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**BAKER
HUGHES**

INTEQ

Anadarko
Petroleum Corporation

123-29522

ANADARKO PETROLEUM

Location: COLORADO Slot: Slot #05 Newby 14-33 (1310' FSL & 1328' FWL)
Field: WELD COUNTY (ANADARKO) Well: Newby 14-33
Facility: SEC.33-T3N-R68W Wellbore: Newby 14-33 PWB

Plot reference wellpath is Newby 14-33 Rev A.O.

True vertical depths are referenced to XTREME 12 (RT)

Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet

Measured depths are referenced to XTREME 12 (RT)

North Reference: True north

XTREME 12 (RT) to Mean Sea Level: 4940 feet

Scale: True distance

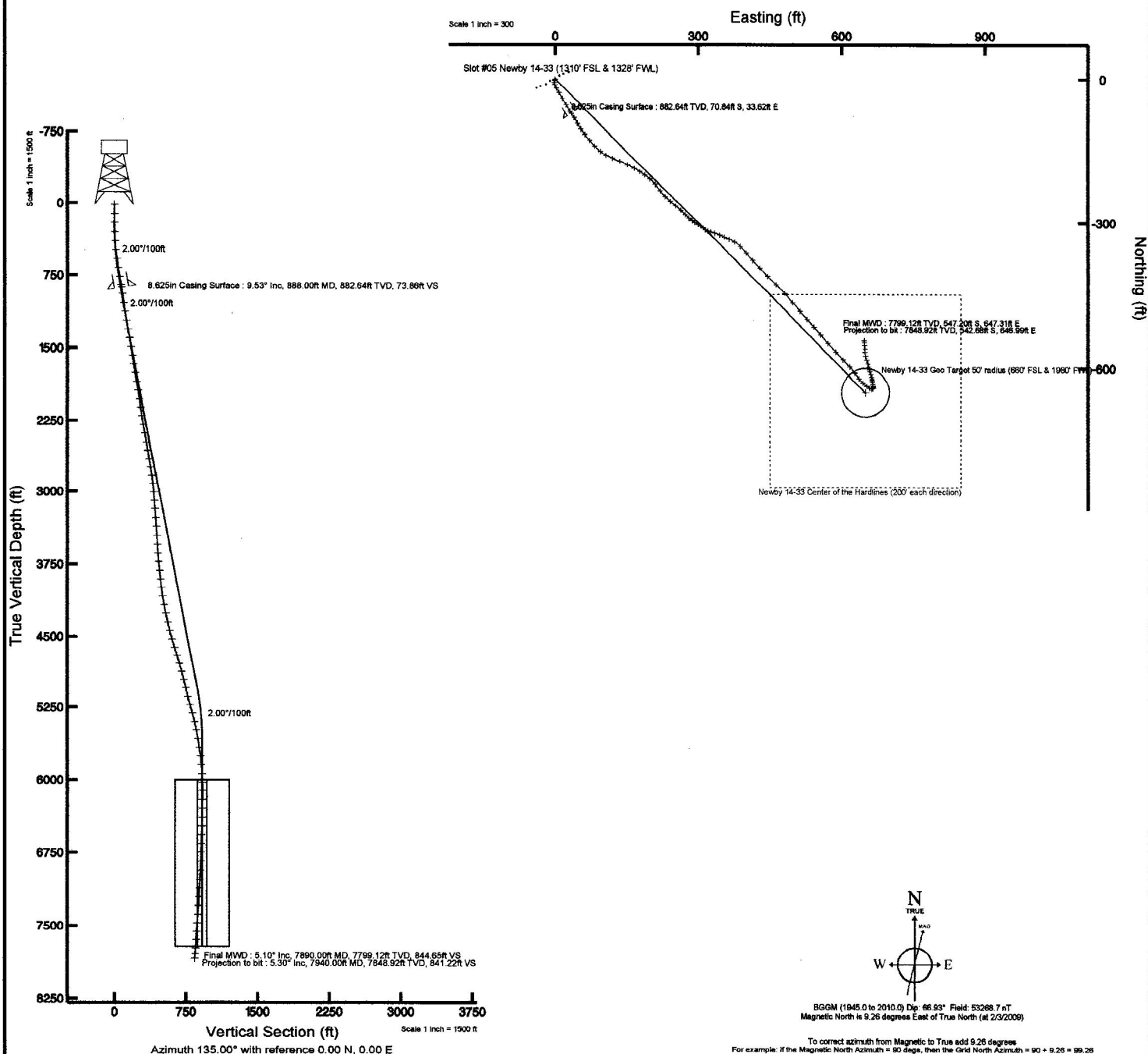
Mean Sea Level to Mud line (Facility: SEC.33-T3N-R68W): 0 feet

Depths are in feet

Created by: cookstarm on 2/3/2009

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANADARKO PETROLEUM	Slot	Slot #05 Newby 14-33 (1310' FSL & 1328' FWL)
Area	COLORADO	Well	Newby 14-33
Field	WELD COUNTY (ANADARKO)	Wellbore	Newby 14-33 AWP
Facility	SEC.33-T3N-R68W		

WELLPATH DATA (90 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	225.900	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	225.900	15.00	0.00	0.00	0.00	0.00	
115.00	1.200	225.900	114.99	-0.02	-0.73	-0.75	1.20	
208.00	2.000	195.300	207.96	0.77	-2.97	-1.88	1.23	
304.00	2.600	181.200	303.88	3.11	-6.76	-2.37	0.85	
397.00	3.700	158.700	396.74	7.32	-11.67	-1.32	1.76	
490.00	6.200	151.000	489.39	14.89	-18.86	2.20	2.78	
583.00	7.600	148.900	581.71	25.69	-28.52	7.82	1.53	
676.00	9.500	151.000	673.68	39.04	-40.50	14.71	2.07	
769.00	9.800	148.500	765.36	54.11	-53.96	22.57	0.55	
857.00	9.800	145.700	852.08	68.76	-66.53	30.70	0.54	
959.00	8.900	147.100	952.72	85.00	-80.33	39.88	0.91	
1050.00	8.300	151.000	1042.70	98.20	-91.98	46.89	0.92	
1140.00	8.500	143.600	1131.73	111.02	-103.02	53.99	1.22	
1231.00	9.600	142.900	1221.60	125.18	-114.48	62.55	1.21	
1322.00	10.300	139.400	1311.23	140.81	-126.71	72.43	1.02	
1412.00	10.600	137.300	1399.74	157.11	-138.91	83.28	0.54	
1503.00	9.400	126.400	1489.36	172.82	-149.47	94.93	2.46	
1593.00	8.900	116.900	1578.22	186.70	-156.98	107.06	1.77	
1684.00	9.800	116.200	1668.01	200.73	-163.58	120.29	1.00	
1775.00	11.200	110.500	1757.49	216.10	-170.10	135.51	1.91	
1865.00	11.100	117.600	1845.79	232.32	-177.17	151.38	1.53	
1956.00	9.800	117.900	1935.28	248.08	-184.86	165.99	1.43	
2046.00	7.600	123.500	2024.24	261.24	-191.73	177.72	2.62	
2136.00	8.100	125.300	2113.40	273.32	-198.68	187.86	0.62	
2226.00	9.100	130.900	2202.39	286.67	-207.00	198.41	1.45	
2317.00	10.900	138.700	2292.01	302.44	-218.18	209.53	2.47	
2407.00	11.200	146.700	2380.34	319.49	-231.87	219.95	1.73	
2497.00	9.800	132.700	2468.85	335.70	-244.38	230.38	3.22	
2587.00	9.000	132.300	2557.64	350.39	-254.31	241.21	0.89	

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REFERENCE WELLPATH IDENTIFICATION

Operator ANADARKO PETROLEUM

Area COLORADO

Field WELD COUNTY (ANADARKO)

Facility SEC.33-T3N-R68W

Slot

Slot #05 Newby 14-33 (1310' FSL & 1328' FWL)

Well

Newby 14-33

Wellbore

Newby 14-33 AWB

WELLPATH DATA (90 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
5390.00	15.800	137.200	5312.05	815.69	-566.01	587.55	0.89	
5480.00	13.400	136.500	5399.13	838.36	-582.57	603.06	2.67	
5571.00	11.700	136.500	5487.96	858.13	-596.91	616.67	1.87	
5661.00	9.500	141.800	5576.42	874.63	-609.37	627.54	2.67	
5752.00	8.000	141.800	5666.36	888.37	-620.25	636.10	1.65	
5842.00	7.600	133.700	5755.53	900.54	-629.28	644.28	1.30	
5933.00	5.500	125.300	5845.93	910.86	-635.96	652.19	2.53	
6023.00	4.100	119.700	5935.61	918.22	-640.05	658.51	1.64	
6114.00	1.900	98.900	6026.48	922.57	-641.89	662.82	2.66	
6204.00	1.500	40.600	6116.45	923.69	-641.23	665.06	1.88	
6294.00	1.000	12.400	6206.43	923.17	-639.57	666.00	0.86	
6385.00	1.300	357.000	6297.41	921.98	-637.76	666.12	0.47	
6475.00	1.800	352.000	6387.38	920.09	-635.34	665.87	0.57	
6565.00	3.200	345.700	6477.29	916.80	-631.51	665.05	1.58	
6655.00	3.100	351.300	6567.15	912.68	-626.67	664.06	0.36	
6745.00	1.100	336.900	6657.09	909.92	-623.47	663.35	2.28	
6835.00	1.600	1.600	6747.06	908.25	-621.42	663.05	0.84	
6925.00	3.300	349.600	6836.98	905.26	-617.61	662.62	1.96	
7018.00	3.900	335.200	6929.80	900.09	-612.11	660.81	1.16	
7108.00	3.100	347.500	7019.63	895.16	-606.95	659.00	1.21	
7198.00	2.700	347.500	7109.52	891.32	-602.51	658.01	0.44	
7288.00	3.800	344.000	7199.37	886.92	-597.57	656.73	1.24	
7379.00	4.500	340.800	7290.13	881.07	-591.30	654.72	0.81	
7470.00	5.700	341.900	7380.77	873.83	-583.63	652.15	1.32	
7560.00	6.000	348.200	7470.30	865.91	-574.78	649.80	0.79	
7651.00	4.700	355.200	7560.90	859.08	-566.41	648.51	1.60	
7741.00	4.300	1.000	7650.63	853.92	-559.36	648.26	0.67	
7832.00	4.800	352.800	7741.34	848.54	-552.17	647.84	0.90	
7890.00	5.100	354.900	7799.12	844.65	-547.20	647.31	0.60	Final MWD
7940.00†	5.300	357.000	7848.92	841.22	-542.68	646.99	0.55	Projection to bit

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Area	COLORADO	Well	Newby 14-33
Field	WELD COUNTY (ANADARKO)	Wellbore	Newby 14-33 AWB
Facility	SEC.33-T3N-R68W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
7890.00	5.100	354.900	7799.12	Final MWD
7940.00	5.300	357.000	7848.92	Projection to bit

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REFERENCE WELLPATH IDENTIFICATION

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Facility	SEC.33-T3N-R68W		

HOLE & CASING SECTIONS Ref Wellbore: Newby 14-33 AWB Ref Wellpath: Newby 14-33 AWP

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]
8.625in Casing Surface	15.00	888.00	873.00	15.00	882.64	0.00	0.00	-70.84	33.62
7.875in Open Hole	888.00	7940.00	7052.00	882.64	7848.92	-70.84	33.62	-542.68	646.99

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
Newby 14-33 Center of the Hardlines (200' each direction)		6000.00	-649.83	649.83	3136858.94	1307591.25	40°10'36.106"N	105°00'36.772"W	square
Newby 14-33 Geo Target 50' radius (660' FSL & 1980' FWL)		6000.00	-649.83	649.83	3136858.94	1307591.25	40°10'36.106"N	105°00'36.772"W	circle

WELLPATH COMPOSITION Ref Wellbore: Newby 14-33 AWB Ref Wellpath: Newby 14-33 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	769.00	MTC (Collar, post-2000) (Standard)	BHI Surface MWD <15-769>	Newby 14-33 AWB
769.00	7890.00	MTC (Collar, post-2000) (Standard)	BHI Production MWD	Newby 14-33 AWB
7890.00	7940.00	Blind Drilling (std)	Projection to bit	Newby 14-33 AWB

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Field	WELD COUNTY (ANADARKO)	Wellbore	Newby 14-33 AWB
Facility	SEC.33-T3N-R68W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Cookdanm
Scale	0.999958	Report Generated	2/3/2009 at 3:02:15 PM
Convergence at slot	0.31° East	Database/Source file	WellArchitect_Denver/Newby_14-33_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	18.21	39.12	3136205.58	1308237.47	40°10'42.528"N	105°00'45.144"W
Facility Reference Pt			3136166.56	1308219.04	40°10'42.348"N	105°00'45.648"W
Field Reference Pt			3197771.84	1268891.29	40°04'09.600"N	104°47'36.000"W

WELLPATH DATUM

Calculation method	Minimum curvature	XTREME 12 (RT) to Facility Vertical Datum	4940.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RT) to Mean Sea Level	4940.00ft
Vertical Reference Pt	XTREME 12 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	XTREME 12 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	135.00°