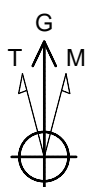


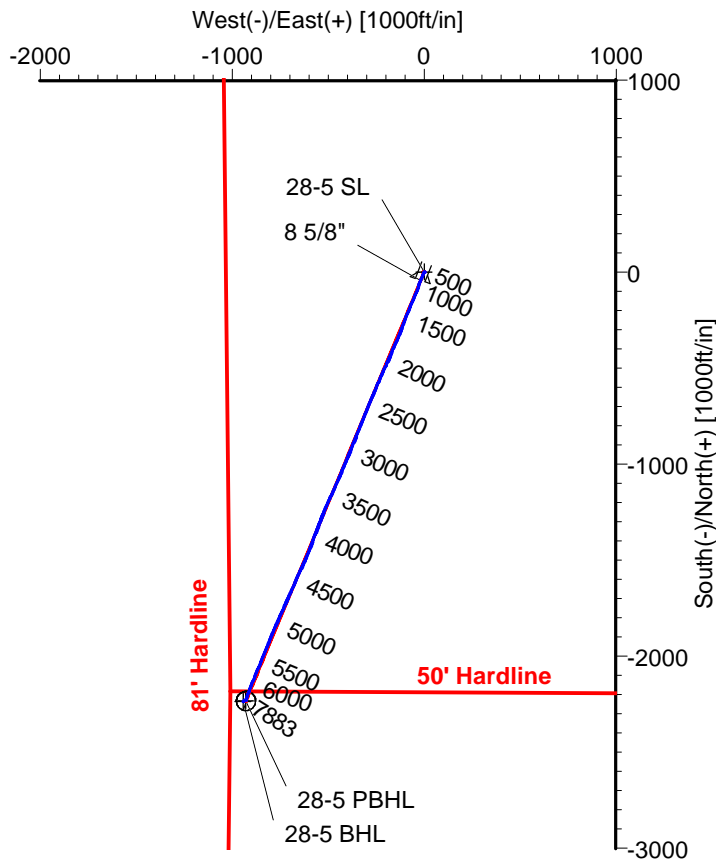
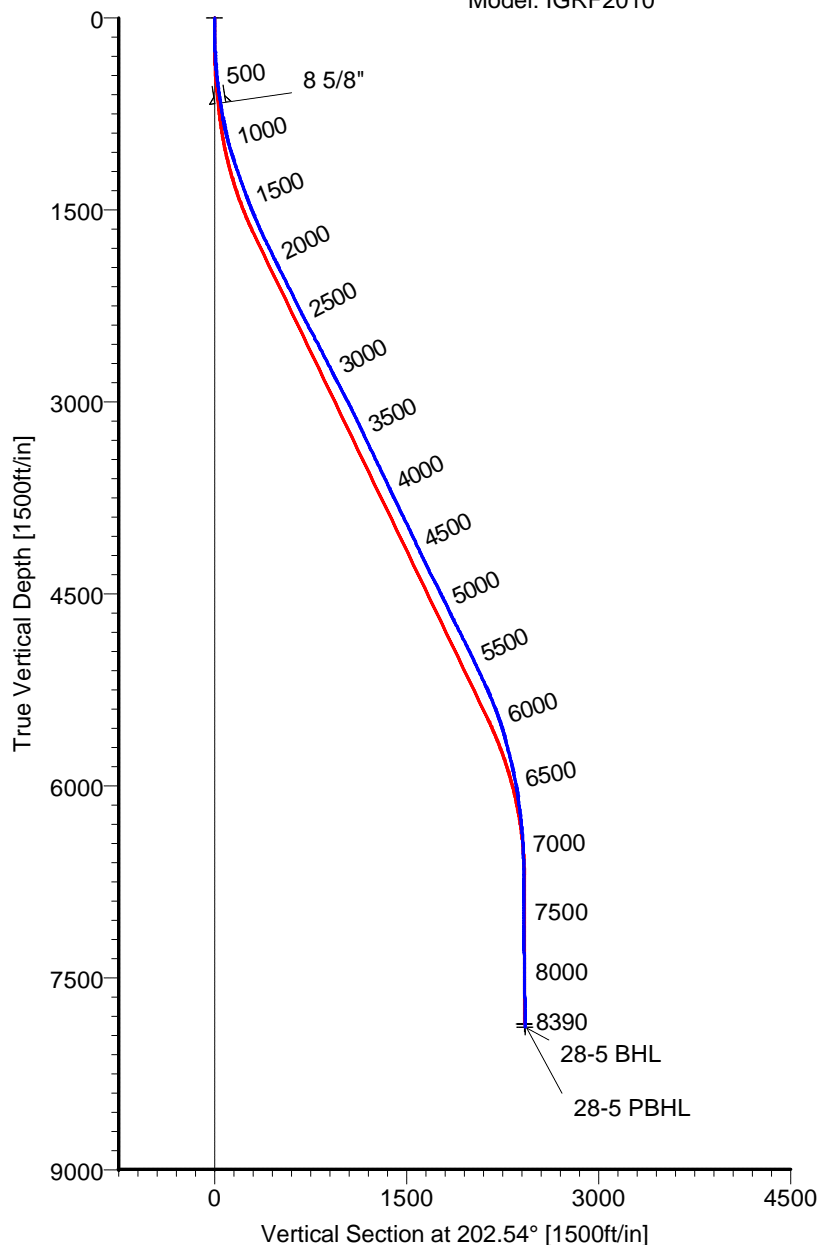
ANADARKO PETROLEUM

Field: Weld County, CO
Site: Everest 10-32 Pad
Well: 28-5
Wellpath: Original Hole



Azimuths to Grid North
True North: -0.38°
Magnetic North: 8.63°

Magnetic Field
Strength: 53110nT
Dip Angle: 66.87°
Date: 10/15/2010
Model: IGRF2010



CASING DETAILS

No.	TVD	MD	Name	Size
1	665.42	668.00	8 5/8"	8.625

LEGEND

- 28-5, Original Hole, Plan #1
- Original Hole

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
28-5 SL	0.00	0.00	0.00	40°10'52.291N	104°54'36.362W	Point
28-5 PBHL	7860.00	-2234.04	-927.20	40°10'30.274N	104°54'48.498W	Circle (Radius: 50)
28-5 BHL	7883.10	-2236.60	-941.95	40°10'30.250N	104°54'48.689W	Point

Wellpath: (28-5/Original Hole)

Created By: Ivonne Gonzalez

Date: 10/28/2010

ALLIS-CHALMERS DIRECTIONAL DRILLING SERVICES
911 Regional Park Drive Houston, Texas 77060
Phone: 713-934-9600 Fax: 713-934-9067



**DIRECTIONAL
DRILLING SERVICES**

Allis-Chalmers Energy, Inc.

Survey Report

Company: ANADARKO PETROLEUM Field: Weld County, CO Site: Everist 10-32 Pad Well: 28-5 Wellpath: Original Hole	Date: 10/28/2010 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 09:22:11 Well: 28-5, Grid North 4803'GL+13'KB 4816.0 Well (0.00N,0.00E,202.54Azi) Minimum Curvature	Page: 1 Db: Adapti
--	---	--	-------------------------------------

Field: Weld County, CO Map System: US State Plane Coordinate System 1983 Geo Datum: GRS 1980 Sys Datum: Mean Sea Level	Map Zone: Colorado, Northern Zone Coordinate System: Well Centre Geomagnetic Model: IGRF2010
---	---

Site: Everist 10-32 Pad Centered on 25-32 Site Position: From: Geographic Position Uncertainty: 0.00 ft Ground Level: 4803.00 ft	Northing: 1309402.05 ft Easting: 3164796.50 ft Latitude: 40 10 52.295 N Longitude: 104 54 36.774 W North Reference: Grid Grid Convergence: 0.38 deg
--	--

Well: 28-5 Well Position: +N/-S -0.19 ft +E/-W 31.99 ft Position Uncertainty: 0.00 ft	Slot Name: 28-5 Latitude: 40 10 52.291 N Longitude: 104 54 36.362 W Easting : 3164828.49 ft
---	--

Wellpath: Original Hole Current Datum: 4803'GL+13'KB Magnetic Data: 10/15/2010 Field Strength: 53110 nT Vertical Section: Depth From (TVD) ft	Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 9.01 deg Mag Dip Angle: 66.87 deg Direction deg
0.00	0.00

Survey Program for Definitive Wellpath				
Date: 10/28/2010	Validated: No	Version: 0		
Actual From ft	To ft	Survey	Toolcode	Tool Name
44.00	8345.00	Survey #1 (44.00-8345.00)	MWD	Std MWD
8390.00	8390.00	Survey #2 (8390.00-8390.00)	Project	Projection

Survey										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
44.00	0.40	126.10	44.00	-0.09	0.12	0.04	0.91	0.91	0.00	MWD
105.00	0.20	136.60	105.00	-0.29	0.37	0.13	0.34	-0.33	17.21	MWD
166.00	0.50	192.50	166.00	-0.63	0.38	0.43	0.69	0.49	91.64	MWD
226.00	1.40	199.90	225.99	-1.58	0.08	1.42	1.51	1.50	12.33	MWD
286.00	2.60	205.50	285.95	-3.49	-0.76	3.52	2.02	2.00	9.33	MWD
347.00	4.10	207.30	346.85	-6.68	-2.35	7.07	2.46	2.46	2.95	MWD
428.00	6.00	203.80	427.53	-13.13	-5.39	14.19	2.38	2.35	-4.32	MWD
518.00	7.20	201.70	516.93	-22.67	-9.37	24.53	1.36	1.33	-2.33	MWD
618.00	8.60	202.70	615.98	-35.39	-14.58	38.28	1.41	1.40	1.00	MWD
689.00	8.50	200.60	686.19	-45.20	-18.47	48.83	0.46	-0.14	-2.96	MWD
782.00	9.50	200.60	778.04	-58.82	-23.59	63.37	1.08	1.08	0.00	MWD
873.00	12.60	197.10	867.35	-75.34	-29.15	80.76	3.48	3.41	-3.85	MWD
963.00	14.80	201.70	954.78	-95.41	-36.29	102.03	2.73	2.44	5.11	MWD
1054.00	16.70	202.00	1042.36	-118.33	-45.49	126.73	2.09	2.09	0.33	MWD
1145.00	18.80	203.10	1129.03	-143.94	-56.14	154.47	2.34	2.31	1.21	MWD
1235.00	19.20	200.60	1214.12	-171.14	-67.03	183.76	1.01	0.44	-2.78	MWD
1326.00	19.70	203.10	1299.93	-199.25	-78.32	214.05	1.07	0.55	2.75	MWD
1417.00	20.20	203.40	1385.47	-227.78	-90.57	245.10	0.56	0.55	0.33	MWD
1508.00	21.60	198.90	1470.49	-258.05	-102.24	277.53	2.34	1.54	-4.95	MWD
1599.00	23.60	200.60	1554.50	-290.95	-114.08	312.45	2.31	2.20	1.87	MWD
1690.00	24.30	202.70	1637.66	-325.27	-127.71	349.38	1.21	0.77	2.31	MWD

Allis-Chalmers Energy, Inc.

Survey Report

Company: ANADARKO PETROLEUM Field: Weld County, CO Site: Everist 10-32 Pad Well: 28-5 Wellpath: Original Hole	Date: 10/28/2010 Co-ordinate(NE) Reference: Well: 28-5, Grid North Vertical (TVD) Reference: 4803'GL+13'KB 4816.0 Section (VS) Reference: Well (0.00N,0.00E,202.54Azi) Survey Calculation Method: Minimum Curvature	Time: 09:22:11 Page: 2 Db: Adapti
--	--	--

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1780.00	25.50	204.50	1719.29	-359.99	-142.89	387.26	1.58	1.33	2.00	MWD
1871.00	26.20	203.10	1801.19	-396.29	-158.90	426.93	1.02	0.77	-1.54	MWD
1962.00	25.70	202.00	1883.01	-433.06	-174.17	466.75	0.76	-0.55	-1.21	MWD
2053.00	26.90	205.50	1964.60	-469.94	-190.43	507.04	2.15	1.32	3.85	MWD
2144.00	26.60	204.50	2045.86	-507.06	-207.74	547.96	0.59	-0.33	-1.10	MWD
2235.00	26.70	203.10	2127.19	-544.41	-224.21	588.77	0.70	0.11	-1.54	MWD
2325.00	26.40	203.40	2207.70	-581.37	-240.09	628.99	0.37	-0.33	0.33	MWD
2416.00	26.40	202.70	2289.21	-618.60	-255.93	669.45	0.34	0.00	-0.77	MWD
2507.00	27.60	203.10	2370.29	-656.65	-272.01	710.76	1.33	1.32	0.44	MWD
2598.00	28.50	202.40	2450.60	-696.12	-288.55	753.55	1.05	0.99	-0.77	MWD
2689.00	27.80	201.30	2530.84	-735.96	-304.53	796.48	0.96	-0.77	-1.21	MWD
2780.00	27.60	202.70	2611.41	-775.18	-320.38	838.77	0.75	-0.22	1.54	MWD
2870.00	27.10	201.70	2691.35	-813.46	-336.00	880.12	0.75	-0.56	-1.11	MWD
2961.00	26.40	201.70	2772.61	-851.52	-351.15	921.08	0.77	-0.77	0.00	MWD
3052.00	28.30	202.70	2853.44	-890.22	-366.95	962.88	2.15	2.09	1.10	MWD
3143.00	28.20	202.00	2933.60	-930.05	-383.33	1005.95	0.38	-0.11	-0.77	MWD
3234.00	26.70	202.40	3014.35	-968.89	-399.18	1047.90	1.66	-1.65	0.44	MWD
3325.00	25.70	203.40	3096.00	-1005.90	-414.80	1088.07	1.20	-1.10	1.10	MWD
3416.00	25.90	201.30	3177.93	-1042.53	-429.86	1127.67	1.03	0.22	-2.31	MWD
3506.00	25.30	203.80	3259.10	-1078.44	-444.76	1166.55	1.37	-0.67	2.78	MWD
3597.00	25.30	203.80	3341.37	-1114.02	-460.46	1205.43	0.00	0.00	0.00	MWD
3688.00	25.50	205.20	3423.57	-1149.54	-476.64	1244.44	0.70	0.22	1.54	MWD
3779.00	26.40	204.50	3505.40	-1185.67	-493.37	1284.23	1.04	0.99	-0.77	MWD
3869.00	25.30	204.10	3586.39	-1221.44	-509.52	1323.45	1.24	-1.22	-0.44	MWD
3960.00	24.80	202.00	3668.83	-1256.88	-524.61	1361.97	1.12	-0.55	-2.31	MWD
4051.00	26.70	200.60	3750.79	-1293.72	-538.96	1401.49	2.19	2.09	-1.54	MWD
4142.00	25.20	201.00	3832.61	-1330.94	-553.09	1441.29	1.66	-1.65	0.44	MWD
4232.00	26.60	200.30	3913.57	-1367.73	-566.95	1480.58	1.59	1.56	-0.78	MWD
4323.00	25.90	200.30	3995.19	-1405.48	-580.91	1520.80	0.77	-0.77	0.00	MWD
4414.00	24.60	202.00	4077.49	-1441.68	-594.91	1559.60	1.64	-1.43	1.87	MWD
4505.00	25.50	202.00	4159.93	-1477.41	-609.34	1598.13	0.99	0.99	0.00	MWD
4596.00	25.70	204.80	4242.00	-1513.48	-624.95	1637.43	1.35	0.22	3.08	MWD
4686.00	27.10	205.50	4322.61	-1549.70	-641.97	1677.41	1.59	1.56	0.78	MWD
4777.00	27.10	204.10	4403.62	-1587.33	-659.35	1718.83	0.70	0.00	-1.54	MWD
4868.00	26.40	202.00	4484.89	-1625.01	-675.40	1759.78	1.29	-0.77	-2.31	MWD
4959.00	25.20	205.20	4566.82	-1661.30	-691.22	1799.36	2.02	-1.32	3.52	MWD
5049.00	25.90	204.80	4648.02	-1696.48	-707.63	1838.14	0.80	0.78	-0.44	MWD
5140.00	27.50	203.10	4729.31	-1733.85	-724.21	1879.01	1.95	1.76	-1.87	MWD
5231.00	27.10	203.80	4810.18	-1772.14	-740.82	1920.74	0.56	-0.44	0.77	MWD
5322.00	26.70	204.10	4891.33	-1809.77	-757.53	1961.90	0.46	-0.44	0.33	MWD
5413.00	25.50	203.40	4973.05	-1846.41	-773.66	2001.93	1.36	-1.32	-0.77	MWD
5503.00	24.60	203.40	5054.58	-1881.38	-788.79	2040.03	1.00	-1.00	0.00	MWD
5594.00	25.30	201.70	5137.09	-1916.83	-803.50	2078.41	1.10	0.77	-1.87	MWD
5685.00	25.00	202.70	5219.46	-1952.64	-818.11	2117.08	0.57	-0.33	1.10	MWD
5776.00	22.70	201.30	5302.69	-1986.74	-831.91	2153.87	2.60	-2.53	-1.54	MWD
5866.00	21.60	201.70	5386.05	-2018.31	-844.35	2187.80	1.23	-1.22	0.44	MWD
5957.00	19.50	201.70	5471.25	-2047.99	-856.16	2219.74	2.31	-2.31	0.00	MWD
6048.00	17.10	203.40	5557.64	-2074.38	-867.09	2248.31	2.70	-2.64	1.87	MWD
6139.00	14.80	202.70	5645.13	-2097.39	-876.89	2273.31	2.54	-2.53	-0.77	MWD
6230.00	14.30	203.10	5733.21	-2118.45	-885.78	2296.17	0.56	-0.55	0.44	MWD
6320.00	13.40	204.10	5820.60	-2138.19	-894.40	2317.71	1.03	-1.00	1.11	MWD
6411.00	11.40	199.90	5909.47	-2156.28	-901.77	2337.24	2.41	-2.20	-4.62	MWD
6502.00	10.70	198.90	5998.78	-2172.73	-907.57	2354.65	0.80	-0.77	-1.10	MWD

Allis-Chalmers Energy, Inc.

Survey Report

Company: ANADARKO PETROLEUM
Field: Weld County, CO
Site: Everist 10-32 Pad
Well: 28-5
Wellpath: Original Hole

Date:	10/28/2010	Time:	09:22:11	Page:	3
Co-ordinate(NE) Reference:	Well: 28-5, Grid North				
Vertical (TVD) Reference:	4803'GL+13'KB 4816.0				
Section (VS) Reference:	Well (0.00N,0.00E,202.54Azi)				
Survey Calculation Method:	Minimum Curvature				Db: Adapti

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6593.00	8.10	199.90	6088.55	-2186.75	-912.49	2369.49	2.86	-2.86	1.10	MWD
6684.00	7.60	199.90	6178.70	-2198.43	-916.72	2381.90	0.55	-0.55	0.00	MWD
6774.00	6.30	197.40	6268.04	-2208.74	-920.22	2392.77	1.48	-1.44	-2.78	MWD
6865.00	4.80	199.60	6358.61	-2217.10	-922.99	2401.54	1.66	-1.65	2.42	MWD
6956.00	3.20	203.10	6449.38	-2223.02	-925.26	2407.89	1.78	-1.76	3.85	MWD
7047.00	1.80	187.30	6540.30	-2226.77	-926.44	2411.81	1.70	-1.54	-17.36	MWD
7228.00	0.30	208.40	6721.26	-2230.01	-927.03	2415.02	0.84	-0.83	11.66	MWD
7410.00	0.30	240.70	6903.26	-2230.66	-927.67	2415.87	0.09	0.00	17.75	MWD
7591.00	0.90	307.10	7084.25	-2230.04	-929.22	2415.88	0.46	0.33	36.69	MWD
7773.00	1.40	250.50	7266.22	-2229.92	-932.45	2417.01	0.65	0.27	-31.10	MWD
7954.00	0.90	246.30	7447.18	-2231.23	-935.84	2419.52	0.28	-0.28	-2.32	MWD
8136.00	1.10	235.40	7629.15	-2232.79	-938.59	2422.02	0.15	0.11	-5.99	MWD
8317.00	1.20	215.70	7810.12	-2235.32	-941.12	2425.33	0.22	0.06	-10.88	MWD
8345.00	1.20	211.90	7838.11	-2235.80	-941.45	2425.90	0.28	0.00	-13.57	MWD
8366.89	1.20	211.90	7860.00	-2236.19	-941.69	2426.35	0.00	0.00	0.00	28-5 PBHL
8390.00	1.20	211.90	7883.10	-2236.60	-941.95	2426.83	0.00	0.00	0.00	28-5 BHL

Targets

Name	Description		TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ---->			<--- Longitude --->		
	Dip.	Dir.						Deg	Min	Sec	Deg	Min	Sec
28-5 SL			0.00	0.00	0.00	1309401.86	3164828.49	40	10	52.291 N	104	54	36.362 W
28-5 PBHL			7860.00	-2234.04	-927.20	1307167.82	3163901.29	40	10	30.274 N	104	54	48.498 W
-Circle (Radius: 50)													
28-5 BHL			7883.10	-2236.60	-941.95	1307165.26	3163886.54	40	10	30.250 N	104	54	48.689 W