

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_Niles 13-28HZ pad

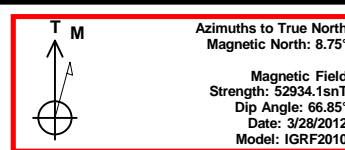
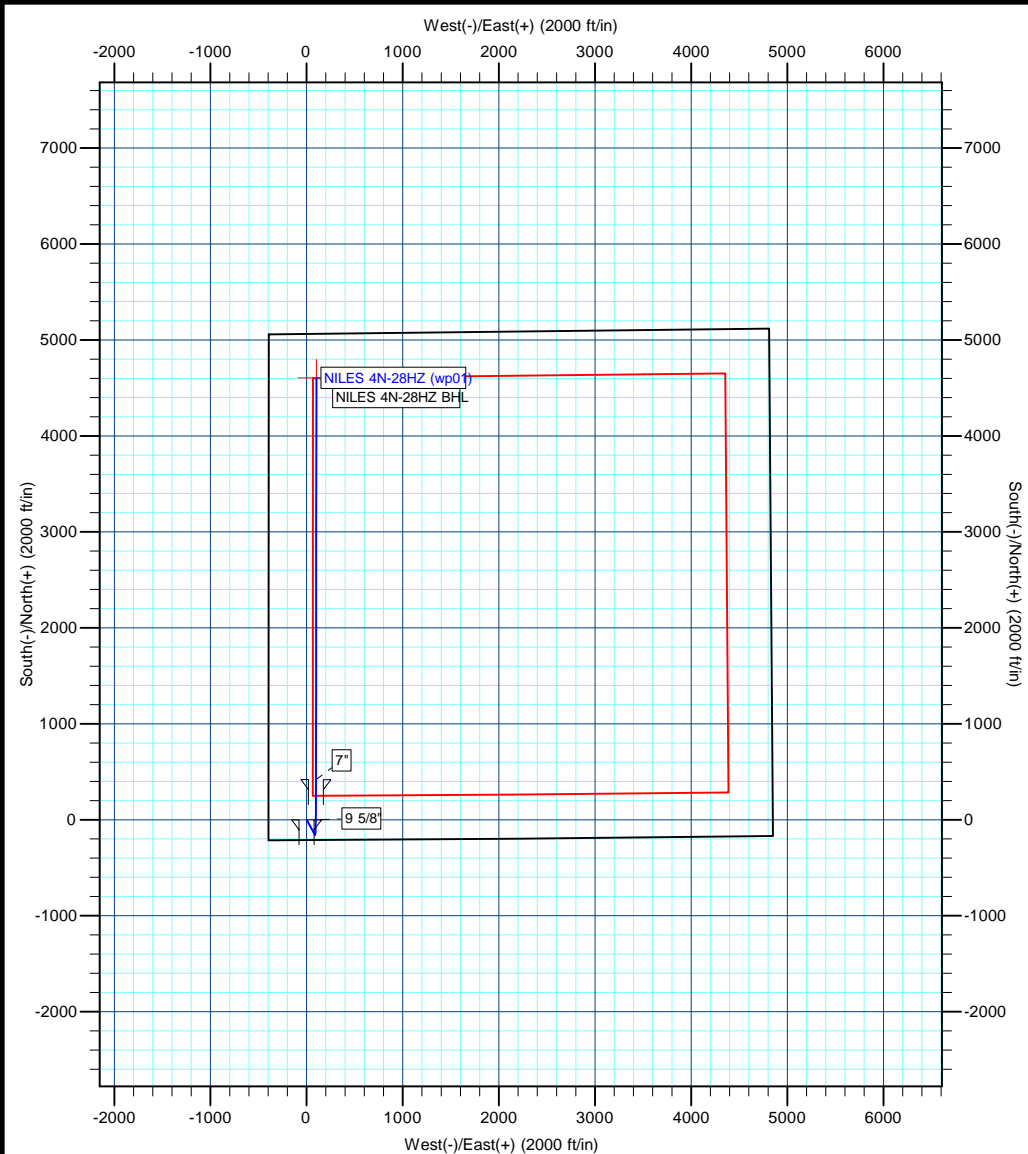
NILES 4N-28HZ

NILES 4N-28HZ

Plan: NILES 4N-28HZ (wp01)

Standard Planning Report

28 March, 2012



Project: COLORADO NORTHERN ZONE - 83
Site: WELD Niles 13-28HZ pad
Well: NILES 4N-28HZ
Wellbore: NILES 4N-28HZ
Section:
SHL:
Design: NILES 4N-28HZ (wp01)
Latitude: 40.189256
Longitude: -104.790182
GL: 4934.00
KB: GL + RKB @ 4959.00ft

WELL DETAILS: NILES 4N-28HZ

+N/-S	+E/-W	Northing	Ground Level: Easting	4934.00 Latitude	Longitude	Slot
0.00	0.00	1312582.29	3198304.08	40.189256	-104.790182	

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
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00
1296.18	1.92	151.07	1296.16	-1.41	0.78	2.00	151.07	-1.40
6662.36	1.92	151.07	6659.32	-159.06	87.93	0.00	0.00	-157.09
7584.54	90.54	0.04	7249.00	419.00	98.00	10.00	-151.01	421.05
7589.92	90.59	0.04	7248.95	424.37	98.00	1.00	4.14	426.42
11769.59	90.59	0.04	7206.00	4603.82	101.12	0.00	0.00	4604.93

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

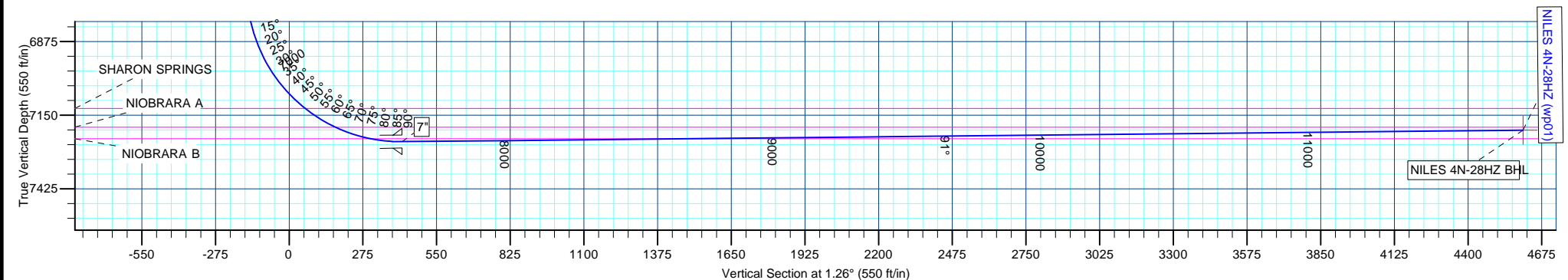
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
NILES 4N-28HZ BHL	7206.00	4603.82	101.12	40.201894	-104.789820	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4019.00	4020.55	PARKMAN
4443.00	4444.79	SUSSEX
7125.00	7195.02	SHARON SPRINGS
7195.00	7328.36	NIOBRARA A
7238.00	7466.60	NIOBRARA B

CASING DETAILS

TVD	MD	Name	Size
900.00	900.00	9 5/8"	9-5/8
7249.00	7584.54	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well NILES 4N-28HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4959.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4959.00ft
Site:	WELD_Niles 13-28HZ pad	North Reference:	True
Well:	NILES 4N-28HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	NILES 4N-28HZ		
Design:	NILES 4N-28HZ (wp01)		

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_Niles 13-28HZ pad			
Site Position:		Northing:	1,312,582.29 usft	Latitude:	40.189256
From:	Lat/Long	Easting:	3,198,304.09 usft	Longitude:	-104.790182
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46 °

Well	NILES 4N-28HZ					
Well Position	+N/-S	0.00 ft	Northing:	1,312,582.29 usft	Latitude:	40.189256
	+E/-W	0.00 ft	Easting:	3,198,304.09 usft	Longitude:	-104.790182
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,934.00 ft

Wellbore	NILES 4N-28HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/28/2012	8.75	66.85	52,934

Design	NILES 4N-28HZ (wp01)			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	1.26

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	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,296.18	1.92	151.07	1,296.16	-1.41	0.78	2.00	2.00	0.00	151.07	
6,662.36	1.92	151.07	6,659.32	-159.06	87.93	0.00	0.00	0.00	0.00	
7,584.54	90.54	0.04	7,249.00	419.00	98.00	10.00	9.61	-16.38	-151.01	
7,589.92	90.59	0.04	7,248.95	424.37	98.00	1.00	1.00	0.07	4.14	
11,769.59	90.59	0.04	7,206.00	4,603.82	101.12	0.00	0.00	0.00	0.00	NILES 4N-28HZ BHL

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well NILES 4N-28HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4959.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4959.00ft
Site:	WELD_Niles 13-28HZ pad	North Reference:	True
Well:	NILES 4N-28HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	NILES 4N-28HZ		
Design:	NILES 4N-28HZ (wp01)		

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
100.00	0.00	0.00	100.00	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
300.00	0.00	0.00	300.00	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
500.00	0.00	0.00	500.00	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
700.00	0.00	0.00	700.00	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
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
1,000.00	0.00	0.00	1,000.00	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
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,296.18	1.92	151.07	1,296.16	-1.41	0.78	-1.40	2.00	2.00	0.00
Start 5366.18 hold at 1296.18 MD									
1,300.00	1.92	151.07	1,299.98	-1.53	0.84	-1.51	0.00	0.00	0.00
1,400.00	1.92	151.07	1,399.92	-4.46	2.47	-4.41	0.00	0.00	0.00
1,500.00	1.92	151.07	1,499.87	-7.40	4.09	-7.31	0.00	0.00	0.00
1,600.00	1.92	151.07	1,599.81	-10.34	5.71	-10.21	0.00	0.00	0.00
1,700.00	1.92	151.07	1,699.75	-13.28	7.34	-13.11	0.00	0.00	0.00
1,800.00	1.92	151.07	1,799.70	-16.21	8.96	-16.01	0.00	0.00	0.00
1,900.00	1.92	151.07	1,899.64	-19.15	10.59	-18.91	0.00	0.00	0.00
2,000.00	1.92	151.07	1,999.59	-22.09	12.21	-21.82	0.00	0.00	0.00
2,100.00	1.92	151.07	2,099.53	-25.03	13.83	-24.72	0.00	0.00	0.00
2,200.00	1.92	151.07	2,199.47	-27.96	15.46	-27.62	0.00	0.00	0.00
2,300.00	1.92	151.07	2,299.42	-30.90	17.08	-30.52	0.00	0.00	0.00
2,400.00	1.92	151.07	2,399.36	-33.84	18.71	-33.42	0.00	0.00	0.00
2,500.00	1.92	151.07	2,499.30	-36.78	20.33	-36.32	0.00	0.00	0.00
2,600.00	1.92	151.07	2,599.25	-39.72	21.95	-39.22	0.00	0.00	0.00
2,700.00	1.92	151.07	2,699.19	-42.65	23.58	-42.12	0.00	0.00	0.00
2,800.00	1.92	151.07	2,799.13	-45.59	25.20	-45.03	0.00	0.00	0.00
2,900.00	1.92	151.07	2,899.08	-48.53	26.83	-47.93	0.00	0.00	0.00
3,000.00	1.92	151.07	2,999.02	-51.47	28.45	-50.83	0.00	0.00	0.00
3,100.00	1.92	151.07	3,098.97	-54.40	30.07	-53.73	0.00	0.00	0.00
3,200.00	1.92	151.07	3,198.91	-57.34	31.70	-56.63	0.00	0.00	0.00
3,300.00	1.92	151.07	3,298.85	-60.28	33.32	-59.53	0.00	0.00	0.00
3,400.00	1.92	151.07	3,398.80	-63.22	34.95	-62.43	0.00	0.00	0.00
3,500.00	1.92	151.07	3,498.74	-66.15	36.57	-65.34	0.00	0.00	0.00
3,600.00	1.92	151.07	3,598.68	-69.09	38.19	-68.24	0.00	0.00	0.00
3,700.00	1.92	151.07	3,698.63	-72.03	39.82	-71.14	0.00	0.00	0.00
3,800.00	1.92	151.07	3,798.57	-74.97	41.44	-74.04	0.00	0.00	0.00
3,900.00	1.92	151.07	3,898.51	-77.91	43.07	-76.94	0.00	0.00	0.00
4,000.00	1.92	151.07	3,998.46	-80.84	44.69	-79.84	0.00	0.00	0.00
4,020.55	1.92	151.07	4,019.00	-81.45	45.02	-80.44	0.00	0.00	0.00
PARKMAN									
4,100.00	1.92	151.07	4,098.40	-83.78	46.31	-82.74	0.00	0.00	0.00
4,200.00	1.92	151.07	4,198.35	-86.72	47.94	-85.65	0.00	0.00	0.00
4,300.00	1.92	151.07	4,298.29	-89.66	49.56	-88.55	0.00	0.00	0.00
4,400.00	1.92	151.07	4,398.23	-92.59	51.19	-91.45	0.00	0.00	0.00
4,444.79	1.92	151.07	4,443.00	-93.91	51.91	-92.75	0.00	0.00	0.00
SUSSEX									
4,500.00	1.92	151.07	4,498.18	-95.53	52.81	-94.35	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well NILES 4N-28HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4959.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4959.00ft
Site:	WELD_Niles 13-28HZ pad	North Reference:	True
Well:	NILES 4N-28HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	NILES 4N-28HZ		
Design:	NILES 4N-28HZ (wp01)		

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	1.92	151.07	4,598.12	-98.47	54.43	-97.25	0.00	0.00	0.00
4,700.00	1.92	151.07	4,698.06	-101.41	56.06	-100.15	0.00	0.00	0.00
4,800.00	1.92	151.07	4,798.01	-104.34	57.68	-103.05	0.00	0.00	0.00
4,900.00	1.92	151.07	4,897.95	-107.28	59.31	-105.95	0.00	0.00	0.00
5,000.00	1.92	151.07	4,997.89	-110.22	60.93	-108.86	0.00	0.00	0.00
5,100.00	1.92	151.07	5,097.84	-113.16	62.55	-111.76	0.00	0.00	0.00
5,200.00	1.92	151.07	5,197.78	-116.10	64.18	-114.66	0.00	0.00	0.00
5,300.00	1.92	151.07	5,297.73	-119.03	65.80	-117.56	0.00	0.00	0.00
5,400.00	1.92	151.07	5,397.67	-121.97	67.42	-120.46	0.00	0.00	0.00
5,500.00	1.92	151.07	5,497.61	-124.91	69.05	-123.36	0.00	0.00	0.00
5,600.00	1.92	151.07	5,597.56	-127.85	70.67	-126.26	0.00	0.00	0.00
5,700.00	1.92	151.07	5,697.50	-130.78	72.30	-129.17	0.00	0.00	0.00
5,800.00	1.92	151.07	5,797.44	-133.72	73.92	-132.07	0.00	0.00	0.00
5,900.00	1.92	151.07	5,897.39	-136.66	75.54	-134.97	0.00	0.00	0.00
6,000.00	1.92	151.07	5,997.33	-139.60	77.17	-137.87	0.00	0.00	0.00
6,100.00	1.92	151.07	6,097.27	-142.54	78.79	-140.77	0.00	0.00	0.00
6,200.00	1.92	151.07	6,197.22	-145.47	80.42	-143.67	0.00	0.00	0.00
6,300.00	1.92	151.07	6,297.16	-148.41	82.04	-146.57	0.00	0.00	0.00
6,400.00	1.92	151.07	6,397.11	-151.35	83.66	-149.47	0.00	0.00	0.00
6,500.00	1.92	151.07	6,497.05	-154.29	85.29	-152.38	0.00	0.00	0.00
6,600.00	1.92	151.07	6,596.99	-157.22	86.91	-155.28	0.00	0.00	0.00
6,662.36	1.92	151.07	6,659.32	-159.06	87.93	-157.09	0.00	0.00	0.00
Start DLS 10.00 TFO -151.01									
6,700.00	2.28	24.17	6,696.95	-158.93	88.54	-156.94	10.00	0.95	-337.16
6,800.00	12.12	4.39	6,796.04	-146.61	90.16	-144.60	10.00	9.84	-19.77
6,900.00	22.10	2.34	6,891.50	-117.28	91.74	-115.24	10.00	9.98	-2.05
7,000.00	32.09	1.53	6,980.41	-71.81	93.22	-69.75	10.00	9.99	-0.81
7,100.00	42.09	1.08	7,060.08	-11.60	94.57	-9.52	10.00	10.00	-0.45
7,195.02	51.59	0.79	7,125.00	57.62	95.68	59.71	10.00	10.00	-0.31
SHARON SPRINGS									
7,200.00	52.09	0.77	7,128.08	61.54	95.74	63.63	10.00	10.00	-0.26
7,300.00	62.09	0.54	7,182.35	145.38	96.69	147.46	10.00	10.00	-0.23
7,328.36	64.92	0.48	7,195.00	170.76	96.92	172.84	10.00	10.00	-0.20
NIOBRARA A									
7,400.00	72.08	0.35	7,221.24	237.36	97.40	239.45	10.00	10.00	-0.19
7,466.60	78.74	0.23	7,238.00	301.78	97.72	303.86	10.00	10.00	-0.17
NIOBRARA B									
7,500.00	82.08	0.18	7,243.56	334.71	97.84	336.78	10.00	10.00	-0.17
7,584.54	90.53	0.04	7,249.00	419.00	98.00	421.05	10.00	10.00	-0.16
Start DLS 1.00 TFO 4.14 - 7"									
7,589.92	90.59	0.04	7,248.95	424.37	98.00	426.42	1.00	1.00	0.07
Start 4179.67 hold at 7589.92 MD									
7,600.00	90.59	0.04	7,248.84	434.46	98.01	436.50	0.00	0.00	0.00
7,700.00	90.59	0.04	7,247.82	534.45	98.09	536.48	0.00	0.00	0.00
7,800.00	90.59	0.04	7,246.79	634.45	98.16	636.45	0.00	0.00	0.00
7,900.00	90.59	0.04	7,245.76	734.44	98.23	736.42	0.00	0.00	0.00
8,000.00	90.59	0.04	7,244.73	834.44	98.31	836.39	0.00	0.00	0.00
8,100.00	90.59	0.04	7,243.71	934.43	98.38	936.37	0.00	0.00	0.00
8,200.00	90.59	0.04	7,242.68	1,034.42	98.46	1,036.34	0.00	0.00	0.00
8,300.00	90.59	0.04	7,241.65	1,134.42	98.53	1,136.31	0.00	0.00	0.00
8,400.00	90.59	0.04	7,240.62	1,234.41	98.61	1,236.28	0.00	0.00	0.00
8,500.00	90.59	0.04	7,239.60	1,334.41	98.68	1,336.25	0.00	0.00	0.00
8,600.00	90.59	0.04	7,238.57	1,434.40	98.76	1,436.23	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well NILES 4N-28HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4959.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4959.00ft
Site:	WELD_Niles 13-28HZ pad	North Reference:	True
Well:	NILES 4N-28HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	NILES 4N-28HZ		
Design:	NILES 4N-28HZ (wp01)		

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)	
8,700.00	90.59	0.04	7,237.54	1,534.40	98.83	1,536.20	0.00	0.00	0.00	
8,800.00	90.59	0.04	7,236.51	1,634.39	98.90	1,636.17	0.00	0.00	0.00	
8,900.00	90.59	0.04	7,235.49	1,734.39	98.98	1,736.14	0.00	0.00	0.00	
9,000.00	90.59	0.04	7,234.46	1,834.38	99.05	1,836.12	0.00	0.00	0.00	
9,100.00	90.59	0.04	7,233.43	1,934.38	99.13	1,936.09	0.00	0.00	0.00	
9,200.00	90.59	0.04	7,232.40	2,034.37	99.20	2,036.06	0.00	0.00	0.00	
9,300.00	90.59	0.04	7,231.38	2,134.37	99.28	2,136.03	0.00	0.00	0.00	
9,400.00	90.59	0.04	7,230.35	2,234.36	99.35	2,236.00	0.00	0.00	0.00	
9,500.00	90.59	0.04	7,229.32	2,334.36	99.43	2,335.98	0.00	0.00	0.00	
9,600.00	90.59	0.04	7,228.29	2,434.35	99.50	2,435.95	0.00	0.00	0.00	
9,700.00	90.59	0.04	7,227.27	2,534.35	99.57	2,535.92	0.00	0.00	0.00	
9,800.00	90.59	0.04	7,226.24	2,634.34	99.65	2,635.89	0.00	0.00	0.00	
9,900.00	90.59	0.04	7,225.21	2,734.33	99.72	2,735.87	0.00	0.00	0.00	
10,000.00	90.59	0.04	7,224.18	2,834.33	99.80	2,835.84	0.00	0.00	0.00	
10,100.00	90.59	0.04	7,223.16	2,934.32	99.87	2,935.81	0.00	0.00	0.00	
10,200.00	90.59	0.04	7,222.13	3,034.32	99.95	3,035.78	0.00	0.00	0.00	
10,300.00	90.59	0.04	7,221.10	3,134.31	100.02	3,135.75	0.00	0.00	0.00	
10,400.00	90.59	0.04	7,220.07	3,234.31	100.10	3,235.73	0.00	0.00	0.00	
10,500.00	90.59	0.04	7,219.05	3,334.30	100.17	3,335.70	0.00	0.00	0.00	
10,600.00	90.59	0.04	7,218.02	3,434.30	100.24	3,435.67	0.00	0.00	0.00	
10,700.00	90.59	0.04	7,216.99	3,534.29	100.32	3,535.64	0.00	0.00	0.00	
10,800.00	90.59	0.04	7,215.96	3,634.29	100.39	3,635.62	0.00	0.00	0.00	
10,900.00	90.59	0.04	7,214.94	3,734.28	100.47	3,735.59	0.00	0.00	0.00	
11,000.00	90.59	0.04	7,213.91	3,834.28	100.54	3,835.56	0.00	0.00	0.00	
11,100.00	90.59	0.04	7,212.88	3,934.27	100.62	3,935.53	0.00	0.00	0.00	
11,200.00	90.59	0.04	7,211.85	4,034.27	100.69	4,035.50	0.00	0.00	0.00	
11,300.00	90.59	0.04	7,210.83	4,134.26	100.77	4,135.48	0.00	0.00	0.00	
11,400.00	90.59	0.04	7,209.80	4,234.26	100.84	4,235.45	0.00	0.00	0.00	
11,500.00	90.59	0.04	7,208.77	4,334.25	100.91	4,335.42	0.00	0.00	0.00	
11,600.00	90.59	0.04	7,207.74	4,434.24	100.99	4,435.39	0.00	0.00	0.00	
11,700.00	90.59	0.04	7,206.72	4,534.24	101.06	4,535.37	0.00	0.00	0.00	
11,769.59	90.59	0.04	7,206.00	4,603.82	101.12	4,604.93	0.00	0.00	0.00	
TD at 11769.59 - NILES 4N-28HZ BHL										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
NILES 4N-28HZ BHL	0.00	0.00	7,206.00	4,603.82	101.12	1,317,186.76	3,198,368.35	40.201894	-104.789820
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
900.00	900.00	9 5/8"	9-5/8	12-1/4	
7,584.54	7,249.00	7"	7	8-3/4	

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well NILES 4N-28HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4959.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4959.00ft
Site:	WELD_Niles 13-28HZ pad	North Reference:	True
Well:	NILES 4N-28HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	NILES 4N-28HZ		
Design:	NILES 4N-28HZ (wp01)		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,020.55	4,019.00	PARKMAN		0.00	
4,444.79	4,443.00	SUSSEX		0.00	
7,195.02	7,125.00	SHARON SPRINGS		0.00	
7,328.36	7,195.00	NIOBRARA A		0.00	
7,466.60	7,238.00	NIOBRARA B		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,200.00	1,200.00	0.00	0.00	Start Build 2.00	
1,296.18	1,296.16	-1.41	0.78	Start 5366.18 hold at 1296.18 MD	
6,662.36	6,659.32	-159.06	87.93	Start DLS 10.00 TFO -151.01	
7,584.54	7,249.00	419.00	98.00	Start DLS 1.00 TFO 4.14	
7,589.92	7,248.95	424.37	98.00	Start 4179.67 hold at 7589.92 MD	
11,769.59	7,206.00	4,603.82	101.12	TD at 11769.59	