



ANADARKO PETROLEUM CORP.

ANADARKO COLORADO NORTHERN ZONE NAD 83

WELD_WASTE 11-21

WASTE 14-21

WASTE 14-21

Plan: WASTE 14-21 (wp01)

Standard Planning Report

05 October, 2010





Project: ANADARKO COLORADO NORTHERN ZONE NAD 83
 Site: WELD_WASTE 11-21
 Well: WASTE 14-21
 Wellbore: WASTE 14-21
 Section:
 SHL:
 Design: WASTE 14-21 (wp01)
 Latitude: 40° 2' 5.442 N
 Longitude: 105° 0' 39.539 W
 GL: 5258.0
 KB: WELL @ 5258.0ft (Original Well Elev)



Weatherford



Azimuths to True North
 Magnetic North: 9.02°
 Magnetic Field
 Strength: 52964.1snT
 Dip Angle: 66.75°
 Date: 10/5/2010
 Model: BGGM2010

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4308.0	4595.6	PK
4818.0	5107.7	SX
7585.0	7874.7	NIO
8008.0	8297.7	CD
8063.0	8372.7	GH
8441.0	8730.7	J

CASING DETAILS

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

SECTION DETAILS

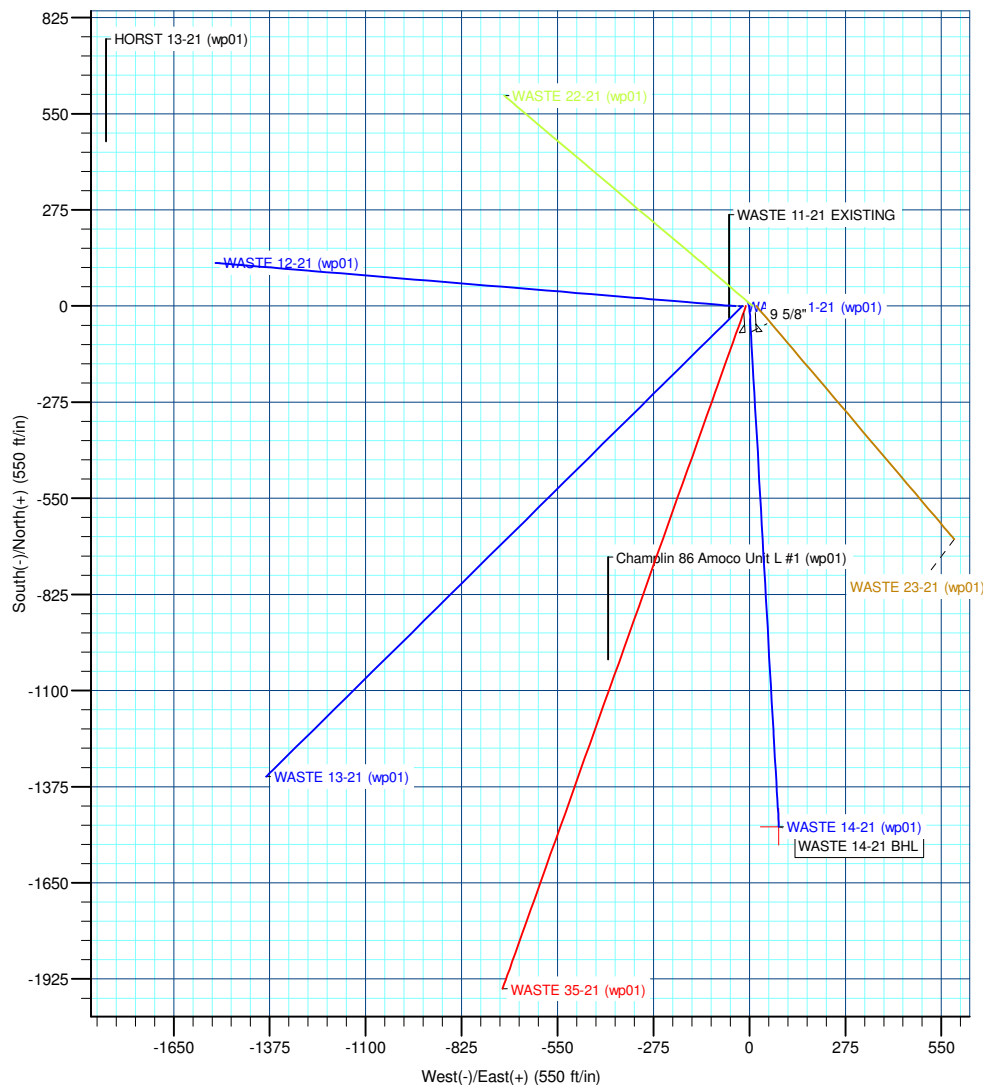
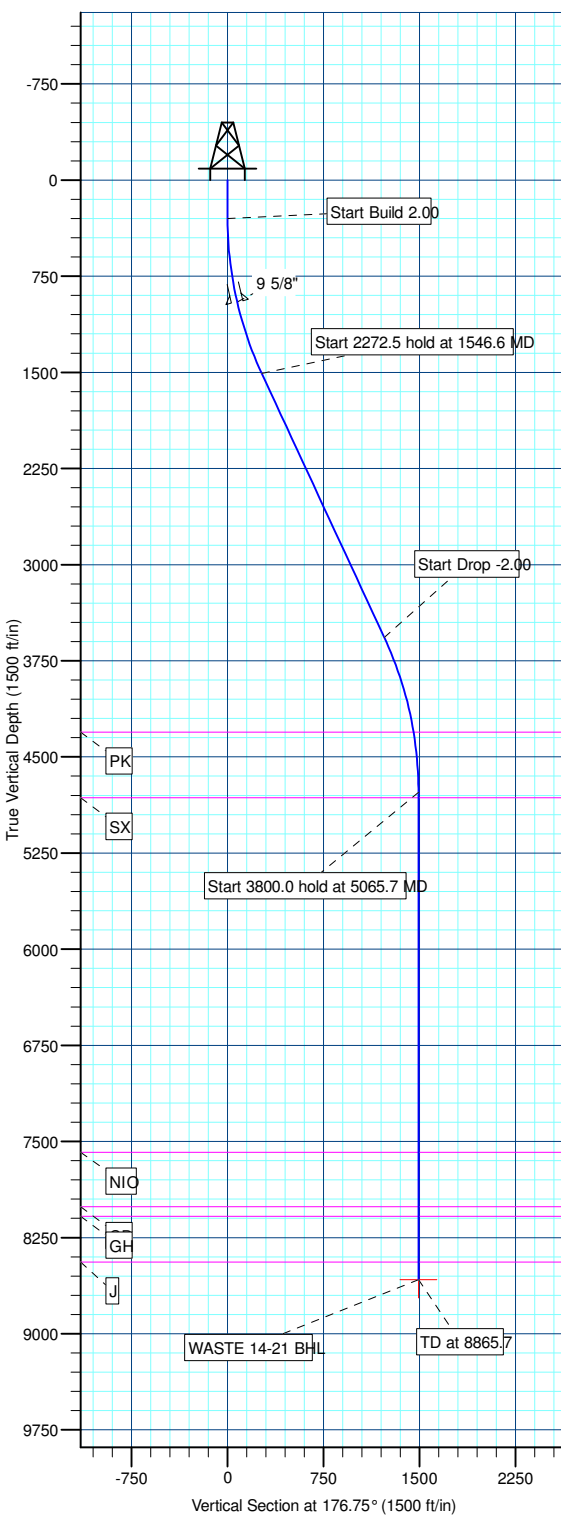
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
1546.6	24.93	176.75	1507.6	-266.5	15.1	2.00	176.75	267.0	Start 2272.5 hold at 1546.6 MD
3819.1	24.93	176.75	3568.4	-1223.0	69.4	0.00	0.00	1224.9	Start Drop -2.00
5065.7	0.00	0.00	4776.0	-1489.5	84.6	2.00	180.00	1491.9	Start 3800.0 hold at 5065.7 MD
8865.7	0.00	0.00	8576.0	-1489.5	84.6	0.00	0.00	1491.9	TD at 8865.7

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

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
WASTE 14-21 BHL	8576.0	-1489.5	84.6	40° 1' 50.722 N	105° 0' 38.452 W	Point

WELL DETAILS: WASTE 14-21

+N/-S	+E/-W	Northing	Ground Level: Easting	5258.0 Latitude	Longitude	Slot
0.0	0.0	1255917.53	3136929.18	40° 2' 5.442 N	105° 0' 39.539 W	



Plan: WASTE 14-21 (wp01) (WASTE 14-21/WASTE 14-21)

Created By: Jason Daguitera Date: 17:11, October 05 2010

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well WASTE 14-21
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5258.0ft (Original Well Elev)
Project:	ANADARKO COLORADO NORTHERN ZONE NAD 83	MD Reference:	WELL @ 5258.0ft (Original Well Elev)
Site:	WELD_WASTE 11-21	North Reference:	True
Well:	WASTE 14-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	WASTE 14-21		
Design:	WASTE 14-21 (wp01)		

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 11-21											
Site Position:			Northing:			1,255,917.01 ft			Latitude:			40° 2' 5.438 N					
From:			Lat/Long			Easting:			3,136,898.94 ft			Longitude:			105° 0' 39.928 W		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.32 °		

Well	WASTE 14-21					
Well Position	+N/-S	0.4 ft	Northing:	1,255,917.53 ft	Latitude:	40° 2' 5.442 N
	+E/-W	30.2 ft	Easting:	3,136,929.18 ft	Longitude:	105° 0' 39.539 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,258.0 ft

Wellbore	WASTE 14-21				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	10/5/2010	9.02	66.75	52,964

Design	WASTE 14-21 (wp01)			
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	176.75

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	
1,546.6	24.93	176.75	1,507.6	-266.5	15.1	2.00	2.00	0.00	176.75	
3,819.1	24.93	176.75	3,568.4	-1,223.0	69.4	0.00	0.00	0.00	0.00	
5,065.7	0.00	0.00	4,776.0	-1,489.5	84.6	2.00	-2.00	0.00	180.00	
8,865.7	0.00	0.00	8,576.0	-1,489.5	84.6	0.00	0.00	0.00	0.00	WASTE 14-21 BHL

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well WASTE 14-21
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5258.0ft (Original Well Elev)
Project:	ANADARKO COLORADO NORTHERN ZONE NAD 83	MD Reference:	WELL @ 5258.0ft (Original Well Elev)
Site:	WELD_WASTE 11-21	North Reference:	True
Well:	WASTE 14-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	WASTE 14-21		
Design:	WASTE 14-21 (wp01)		

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	176.75	400.0	-1.7	0.1	1.7	2.00	2.00	0.00
500.0	4.00	176.75	499.8	-7.0	0.4	7.0	2.00	2.00	0.00
600.0	6.00	176.75	599.5	-15.7	0.9	15.7	2.00	2.00	0.00
700.0	8.00	176.75	698.7	-27.8	1.6	27.9	2.00	2.00	0.00
800.0	10.00	176.75	797.5	-43.5	2.5	43.5	2.00	2.00	0.00
900.0	12.00	176.75	895.6	-62.5	3.5	62.6	2.00	2.00	0.00
9 5/8"									
955.7	13.11	176.75	950.0	-74.6	4.2	74.7	2.00	2.00	0.00
1,000.0	14.00	176.75	993.1	-85.0	4.8	85.1	2.00	2.00	0.00
1,100.0	16.00	176.75	1,089.6	-110.8	6.3	111.0	2.00	2.00	0.00
1,200.0	18.00	176.75	1,185.3	-140.0	7.9	140.2	2.00	2.00	0.00
1,300.0	20.00	176.75	1,279.8	-172.5	9.8	172.8	2.00	2.00	0.00
1,400.0	22.00	176.75	1,373.2	-208.3	11.8	208.6	2.00	2.00	0.00
1,500.0	24.00	176.75	1,465.2	-247.3	14.0	247.7	2.00	2.00	0.00
Start 2272.5 hold at 1546.6 MD									
1,546.6	24.93	176.75	1,507.6	-266.5	15.1	267.0	2.00	2.00	0.00
1,600.0	24.93	176.75	1,556.1	-289.0	16.4	289.5	0.00	0.00	0.00
1,700.0	24.93	176.75	1,646.7	-331.1	18.8	331.6	0.00	0.00	0.00
1,800.0	24.93	176.75	1,737.4	-373.2	21.2	373.8	0.00	0.00	0.00
1,900.0	24.93	176.75	1,828.1	-415.3	23.6	415.9	0.00	0.00	0.00
2,000.0	24.93	176.75	1,918.8	-457.4	26.0	458.1	0.00	0.00	0.00
2,100.0	24.93	176.75	2,009.5	-499.5	28.4	500.3	0.00	0.00	0.00
2,200.0	24.93	176.75	2,100.1	-541.5	30.7	542.4	0.00	0.00	0.00
2,300.0	24.93	176.75	2,190.8	-583.6	33.1	584.6	0.00	0.00	0.00
2,400.0	24.93	176.75	2,281.5	-625.7	35.5	626.7	0.00	0.00	0.00
2,500.0	24.93	176.75	2,372.2	-667.8	37.9	668.9	0.00	0.00	0.00
2,600.0	24.93	176.75	2,462.9	-709.9	40.3	711.0	0.00	0.00	0.00
2,700.0	24.93	176.75	2,553.5	-752.0	42.7	753.2	0.00	0.00	0.00
2,800.0	24.93	176.75	2,644.2	-794.1	45.1	795.3	0.00	0.00	0.00
2,900.0	24.93	176.75	2,734.9	-836.1	47.5	837.5	0.00	0.00	0.00
3,000.0	24.93	176.75	2,825.6	-878.2	49.9	879.6	0.00	0.00	0.00
3,100.0	24.93	176.75	2,916.3	-920.3	52.3	921.8	0.00	0.00	0.00
3,200.0	24.93	176.75	3,006.9	-962.4	54.6	964.0	0.00	0.00	0.00
3,300.0	24.93	176.75	3,097.6	-1,004.5	57.0	1,006.1	0.00	0.00	0.00
3,400.0	24.93	176.75	3,188.3	-1,046.6	59.4	1,048.3	0.00	0.00	0.00
3,500.0	24.93	176.75	3,279.0	-1,088.7	61.8	1,090.4	0.00	0.00	0.00
3,600.0	24.93	176.75	3,369.7	-1,130.8	64.2	1,132.6	0.00	0.00	0.00
3,700.0	24.93	176.75	3,460.3	-1,172.8	66.6	1,174.7	0.00	0.00	0.00
3,800.0	24.93	176.75	3,551.0	-1,214.9	69.0	1,216.9	0.00	0.00	0.00
Start Drop -2.00									
3,819.1	24.93	176.75	3,568.4	-1,223.0	69.4	1,224.9	0.00	0.00	0.00
3,900.0	23.31	176.75	3,642.2	-1,256.0	71.3	1,258.0	2.00	-2.00	0.00
4,000.0	21.31	176.75	3,734.7	-1,293.9	73.5	1,296.0	2.00	-2.00	0.00
4,100.0	19.31	176.75	3,828.5	-1,328.5	75.4	1,330.7	2.00	-2.00	0.00
4,200.0	17.31	176.75	3,923.4	-1,359.9	77.2	1,362.1	2.00	-2.00	0.00
4,300.0	15.31	176.75	4,019.4	-1,388.0	78.8	1,390.2	2.00	-2.00	0.00
4,400.0	13.31	176.75	4,116.3	-1,412.6	80.2	1,414.9	2.00	-2.00	0.00
4,500.0	11.31	176.75	4,213.9	-1,433.9	81.4	1,436.2	2.00	-2.00	0.00

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Project:	ANADARKO COLORADO NORTHERN ZONE NAD 83	MD Reference:	WELL @ 5258.0ft (Original Well Elev)
Site:	WELD_WASTE 11-21	North Reference:	True
Well:	WASTE 14-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	WASTE 14-21		
Design:	WASTE 14-21 (wp01)		

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									
4,595.6	9.40	176.75	4,308.0	-1,451.1	82.4	1,453.4	2.00	-2.00	0.00
4,600.0	9.31	176.75	4,312.3	-1,451.8	82.4	1,454.1	2.00	-2.00	0.00
4,700.0	7.31	176.75	4,411.3	-1,466.2	83.2	1,468.6	2.00	-2.00	0.00
4,800.0	5.31	176.75	4,510.7	-1,477.2	83.9	1,479.6	2.00	-2.00	0.00
4,900.0	3.31	176.75	4,610.4	-1,484.7	84.3	1,487.1	2.00	-2.00	0.00
5,000.0	1.31	176.75	4,710.3	-1,488.8	84.5	1,491.2	2.00	-2.00	0.00
Start 3800.0 hold at 5065.7 MD									
5,065.7	0.00	0.00	4,776.0	-1,489.5	84.6	1,491.9	2.00	-2.00	0.00
5,100.0	0.00	0.00	4,810.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
SX									
5,107.7	0.00	0.00	4,818.0	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
5,200.0	0.00	0.00	4,910.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
5,300.0	0.00	0.00	5,010.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
5,400.0	0.00	0.00	5,110.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
5,500.0	0.00	0.00	5,210.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
5,600.0	0.00	0.00	5,310.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
5,700.0	0.00	0.00	5,410.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
5,800.0	0.00	0.00	5,510.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
5,900.0	0.00	0.00	5,610.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
6,000.0	0.00	0.00	5,710.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
6,100.0	0.00	0.00	5,810.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
6,200.0	0.00	0.00	5,910.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
6,300.0	0.00	0.00	6,010.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
6,400.0	0.00	0.00	6,110.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
6,500.0	0.00	0.00	6,210.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
6,600.0	0.00	0.00	6,310.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
6,700.0	0.00	0.00	6,410.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
6,800.0	0.00	0.00	6,510.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
6,900.0	0.00	0.00	6,610.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
7,000.0	0.00	0.00	6,710.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
7,100.0	0.00	0.00	6,810.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
7,200.0	0.00	0.00	6,910.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
7,300.0	0.00	0.00	7,010.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
7,400.0	0.00	0.00	7,110.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
7,500.0	0.00	0.00	7,210.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
7,600.0	0.00	0.00	7,310.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
7,700.0	0.00	0.00	7,410.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
7,800.0	0.00	0.00	7,510.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
NIO									
7,874.7	0.00	0.00	7,585.0	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
7,900.0	0.00	0.00	7,610.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
8,000.0	0.00	0.00	7,710.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
8,100.0	0.00	0.00	7,810.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
8,200.0	0.00	0.00	7,910.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
CD									
8,297.7	0.00	0.00	8,008.0	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
8,300.0	0.00	0.00	8,010.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
GH									
8,372.7	0.00	0.00	8,083.0	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
8,400.0	0.00	0.00	8,110.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
8,500.0	0.00	0.00	8,210.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well WASTE 14-21
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 5258.0ft (Original Well Elev)
Project:	ANADARKO COLORADO NORTHERN ZONE NAD 83	MD Reference:	WELL @ 5258.0ft (Original Well Elev)
Site:	WELD_WASTE 11-21	North Reference:	True
Well:	WASTE 14-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	WASTE 14-21		
Design:	WASTE 14-21 (wp01)		

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	0.00	8,310.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
8,700.0	0.00	0.00	8,410.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
J									
8,730.7	0.00	0.00	8,441.0	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
8,800.0	0.00	0.00	8,510.3	-1,489.5	84.6	1,491.9	0.00	0.00	0.00
TD at 8865.7									
8,865.7	0.00	0.00	8,576.0	-1,489.5	84.6	1,491.9	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 14-21 BHL	0.00	0.00	8,576.0	-1,489.5	84.6	1,254,428.51	3,137,021.96	40° 1' 50.722 N	105° 0' 38.452 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 (°)
4,595.6	4,308.0	PK			
7,874.7	7,585.0	NIO			
8,730.7	8,441.0	J			
8,297.7	8,008.0	CD			
8,372.7	8,083.0	GH			
5,107.7	4,818.0	SX			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
300.0	300.0	0.0	0.0	Start Build 2.00
1,546.6	1,507.6	-266.5	15.1	Start 2272.5 hold at 1546.6 MD
3,819.1	3,568.4	-1,223.0	69.4	Start Drop -2.00
5,065.7	4,776.0	-1,489.5	84.6	Start 3800.0 hold at 5065.7 MD
8,865.7	8,576.0	-1,489.5	84.6	TD at 8865.7



ANADARKO PETROLEUM CORP.

**ANADARKO COLORADO NORTHERN ZONE NAD 83
WELD_WASTE 11-21
WASTE 14-21**

**WASTE 14-21
WASTE 14-21 (wp01)**

Anticollision Summary Report

05 October, 2010



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well WASTE 14-21
Project:	ANADARKO COLORADO NORTHERN ZONE NAD 83	TVD Reference:	WELL @ 5258.0ft (Original Well Elev)
Reference Site:	WELD_WASTE 11-21	MD Reference:	WELL @ 5258.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	WASTE 14-21	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	WASTE 14-21	Database:	EDM 2003.21 Single User Db
Reference Design:	WASTE 14-21 (wp01)	Offset TVD Reference:	Offset Datum

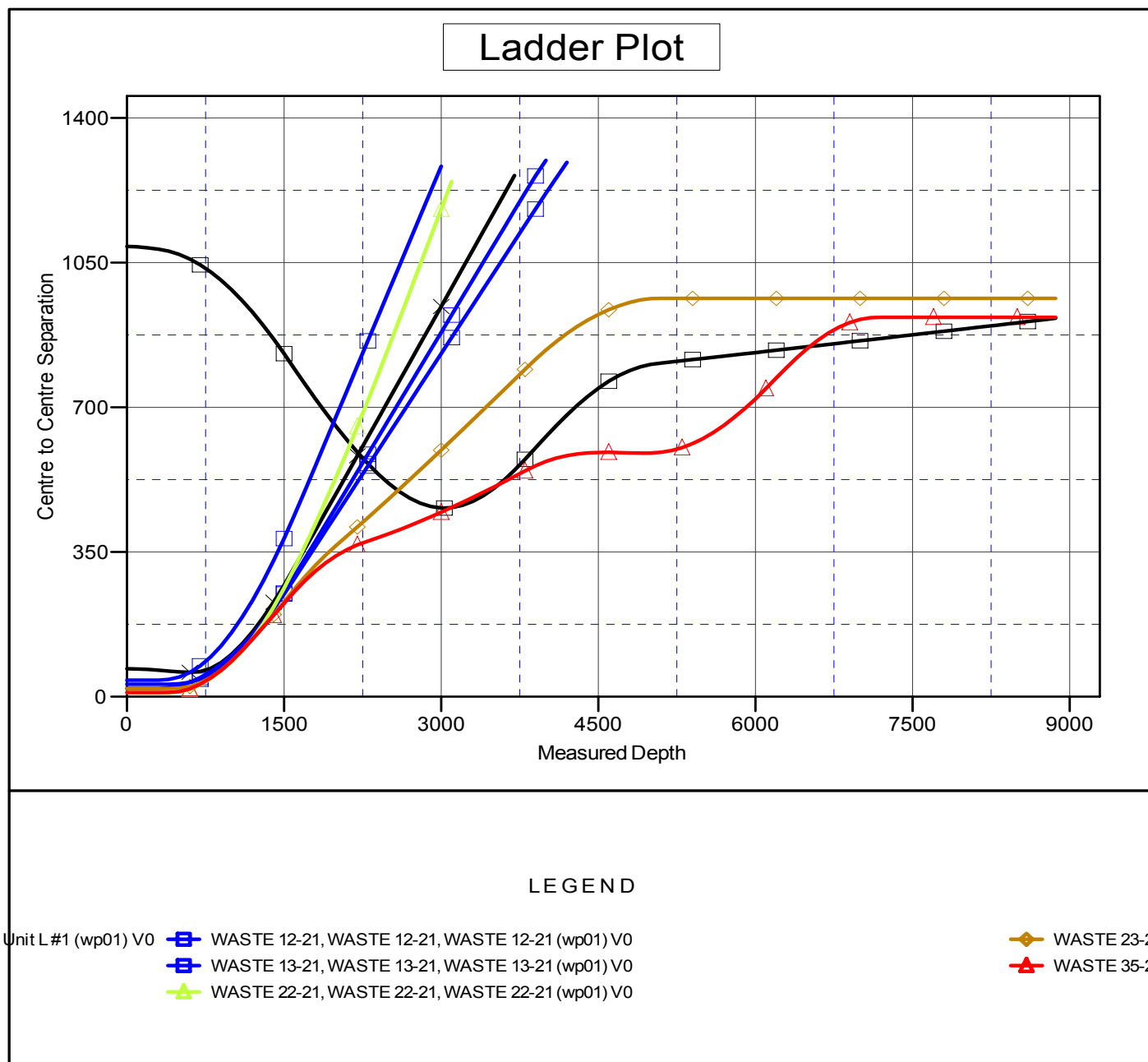
Reference	WASTE 14-21 (wp01)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,300.8ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	10/5/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	8,865.7	WASTE 14-21 (wp01) (WASTE 14-21)	MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
WELD_WASTE 11-21						
HORST 13-21 - HORST 13-21 - HORST 13-21 (wp01)						Out of range
WASTE 11-21 - WASTE 11-21 - WASTE 11-21 (wp01)	300.0	300.0	30.2	29.1	26.911 CC	
WASTE 12-21 - WASTE 12-21 - WASTE 12-21 (wp01)	300.0	300.0	40.0	38.9	35.631 CC, ES	
WASTE 13-21 - WASTE 13-21 - WASTE 13-21 (wp01)	300.0	300.0	20.2	19.0	17.939 CC, ES	
WASTE 35-21 - WASTE 35-21 - WASTE 35-21 (wp01)	300.0	300.0	10.1	9.0	8.970 CC	
WASTE 22-21 - WASTE 22-21 - WASTE 22-21 (wp01)	356.4	356.4	9.8	8.4	7.180 CC	
WASTE 23-21 - WASTE 23-21 - WASTE 23-21 (wp01)	380.4	380.3	19.8	18.4	13.556 CC	
WASTE 11-21 - WASTE 11-21 - WASTE 11-21 (wp01)	400.0	400.0	30.4	28.8	19.628 ES	
WASTE 22-21 - WASTE 22-21 - WASTE 22-21 (wp01)	400.0	400.0	9.9	8.3	6.370 ES	
WASTE 23-21 - WASTE 23-21 - WASTE 23-21 (wp01)	400.0	400.0	19.9	18.3	12.834 ES	
WASTE 35-21 - WASTE 35-21 - WASTE 35-21 (wp01)	400.0	400.0	10.3	8.8	6.673 ES	
WASTE 13-21 - WASTE 13-21 - WASTE 13-21 (wp01)	500.0	498.5	26.7	24.8	13.846 SF	
WASTE 22-21 - WASTE 22-21 - WASTE 22-21 (wp01)	500.0	499.8	11.7	9.7	5.938 SF	
WASTE 35-21 - WASTE 35-21 - WASTE 35-21 (wp01)	500.0	499.8	12.6	10.6	6.383 SF	
WASTE 11-21 EXISTING - WASTE 11-21 EXISTING - W	594.3	588.1	58.9	56.4	24.084 CC	
WASTE 11-21 EXISTING - WASTE 11-21 EXISTING - W	600.0	593.8	58.9	56.4	23.823 ES	
WASTE 11-21 - WASTE 11-21 - WASTE 11-21 (wp01)	600.0	599.5	34.7	32.3	14.332 SF	
WASTE 12-21 - WASTE 12-21 - WASTE 12-21 (wp01)	600.0	594.1	58.7	56.2	24.295 SF	
WASTE 23-21 - WASTE 23-21 - WASTE 23-21 (wp01)	600.0	599.5	24.6	22.2	10.175 SF	
WASTE 11-21 EXISTING - WASTE 11-21 EXISTING - W	800.0	790.7	68.8	65.4	19.783 SF	
Champlin 86 Amoco Unit L #1 - Champlin 86 Amoco Uni	3,031.3	2,833.4	456.4	431.5	18.288 CC, ES	
Champlin 86 Amoco Unit L #1 - Champlin 86 Amoco Uni	3,300.0	3,073.0	472.4	445.1	17.300 SF	

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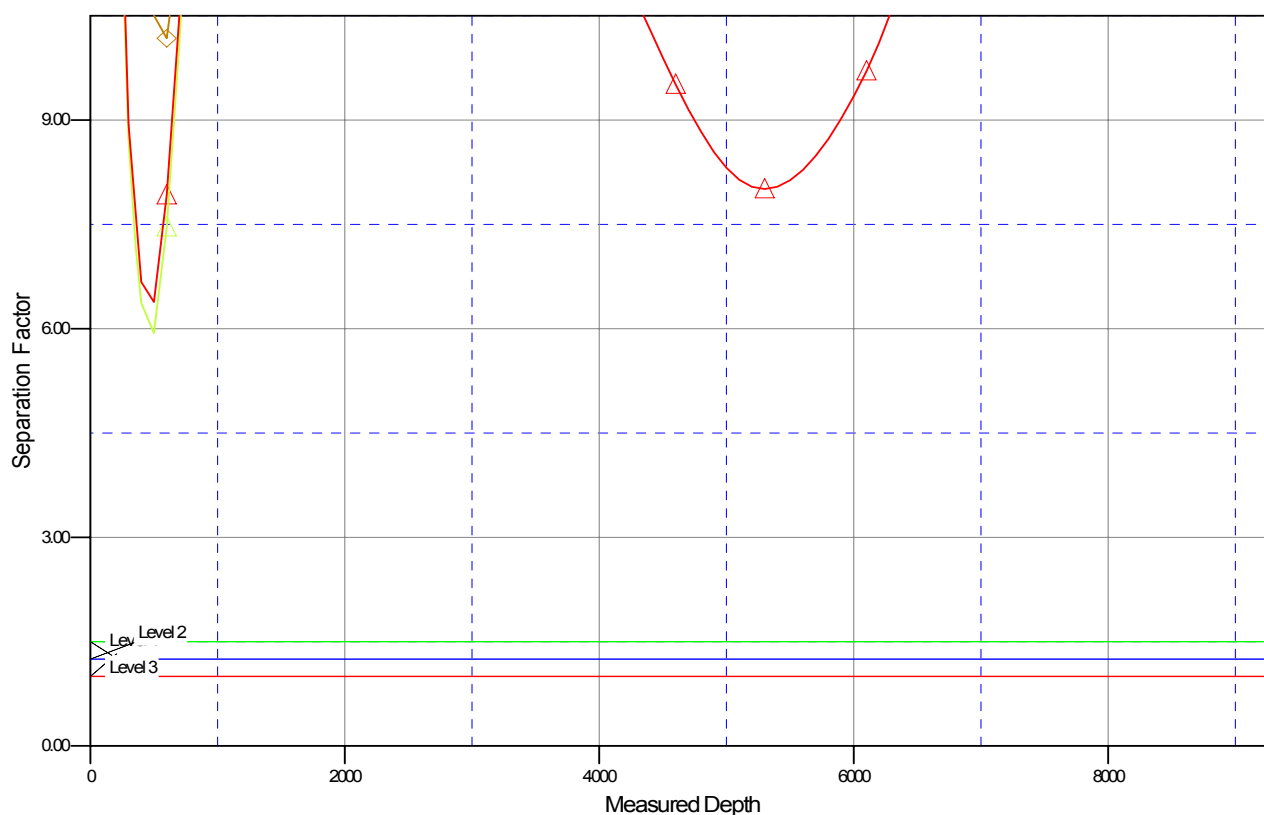
Reference Depths are relative to WELL @ 5258.0ft (Original Well Elev) Coordinates are relative to: WASTE 14-21
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W °
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.32°



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well WASTE 14-21
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Reference Depths are relative to WELL @ 5258.0ft (Original Well Elev) Coordinates are relative to: WASTE 14-21
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

Unit L #1 (wp01) V0	WASTE 12-21, WASTE 12-21, WASTE 12-21 (wp01) V0	WASTE 23-21, WASTE 23-21, WASTE 23-21 (wp01) V0
	WASTE 13-21, WASTE 13-21, WASTE 13-21 (wp01) V0	WASTE 35-21, WASTE 35-21, WASTE 35-21 (wp01) V0
	WASTE 22-21, WASTE 22-21, WASTE 22-21 (wp01) V0	