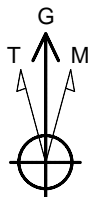


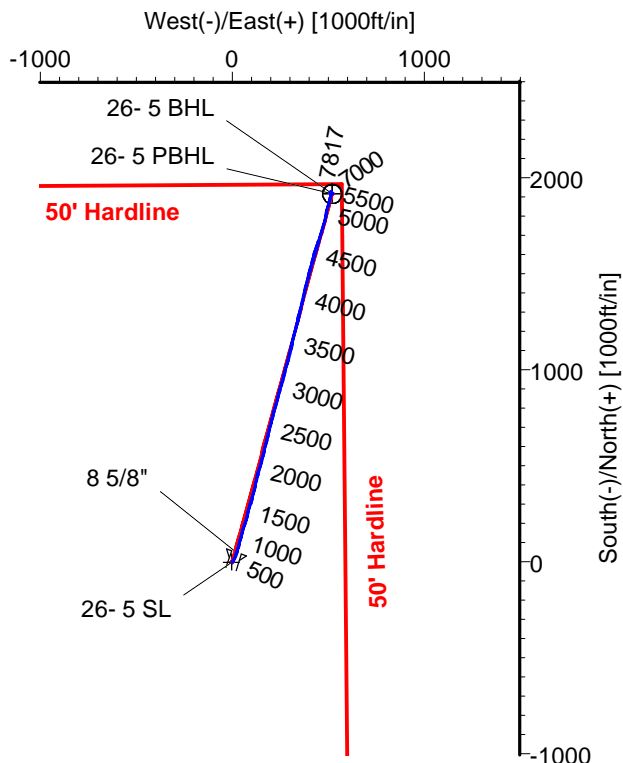
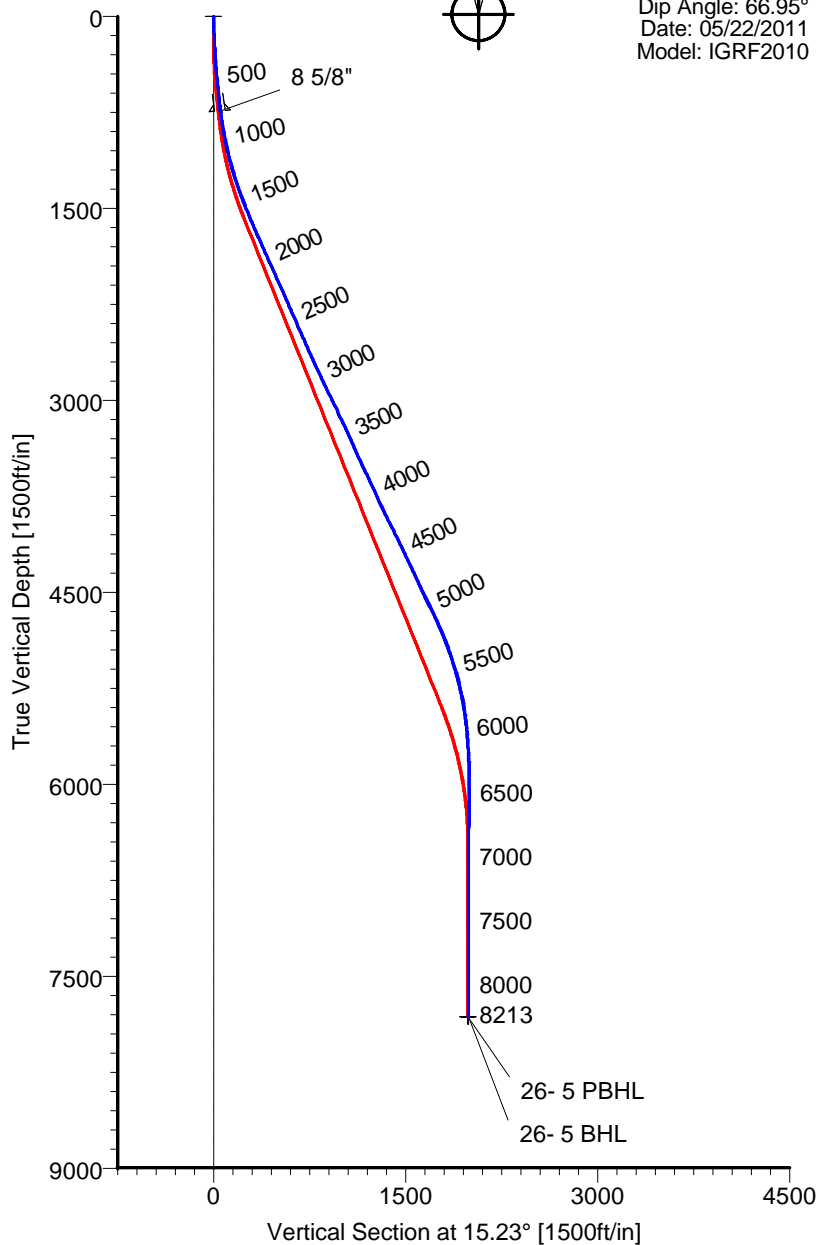
ANADARKO PETROLEUM

Field: Weld County, CO
Site: REI 8-5 Pad
Well: 26-5
Wellpath: Original Hole



Azimuths to Grid North
True North: -0.53°
Magnetic North: 8.29°

Magnetic Field
Strength: 53112nT
Dip Angle: 66.95°
Date: 05/22/2011
Model: IGRF2010



CASING DETAILS

No.	TVD	MD	Name	Size
1	737.66	740.00	8 5/8"	8.625

LEGEND

- 26-5, Original Hole, Plan #1
- Original Hole

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
26- 5 SL	0.00	0.00	0.00	40°15'22.549N	104°40'47.377W	Point
26- 5 PBHL	7813.00	1916.78	521.86	40°15'41.442N	104°40'40.416W	Circle (Radius: 50)
26- 5 BHL	7817.23	1918.78	522.12	40°15'41.462N	104°40'40.413W	Point

Wellpath: (26-5/Original Hole)

Created By: Ivonne Gonzalez

Date: 05/18/2011

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: REI 8-5 Pad Well: 26-5 Wellpath: Original Hole	Date: 05/18/2011 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 08:28:21 Well: 26-5, Grid North 4853'GL+15'KB 4868.0 Well (0.00N,0.00E,15.23Azi) Minimum Curvature	Page: 1 Db: Adapti
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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
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Site: REI 8-5 Pad Centered on 27-5 Site Position: From: Geographic Position Uncertainty: 0.00 ft Ground Level: 4863.00 ft	Northing: 1337249.71 ft Easting: 3228914.28 ft Latitude: 40 15 22.450 N Longitude: 104 40 47.377 W North Reference: Grid Grid Convergence: 0.53 deg
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Well: 26-5 Well Position: +N/-S 9.99 ft +E/-W -0.06 ft Position Uncertainty: 0.00 ft	Slot Name: 26-5 Well Position: 40 15 22.549 N 104 40 47.377 W Latitude: Longitude:
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Wellpath: Original Hole Current Datum: 4853'GL+15'KB Magnetic Data: 05/22/2011 Field Strength: 53112 nT Vertical Section: Depth From (TVD) ft	Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 8.82 deg Mag Dip Angle: 66.95 deg +N/-S ft +E/-W ft Direction deg
0.00	0.00

Survey Program for Definitive Wellpath				
Date: 05/18/2011	Validated: No	Version: 0		
Actual From	To	Survey	Toolcode	Tool Name
49.00	8168.00	Survey #1 (49.00-8168.00)	MWD	Std MWD
8213.00	8213.00	Survey #2 (8213.00-8213.00)	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
49.00	1.10	44.30	49.00	0.34	0.33	0.41	2.24	2.24	0.00	MWD
140.00	2.10	46.80	139.96	2.10	2.15	2.60	1.10	1.10	2.75	MWD
229.00	3.20	33.40	228.86	5.29	4.71	6.34	1.41	1.24	-15.06	MWD
319.00	3.50	32.70	318.71	9.70	7.58	11.35	0.34	0.33	-0.78	MWD
426.00	5.60	23.20	425.37	17.25	11.40	19.64	2.08	1.96	-8.88	MWD
561.00	6.00	23.60	559.68	29.77	16.82	33.14	0.30	0.30	0.30	MWD
695.00	6.00	20.40	692.94	42.75	22.06	47.05	0.25	0.00	-2.39	MWD
787.00	7.90	16.90	784.26	53.31	25.58	58.16	2.11	2.07	-3.80	MWD
878.00	9.50	16.20	874.21	66.51	29.49	71.92	1.76	1.76	-0.77	MWD
968.00	11.30	17.60	962.73	82.04	34.23	88.15	2.02	2.00	1.56	MWD
1059.00	13.40	14.40	1051.62	100.76	39.55	107.61	2.43	2.31	-3.52	MWD
1150.00	15.00	13.00	1139.84	122.45	44.82	129.92	1.80	1.76	-1.54	MWD
1241.00	17.20	15.90	1227.27	146.86	51.16	155.14	2.57	2.42	3.19	MWD
1332.00	18.80	16.20	1313.81	173.89	58.93	183.26	1.76	1.76	0.33	MWD
1422.00	20.10	18.00	1398.67	202.52	67.76	213.21	1.59	1.44	2.00	MWD
1513.00	22.00	15.10	1483.60	233.85	77.03	245.88	2.38	2.09	-3.19	MWD
1604.00	22.50	15.90	1567.82	267.06	86.24	280.33	0.64	0.55	0.88	MWD
1695.00	23.40	15.50	1651.62	301.22	95.84	315.81	1.00	0.99	-0.44	MWD
1786.00	24.50	13.70	1734.78	336.96	105.14	352.75	1.45	1.21	-1.98	MWD
1876.00	24.10	14.10	1816.81	372.91	114.04	389.77	0.48	-0.44	0.44	MWD
1967.00	24.30	13.70	1899.81	409.12	123.00	427.07	0.28	0.22	-0.44	MWD

Allis-Chalmers Energy, Inc.

Survey Report

Company: ANADARKO PETROLEUM Field: Weld County, CO Site: REI 8-5 Pad Well: 26-5 Wellpath: Original Hole	Date: 05/18/2011 Co-ordinate(NE) Reference: Well: 26-5, Grid North Vertical (TVD) Reference: 4853'GL+15'KB 4868.0 Section (VS) Reference: Well (0.00N,0.00E,15.23Azi) Survey Calculation Method: Minimum Curvature	Time: 08:28:21 Page: 2 Db: Adapti
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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
2058.00	24.10	13.00	1982.82	445.42	131.61	464.35	0.38	-0.22	-0.77	MWD
2149.00	23.80	14.80	2065.98	481.27	140.48	501.27	0.87	-0.33	1.98	MWD
2240.00	23.80	16.90	2149.24	516.59	150.51	537.99	0.93	0.00	2.31	MWD
2330.00	24.10	15.50	2231.50	551.68	160.70	574.52	0.71	0.33	-1.56	MWD
2421.00	23.90	13.40	2314.63	587.51	169.94	611.52	0.96	-0.22	-2.31	MWD
2512.00	23.60	13.70	2397.92	623.14	178.52	648.15	0.36	-0.33	0.33	MWD
2603.00	23.90	13.40	2481.22	658.77	187.11	684.79	0.36	0.33	-0.33	MWD
2693.00	23.40	14.10	2563.66	693.84	195.69	720.88	0.64	-0.56	0.78	MWD
2784.00	24.30	14.10	2646.89	729.53	204.65	757.67	0.99	0.99	0.00	MWD
2875.00	25.20	13.70	2729.53	766.51	213.80	795.75	1.01	0.99	-0.44	MWD
2966.00	25.20	15.50	2811.87	804.00	223.57	834.49	0.84	0.00	1.98	MWD
3057.00	26.20	15.50	2893.86	842.03	234.11	873.96	1.10	1.10	0.00	MWD
3148.00	26.00	15.10	2975.58	880.64	244.68	913.99	0.29	-0.22	-0.44	MWD
3238.00	25.30	16.60	3056.72	918.12	255.31	952.94	1.06	-0.78	1.67	MWD
3329.00	25.90	15.50	3138.78	955.91	266.18	992.26	0.84	0.66	-1.21	MWD
3420.00	24.80	14.80	3221.02	993.51	276.36	1031.22	1.25	-1.21	-0.77	MWD
3511.00	24.10	15.50	3303.86	1029.87	286.20	1068.88	0.83	-0.77	0.77	MWD
3601.00	23.90	13.40	3386.08	1065.31	295.34	1105.48	0.97	-0.22	-2.33	MWD
3692.00	24.50	12.70	3469.08	1101.65	303.76	1142.75	0.73	0.66	-0.77	MWD
3783.00	25.70	14.10	3551.49	1139.19	312.72	1181.33	1.47	1.32	1.54	MWD
3874.00	25.00	14.10	3633.72	1176.98	322.21	1220.29	0.77	-0.77	0.00	MWD
3965.00	24.80	14.10	3716.27	1214.14	331.54	1258.59	0.22	-0.22	0.00	MWD
4056.00	24.80	12.30	3798.87	1251.30	340.26	1296.73	0.83	0.00	-1.98	MWD
4146.00	26.20	14.40	3880.11	1288.99	349.22	1335.45	1.85	1.56	2.33	MWD
4237.00	26.70	14.80	3961.58	1328.21	359.44	1375.98	0.58	0.55	0.44	MWD
4328.00	26.40	13.00	4042.99	1367.69	369.21	1416.64	0.94	-0.33	-1.98	MWD
4419.00	26.00	12.70	4124.64	1406.86	378.15	1456.79	0.46	-0.44	-0.33	MWD
4510.00	25.20	14.10	4206.70	1445.11	387.25	1496.08	1.10	-0.88	1.54	MWD
4600.00	25.70	13.40	4287.97	1482.67	396.44	1534.74	0.65	0.56	-0.78	MWD
4691.00	25.20	16.20	4370.14	1520.47	406.42	1573.84	1.43	-0.55	3.08	MWD
4782.00	24.10	15.10	4452.85	1557.02	416.66	1611.79	1.31	-1.21	-1.21	MWD
4872.00	25.70	13.70	4534.48	1593.72	426.07	1649.67	1.89	1.78	-1.56	MWD
4964.00	27.00	19.40	4616.93	1632.81	437.74	1690.45	3.09	1.41	6.20	MWD
5054.00	25.50	18.30	4697.65	1670.47	450.61	1730.17	1.75	-1.67	-1.22	MWD
5145.00	23.60	18.70	4780.42	1706.33	462.60	1767.92	2.10	-2.09	0.44	MWD
5236.00	21.80	15.90	4864.37	1739.83	473.07	1803.00	2.31	-1.98	-3.08	MWD
5326.00	19.70	12.30	4948.53	1770.73	480.88	1834.87	2.73	-2.33	-4.00	MWD
5417.00	18.00	11.60	5034.65	1799.49	486.98	1864.22	1.88	-1.87	-0.77	MWD
5508.00	16.40	14.10	5121.58	1825.73	492.93	1891.10	1.94	-1.76	2.75	MWD
5599.00	13.70	14.80	5209.45	1848.61	498.82	1914.72	2.97	-2.97	0.77	MWD
5689.00	12.00	15.90	5297.19	1867.91	504.10	1934.74	1.91	-1.89	1.22	MWD
5781.00	9.50	14.40	5387.57	1884.47	508.61	1951.89	2.73	-2.72	-1.63	MWD
5871.00	7.60	14.80	5476.56	1897.42	511.98	1965.27	2.11	-2.11	0.44	MWD
5962.00	5.80	8.20	5566.94	1907.79	514.17	1975.85	2.15	-1.98	-7.25	MWD
6053.00	3.90	4.60	5657.61	1915.42	515.08	1983.46	2.11	-2.09	-3.96	MWD
6144.00	3.50	5.70	5748.42	1921.27	515.60	1989.24	0.45	-0.44	1.21	MWD
6235.00	1.60	339.60	5839.33	1925.23	515.43	1993.01	2.40	-2.09	-28.68	MWD
6325.00	1.10	330.50	5929.30	1927.16	514.57	1994.65	0.60	-0.56	-10.11	MWD
6416.00	0.40	207.10	6020.30	1927.64	514.00	1994.96	1.50	-0.77	-135.60	MWD
6507.00	0.40	211.30	6111.30	1927.08	513.69	1994.34	0.03	0.00	4.62	MWD
6598.00	0.70	228.20	6202.29	1926.44	513.11	1993.57	0.37	0.33	18.57	MWD
6779.00	0.20	176.90	6383.29	1925.39	512.30	1992.34	0.33	-0.28	-28.34	MWD
6960.00	0.40	135.00	6564.28	1924.62	512.76	1991.73	0.16	0.11	-23.15	MWD

Allis-Chalmers Energy, Inc.

Survey Report

Company: ANADARKO PETROLEUM Field: Weld County, CO Site: REI 8-5 Pad Well: 26-5 Wellpath: Original Hole	Date: 05/18/2011 Co-ordinate(NE) Reference: Well: 26-5, Grid North Vertical (TVD) Reference: 4853'GL+15'KB 4868.0 Section (VS) Reference: Well (0.00N,0.00E,15.23Azi) Survey Calculation Method: Minimum Curvature Db: Adapti
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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
7142.00	0.20	117.50	6746.28	1924.03	513.49	1991.35	0.12	-0.11	-9.62	MWD
7324.00	0.70	150.50	6928.27	1922.91	514.32	1990.49	0.30	0.27	18.13	MWD
7505.00	0.40	132.60	7109.27	1921.52	515.33	1989.41	0.19	-0.17	-9.89	MWD
7687.00	0.50	96.70	7291.26	1921.00	516.59	1989.24	0.16	0.05	-19.73	MWD
7868.00	0.70	128.00	7472.25	1920.23	518.24	1988.93	0.21	0.11	17.29	MWD
8050.00	0.70	106.60	7654.24	1919.23	520.19	1988.47	0.14	0.00	-11.76	MWD
8168.00	0.70	100.90	7772.23	1918.88	521.58	1988.51	0.06	0.00	-4.83	MWD
8208.77	0.70	100.90	7813.00	1918.79	522.07	1988.55	0.00	0.00	0.00	26- 5 PBHL
8213.00	0.70	100.90	7817.23	1918.78	522.12	1988.55	0.00	0.00	0.00	26- 5 BHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ---->			<--- Longitude --->		
								Deg	Min	Sec	Deg	Min	Sec
26- 5 SL			0.00	0.00	0.00	1337259.70	3228914.22	40	15	22.549 N	104	40	47.377 W
26- 5 PBHL			7813.00	1916.78	521.86	1339176.48	3229436.08	40	15	41.442 N	104	40	40.416 W
-Circle (Radius: 50)													
26- 5 BHL			7817.23	1918.78	522.12	1339178.48	3229436.34	40	15	41.462 N	104	40	40.413 W