



ANADARKO PETROLEUM CORP.

ANADARKO COLORADO NORTHERN ZONE NAD 83

WELD_WASTE 6-21

WASTE 4-21

WASTE 4-21

Plan: WASTE 4-21 (wp02)

Standard Planning Report

06 October, 2010





Project: ANADARKO COLORADO NORTHERN ZONE NAD 83
 Site: WELD WASTE 6-21
 Well: WASTE 4-21
 Wellbore: WASTE 4-21
 Section:
 SHL:
 Design: WASTE 4-21 (wp02)
 Latitude: 40° 2' 18.614 N
 Longitude: 105° 0' 41.548 W
 GL: 5213.0
 KB: WELL @ 5213.0ft (Original Well Elev)



Weatherford®



Azimuths to True North
 Magnetic North: 9.02°
 Magnetic Field
 Strength: 52966.7snT
 Dip Angle: 66.75°
 Date: 10/4/2010
 Model: BGGM2010

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4263.0	4586.2	PK
4763.0	5112.8	SX
7545.0	7900.1	NIO
7953.0	8308.1	CD
8030.0	8385.1	GH
8383.0	8738.1	J

CASING DETAILS

TVD	MD	Name	Size
950.0	955.7	9 5/8"	9-5/8

SECTION DETAILS

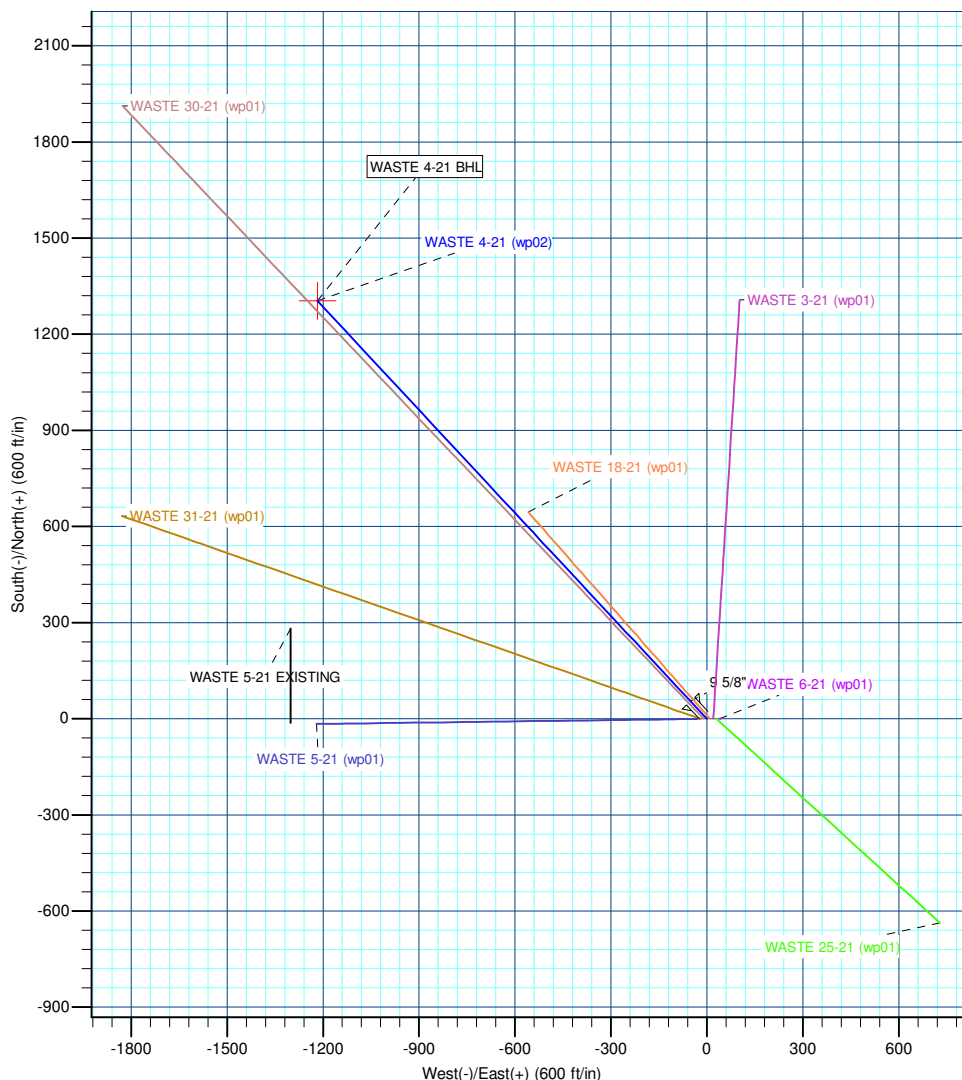
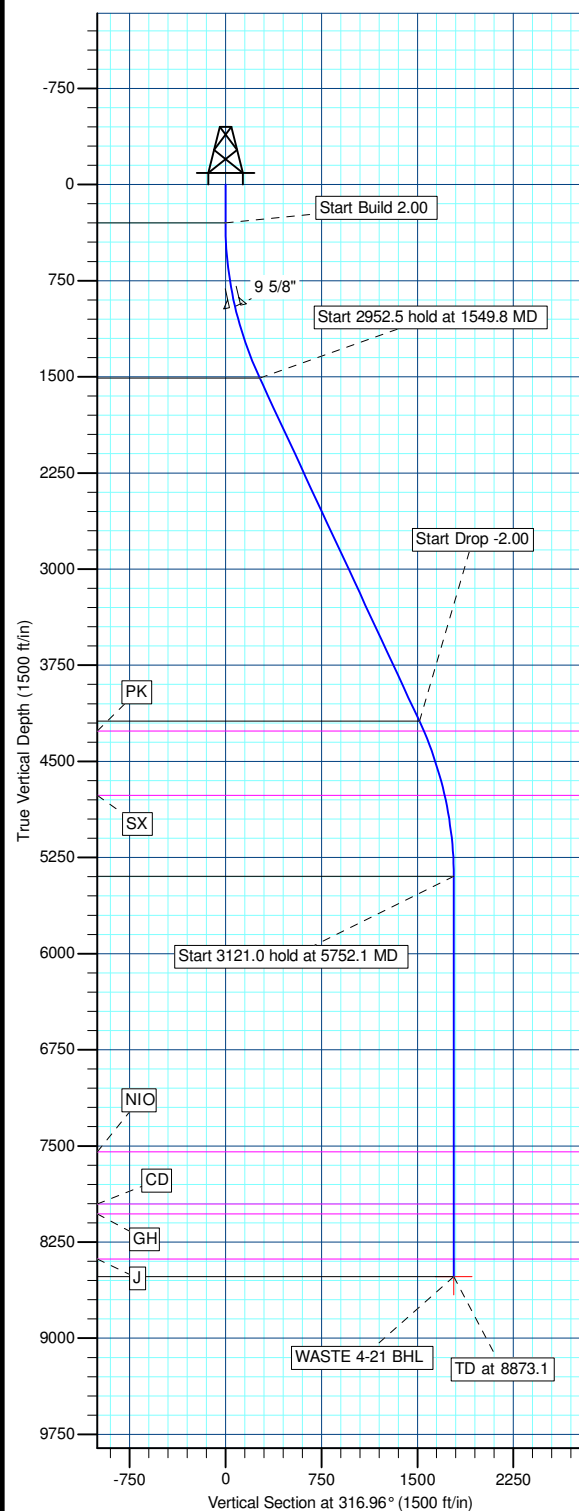
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
1549.8	25.00	316.96	1510.5	196.1	-183.1	2.00	316.96	268.3	Start 2952.5 hold at 1549.8 MD
4502.3	25.00	316.96	4186.5	1108.0	-1034.5	0.00	0.00	1515.9	Start Drop -2.00
5752.1	0.00	0.32	5397.0	1304.1	-1217.6	2.00	180.00	1784.2	Start 3121.0 hold at 5752.1 MD
8873.1	0.00	0.32	8518.0	1304.1	-1217.6	0.00	0.00	1784.2	TD at 8873.1

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
WASTE 4-21 BHL	8518.0	1304.1	-1217.6	40° 2' 31.502 N	105° 0' 57.204 W	Point

WELL DETAILS: WASTE 4-21

+N/-S	+E/-W	Northing	Ground Level: Easting	5213.0 Latitude	Longitude	Slot
0.0	0.0	1257249.53	3136765.59	40° 2' 18.614 N	105° 0' 41.548 W	



Plan: WASTE 4-21 (wp02) (WASTE 4-21/WASTE 4-21)

Created By: Jason Daguitera

Date: 16:40, October 06 2010

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well WASTE 4-21
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5213.0ft (Original Well Elev)
Project:	ANADARKO COLORADO NORTHERN ZONE NAD 83	MD Reference:	WELL @ 5213.0ft (Original Well Elev)
Site:	WELD_WASTE 6-21	North Reference:	True
Well:	WASTE 4-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	WASTE 4-21		
Design:	WASTE 4-21 (wp02)		

Project	ANADARKO COLORADO NORTHERN ZONE NAD 83, ROCKIES, ROCKIES		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		WELD_WASTE 6-21			
Site Position:		Northing:	1,257,249.65 ft	Latitude:	40° 2' 18.614 N
From:	Lat/Long	Easting:	3,136,785.47 ft	Longitude:	105° 0' 41.292 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.32 °

Well	WASTE 4-21					
Well Position	+N/-S	0.0 ft	Northing:	1,257,249.53 ft	Latitude:	40° 2' 18.614 N
	+E/-W	-19.9 ft	Easting:	3,136,765.59 ft	Longitude:	105° 0' 41.548 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,213.0 ft

Wellbore	WASTE 4-21				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	10/4/2010	9.02	66.75	52,967

Design	WASTE 4-21 (wp02)			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	316.96

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,549.8	25.00	316.96	1,510.5	196.1	-183.1	2.00	2.00	0.00	316.96	
4,502.3	25.00	316.96	4,186.5	1,108.0	-1,034.5	0.00	0.00	0.00	0.00	
5,752.1	0.00	0.32	5,397.0	1,304.1	-1,217.6	2.00	-2.00	0.00	180.00	
8,873.1	0.00	0.32	8,518.0	1,304.1	-1,217.6	0.00	0.00	0.00	0.00	WASTE 4-21 BHL

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well WASTE 4-21
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5213.0ft (Original Well Elev)
Project:	ANADARKO COLORADO NORTHERN ZONE NAD 83	MD Reference:	WELL @ 5213.0ft (Original Well Elev)
Site:	WELD_WASTE 6-21	North Reference:	True
Well:	WASTE 4-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	WASTE 4-21		
Design:	WASTE 4-21 (wp02)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	2.00	316.96	400.0	1.3	-1.2	1.7	2.00	2.00	0.00
500.0	4.00	316.96	499.8	5.1	-4.8	7.0	2.00	2.00	0.00
600.0	6.00	316.96	599.5	11.5	-10.7	15.7	2.00	2.00	0.00
700.0	8.00	316.96	698.7	20.4	-19.0	27.9	2.00	2.00	0.00
800.0	10.00	316.96	797.5	31.8	-29.7	43.5	2.00	2.00	0.00
900.0	12.00	316.96	895.6	45.8	-42.7	62.6	2.00	2.00	0.00
9 5/8"									
955.7	13.11	316.96	950.0	54.6	-51.0	74.7	2.00	2.00	0.00
1,000.0	14.00	316.96	993.1	62.2	-58.1	85.1	2.00	2.00	0.00
1,100.0	16.00	316.96	1,089.6	81.1	-75.7	111.0	2.00	2.00	0.00
1,200.0	18.00	316.96	1,185.3	102.5	-95.7	140.2	2.00	2.00	0.00
1,300.0	20.00	316.96	1,279.8	126.3	-117.9	172.8	2.00	2.00	0.00
1,400.0	22.00	316.96	1,373.2	152.5	-142.4	208.6	2.00	2.00	0.00
1,500.0	24.00	316.96	1,465.2	181.0	-169.0	247.7	2.00	2.00	0.00
Start 2952.5 hold at 1549.8 MD									
1,549.8	25.00	316.96	1,510.5	196.1	-183.1	268.3	2.00	2.00	0.00
1,600.0	25.00	316.96	1,556.0	211.6	-197.6	289.5	0.00	0.00	0.00
1,700.0	25.00	316.96	1,646.7	242.5	-226.4	331.8	0.00	0.00	0.00
1,800.0	25.00	316.96	1,737.3	273.4	-255.3	374.0	0.00	0.00	0.00
1,900.0	25.00	316.96	1,827.9	304.3	-284.1	416.3	0.00	0.00	0.00
2,000.0	25.00	316.96	1,918.6	335.2	-312.9	458.6	0.00	0.00	0.00
2,100.0	25.00	316.96	2,009.2	366.1	-341.8	500.8	0.00	0.00	0.00
2,200.0	25.00	316.96	2,099.8	396.9	-370.6	543.1	0.00	0.00	0.00
2,300.0	25.00	316.96	2,190.5	427.8	-399.5	585.3	0.00	0.00	0.00
2,400.0	25.00	316.96	2,281.1	458.7	-428.3	627.6	0.00	0.00	0.00
2,500.0	25.00	316.96	2,371.7	489.6	-457.1	669.8	0.00	0.00	0.00
2,600.0	25.00	316.96	2,462.4	520.5	-486.0	712.1	0.00	0.00	0.00
2,700.0	25.00	316.96	2,553.0	551.4	-514.8	754.3	0.00	0.00	0.00
2,800.0	25.00	316.96	2,643.6	582.3	-543.6	796.6	0.00	0.00	0.00
2,900.0	25.00	316.96	2,734.3	613.1	-572.5	838.9	0.00	0.00	0.00
3,000.0	25.00	316.96	2,824.9	644.0	-601.3	881.1	0.00	0.00	0.00
3,100.0	25.00	316.96	2,915.5	674.9	-630.1	923.4	0.00	0.00	0.00
3,200.0	25.00	316.96	3,006.2	705.8	-659.0	965.6	0.00	0.00	0.00
3,300.0	25.00	316.96	3,096.8	736.7	-687.8	1,007.9	0.00	0.00	0.00
3,400.0	25.00	316.96	3,187.4	767.6	-716.7	1,050.1	0.00	0.00	0.00
3,500.0	25.00	316.96	3,278.1	798.5	-745.5	1,092.4	0.00	0.00	0.00
3,600.0	25.00	316.96	3,368.7	829.3	-774.3	1,134.6	0.00	0.00	0.00
3,700.0	25.00	316.96	3,459.3	860.2	-803.2	1,176.9	0.00	0.00	0.00
3,800.0	25.00	316.96	3,550.0	891.1	-832.0	1,219.2	0.00	0.00	0.00
3,900.0	25.00	316.96	3,640.6	922.0	-860.8	1,261.4	0.00	0.00	0.00
4,000.0	25.00	316.96	3,731.2	952.9	-889.7	1,303.7	0.00	0.00	0.00
4,100.0	25.00	316.96	3,821.9	983.8	-918.5	1,345.9	0.00	0.00	0.00
4,200.0	25.00	316.96	3,912.5	1,014.7	-947.4	1,388.2	0.00	0.00	0.00
4,300.0	25.00	316.96	4,003.1	1,045.5	-976.2	1,430.4	0.00	0.00	0.00
4,400.0	25.00	316.96	4,093.8	1,076.4	-1,005.0	1,472.7	0.00	0.00	0.00
4,500.0	25.00	316.96	4,184.4	1,107.3	-1,033.9	1,514.9	0.00	0.00	0.00
Start Drop -2.00									
4,502.3	25.00	316.96	4,186.5	1,108.0	-1,034.5	1,515.9	0.00	0.00	0.00

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Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5213.0ft (Original Well Elev)
Project:	ANADARKO COLORADO NORTHERN ZONE NAD 83	MD Reference:	WELL @ 5213.0ft (Original Well Elev)
Site:	WELD_WASTE 6-21	North Reference:	True
Well:	WASTE 4-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	WASTE 4-21		
Design:	WASTE 4-21 (wp02)		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
PK									
4,586.2	23.32	316.96	4,263.0	1,133.1	-1,057.9	1,550.2	2.00	-2.00	0.00
4,600.0	23.04	316.96	4,275.7	1,137.1	-1,061.7	1,555.7	2.00	-2.00	0.00
4,700.0	21.04	316.96	4,368.4	1,164.5	-1,087.3	1,593.2	2.00	-2.00	0.00
4,800.0	19.04	316.96	4,462.4	1,189.6	-1,110.7	1,627.5	2.00	-2.00	0.00
4,900.0	17.04	316.96	4,557.4	1,212.2	-1,131.8	1,658.4	2.00	-2.00	0.00
5,000.0	15.04	316.96	4,653.5	1,232.4	-1,150.7	1,686.1	2.00	-2.00	0.00
5,100.0	13.04	316.96	4,750.5	1,250.1	-1,167.2	1,710.3	2.00	-2.00	0.00
SX									
5,112.8	12.79	316.96	4,763.0	1,252.2	-1,169.2	1,713.2	2.00	-2.00	0.00
5,200.0	11.04	316.96	4,848.3	1,265.4	-1,181.4	1,731.2	2.00	-2.00	0.00
5,300.0	9.04	316.96	4,946.8	1,278.1	-1,193.3	1,748.6	2.00	-2.00	0.00
5,400.0	7.04	316.96	5,045.8	1,288.4	-1,202.9	1,762.6	2.00	-2.00	0.00
5,500.0	5.04	316.96	5,145.3	1,296.0	-1,210.1	1,773.1	2.00	-2.00	0.00
5,600.0	3.04	316.96	5,245.0	1,301.2	-1,214.9	1,780.2	2.00	-2.00	0.00
5,700.0	1.04	316.96	5,344.9	1,303.8	-1,217.3	1,783.7	2.00	-2.00	0.00
Start 3121.0 hold at 5752.1 MD									
5,752.1	0.00	0.32	5,397.0	1,304.1	-1,217.6	1,784.2	2.00	-2.00	0.00
5,800.0	0.00	0.32	5,444.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
5,900.0	0.00	0.32	5,544.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
6,000.0	0.00	0.32	5,644.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
6,100.0	0.00	0.32	5,744.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
6,200.0	0.00	0.32	5,844.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
6,300.0	0.00	0.32	5,944.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
6,400.0	0.00	0.32	6,044.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
6,500.0	0.00	0.32	6,144.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
6,600.0	0.00	0.32	6,244.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
6,700.0	0.00	0.32	6,344.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
6,800.0	0.00	0.32	6,444.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
6,900.0	0.00	0.32	6,544.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
7,000.0	0.00	0.32	6,644.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
7,100.0	0.00	0.32	6,744.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
7,200.0	0.00	0.32	6,844.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
7,300.0	0.00	0.32	6,944.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
7,400.0	0.00	0.32	7,044.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
7,500.0	0.00	0.32	7,144.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
7,600.0	0.00	0.32	7,244.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
7,700.0	0.00	0.32	7,344.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
7,800.0	0.00	0.32	7,444.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
7,900.0	0.00	0.32	7,544.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
NIO									
7,900.1	0.00	0.32	7,545.0	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
8,000.0	0.00	0.32	7,644.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
8,100.0	0.00	0.32	7,744.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
8,200.0	0.00	0.32	7,844.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
8,300.0	0.00	0.32	7,944.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
CD									
8,308.1	0.00	0.32	7,953.0	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
GH									
8,385.1	0.00	0.32	8,030.0	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
8,400.0	0.00	0.32	8,044.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00
8,500.0	0.00	0.32	8,144.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well WASTE 4-21
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5213.0ft (Original Well Elev)
Project:	ANADARKO COLORADO NORTHERN ZONE NAD 83	MD Reference:	WELL @ 5213.0ft (Original Well Elev)
Site:	WELD_WASTE 6-21	North Reference:	True
Well:	WASTE 4-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	WASTE 4-21		
Design:	WASTE 4-21 (wp02)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,600.0	0.00	0.32	8,244.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00	
8,700.0	0.00	0.32	8,344.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00	
J										
8,738.1	0.00	0.32	8,383.0	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00	
8,800.0	0.00	0.32	8,444.9	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00	
TD at 8873.1										
8,873.1	0.00	0.32	8,518.0	1,304.1	-1,217.6	1,784.2	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
- hit/miss target										
- Shape										
WASTE 4-21 BHL	0.00	0.31	8,518.0	1,304.1	-1,217.6	1,258,546.95	3,135,540.79	40° 2' 31.502 N	105° 0' 57.204 W	
- plan hits target center										
- Point										

Casing Points										
Measured Depth (ft)	Vertical Depth (ft)	Name				Casing Diameter (")	Hole Diameter (")			
955.7	950.0	9 5/8"				9-5/8	12-1/4			

Formations										
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)					
7,900.1	7,545.0	NIO								
8,738.1	8,383.0	J								
8,308.1	7,953.0	CD								
5,112.8	4,763.0	SX								
4,586.2	4,263.0	PK								
8,385.1	8,030.0	GH								

Plan Annotations										
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates				Comment				
		+N/-S (ft)	+E/-W (ft)							
300.0	300.0	0.0	0.0			Start Build 2.00				
1,549.8	1,510.5	196.1	-183.1			Start 2952.5 hold at 1549.8 MD				
4,502.3	4,186.5	1,108.0	-1,034.5			Start Drop -2.00				
5,752.1	5,397.0	1,304.1	-1,217.6			Start 3121.0 hold at 5752.1 MD				
8,873.1	8,518.0	1,304.1	-1,217.6			TD at 8873.1				



ANADARKO PETROLEUM CORP.

**ANADARKO COLORADO NORTHERN ZONE NAD 83
WELD_WASTE 6-21
WASTE 4-21**

**WASTE 4-21
WASTE 4-21 (wp02)**

Anticollision Summary Report

06 October, 2010



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well WASTE 4-21
Project:	ANADARKO COLORADO NORTHERN ZONE NAD 83	TVD Reference:	WELL @ 5213.0ft (Original Well Elev)
Reference Site:	WELD_WASTE 6-21	MD Reference:	WELL @ 5213.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	WASTE 4-21	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	WASTE 4-21	Database:	EDM 2003.21 Single User Db
Reference Design:	WASTE 4-21 (wp02)	Offset TVD Reference:	Offset Datum

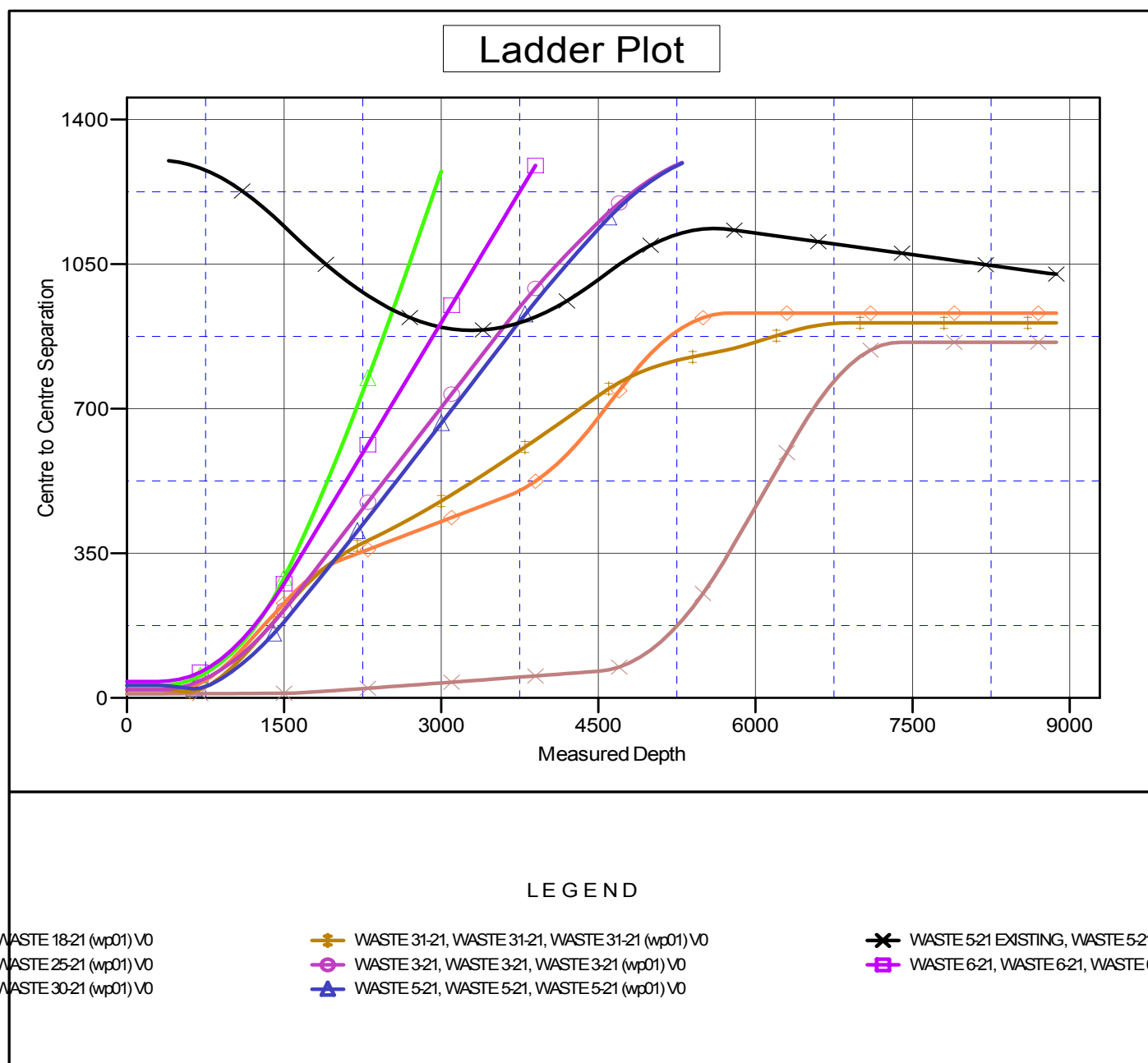
Reference	WASTE 4-21 (wp02)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,300.8ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 10/6/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	8,873.0	WASTE 4-21 (wp02) (WASTE 4-21)	MWD	MWD - Standard

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
WELD_WASTE 6-21						
WASTE 18-21 - WASTE 18-21 - WASTE 18-21 (wp01)	300.0	300.0	9.8	8.7	8.720 CC, ES	
WASTE 25-21 - WASTE 25-21 - WASTE 25-21 (wp01)	300.0	300.0	30.0	28.8	26.658 CC, ES	
WASTE 3-21 - WASTE 3-21 - WASTE 3-21 (wp01)	300.0	300.0	19.9	18.8	17.689 CC, ES	
WASTE 30-21 - WASTE 30-21 - WASTE 30-21 (wp01)	300.0	300.0	10.1	9.0	8.969 CC	
WASTE 6-21 - WASTE 6-21 - WASTE 6-21 (wp01)	300.0	300.0	39.8	38.6	35.379 CC, ES	
WASTE 18-21 - WASTE 18-21 - WASTE 18-21 (wp01)	400.0	400.0	11.1	9.5	7.036 SF	
WASTE 3-21 - WASTE 3-21 - WASTE 3-21 (wp01)	500.0	499.8	25.2	23.1	12.405 SF	
WASTE 31-21 - WASTE 31-21 - WASTE 31-21 (wp01)	580.9	580.4	14.7	12.3	6.135 CC, ES	
WASTE 25-21 - WASTE 25-21 - WASTE 25-21 (wp01)	600.0	599.5	42.3	39.8	17.026 SF	
WASTE 31-21 - WASTE 31-21 - WASTE 31-21 (wp01)	600.0	599.5	14.9	12.4	5.960 SF	
WASTE 6-21 - WASTE 6-21 - WASTE 6-21 (wp01)	600.0	599.5	51.8	49.3	20.852 SF	
WASTE 5-21 - WASTE 5-21 - WASTE 5-21 (wp01)	641.8	641.0	22.4	19.7	8.278 CC, ES	
WASTE 5-21 - WASTE 5-21 - WASTE 5-21 (wp01)	700.0	698.5	23.8	20.8	7.965 SF	
WASTE 30-21 - WASTE 30-21 - WASTE 30-21 (wp01)	1,600.0	1,597.0	11.9	0.3	1.023 Level 2 , ES, SF	
WASTE 5-21 EXISTING - WASTE 5-21 EXISTING - WA	3,291.3	3,113.1	889.7	861.5	31.518 CC	
WASTE 5-21 EXISTING - WASTE 5-21 EXISTING - WA	3,300.0	3,121.1	889.7	861.4	31.417 ES	
WASTE 5-21 EXISTING - WASTE 5-21 EXISTING - WA	8,873.9	8,520.0	1,026.1	974.2	19.768 SF	

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Reference Well:	WASTE 4-21	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	WASTE 4-21	Database:	EDM 2003.21 Single User Db
Reference Design:	WASTE 4-21 (wp02)	Offset TVD Reference:	Offset Datum

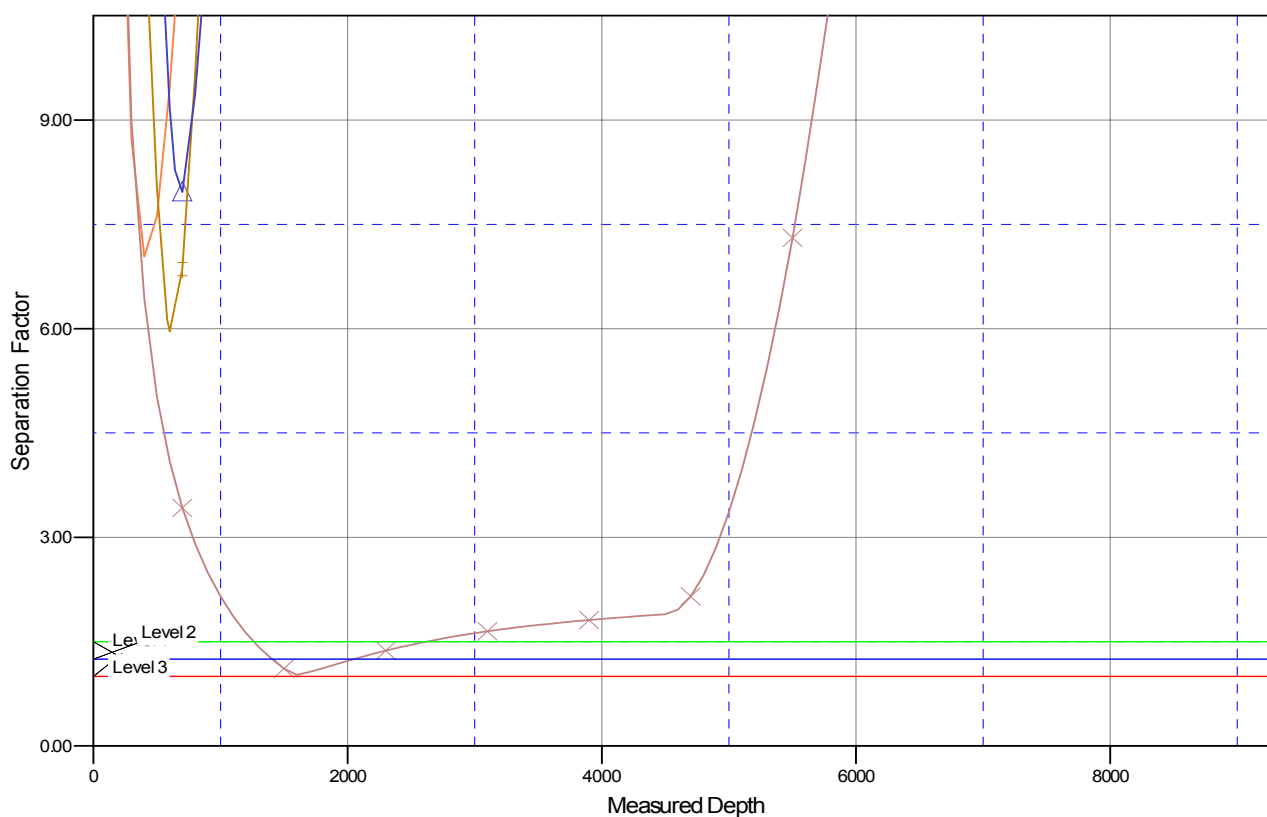
Reference Depths are relative to WELL @ 5213.0ft (Original Well Elev) Coordinates are relative to: WASTE 4-21
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W °
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.32°



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well WASTE 4-21
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Reference Wellbore	WASTE 4-21	Database:	EDM 2003.21 Single User Db
Reference Design:	WASTE 4-21 (wp02)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5213.0ft (Original Well Elev) Coordinates are relative to: WASTE 4-21
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is 105° 30' 0.000 W ° Grid Convergence at Surface is: 0.32°

Separation Factor Plot



LEGEND

WASTE 18-21 (wp01) V0
WASTE 25-21 (wp01) V0
WASTE 30-21 (wp01) V0

WASTE 31-21, WASTE 31-21, WASTE 31-21 (wp01) V0
WASTE 3-21, WASTE 3-21, WASTE 3-21 (wp01) V0
WASTE 5-21, WASTE 5-21, WASTE 5-21 (wp01) V0

WASTE 5-21 EXISTING, WASTE 5-21 EXISTING
WASTE 6-21, WASTE 6-21, WASTE 6-21