.65	PASS
6413.00†	6337.09	-612.56	568.45	6309.09	6337.09	-1196.96	1288.33	-8.21	927.23	206.37	4.51	PASS
6513.00†	6435.39	-626.03	580.94	6407.39	6435.39	-1196.96	1288.33	-8.37	909.05	208.93	4.36	PASS
6613.00†	6533.69	-639.49	593.44	6505.69	6533.69	-1196.96	1288.33	-8.54	890.87	211.50	4.22	PASS
6713.00†	6631.99	-652.96	605.93	6603.99	6631.99	-1196.96	1288.33	-8.72	872.70	214.06	4.09	PASS
6813.00†	6730.29	-666.42	618.43	6702.29	6730.29	-1196.96	1288.33	-8.91	854.54	216.64	3.95	PASS
6913.00†	6828.59	-679.89	630.92	6800.59	6828.59	-1196.96	1288.33	-9.11	836.39	219.21	3.82	PASS
7013.00†	6926.88	-693.35	643.42	6898.88	6926.88	-1196.96	1288.33	-9.31	818.25	221.79	3.70	PASS
7105.70	7018.00	-705.84	655.00	6990.00	7018.00	-1196.96	1288.33	-9.51	801.44	224.18	3.58	PASS
7113.00†	7025.19	-706.77	655.92	6997.19	7025.19	-1196.96	1288.33	-6.59	800.14	224.37	3.57	PASS
7213.00†	7124.20	-710.27	668.49	7096.20	7124.20	-1196.96	1288.33	60.91	788.08	227.10	3.48	PASS
7271.92†	7182.32	-704.18	675.87	7154.34	7182.34	-1196.96	1288.33	89.99	786.09	229.06	3.44	PASS
7313.00†	7222.32	-696.39	680.94	7194.32	7222.32	-1196.96	1288.33	100.55	787.08	230.43	3.42	PASS
7362.94†	7270.05	-683.06	686.99	7242.04	7270.04	-1196.96	1288.33	108.34	791.02	240.28	3.30	PASS
7413.00†	7316.56	-665.54	692.88	7288.56	7316.56	-1196.96	1288.33	113.31	798.11	233.82	3.42	PASS
7513.00†	7404.05	-618.66	703.94	7376.05	7404.05	-1196.96	1288.33	119.09	822.15	236.70	3.48	PASS
7613.00†	7482.14	-557.19	713.80	7454.14	7482.14	-1196.96	1288.33	121.73	859.88	239.43	3.60	PASS
7713.00†	7548.46	-482.98	722.15	7520.46	7548.46	-1196.96	1288.33	121.93	911.23	242.02	3.77	PASS
7813.00†	7600.98	-398.29	728.74	7572.98	7600.98	-1196.96	1288.33	119.41	975.21	244.36	4.00	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

POSITIONAL UNCERTAINTY - Offset Wellbore: HSR-VAN SCHAACK #2-11 AWB Offset Wellpath: HSR-VAN SCHAACK #2-11 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: HSR-VAN SCHAACK #2-11 AWB Offset Wellpath: HSR-VAN SCHAACK #2-11 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8384.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8384>	HSR-VAN SCHAACK #2-11 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HSR-VAN SCHAACK #2-11 AWB Offset Wellpath: HSR-VAN SCHAACK #2-11 AWP

MD Reference: **Rig on SLOT#01 EX HSR-VAN SCHAACK #2-11 (608'FNL & 1956'FEL, SEC.11,8384, 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-4CDH PWB** Offset Wellpath: **ACKARD NORTH 2-35-4CDH PWP (REV. A.0)**

Facility: SEC.02-T03S-R66W Slot: SLOT#16 ACKARD NORTH 2-35-4CDH (600'FSL & 2160'FWL, SEC.02) Well: ACKARD NORTH 2-35-4CDH 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	0.31	104.99	89.83	104.99	1.40	173.65	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	0.31	104.99	89.83	104.99	1.72	113.81	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	0.31	104.99	89.83	104.99	2.28	70.42	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	0.31	104.99	89.83	104.99	2.88	50.07	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	0.31	104.99	89.83	104.99	3.50	38.67	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	0.31	104.99	89.83	104.99	4.12	31.44	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	0.31	104.99	89.83	104.99	4.74	26.47	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	0.31	104.99	89.83	104.99	5.36	22.85	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	0.31	104.99	89.83	104.99	5.99	20.10	PASS
913.00†	913.00	0.00	0.00	912.56	912.56	0.30	105.02	89.84	105.02	6.61	17.94	PASS
1013.00†	1013.00	0.00	0.00	1009.11	1009.08	-0.27	106.98	90.14	107.06	7.33	16.27	PASS
1113.00†	1113.00	0.00	0.00	1105.41	1105.24	-1.75	112.06	90.89	112.34	8.30	14.88	PASS
1213.00†	1213.00	0.00	0.00	1201.25	1200.70	-4.11	120.18	91.96	120.88	9.21	14.29	PASS
1313.00†	1313.00	0.00	0.00	1296.42	1295.16	-7.34	131.28	93.20	132.69	10.09	14.20	PASS
1413.00†	1413.00	0.00	0.00	1390.72	1388.32	-11.40	145.25	94.49	147.77	10.89	14.57	PASS
1513.00†	1513.00	0.00	0.00	1483.96	1479.92	-16.26	161.94	95.73	166.08	11.70	15.17	PASS
1600.00	1600.00	0.00	0.00	1564.07	1558.14	-21.09	178.56	96.74	184.61	12.36	15.91	PASS
1613.00†	1613.00	-0.02	0.02	1575.96	1569.70	-21.86	181.21	-40.23	187.56	12.45	16.03	PASS
1713.00†	1712.97	-1.63	1.52	1667.00	1657.87	-28.20	202.99	-39.26	210.56	13.22	16.88	PASS
1813.00†	1812.80	-5.80	5.38	1757.28	1744.55	-35.25	227.24	-38.84	233.98	14.04	17.56	PASS
1913.00†	1912.38	-12.52	11.62	1846.80	1829.66	-43.00	253.86	-38.81	257.78	14.83	18.21	PASS
2013.00†	2011.57	-21.78	20.22	1935.54	1913.13	-51.40	282.75	-39.05	281.94	15.69	18.77	PASS
2113.00†	2110.26	-33.58	31.16	2023.48	1994.91	-60.44	313.82	-39.51	306.47	16.46	19.41	PASS
2129.27	2126.27	-35.74	33.16	2037.72	2008.05	-61.97	319.08	-39.60	310.50	16.58	19.52	PASS
2213.00†	2208.57	-47.01	43.63	2113.50	2077.59	-70.37	347.97	-40.29	332.15	17.17	20.13	PASS
2313.00†	2306.87	-60.48	56.12	2209.85	2165.84	-81.18	385.11	-41.05	358.54	17.91	20.80	PASS
2413.00†	2405.17	-73.94	68.62	2306.21	2254.09	-91.99	422.26	-41.70	384.99	18.71	21.35	PASS
2513.00†	2503.46	-87.41	81.11	2402.56	2342.33	-102.79	459.41	-42.26	411.47	19.54	21.81	PASS
2613.00†	2601.76	-100.87	93.61	2498.91	2430.58	-113.60	496.56	-42.76	437.99	20.41	22.19	PASS
2713.00†	2700.06	-114.34	106.10	2595.27	2518.83	-124.41	533.71	-43.20	464.53	21.32	22.50	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-4CDH PWB Offset Wellpath: ACKARD NORTH 2-35-4CDH PWP (REV. A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#16 ACKARD NORTH 2-35-4CDH (600'FSL & 2160'FWL, SEC.02) Well: ACKARD NORTH 2-35-4CDH 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†	2798.36	-127.80	118.60	2691.62	2607.07	-135.21	570.85	-43.60	491.10	22.25	22.76	PASS
2913.00†	2896.66	-141.27	131.10	2787.98	2695.32	-146.02	608.00	-43.95	517.69	23.22	22.97	PASS
3013.00†	2994.95	-154.73	143.59	2884.33	2783.57	-156.83	645.15	-44.27	544.29	24.20	23.14	PASS
3113.00†	3093.25	-168.20	156.09	2980.69	2871.81	-167.63	682.30	-44.56	570.91	25.21	23.27	PASS
3213.00†	3191.55	-181.67	168.58	3077.04	2960.06	-178.44	719.44	-44.82	597.54	26.23	23.38	PASS
3313.00†	3289.85	-195.13	181.08	3173.39	3048.30	-189.25	756.59	-45.06	624.18	27.27	23.47	PASS
3413.00†	3388.15	-208.60	193.57	3269.75	3136.55	-200.05	793.74	-45.28	650.83	28.33	23.54	PASS
3513.00†	3486.45	-222.06	206.07	3366.10	3224.80	-210.86	830.89	-45.49	677.48	29.39	23.59	PASS
3613.00†	3584.74	-235.53	218.57	3462.46	3313.04	-221.67	868.04	-45.68	704.15	30.47	23.63	PASS
3713.00†	3683.04	-248.99	231.06	3558.81	3401.29	-232.47	905.18	-45.85	730.82	31.56	23.66	PASS
3813.00†	3781.34	-262.46	243.56	3655.17	3489.54	-243.28	942.33	-46.01	757.50	32.66	23.68	PASS
3913.00†	3879.64	-275.92	256.05	3751.52	3577.78	-254.09	979.48	-46.16	784.18	33.77	23.70	PASS
4013.00†	3977.94	-289.39	268.55	3847.88	3666.03	-264.89	1016.63	-46.31	810.87	34.89	23.70	PASS
4113.00†	4076.24	-302.85	281.04	3944.23	3754.28	-275.70	1053.77	-46.44	837.56	36.01	23.71	PASS
4213.00†	4174.53	-316.32	293.54	4040.58	3842.52	-286.51	1090.92	-46.56	864.26	37.14	23.70	PASS
4313.00†	4272.83	-329.79	306.04	4136.94	3930.77	-297.31	1128.07	-46.68	890.96	38.27	23.70	PASS
4413.00†	4371.13	-343.25	318.53	4233.29	4019.01	-308.12	1165.22	-46.79	917.66	39.41	23.69	PASS
4513.00†	4469.43	-356.72	331.03	4329.65	4107.26	-318.93	1202.37	-46.89	944.37	40.56	23.68	PASS
4613.00†	4567.73	-370.18	343.52	4426.00	4195.51	-329.73	1239.51	-46.99	971.07	41.71	23.67	PASS
4713.00†	4666.02	-383.65	356.02	4522.36	4283.75	-340.54	1276.66	-47.08	997.78	42.86	23.65	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ACKARD NORTH 2-35-4CDH PWB Offset Wellpath: ACKARD NORTH 2-35-4CDH 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

HOLE & CASING SECTIONS - Offset Wellbore: ACKARD NORTH 2-35-4CDH PWB Offset Wellpath: ACKARD NORTH 2-35-4CDH 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	1785.27	0.19	64.00	-11.75	105.04
8.5in Open Hole	1800.00	18444.07	16644.07	1785.27	7823.00	-11.75	105.04	2926.70	872.14

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: ACKARD NORTH 2-35-4CDH PWP (REV. A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	18444.07	Custom BHI NaviTrak (Standard Rotating) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-4CDH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: ACKARD NORTH 2-35-4CDH PWB Offset Wellpath: ACKARD NORTH 2-35-4CDH 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-1NAH PWB** Offset Wellpath: **ACKARD NORTH 2-35-1NAH PWP (REV-A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#02 ACKARD NORTH 2-35-1NAH (600'FSL & 1950'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-1NAH** **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	13.00	13.00	-0.24	-104.96	-90.13	104.96	1.40	173.60	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.24	-104.96	-90.13	104.96	1.72	113.04	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.24	-104.96	-90.13	104.96	2.29	69.88	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.24	-104.96	-90.13	104.96	2.90	49.75	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.24	-104.96	-90.13	104.96	3.51	38.46	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.24	-104.96	-90.13	104.96	4.13	31.29	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.24	-104.96	-90.13	104.96	4.75	26.36	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.24	-104.96	-90.13	104.96	5.38	22.77	PASS
813.00†	813.00	0.00	0.00	813.00	813.00	-0.24	-104.96	-90.13	104.96	6.00	20.03	PASS
913.00†	913.00	0.00	0.00	912.60	912.60	-0.25	-104.99	-90.14	104.99	6.63	17.89	PASS
1013.00†	1013.00	0.00	0.00	1009.51	1009.48	-1.32	-106.75	-90.71	106.82	7.33	16.24	PASS
1113.00†	1113.00	0.00	0.00	1106.16	1105.98	-4.07	-111.31	-92.10	111.60	8.24	14.90	PASS
1213.00†	1213.00	0.00	0.00	1202.34	1201.78	-8.48	-118.60	-94.09	119.43	9.12	14.26	PASS
1313.00†	1313.00	0.00	0.00	1297.85	1296.57	-14.50	-128.57	-96.44	130.42	10.00	14.09	PASS
1413.00†	1413.00	0.00	0.00	1392.47	1390.05	-22.07	-141.10	-98.89	144.65	10.82	14.36	PASS
1513.00†	1513.00	0.00	0.00	1486.02	1481.94	-31.13	-156.08	-101.28	162.16	11.64	14.88	PASS
1600.00	1600.00	0.00	0.00	1566.40	1560.41	-40.14	-171.00	-103.21	180.06	12.31	15.58	PASS
1613.00†	1613.00	-0.02	0.02	1578.32	1572.00	-41.57	-173.38	119.33	182.96	12.40	15.71	PASS
1713.00†	1712.97	-1.63	1.52	1674.55	1665.45	-53.44	-193.02	117.46	206.84	13.05	16.83	PASS
1813.00†	1812.80	-5.80	5.38	1771.22	1759.32	-65.38	-212.77	116.62	232.38	13.67	17.94	PASS
1913.00†	1912.38	-12.52	11.62	1867.47	1852.79	-77.26	-232.44	116.54	259.43	14.36	18.96	PASS
2013.00†	2011.57	-21.78	20.22	1963.18	1945.74	-89.08	-251.99	117.00	288.03	15.02	20.08	PASS
2113.00†	2110.26	-33.58	31.16	2058.24	2038.04	-100.81	-271.42	117.82	318.26	15.79	21.06	PASS
2129.27	2126.27	-35.74	33.16	2073.63	2053.00	-102.71	-274.57	117.98	323.34	15.92	21.21	PASS
2213.00†	2208.57	-47.01	43.63	2152.81	2129.88	-112.49	-290.74	119.21	349.69	16.56	22.01	PASS
2313.00†	2306.87	-60.48	56.12	2247.38	2221.71	-124.16	-310.07	120.46	381.32	17.37	22.85	PASS
2413.00†	2405.17	-73.94	68.62	2341.94	2313.55	-135.84	-329.39	121.51	413.08	18.20	23.58	PASS
2513.00†	2503.46	-87.41	81.11	2436.51	2405.38	-147.51	-348.71	122.42	444.96	19.06	24.21	PASS
2613.00†	2601.76	-100.87	93.61	2531.07	2497.21	-159.19	-368.04	123.21	476.92	19.93	24.77	PASS
2713.00†	2700.06	-114.34	106.10	2625.64	2589.04	-170.86	-387.36	123.89	508.95	20.83	25.26	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-1NAH PWB Offset Wellpath: ACKARD NORTH 2-35-1NAH PWP (REV-A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#02 ACKARD NORTH 2-35-1NAH (600'FSL & 1950'FWL, SEC.02) Well: ACKARD NORTH 2-35-1NAH 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†	2798.36	-127.80	118.60	2720.20	2680.87	-182.54	-406.69	124.50	541.04	21.73	25.70	PASS
2913.00†	2896.66	-141.27	131.10	2814.77	2772.70	-194.22	-426.01	125.04	573.18	22.66	26.08	PASS
3013.00†	2994.95	-154.73	143.59	2909.33	2864.53	-205.89	-445.33	125.52	605.36	23.59	26.42	PASS
3113.00†	3093.25	-168.20	156.09	3003.89	2956.36	-217.57	-464.66	125.95	637.57	24.54	26.73	PASS
3213.00†	3191.55	-181.67	168.58	3098.46	3048.19	-229.24	-483.98	126.34	669.82	25.49	27.00	PASS
3313.00†	3289.85	-195.13	181.08	3193.02	3140.02	-240.92	-503.30	126.70	702.08	26.45	27.25	PASS
3413.00†	3388.15	-208.60	193.57	3287.59	3231.85	-252.59	-522.63	127.02	734.38	27.42	27.47	PASS
3513.00†	3486.45	-222.06	206.07	3382.15	3323.68	-264.27	-541.95	127.32	766.69	28.39	27.67	PASS
3613.00†	3584.74	-235.53	218.57	3476.72	3415.51	-275.94	-561.27	127.59	799.01	29.37	27.85	PASS
3713.00†	3683.04	-248.99	231.06	3571.28	3507.34	-287.62	-580.60	127.84	831.35	30.36	28.02	PASS
3813.00†	3781.34	-262.46	243.56	3665.85	3599.17	-299.29	-599.92	128.07	863.71	31.35	28.17	PASS
3913.00†	3879.64	-275.92	256.05	3760.41	3691.00	-310.97	-619.24	128.29	896.08	32.34	28.31	PASS
4013.00†	3977.94	-289.39	268.55	3854.98	3782.83	-322.64	-638.57	128.49	928.46	33.34	28.43	PASS
4113.00†	4076.24	-302.85	281.04	3949.54	3874.66	-334.32	-657.89	128.68	960.84	34.34	28.55	PASS
4213.00†	4174.53	-316.32	293.54	4044.11	3966.49	-345.99	-677.21	128.85	993.24	35.34	28.66	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ACKARD NORTH 2-35-1NAH PWB Offset Wellpath: ACKARD NORTH 2-35-1NAH 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: ACKARD NORTH 2-35-1NAH PWB Offset Wellpath: ACKARD NORTH 2-35-1NAH 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	13.00	1800.00	1787.00	13.00	1787.28	-0.14	-63.98	-21.08	-98.64
8.5in Open Hole	1800.00	17683.47	15883.47	1787.28	7468.00	-21.08	-98.64	2915.86	-495.29

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION			
Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: ACKARD NORTH 2-35-1NAH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	17683.47	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-1NAH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: ACKARD NORTH 2-35-1NAH PWB Offset Wellpath: ACKARD NORTH 2-35-1NAH 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	**13.00ft**

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: **ACKARD NORTH 2-35-1CDH PWB** Offset Wellpath: **ACKARD NORTH 2-35-1CDH PWP (REV-A.0)**

Facility: SEC.02-T03S-R66W **Slot: SLOT#01 ACKARD NORTH 2-35-1CDH (600'FSL & 1935'FWL, SEC.02)** **Well: ACKARD NORTH 2-35-1CDH** **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	-0.29	-119.97	-90.14	119.97	1.40	198.62	PASS
113.00†	113.00	0.00	0.00	113.00	113.00	-0.29	-119.97	-90.14	119.97	1.72	129.28	PASS
213.00†	213.00	0.00	0.00	213.00	213.00	-0.29	-119.97	-90.14	119.97	2.29	79.91	PASS
313.00†	313.00	0.00	0.00	313.00	313.00	-0.29	-119.97	-90.14	119.97	2.90	56.89	PASS
413.00†	413.00	0.00	0.00	413.00	413.00	-0.29	-119.97	-90.14	119.97	3.51	43.98	PASS
513.00†	513.00	0.00	0.00	513.00	513.00	-0.29	-119.97	-90.14	119.97	4.13	35.79	PASS
613.00†	613.00	0.00	0.00	613.00	613.00	-0.29	-119.97	-90.14	119.97	4.75	30.16	PASS
713.00†	713.00	0.00	0.00	713.00	713.00	-0.29	-119.97	-90.14	119.97	5.38	26.04	PASS
813.00†	813.00	0.00	0.00	812.54	812.54	-0.31	-120.00	-90.15	120.00	6.00	22.93	PASS
913.00†	913.00	0.00	0.00	908.92	908.89	-1.27	-121.80	-90.60	121.87	6.72	20.47	PASS
1013.00†	1013.00	0.00	0.00	1005.05	1004.88	-3.75	-126.44	-91.70	126.76	7.66	18.37	PASS
1113.00†	1113.00	0.00	0.00	1100.72	1100.17	-7.72	-133.88	-93.30	134.72	8.56	17.26	PASS
1213.00†	1213.00	0.00	0.00	1195.73	1194.47	-13.14	-144.05	-95.21	145.83	9.45	16.77	PASS
1313.00†	1313.00	0.00	0.00	1289.87	1287.48	-19.96	-156.83	-97.25	160.14	10.25	16.86	PASS
1413.00†	1413.00	0.00	0.00	1382.95	1378.93	-28.12	-172.12	-99.28	177.70	11.10	17.17	PASS
1513.00†	1513.00	0.00	0.00	1474.80	1468.58	-37.53	-189.77	-101.19	198.48	11.87	17.86	PASS
1600.00	1600.00	0.00	0.00	1557.60	1548.94	-46.90	-207.33	-102.75	218.61	12.43	18.73	PASS
1613.00†	1613.00	-0.02	0.02	1570.21	1561.18	-48.34	-210.02	119.85	221.67	12.51	18.86	PASS
1713.00†	1712.97	-1.63	1.52	1667.08	1655.18	-59.36	-230.67	118.40	246.14	13.13	19.90	PASS
1813.00†	1812.80	-5.80	5.38	1763.60	1748.85	-70.34	-251.25	117.77	272.25	13.81	20.80	PASS
1913.00†	1912.38	-12.52	11.62	1859.66	1842.06	-81.27	-271.74	117.74	299.94	14.40	21.86	PASS
2013.00†	2011.57	-21.78	20.22	1955.14	1934.70	-92.13	-292.09	118.16	329.23	15.12	22.79	PASS
2113.00†	2110.26	-33.58	31.16	2049.91	2026.67	-102.91	-312.30	118.90	360.22	15.90	23.67	PASS
2129.27	2126.27	-35.74	33.16	2065.26	2041.56	-104.66	-315.57	119.04	365.43	16.03	23.81	PASS
2213.00†	2208.57	-47.01	43.63	2144.17	2118.13	-113.63	-332.40	120.20	392.44	16.67	24.54	PASS
2313.00†	2306.87	-60.48	56.12	2238.43	2209.59	-124.36	-352.50	121.40	424.86	17.47	25.30	PASS
2413.00†	2405.17	-73.94	68.62	2332.68	2301.05	-135.08	-372.59	122.42	457.43	18.30	25.96	PASS
2513.00†	2503.46	-87.41	81.11	2426.93	2392.51	-145.80	-392.69	123.31	490.11	19.15	26.54	PASS
2613.00†	2601.76	-100.87	93.61	2521.18	2483.97	-156.52	-412.78	124.09	522.88	20.02	27.04	PASS
2713.00†	2700.06	-114.34	106.10	2615.43	2575.43	-167.25	-432.88	124.78	555.73	20.91	27.48	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: ACKARD NORTH 2-35-1CDH PWB Offset Wellpath: ACKARD NORTH 2-35-1CDH PWP (REV-A.0)

Facility: SEC.02-T03S-R66W Slot: SLOT#01 ACKARD NORTH 2-35-1CDH (600'FSL & 1935'FWL, SEC.02) Well: ACKARD NORTH 2-35-1CDH 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†	2798.36	-127.80	118.60	2709.69	2666.88	-177.97	-452.98	125.39	588.64	21.81	27.87	PASS
2913.00†	2896.66	-141.27	131.10	2803.94	2758.34	-188.69	-473.07	125.94	621.61	22.72	28.21	PASS
3013.00†	2994.95	-154.73	143.59	2898.19	2849.80	-199.41	-493.17	126.43	654.62	23.64	28.51	PASS
3113.00†	3093.25	-168.20	156.09	2992.44	2941.26	-210.14	-513.26	126.87	687.67	24.58	28.78	PASS
3213.00†	3191.55	-181.67	168.58	3086.69	3032.72	-220.86	-533.36	127.28	720.76	25.52	29.02	PASS
3313.00†	3289.85	-195.13	181.08	3180.95	3124.18	-231.58	-553.46	127.65	753.87	26.47	29.23	PASS
3413.00†	3388.15	-208.60	193.57	3275.20	3215.63	-242.30	-573.55	127.98	787.01	27.43	29.43	PASS
3513.00†	3486.45	-222.06	206.07	3369.45	3307.09	-253.02	-593.65	128.29	820.17	28.39	29.60	PASS
3613.00†	3584.74	-235.53	218.57	3463.70	3398.55	-263.75	-613.75	128.58	853.35	29.36	29.76	PASS
3713.00†	3683.04	-248.99	231.06	3557.95	3490.01	-274.47	-633.84	128.84	886.55	30.33	29.90	PASS
3813.00†	3781.34	-262.46	243.56	3652.21	3581.47	-285.19	-653.94	129.09	919.76	31.31	30.03	PASS
3913.00†	3879.64	-275.92	256.05	3746.46	3672.93	-295.91	-674.03	129.32	952.99	32.29	30.15	PASS
4013.00†	3977.94	-289.39	268.55	3840.71	3764.38	-306.64	-694.13	129.53	986.23	33.28	30.26	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: ACKARD NORTH 2-35-1CDH PWB Offset Wellpath: ACKARD NORTH 2-35-1CDH 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: ACKARD NORTH 2-35-1CDH PWB Offset Wellpath: ACKARD NORTH 2-35-1CDH 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	1784.16	-0.18	-73.13	-22.79	-115.52
8.5in Open Hole	1800.00	18089.51	16289.51	1784.16	7855.00	-22.79	-115.52	2915.59	-530.33

Clearance Report

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION			
Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

SURVEY PROGRAM - Offset Wellbore: Offset Wellpath: ACKARD NORTH 2-35-1CDH PWP (REV-A.0)

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
13.00	18089.51	Custom BHI NaviTrak (Standard Rotating+Axial Corr) (Rockies 0.03Gt model)		ACKARD NORTH 2-35-1CDH PWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: ACKARD NORTH 2-35-1CDH PWB Offset Wellpath: ACKARD NORTH 2-35-1CDH 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: MAUL #2 AWB Offset Wellpath: MAUL #2 AWP

Facility: SEC.26-T01S-R66W Slot: SLOT#02 EX MAUL #2 (859'FSL & 1800'FEL, SEC.26,8280, PR) Well: MAUL #2 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	69.00	10830.34	1429.89	7.52	10924.46	25.40	444.02	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: MAUL #2 AWB Offset Wellpath: MAUL #2 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: MAUL #2 AWB Offset Wellpath: MAUL #2 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8280.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8280>	MAUL #2 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: MAUL #2 AWB Offset Wellpath: MAUL #2 AWP

MD Reference: **Rig on SLOT#02 EX MAUL #2 (859'FSL & 1800'FEL, SEC.26,8280, 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: SLOT#01 EX CHAMPLIN 117 AMOCO G#1 AWB Offset Wellpath: SLOT#01 EX CHAMPLIN 117 AMOCO G#1 AWP

Facility: SEC.35-T01S-R66W Slot: SLOT#02 EX CHAMPLIN 117 AMOCO G#1 (1980'FSL & 660'FEL, SEC.35, PA,8360) Well: SLOT#01 EX CHAMPLIN 117 AMOCO G#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	3.00	13.00	6610.50	2549.65	21.09	7085.15	50.08	143.77	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: SLOT#01 EX CHAMPLIN 117 AMOCO G#1 AWB Offset Wellpath: SLOT#01 EX CHAMPLIN 117 AMOCO G#1 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: SLOT#01 EX CHAMPLIN 117 AMOCO G#1 AWB Offset Wellpath: SLOT#01 EX CHAMPLIN 117 AMOCO G#1 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8360.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8360>	SLOT#01 EX CHAMPLIN 117 AMOCO G#1 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: SLOT#01 EX CHAMPLIN 117 AMOCO G#1 AWB Offset Wellpath: SLOT#01 EX CHAMPLIN 117 AMOCO G#1 AWP

MD Reference: **Rig on SLOT#02 EX CHAMPLIN 117 AMOCO G#1 (1980'FSL & 660'FEL, SEC.35, PA,8360) (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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: MAUL #44-26 AWB Offset Wellpath: MAUL #44-26 AWP

Facility: SEC.26-T01S-R66W Slot: SLOT#01 EX MAUL #44-26 (660'FSL & 652'FEL, SEC.26,8289, PR) Well: MAUL #44-26 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	57.00	10621.47	2559.12	13.55	10925.50	25.40	444.06	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: MAUL #44-26 AWB Offset Wellpath: MAUL #44-26 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: MAUL #44-26 AWB Offset Wellpath: MAUL #44-26 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8289.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8289>	MAUL #44-26 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: MAUL #44-26 AWB Offset Wellpath: MAUL #44-26 AWP

MD Reference: **Rig on SLOT#01 MAUL #44-26 (660'FSL & 652'FEL, SEC.26,8289, 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: CHAMPLIN 117 AMOCO G#5 AWB Offset Wellpath: CHAMPLIN 117 AMOCO G#5 AWP

Facility: SEC.35-T01S-R66W Slot: SLOT#02 EX CHAMPLIN 117 AMOCO G #5 (1980'FNL & 660'FWL, SEC.35,8340,PR) Well: CHAMPLIN 117 AMOCO G#5 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	47.00	7903.34	-1423.93	-10.21	8030.66	25.40	326.40	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: CHAMPLIN 117 AMOCO G#5 AWB Offset Wellpath: CHAMPLIN 117 AMOCO G#5 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: CHAMPLIN 117 AMOCO G#5 AWB Offset Wellpath: CHAMPLIN 117 AMOCO G#5 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8340.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8340>	CHAMPLIN 117 AMOCO G#5 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: CHAMPLIN 117 AMOCO G#5 AWB Offset Wellpath: CHAMPLIN 117 AMOCO G#5 AWP

MD Reference: **Rig on SLOT#01 EX CHAMPLIN 117 AMOCO G #5 (1980'FNL & 660'FWL, SEC.35,8340,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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: LEECH #14-26 AWB Offset Wellpath: LEECH #14-26 AWP

Facility: SEC.26-T01S-R66W Slot: SLOT#04 EX LEECH #14-26 (663'FSL & 673'FWL, SEC.26,8313, PR) Well: LEECH #14-26 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	79.00	10587.53	-1414.66	-7.61	10681.83	25.40	434.16	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: LEECH #14-26 AWB Offset Wellpath: LEECH #14-26 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: LEECH #14-26 AWB Offset Wellpath: LEECH #14-26 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8313.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8313>	LEECH #14-26 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: LEECH #14-26 AWB Offset Wellpath: LEECH #14-26 AWP

MD Reference: **Rig on SLOT$04 EX LEECH #14-26 (663'FSL & 673'FWL, SEC.26,8313, 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

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

Facility: SEC.02-T02S-R66W Slot: SLOT#01 EX CARLSON #1 (660'FNL & 660'FEL, SEC.02,8400, PR) Well: CARLSON #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	40.00	13.00	4031.55	2579.44	32.61	4786.12	50.94	95.44	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

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

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

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

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8400.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8400>	CARLSON #1 AWB

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

MD Reference: **Rig on SLOT#01 EX CARLSON #1 (660'FNL & 660'FEL, SEC.02,8400, 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: CHAMPLIN 117 G#4 AWB Offset Wellpath: CHAMPLIN 117 G#4 AWP

Facility: SEC.35-T01S-R66W Slot: SLOT#04 EX CHAMPLIN 117 G#4 (660'FSL & 660'FWL, SEC.35,8350, PR) Well: CHAMPLIN 117 G#4 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	5296.54	-1369.34	-14.50	5470.76	25.40	222.34	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: CHAMPLIN 117 G#4 AWB Offset Wellpath: CHAMPLIN 117 G#4 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: CHAMPLIN 117 G#4 AWB Offset Wellpath: CHAMPLIN 117 G#4 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8350.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8350>	CHAMPLIN 117 G#4 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: CHAMPLIN 117 G#4 AWB Offset Wellpath: CHAMPLIN 117 G#4 AWP

MD Reference: **Rig on SLOT#04 EX CHAMPLIN 117 G#4 (660'FSL & 660'FWL, SEC.35,8350, 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: HSR ACKARD #5-2 AWB Offset Wellpath: HSR ACKARD #5-2 AWP

Facility: SEC.02-T02S-R66W Slot: SLOT#02 EX HSR ACKARD #5-2 (1980'FNL & 656'FWL, SEC.02,8400, PR) Well: HSR ACKARD #5-2 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	4.00	13.00	2689.57	-1379.83	-27.16	3022.87	50.10	61.30	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: HSR ACKARD #5-2 AWB Offset Wellpath: HSR ACKARD #5-2 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: HSR ACKARD #5-2 AWB Offset Wellpath: HSR ACKARD #5-2 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8400.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8400>	HSR ACKARD #5-2 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HSR ACKARD #5-2 AWB Offset Wellpath: HSR ACKARD #5-2 AWP

MD Reference: **Rig on SLOT#02 EX HSE ACKARD #5-2 (1980'FNL & 656'FWL, SEC.02,8400, 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: HSR-VAN SCHAACK #4-11 AWB Offset Wellpath: HSR-VAN SCHAACK #4-11 AWP

Facility: SEC.11-T02S-R66W Slot: SLOT#01 EX HSR-VAN SCHAACK #4-11 (623'FNL & 696'FWL, SEC.11, 8374, PR) Well: HSR-VAN SCHAACK #4-11 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	47.00	-1207.08	-1356.14	-131.67	1815.85	25.40	73.79	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: HSR-VAN SCHAACK #4-11 AWB Offset Wellpath: HSR-VAN SCHAACK #4-11 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: HSR-VAN SCHAACK #4-11 AWB Offset Wellpath: HSR-VAN SCHAACK #4-11 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8374.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8374>	HSR-VAN SCHAACK #4-11 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HSR-VAN SCHAACK #4-11 AWB Offset Wellpath: HSR-VAN SCHAACK #4-11 AWP

MD Reference: **Rig on SLOT#01 EX HSR-VAN SCHAACK #4-11 (623'FNL & 696'FWL, SEC.11, 8374, 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: CHAMPLIN 117 AMOCO C#4 AWB Offset Wellpath: CHAMPLIN 117 AMOCO C#4 AWP

Facility: SEC.01-T02S-R66W Slot: SLOT#01 EX CHAMPLIN 117 AMOCO C#4 (1980'FNL & 660'FWL, SEC.01, PR, 8410) Well: CHAMPLIN 117 AMOCO C#4 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	39.00	13.00	2694.72	3859.03	55.07	4706.76	50.92	93.90	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: CHAMPLIN 117 AMOCO C#4 AWB Offset Wellpath: CHAMPLIN 117 AMOCO C#4 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: CHAMPLIN 117 AMOCO C#4 AWB Offset Wellpath: CHAMPLIN 117 AMOCO C#4 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8410.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTIVAL <8410>	CHAMPLIN 117 AMOCO C#4 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: CHAMPLIN 117 AMOCO C#4 AWB Offset Wellpath: CHAMPLIN 117 AMOCO C#4 AWP

MD Reference: **Rig on SLOT#01 EX CHAMPLINE 117 AMOCO C#4 (1980'FNL & 660'FWL, SEC.01, PR, 8410) (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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: HSR LAWSON #8-3 AWB Offset Wellpath: HSR LAWSON #8-3 AWP

Facility: SEC.03-T02S-R66W Slot: SLOT#01 EX HSR LAWSON #8-3 (2080'FNL & 660'FEL, SEC.03,8598, PR) Well: HSR LAWSON #8-3 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	2427.41	-2703.21	-48.08	3633.23	25.40	147.65	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: HSR LAWSON #8-3 AWB Offset Wellpath: HSR LAWSON #8-3 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: HSR LAWSON #8-3 AWB Offset Wellpath: HSR LAWSON #8-3 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8598.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8598>	HSR LAWSON #8-3 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HSR LAWSON #8-3 AWB Offset Wellpath: HSR LAWSON #8-3 AWP

MD Reference: **Rig on SLOT#01 EX HSE LAWSON #8-3 (2080'FNL & 660'FEL, SEC.03,8598, 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

ACKARD NORTH 2-35-3NCH PWP (REV. A.0)

Closest Approach

REFERENCE WELLPATH IDENTIFICATION

Operator	**PETROSHARE**	Slot	**SLOT#09 ACKARD NORTH 2-35-3NCH (600'FSL & 2055'FWL, SEC.02)**
Area	**COLORADO**	Well	**ACKARD NORTH 2-35-3NCH**
Field	**ADAMS COUNTY (NAD83/ GRID NORTH)**	Wellbore	**ACKARD NORTH 2-35-3NCH PWB**
Facility	**SEC.02-T03S-R66W**		

CLEARANCE DATA - Offset Wellbore: HSR-TR RANCH #16-3 AWB Offset Wellpath: HSR-TR RANCH #16-3 AWP

Facility: SEC.03-T02S-R66W Slot: SLOT#02 EX HSR-TR RANCH #16-3 (660'FSL & 660'FEL, SEC.03,8362, PR) Well: HSR-TR RANCH #16-3 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	53.00	56.48	-2716.67	-88.81	2717.55	25.40	110.44	PASS

C-C Clearance Distance Cutoff: 1000.00 ft

POSITIONAL UNCERTAINTY - Offset Wellbore: HSR-TR RANCH #16-3 AWB Offset Wellpath: HSR-TR RANCH #16-3 AWP

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

WELLPATH COMPOSITION - Offset Wellbore: HSR-TR RANCH #16-3 AWB Offset Wellpath: HSR-TR RANCH #16-3 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8362.00	Drift Indicator - Inclination Only (Actual Survey)	ASSUMED VERTICAL <8362>	HSR-TR RANCH #16-3 AWB

OFFSET WELLPATH REFERENCE - Offset Wellbore: HSR-TR RANCH #16-3 AWB Offset Wellpath: HSR-TR RANCH #16-3 AWP

MD Reference: **Rig on SLOT#02 EX HSR-TR RANCH #16-3 (660'FSL & 660'FEL, SEC.03,8362, PR) (RT)**	*Offset TVD & local coordinates use Reference Wellpath settings (See WELLPATH DATUM on page 1 of this report)*
Ellipse Start MD	**0.00ft**