

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_PALYO 4-11HZ Pad

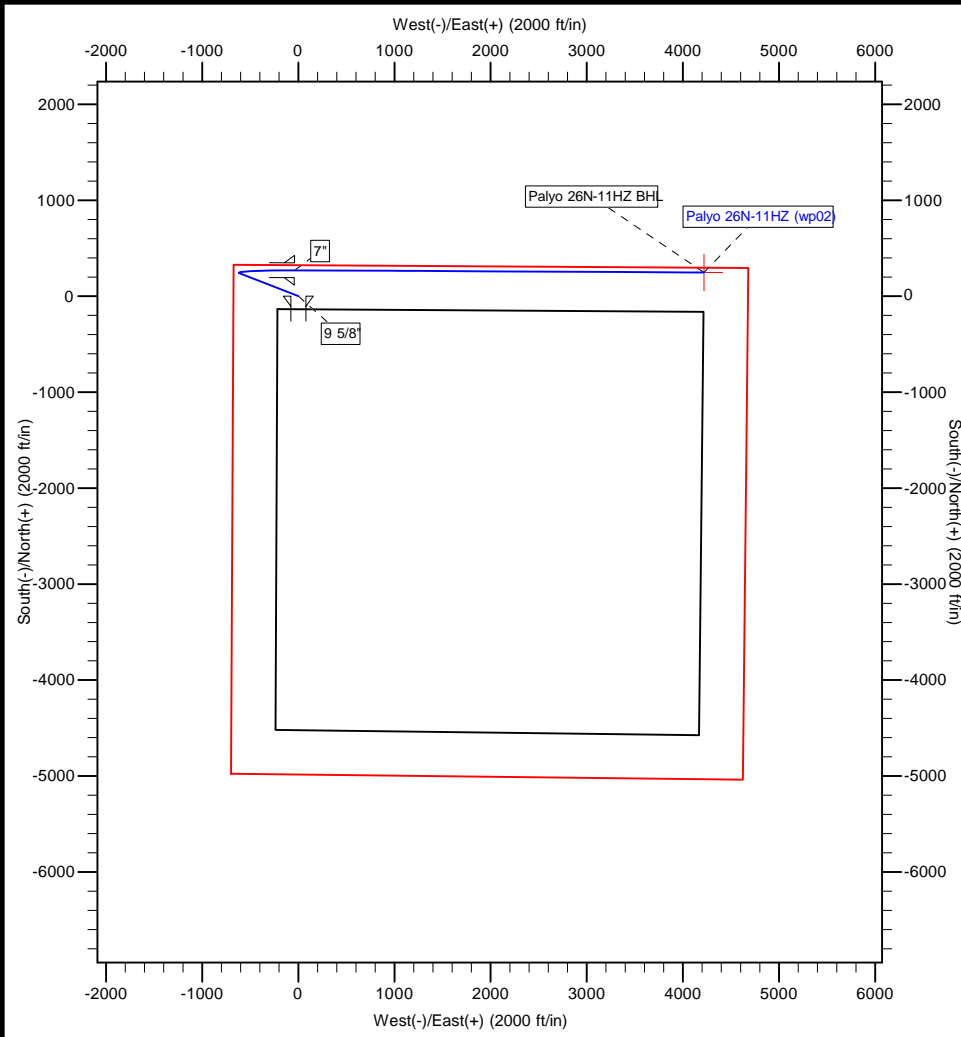
Palyo 26N-11HZ

Palyo 26N-11HZ

Plan: Palyo 26N-11HZ (wp02)

Standard Planning Report

22 February, 2012



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Azimuths to True North
Magnetic North: 8.69°

Magnetic Field
Strength: 52947.4snT
Dip Angle: 66.85°
Date: 2/16/2012
Model: IGRF2010



Project: COLORADO NORTHERN ZONE - 83
Site: WELD_PALYO 4-11HZ Pad
Well: Palyo 26N-11HZ
Wellbore: Palyo 26N-11HZ
Section:
SHL:
Design: Palyo 26N-11HZ (wp02)
Latitude: 40.159597
Longitude: -104.638034
GL: 4855.00
KB: rkb + gl @ 4872.00ft

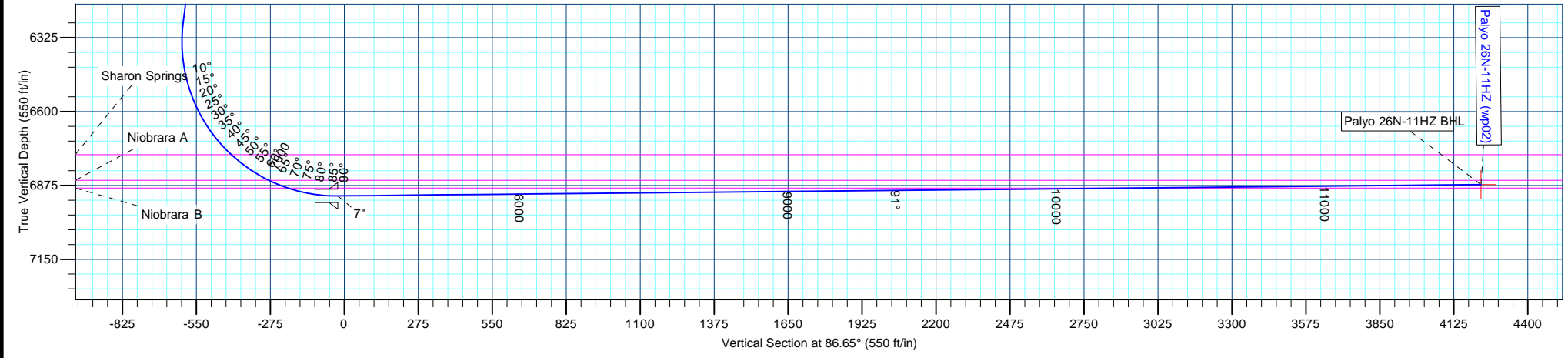
WELL DETAILS: Palyo 26N-11HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4855.00 Latitude	Longitude	Slot
0.00	0.00	1302155.27	3240913.95	40.159597	-104.638034	

SECTION DETAILS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00
1477.20	7.54	291.39	1476.11	9.05	-23.09	2.00	291.39	-22.52
6314.66	7.54	291.39	6271.70	240.71	-614.43	0.00	0.00	-599.31
7290.64	90.57	90.18	6914.00	270.00	-40.00	10.00	158.59	-24.15
7303.62	90.56	90.31	6913.87	269.94	-27.02	1.00	91.77	-11.20
1550.18	90.56	90.31	6872.00	246.99	4219.27	0.00	0.00	4226.49

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Palyo 26N-11HZ BHL	6872.00	246.99	4219.27	40.160274	-104.622938	Point

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3995.00	4018.08	Parkman
4504.00	4531.53	Sussex
6761.00	6856.00	Sharon Springs
6856.00	7024.70	Niobrara A
6885.00	7101.68	Niobrara B

CASING DETAILS			
TVD	MD	Name	Size
850.00	850.00	9 5/8"	9-5/8
6914.00	7290.64	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Palyo 26N-11HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	rkb + gl @ 4872.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	rkb + gl @ 4872.00ft
Site:	WELD_PALYO 4-11HZ Pad	North Reference:	True
Well:	Palyo 26N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Palyo 26N-11HZ		
Design:	Palyo 26N-11HZ (wp02)		

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

Site	WELD_PALYO 4-11HZ Pad				
Site Position:		Northing:	1,302,155.51 usft	Latitude:	40.159596
From:	Lat/Long	Easting:	3,240,974.04 usft	Longitude:	-104.637819
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.56 °

Well	Palyo 26N-11HZ					
Well Position	+N/-S	0.35 ft	Northing:	1,302,155.27 usft	Latitude:	40.159597
	+E/-W	-60.09 ft	Easting:	3,240,913.95 usft	Longitude:	-104.638034
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,855.00 ft

Wellbore	Palyo 26N-11HZ				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	2/16/2012	(°)	(°)	(nT)
			8.68	66.85	52,947

Design	Palyo 26N-11HZ (wp02)			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	86.65

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,477.20	7.54	291.39	1,476.11	9.05	-23.09	2.00	2.00	0.00	291.39	
6,314.66	7.54	291.39	6,271.70	240.71	-614.43	0.00	0.00	0.00	0.00	
7,290.64	90.57	90.18	6,914.00	270.00	-40.00	10.00	8.51	16.27	158.59	
7,303.62	90.56	90.31	6,913.87	269.94	-27.02	1.00	-0.03	1.00	91.77	
11,550.18	90.56	90.31	6,872.00	246.99	4,219.27	0.00	0.00	0.00	0.00	Palyo 26N-11HZ BHL

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	rkb + gl @ 4872.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	rkb + gl @ 4872.00ft
Site:	WELD_PALYO 4-11HZ Pad	North Reference:	True
Well:	Palyo 26N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Palyo 26N-11HZ		
Design:	Palyo 26N-11HZ (wp02)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"										
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	2.00	291.39	1,199.98	0.64	-1.62	-1.58	2.00	2.00	0.00	0.00
1,300.00	4.00	291.39	1,299.84	2.55	-6.50	-6.34	2.00	2.00	0.00	0.00
1,400.00	6.00	291.39	1,399.45	5.72	-14.61	-14.25	2.00	2.00	0.00	0.00
1,477.20	7.54	291.39	1,476.11	9.05	-23.09	-22.52	2.00	2.00	0.00	0.00
1,500.00	7.54	291.39	1,498.71	10.14	-25.88	-25.24	0.00	0.00	0.00	0.00
1,600.00	7.54	291.39	1,597.85	14.93	-38.10	-37.16	0.00	0.00	0.00	0.00
1,700.00	7.54	291.39	1,696.98	19.72	-50.32	-49.09	0.00	0.00	0.00	0.00
1,800.00	7.54	291.39	1,796.12	24.50	-62.55	-61.01	0.00	0.00	0.00	0.00
1,900.00	7.54	291.39	1,895.25	29.29	-74.77	-72.93	0.00	0.00	0.00	0.00
2,000.00	7.54	291.39	1,994.39	34.08	-87.00	-84.86	0.00	0.00	0.00	0.00
2,100.00	7.54	291.39	2,093.52	38.87	-99.22	-96.78	0.00	0.00	0.00	0.00
2,200.00	7.54	291.39	2,192.65	43.66	-111.44	-108.70	0.00	0.00	0.00	0.00
2,300.00	7.54	291.39	2,291.79	48.45	-123.67	-120.63	0.00	0.00	0.00	0.00
2,400.00	7.54	291.39	2,390.92	53.24	-135.89	-132.55	0.00	0.00	0.00	0.00
2,500.00	7.54	291.39	2,490.06	58.03	-148.12	-144.47	0.00	0.00	0.00	0.00
2,600.00	7.54	291.39	2,589.19	62.82	-160.34	-156.40	0.00	0.00	0.00	0.00
2,700.00	7.54	291.39	2,688.33	67.61	-172.57	-168.32	0.00	0.00	0.00	0.00
2,800.00	7.54	291.39	2,787.46	72.39	-184.79	-180.24	0.00	0.00	0.00	0.00
2,900.00	7.54	291.39	2,886.60	77.18	-197.01	-192.17	0.00	0.00	0.00	0.00
3,000.00	7.54	291.39	2,985.73	81.97	-209.24	-204.09	0.00	0.00	0.00	0.00
3,100.00	7.54	291.39	3,084.86	86.76	-221.46	-216.01	0.00	0.00	0.00	0.00
3,200.00	7.54	291.39	3,184.00	91.55	-233.69	-227.94	0.00	0.00	0.00	0.00
3,300.00	7.54	291.39	3,283.13	96.34	-245.91	-239.86	0.00	0.00	0.00	0.00
3,400.00	7.54	291.39	3,382.27	101.13	-258.14	-251.78	0.00	0.00	0.00	0.00
3,500.00	7.54	291.39	3,481.40	105.92	-270.36	-263.71	0.00	0.00	0.00	0.00
3,600.00	7.54	291.39	3,580.54	110.71	-282.58	-275.63	0.00	0.00	0.00	0.00
3,700.00	7.54	291.39	3,679.67	115.50	-294.81	-287.55	0.00	0.00	0.00	0.00
3,800.00	7.54	291.39	3,778.81	120.29	-307.03	-299.48	0.00	0.00	0.00	0.00
3,900.00	7.54	291.39	3,877.94	125.07	-319.26	-311.40	0.00	0.00	0.00	0.00
4,000.00	7.54	291.39	3,977.07	129.86	-331.48	-323.33	0.00	0.00	0.00	0.00
4,018.08	7.54	291.39	3,995.00	130.73	-333.69	-325.48	0.00	0.00	0.00	0.00
Parkman										
4,100.00	7.54	291.39	4,076.21	134.65	-343.70	-335.25	0.00	0.00	0.00	0.00
4,200.00	7.54	291.39	4,175.34	139.44	-355.93	-347.17	0.00	0.00	0.00	0.00
4,300.00	7.54	291.39	4,274.48	144.23	-368.15	-359.10	0.00	0.00	0.00	0.00
4,400.00	7.54	291.39	4,373.61	149.02	-380.38	-371.02	0.00	0.00	0.00	0.00
4,500.00	7.54	291.39	4,472.75	153.81	-392.60	-382.94	0.00	0.00	0.00	0.00
4,531.53	7.54	291.39	4,504.00	155.32	-396.46	-386.70	0.00	0.00	0.00	0.00
Sussex										

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Palyo 26N-11HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	rkb + gl @ 4872.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	rkb + gl @ 4872.00ft
Site:	WELD_PALYO 4-11HZ Pad	North Reference:	True
Well:	Palyo 26N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Palyo 26N-11HZ		
Design:	Palyo 26N-11HZ (wp02)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.00	7.54	291.39	4,571.88	158.60	-404.83	-394.87	0.00	0.00	0.00
4,700.00	7.54	291.39	4,671.02	163.39	-417.05	-406.79	0.00	0.00	0.00
4,800.00	7.54	291.39	4,770.15	168.18	-429.27	-418.71	0.00	0.00	0.00
4,900.00	7.54	291.39	4,869.28	172.96	-441.50	-430.64	0.00	0.00	0.00
5,000.00	7.54	291.39	4,968.42	177.75	-453.72	-442.56	0.00	0.00	0.00
5,100.00	7.54	291.39	5,067.55	182.54	-465.95	-454.48	0.00	0.00	0.00
5,200.00	7.54	291.39	5,166.69	187.33	-478.17	-466.41	0.00	0.00	0.00
5,300.00	7.54	291.39	5,265.82	192.12	-490.40	-478.33	0.00	0.00	0.00
5,400.00	7.54	291.39	5,364.96	196.91	-502.62	-490.25	0.00	0.00	0.00
5,500.00	7.54	291.39	5,464.09	201.70	-514.84	-502.18	0.00	0.00	0.00
5,600.00	7.54	291.39	5,563.23	206.49	-527.07	-514.10	0.00	0.00	0.00
5,700.00	7.54	291.39	5,662.36	211.28	-539.29	-526.02	0.00	0.00	0.00
5,800.00	7.54	291.39	5,761.49	216.07	-551.52	-537.95	0.00	0.00	0.00
5,900.00	7.54	291.39	5,860.63	220.86	-563.74	-549.87	0.00	0.00	0.00
6,000.00	7.54	291.39	5,959.76	225.64	-575.96	-561.79	0.00	0.00	0.00
6,100.00	7.54	291.39	6,058.90	230.43	-588.19	-573.72	0.00	0.00	0.00
6,200.00	7.54	291.39	6,158.03	235.22	-600.41	-585.64	0.00	0.00	0.00
6,300.00	7.54	291.39	6,257.17	240.01	-612.64	-597.56	0.00	0.00	0.00
6,314.66	7.54	291.39	6,271.70	240.71	-614.43	-599.31	0.00	0.00	0.00
6,400.00	3.13	28.89	6,356.76	244.81	-618.53	-603.16	10.00	-5.17	114.24
6,500.00	11.82	76.90	6,455.88	249.53	-607.20	-591.58	10.00	8.69	48.01
6,600.00	21.67	83.22	6,551.53	254.04	-578.81	-562.98	10.00	9.85	6.31
6,700.00	31.61	85.68	6,640.80	258.21	-534.23	-518.23	10.00	9.94	2.46
6,800.00	41.58	87.05	6,720.99	261.90	-474.80	-458.69	10.00	9.97	1.37
6,856.00	47.17	87.60	6,761.00	263.71	-435.70	-419.54	10.00	9.98	0.98
Sharon Springs									
6,900.00	51.56	87.97	6,789.65	265.00	-402.34	-386.17	10.00	9.98	0.83
7,000.00	61.54	88.66	6,844.70	267.42	-319.05	-302.88	10.00	9.98	0.69
7,024.70	64.01	88.81	6,856.00	267.90	-297.09	-280.93	10.00	9.99	0.61
Niobrara A									
7,100.00	71.53	89.23	6,884.47	269.08	-227.45	-211.34	10.00	9.99	0.56
7,101.68	71.69	89.24	6,885.00	269.10	-225.86	-209.75	10.00	9.99	0.53
Niobrara B									
7,200.00	81.52	89.74	6,907.75	269.94	-130.33	-114.34	10.00	9.99	0.51
7,290.64	90.57	90.18	6,914.00	270.00	-40.00	-24.16	10.00	9.99	0.48
7"									
7,300.00	90.57	90.27	6,913.91	269.96	-30.64	-14.82	1.00	-0.03	1.00
7,303.62	90.56	90.31	6,913.87	269.94	-27.02	-11.20	1.00	-0.03	1.00
7,400.00	90.56	90.31	6,912.92	269.42	69.35	84.98	0.00	0.00	0.00
7,500.00	90.56	90.31	6,911.94	268.88	169.34	184.77	0.00	0.00	0.00
7,600.00	90.56	90.31	6,910.95	268.34	269.34	284.56	0.00	0.00	0.00
7,700.00	90.56	90.31	6,909.96	267.80	369.33	384.35	0.00	0.00	0.00
7,800.00	90.56	90.31	6,908.98	267.26	469.32	484.14	0.00	0.00	0.00
7,900.00	90.56	90.31	6,907.99	266.72	569.32	583.93	0.00	0.00	0.00
8,000.00	90.56	90.31	6,907.01	266.18	669.31	683.72	0.00	0.00	0.00
8,100.00	90.56	90.31	6,906.02	265.64	769.31	783.51	0.00	0.00	0.00
8,200.00	90.56	90.31	6,905.03	265.10	869.30	883.31	0.00	0.00	0.00
8,300.00	90.56	90.31	6,904.05	264.56	969.29	983.10	0.00	0.00	0.00
8,400.00	90.56	90.31	6,903.06	264.02	1,069.29	1,082.89	0.00	0.00	0.00
8,500.00	90.56	90.31	6,902.08	263.48	1,169.28	1,182.68	0.00	0.00	0.00
8,600.00	90.56	90.31	6,901.09	262.94	1,269.27	1,282.47	0.00	0.00	0.00
8,700.00	90.56	90.31	6,900.10	262.40	1,369.27	1,382.26	0.00	0.00	0.00
8,800.00	90.56	90.31	6,899.12	261.86	1,469.26	1,482.05	0.00	0.00	0.00
8,900.00	90.56	90.31	6,898.13	261.32	1,569.25	1,581.84	0.00	0.00	0.00

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Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Palyo 26N-11HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	rkb + gl @ 4872.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	rkb + gl @ 4872.00ft
Site:	WELD_PALYO 4-11HZ Pad	North Reference:	True
Well:	Palyo 26N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Palyo 26N-11HZ		
Design:	Palyo 26N-11HZ (wp02)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,000.00	90.56	90.31	6,897.15	260.78	1,669.25	1,681.64	0.00	0.00	0.00
9,100.00	90.56	90.31	6,896.16	260.23	1,769.24	1,781.43	0.00	0.00	0.00
9,200.00	90.56	90.31	6,895.17	259.69	1,869.24	1,881.22	0.00	0.00	0.00
9,300.00	90.56	90.31	6,894.19	259.15	1,969.23	1,981.01	0.00	0.00	0.00
9,400.00	90.56	90.31	6,893.20	258.61	2,069.22	2,080.80	0.00	0.00	0.00
9,500.00	90.56	90.31	6,892.22	258.07	2,169.22	2,180.59	0.00	0.00	0.00
9,600.00	90.56	90.31	6,891.23	257.53	2,269.21	2,280.38	0.00	0.00	0.00
9,700.00	90.56	90.31	6,890.24	256.99	2,369.20	2,380.17	0.00	0.00	0.00
9,800.00	90.56	90.31	6,889.26	256.45	2,469.20	2,479.96	0.00	0.00	0.00
9,900.00	90.56	90.31	6,888.27	255.91	2,569.19	2,579.76	0.00	0.00	0.00
10,000.00	90.56	90.31	6,887.29	255.37	2,669.19	2,679.55	0.00	0.00	0.00
10,100.00	90.56	90.31	6,886.30	254.83	2,769.18	2,779.34	0.00	0.00	0.00
10,200.00	90.56	90.31	6,885.31	254.29	2,869.17	2,879.13	0.00	0.00	0.00
10,300.00	90.56	90.31	6,884.33	253.75	2,969.17	2,978.92	0.00	0.00	0.00
10,400.00	90.56	90.31	6,883.34	253.21	3,069.16	3,078.71	0.00	0.00	0.00
10,500.00	90.56	90.31	6,882.36	252.67	3,169.15	3,178.50	0.00	0.00	0.00
10,600.00	90.56	90.31	6,881.37	252.13	3,269.15	3,278.29	0.00	0.00	0.00
10,700.00	90.56	90.31	6,880.38	251.59	3,369.14	3,378.09	0.00	0.00	0.00
10,800.00	90.56	90.31	6,879.40	251.05	3,469.13	3,477.88	0.00	0.00	0.00
10,900.00	90.56	90.31	6,878.41	250.50	3,569.13	3,577.67	0.00	0.00	0.00
11,000.00	90.56	90.31	6,877.42	249.96	3,669.12	3,677.46	0.00	0.00	0.00
11,100.00	90.56	90.31	6,876.44	249.42	3,769.12	3,777.25	0.00	0.00	0.00
11,200.00	90.56	90.31	6,875.45	248.88	3,869.11	3,877.04	0.00	0.00	0.00
11,300.00	90.56	90.31	6,874.47	248.34	3,969.10	3,976.83	0.00	0.00	0.00
11,400.00	90.56	90.31	6,873.48	247.80	4,069.10	4,076.62	0.00	0.00	0.00
11,500.00	90.56	90.31	6,872.49	247.26	4,169.09	4,176.42	0.00	0.00	0.00
11,550.18	90.56	90.31	6,872.00	246.99	4,219.27	4,226.49	0.00	0.00	0.00
Palyo 26N-11HZ BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Palyo 26N-11HZ BHL - hit/miss target - Shape - Point	0.00	0.00	6,872.00	246.99	4,219.27	1,302,443.26	3,245,130.61	40.160274	-104.622938

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
850.00	850.00	9 5/8"	9-5/8	12-1/4	
7,290.64	6,914.00	7"	7	8-3/4	

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well Palyo 26N-11HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	rkb + gl @ 4872.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	rkb + gl @ 4872.00ft
Site:	WELD_PALYO 4-11HZ Pad	North Reference:	True
Well:	Palyo 26N-11HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Palyo 26N-11HZ		
Design:	Palyo 26N-11HZ (wp02)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,018.08	3,995.00	Parkman				
4,531.53	4,504.00	Sussex				
6,856.00	6,761.00	Sharon Springs				
7,024.70	6,856.00	Niobrara A				
7,101.68	6,885.00	Niobrara B				