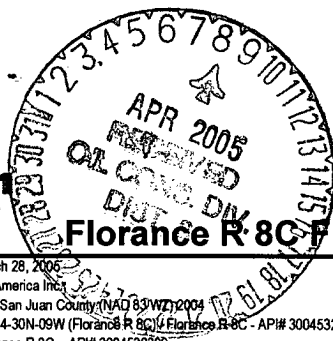


Schlumberger



30-045-32399



Florance R 8C Final Surveys Report

Report Date: March 28, 2005	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: BP America Inc.	Vertical Section Azimuth: 256.360°
Field: NM, San Juan County (NAD 83 WZ) 2004	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: BP 14-30N-09W (Florance R 8C) (Florance R 8C - API# 3004532399)	TVD Reference Datum: RKB
Well: Florance R 8C - API# 3004532399	TVD Reference Elevation: 6081.5 ft relative to MSL
Borehole: Original Hole	Sea Bed / Ground Level Elevation: 6068.000 ft relative to MSL
UWI/API#:	Magnetic Declination: 10.695°
Survey Name / Date: Florance R 8C Final Surveys / March 25, 2005	Total Field Strength: 51415.544 nT
Tort / AHD / DDI / ERD ratio: 63.762° / 764.30 ft / 4.697 / 0.139	Magnetic Dip: 63.694°
Grid Coordinate System: NAD83 New Mexico State Planes, Western Zone, US Feet	Declination Date: March 25, 2005
Location Lat/Long: N 36 48 34.018, W 107 45 8.619	Magnetic Declination Model: BGM 2003
Location Grid N/E Y/X: N 2113970.500 ftUS, E 2746785.371 ftUS	North Reference: Grid North
Grid Convergence Angle: -0.04849510°	Total Corr Mag North -> Grid North: +10.647°
Grid Scale Factor: 0.99991731	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
Surface	0.00	0.00	95.80	0.00	0.00	0.00	0.00	0.00	2113970.50	2746785.37	N 36 48 34.018	W 107 45 8.619
9 5/8" Casing Point	226.00	1.68	95.80	225.97	-3.12	-0.33	3.30	0.74	2113970.17	2746788.67	N 36 48 34.015	W 107 45 8.579
Begin SLB MWD Surveys	286.00	2.12	95.80	285.93	-5.00	-0.54	5.28	0.73	2113969.96	2746790.65	N 36 48 34.013	W 107 45 8.555
	346.00	2.28	101.89	345.89	-7.12	-0.89	7.55	0.47	2113969.61	2746792.92	N 36 48 34.009	W 107 45 8.527
	408.00	2.39	116.71	407.84	-9.22	-1.73	9.91	0.99	2113968.77	2746795.28	N 36 48 34.001	W 107 45 8.498
	468.00	2.64	141.79	467.78	-10.75	-3.38	11.88	1.86	2113967.12	2746797.25	N 36 48 33.985	W 107 45 8.473
	530.00	2.66	169.98	529.72	-11.25	-5.82	13.01	2.08	2113964.58	2746798.38	N 36 48 33.959	W 107 45 8.460
	590.00	3.17	206.15	589.65	-10.10	-8.78	12.53	3.12	2113961.72	2746797.90	N 36 48 33.931	W 107 45 8.466
	651.00	4.62	219.06	650.51	-7.07	-12.20	10.23	2.76	2113958.30	2746795.60	N 36 48 33.897	W 107 45 8.494
	713.00	7.00	227.23	712.18	-1.78	-16.70	5.89	4.05	2113953.80	2746791.26	N 36 48 33.853	W 107 45 8.547
	774.00	9.01	236.57	772.59	5.96	-21.86	-0.83	3.91	2113948.64	2746784.54	N 36 48 33.802	W 107 45 8.630
	838.00	10.88	246.98	835.63	16.64	-26.98	-10.57	4.04	2113943.52	2746774.80	N 36 48 33.751	W 107 45 8.750
	901.00	12.29	256.75	897.35	29.21	-30.85	-22.57	3.83	2113939.66	2746762.80	N 36 48 33.713	W 107 45 8.897
	962.00	13.42	264.99	956.83	42.70	-32.95	-35.95	3.53	2113937.55	2746749.43	N 36 48 33.692	W 107 45 9.062
	1024.00	15.52	268.15	1016.86	57.94	-33.85	-51.40	3.62	2113936.65	2746733.97	N 36 48 33.684	W 107 45 9.252
	1087.00	17.93	268.69	1077.19	75.66	-34.34	-69.53	3.83	2113936.16	2746715.85	N 36 48 33.679	W 107 45 9.475
	1150.00	19.00	268.83	1136.94	95.15	-34.77	-89.48	1.70	2113935.73	2746695.90	N 36 48 33.675	W 107 45 9.720
	1212.00	19.12	268.99	1195.54	114.92	-35.16	-109.72	0.21	2113935.34	2746675.66	N 36 48 33.671	W 107 45 9.969
	1276.00	19.83	268.40	1255.88	135.76	-35.65	-131.05	1.15	2113934.86	2746654.33	N 36 48 33.667	W 107 45 10.231
	1338.00	19.83	264.87	1314.21	156.45	-36.88	-152.04	1.93	2113933.62	2746633.35	N 36 48 33.655	W 107 45 10.489
	1398.00	19.99	260.59	1370.62	176.74	-39.47	-172.29	2.44	2113931.04	2746613.09	N 36 48 33.629	W 107 45 10.739
	1460.00	20.10	258.13	1428.87	197.96	-43.39	-193.17	1.37	2113927.11	2746592.21	N 36 48 33.591	W 107 45 10.995
	1523.00	20.28	257.71	1488.00	219.69	-47.94	-214.43	0.37	2113922.56	2746570.95	N 36 48 33.546	W 107 45 11.257
	1617.00	20.64	257.66	1576.07	252.54	-54.95	-246.54	0.38	2113915.55	2746538.86	N 36 48 33.477	W 107 45 11.652
	1709.00	21.58	257.29	1661.89	285.67	-62.14	-278.88	1.03	2113908.37	2746506.51	N 36 48 33.406	W 107 45 12.049
	1802.00	21.49	254.93	1748.40	319.80	-70.33	-312.01	0.94	2113900.18	2746473.38	N 36 48 33.325	W 107 45 12.457
	1894.00	21.80	254.37	1833.92	353.72	-79.31	-344.74	0.40	2113891.19	2746440.66	N 36 48 33.237	W 107 45 12.859
	1956.00	21.32	252.83	1891.58	378.47	-85.74	-366.59	1.20	2113884.76	2746418.81	N 36 48 33.173	W 107 45 13.128
	2018.00	18.96	252.59	1949.78	397.78	-92.08	-386.98	3.81	2113878.42	2746398.43	N 36 48 33.111	W 107 45 13.379
	2111.00	18.78	251.87	2037.78	427.78	-101.26	-415.62	0.32	2113869.24	2746369.79	N 36 48 33.020	W 107 45 13.731
	2205.00	19.63	255.78	2126.56	458.65	-109.85	-445.31	1.64	2113860.66	2746340.10	N 36 48 32.936	W 107 45 14.096
	2298.00	20.04	255.78	2214.04	490.21	-117.60	-475.89	0.44	2113852.91	2746309.52	N 36 48 32.859	W 107 45 14.473
	2392.00	20.61	255.81	2302.19	522.85	-125.61	-507.55	0.61	2113844.90	2746277.87	N 36 48 32.780	W 107 45 14.862
	2486.00	20.36	257.92	2390.24	555.74	-133.09	-539.58	0.83	2113837.42	2746245.84	N 36 48 32.706	W 107 45 15.256
Last SLB MWD Survey	2556.00	21.17	259.37	2455.70	580.54	-137.97	-563.91	1.37	2113832.54	2746221.51	N 36 48 32.658	W 107 45 15.555
Projection to Bit	2596.00	21.63	260.18	2492.94	595.11	-140.56	-578.27	1.37	2113829.95	2746207.15	N 36 48 32.633	W 107 45 15.732
7" Casing Point	2596.01	21.63	260.18	2492.95	595.11	-140.56	-578.27	0.00	2113829.95	2746207.15	N 36 48 32.633	W 107 45 15.732
End of Natural Drop	3317.00	0.00	260.18	3196.93	729.30	-163.50	-710.79	3.00	2113807.01	2746074.64	N 36 48 32.407	W 107 45 17.362
TD	5612.00	0.00	260.18	5491.93	729.30	-163.50	-710.79	0.00	2113807.01	2746074.64	N 36 48 32.407	W 107 45 17.362

Survey Type: Definitive Survey

Survey Error Model: SLB ISCWSA version 16 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (ft)

0.00

2486.00

MD To (ft)

2486.00

5612.00

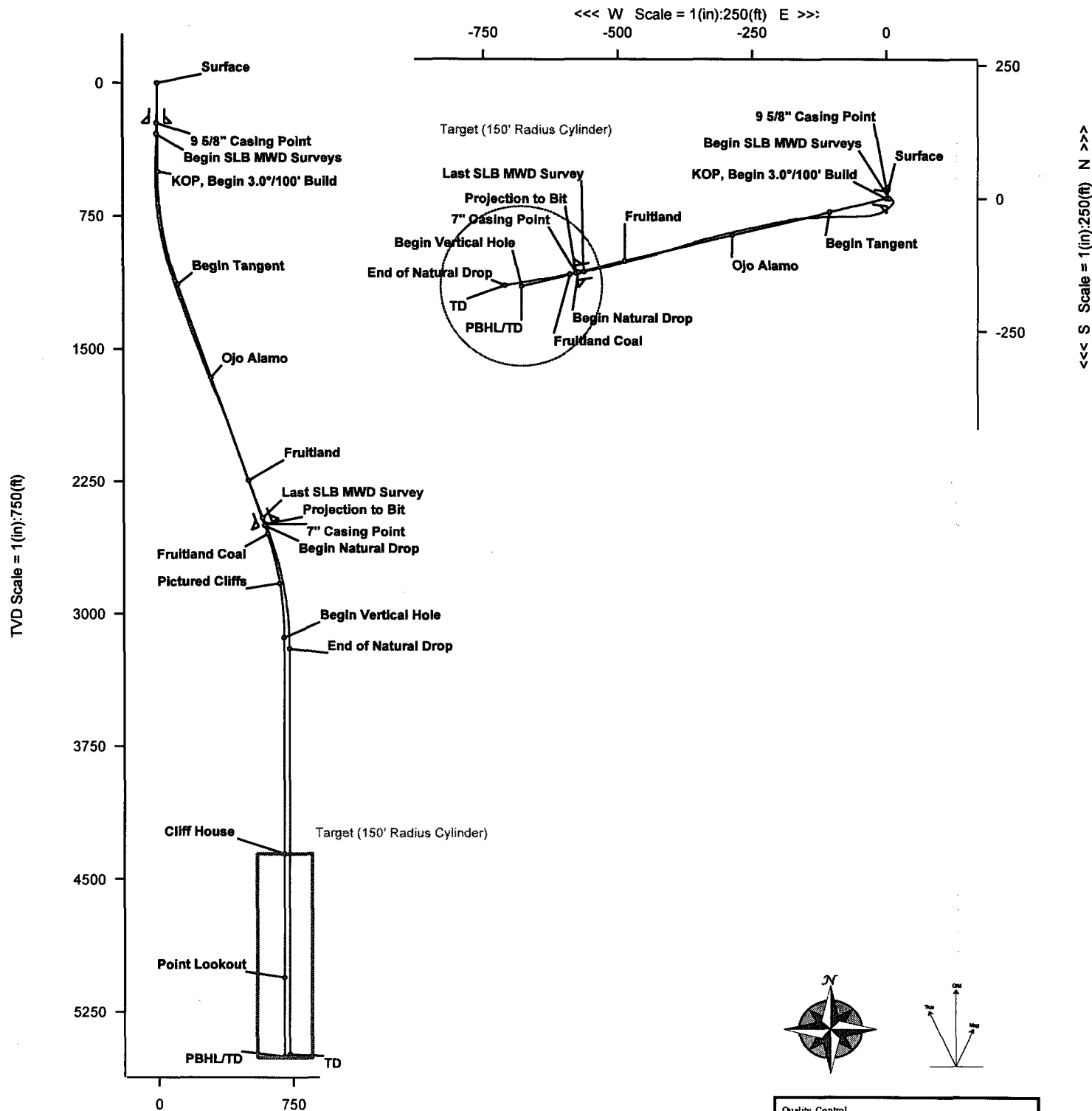
EQU Freq Survey Tool Type

Act-Stns SLB_MWD-STD

Act-Stns SLB_BLIND+TREND

SFC 2065/S 1670/W
BNL 1901/S 989/W

Well Fiorance R 8C - AP# 3004532399	Field San Juan County, New Mexico	Rig Aztec 507
Magnetic Parameters Model BCGM 2004 Dip 83.994° Mag Dec +10.695° Date March 25, 2005 Field Strength 51415.5 nT	Surface Location NAD83 New Mexico State Plane, Western Zone, US Feet Latitude N36 48 34.018 Longitude W107 45 8.619 Northing 2113670.50 ftUS Easting 2748785.37 ftUS Grid Convergence +0.04846510° Scale Factor 0.9999170000	Miscellaneous Borehole Original Hole Plan R0 Jan 22-Nov-04 TVD Reference Survey Date RKB (8081.50 ft above MSL) March 25, 2005



Vertical Section (ft) Azim = 256.36°, Scale = 1(in):750(ft) Origin = 0 N-S, 0 E-W



Quality Control
 Date Drawn: Mon 02:15 PM March 28, 2005
 Drawn by: Jim Winberg
 Checked by: Frank Brezsnayak
 Client OK: