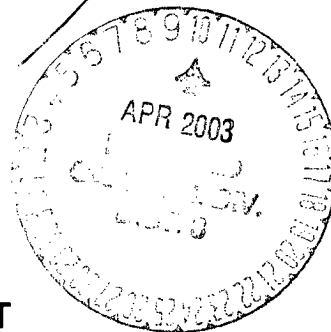


Schlumberger

6501 S. Fiddler's Green Circle, Suite 400
Greenwood Village, CO 80111
(303) 486-3200

30-045-31205



SUB-SURFACE SURVEY CERTIFICATION REPORT

Surface: 2230/N 715/W

BHL: 1914/S 592/W

BP America Inc.
Company

April 2, 2003
Date

Lease	Ulibarri GC 3N (Sidetrack 1) Well Name	San Juan Co., New Mexico County/State
Survey Depths	2875 to 3090 ft	
Type of Survey	Inclination Only Surveys	
Survey Depths	_____ ft	
Type of Survey	_____	
Survey Depths	_____ to _____ ft	
Type of Survey	_____	
Site Supervisor	B. Glasscock	

NSL

The data submitted in this report conforms to the standards and procedures as set forth by Schlumberger. This report represents a true and correct directional wellbore survey based on original survey data obtained at the well site.

John O'Keefe
Drilling Engineer

This document has been subscribed and affirmed, or sworn before me in the county of Arapahoe in the state of Colorado, this 2nd day of April, 2003.

My commission expires: 4/4/04

DAMONA BACHMANN
Notary Public
State of Colorado
My Commission Expires on 04/04/2004

Survey Report - Geodetic

Report Date: 02-Apr-2003 Client: BP San Juan Performance Unit Field: NM, San Juan County (NAD 83 WZ) Structure / Slot: BP 35 30N 9W (Ulibarri Gas Com 3N) No Certified Plat / Ulibarri Gas Com 3N (Have Lat-Long) Well: Ulibarri Gas Com 3N Borehole: Sideltrack 1 UWI/API#:		Survey / DLS Computation Method: Minimum Curvature / Lubinski Vertical Section Azimuth: 210.000° Vertical Section Origin: N 0.000 ft, E 0.000 ft TVD Reference Datum: RKB TVD Reference Elevation: 5693.000 ft relative to MSL Sea Bed / Ground Level Elevation: 5679.000 ft relative to MSL Magnetic Declination: +10.902° Total Field Strength: 51519.289 nT Magnetic Dip: 63.678° Declination Date: February 07, 2003 Magnetic Declination Model: BGGM 2002 North Reference: True North Total Corr Mag North -> True North: +10.902° Local Coordinates Referenced To: Well Head	
Survey Name / Date: Ulibarri GC 3N ST1 Final Surveys / March 27, 2003 Tort / AHD / DDI / ERD ratio: 75.306° / 1155.17 ft / 4.954 / 0.167 Grid Coordinate System: NAD83 New Mexico State Planes, Western Zone, US Feet Location Lat/Long: N 36 46 7.400, W 107 45 23.200 Location Grid N/E Y/X: N 2099142.534 ftUS, E 2745611.667 ftUS Grid Convergence Angle: -0.04602466° Grid Scale Factor: 0.99991725			

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Grid Coordinates		Geographic Coordinates	
									Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
Surface	0.00	0.00	191.20	0.00	0.00	0.00	0.00		2099142.53	2745611.67	N 36 46 7.400	W 107 45 23.200
Begin SLB MWD Surveys	177.00	0.28	191.20	177.00	0.41	-0.42	-0.08	0.16	2099142.11	2745611.58	N 36 46 7.396	W 107 45 23.201
	208.00	0.45	167.94	208.00	0.57	-0.62	-0.07	0.72	2099141.92	2745611.59	N 36 46 7.394	W 107 45 23.201
	239.00	1.08	172.66	239.00	0.89	-1.03	-0.01	2.04	2099141.51	2745611.66	N 36 46 7.390	W 107 45 23.200
	270.00	2.15	166.47	269.98	1.55	-1.88	0.16	3.49	2099140.65	2745611.83	N 36 46 7.381	W 107 45 23.198
	301.00	3.43	169.79	300.95	2.68	-3.36	0.46	4.16	2099139.18	2745612.13	N 36 46 7.367	W 107 45 23.194
	333.00	4.46	170.59	332.87	4.37	-5.53	0.84	3.22	2099137.01	2745612.51	N 36 46 7.345	W 107 45 23.190
	363.00	5.63	168.61	362.75	6.38	-8.12	1.32	3.94	2099134.41	2745612.99	N 36 46 7.320	W 107 45 23.184
	393.00	6.55	174.60	392.58	8.87	-11.27	1.77	3.72	2099131.27	2745613.45	N 36 46 7.289	W 107 45 23.178
	424.00	7.60	176.66	423.35	12.03	-15.08	2.06	3.48	2099127.46	2745613.73	N 36 46 7.251	W 107 45 23.175
	455.00	8.63	178.06	454.04	15.71	-19.45	2.25	3.38	2099123.09	2745613.94	N 36 46 7.208	W 107 45 23.172
	487.00	9.73	178.91	485.63	20.07	-24.55	2.39	3.46	2099117.99	2745614.07	N 36 46 7.157	W 107 45 23.171
	518.00	10.90	178.16	516.12	24.80	-30.10	2.53	3.80	2099112.44	2745614.22	N 36 46 7.102	W 107 45 23.169
	549.00	11.75	178.41	546.52	29.98	-36.18	2.71	2.75	2099106.36	2745614.41	N 36 46 7.042	W 107 45 23.167
	580.00	12.73	179.91	576.82	35.62	-42.75	2.80	3.32	2099099.79	2745614.51	N 36 46 6.977	W 107 45 23.166
	609.00	13.75	180.89	605.04	41.40	-49.40	2.76	3.60	2099093.14	2745614.46	N 36 46 6.912	W 107 45 23.166
	641.00	14.60	180.41	636.07	48.23	-57.23	2.67	2.68	2099085.31	2745614.38	N 36 46 6.834	W 107 45 23.167
	672.00	15.73	180.98	665.99	55.30	-65.34	2.57	3.68	2099077.20	2745614.29	N 36 46 6.754	W 107 45 23.168
	703.00	16.72	182.59	695.75	62.94	-74.00	2.30	3.51	2099068.55	2745614.02	N 36 46 6.668	W 107 45 23.172
	735.00	17.70	182.89	726.32	71.35	-83.45	1.84	3.08	2099059.09	2745613.58	N 36 46 6.575	W 107 45 23.177
	765.00	18.63	183.56	754.83	79.70	-92.79	1.31	3.18	2099049.75	2745613.06	N 36 46 6.482	W 107 45 23.184

796.00	19.73	183.84	784.11	88.83	-102.95	0.66	3.56	2099039.59	2745612.41	N 36 46 6.382	W 107 45 23.192
827.00	20.65	184.18	813.20	98.45	-113.63	-0.09	2.99	2099028.92	2745611.67	N 36 46 6.276	W 107 45 23.201
857.00	21.73	184.79	841.17	108.24	-124.44	-0.94	3.67	2099018.11	2745610.83	N 36 46 6.170	W 107 45 23.212
888.00	22.77	185.64	869.86	118.89	-136.13	-2.01	3.51	2099006.42	2745609.77	N 36 46 6.054	W 107 45 23.225
920.00	23.89	186.35	899.25	130.47	-148.73	-3.34	3.61	2098993.81	2745608.45	N 36 46 5.929	W 107 45 23.241
950.00	24.94	186.68	926.56	141.84	-161.05	-4.74	3.53	2098981.49	2745607.05	N 36 46 5.808	W 107 45 23.258
1011.00	26.31	185.85	981.56	165.99	-187.27	-7.62	2.32	2098955.27	2745604.20	N 36 46 5.548	W 107 45 23.294
1073.00	26.79	185.50	1037.02	191.24	-214.85	-10.36	0.81	2098927.70	2745601.48	N 36 46 5.276	W 107 45 23.327
1167.00	25.41	185.65	1121.44	228.90	-256.01	-14.37	1.47	2098886.54	2745597.50	N 36 46 4.969	W 107 45 23.377
1261.00	25.51	185.97	1206.31	265.76	-296.21	-18.46	0.18	2098846.34	2745593.44	N 36 46 4.471	W 107 45 23.427
1355.00	24.97	185.41	1291.33	302.28	-336.09	-22.44	0.63	2098806.45	2745589.50	N 36 46 4.077	W 107 45 23.476
1448.00	24.94	185.07	1375.65	337.91	-375.17	-26.02	0.16	2098767.38	2745585.95	N 36 46 3.690	W 107 45 23.520
1542.00	25.22	184.78	1460.79	374.00	-414.86	-29.44	0.33	2098727.68	2745582.56	N 36 46 3.298	W 107 45 23.562
1635.00	25.87	183.18	1544.70	410.04	-454.87	-32.22	1.02	2098687.68	2745579.81	N 36 46 2.902	W 107 45 23.596
1727.00	26.25	181.84	1627.34	445.89	-495.24	-33.99	0.76	2098647.31	2745578.08	N 36 46 2.503	W 107 45 23.618
1819.00	26.79	180.88	1709.66	481.94	-536.31	-34.96	0.75	2098606.24	2745577.14	N 36 46 2.097	W 107 45 23.630
1882.00	27.18	182.26	1765.81	507.07	-564.88	-35.74	1.17	2098577.67	2745576.38	N 36 46 1.815	W 107 45 23.639
1945.00	27.34	182.79	1821.81	532.68	-593.71	-37.02	0.46	2098548.84	2745575.13	N 36 46 1.530	W 107 45 23.655
2006.00	27.89	182.76	1875.86	557.82	-621.95	-38.38	0.90	2098520.60	2745573.79	N 36 46 1.250	W 107 45 23.672
2067.00	28.24	183.87	1929.69	583.46	-650.60	-40.05	1.03	2098491.96	2745572.15	N 36 46 0.967	W 107 45 23.692
2129.00	28.25	185.35	1984.31	609.97	-679.85	-42.40	1.13	2098462.71	2745569.81	N 36 46 0.678	W 107 45 23.721
2191.00	28.04	183.97	2038.98	636.40	-708.99	-44.78	1.10	2098433.57	2745567.46	N 36 46 0.390	W 107 45 23.750
2254.00	27.62	182.22	2094.69	662.62	-738.36	-46.37	1.46	2098404.20	2745565.89	N 36 46 0.099	W 107 45 23.770
2315.00	27.53	182.31	2148.76	687.62	-766.57	-47.49	0.16	2098375.99	2745564.80	N 36 45 59.820	W 107 45 23.784
2378.00	26.17	181.39	2204.97	712.71	-795.01	-48.41	2.26	2098347.55	2745563.90	N 36 45 59.539	W 107 45 23.795
2439.00	25.52	181.23	2259.87	736.03	-821.60	-49.02	1.07	2098320.97	2745563.31	N 36 45 59.276	W 107 45 23.802
2502.00	25.48	181.87	2316.73	759.88	-848.71	-49.75	0.44	2098293.86	2745562.60	N 36 45 59.008	W 107 45 23.811
2565.00	25.92	181.59	2373.50	783.94	-876.02	-50.58	0.72	2098266.55	2745561.80	N 36 45 58.738	W 107 45 23.822
2627.00	26.06	180.82	2429.23	807.75	-903.18	-51.15	0.59	2098239.39	2745561.25	N 36 45 58.470	W 107 45 23.829
2690.00	25.34	181.24	2485.99	831.65	-930.49	-51.64	1.18	2098212.08	2745560.78	N 36 45 58.199	W 107 45 23.835
2752.00	25.69	180.66	2541.95	855.00	-957.20	-52.08	0.69	2098185.38	2745560.36	N 36 45 57.935	W 107 45 23.840
2815.00	25.62	180.63	2598.74	878.77	-984.47	-52.39	0.11	2098158.10	2745560.07	N 36 45 57.666	W 107 45 23.844
2875.00	22.70	207.00	2653.63	901.71	-1007.83	-57.80	18.48	2098134.74	2745554.68	N 36 45 57.435	W 107 45 23.910
2904.00	20.92	207.00	2680.56	912.47	-1017.43	-62.69	6.14	2098125.14	2745549.80	N 36 45 57.340	W 107 45 23.971
2935.00	19.84	207.00	2709.62	923.25	-1027.05	-67.60	3.48	2098115.52	2745544.90	N 36 45 57.245	W 107 45 24.031
2966.00	19.08	207.00	2738.85	933.56	-1036.25	-72.28	2.45	2098106.31	2745540.22	N 36 45 57.154	W 107 45 24.088
2997.00	18.12	207.00	2768.23	943.44	-1045.06	-76.77	3.10	2098097.50	2745535.74	N 36 45 57.067	W 107 45 24.144
3028.00	17.61	207.00	2797.73	952.93	-1053.53	-81.09	1.65	2098089.02	2745531.43	N 36 45 56.983	W 107 45 24.197
3059.00	16.90	207.00	2827.34	962.12	-1061.73	-85.26	2.29	2098080.83	2745527.26	N 36 45 56.902	W 107 45 24.248
3090.00	16.10	207.00	2857.06	970.91	-1069.57	-89.26	2.58	2098072.98	2745523.27	N 36 45 56.824	W 107 45 24.297

Tie-into Original Hole
Begin SLB Inclusion Surveys on Assumed Azimuth

Last SLB Inclusion Survey

Begin Client Assumed Drop	3091.00	16.07	207.00	2858.02	971.18	-1069.82	-89.39	3.00	2098072.73	2745523.15	N 36 45 56.822	W 107 45 24.299
End Client Assumed Drop	3626.67	0.00	207.00	3386.69	1045.71	-1136.31	-123.27	3.00	2098006.22	2745489.32	N 36 45 56.164	W 107 45 24.715
Client Assumed TD	7171.00	0.00	207.00	6931.02	1045.71	-1136.31	-123.27	0.00	2098006.22	2745489.32	N 36 45 56.164	W 107 45 24.715

N E

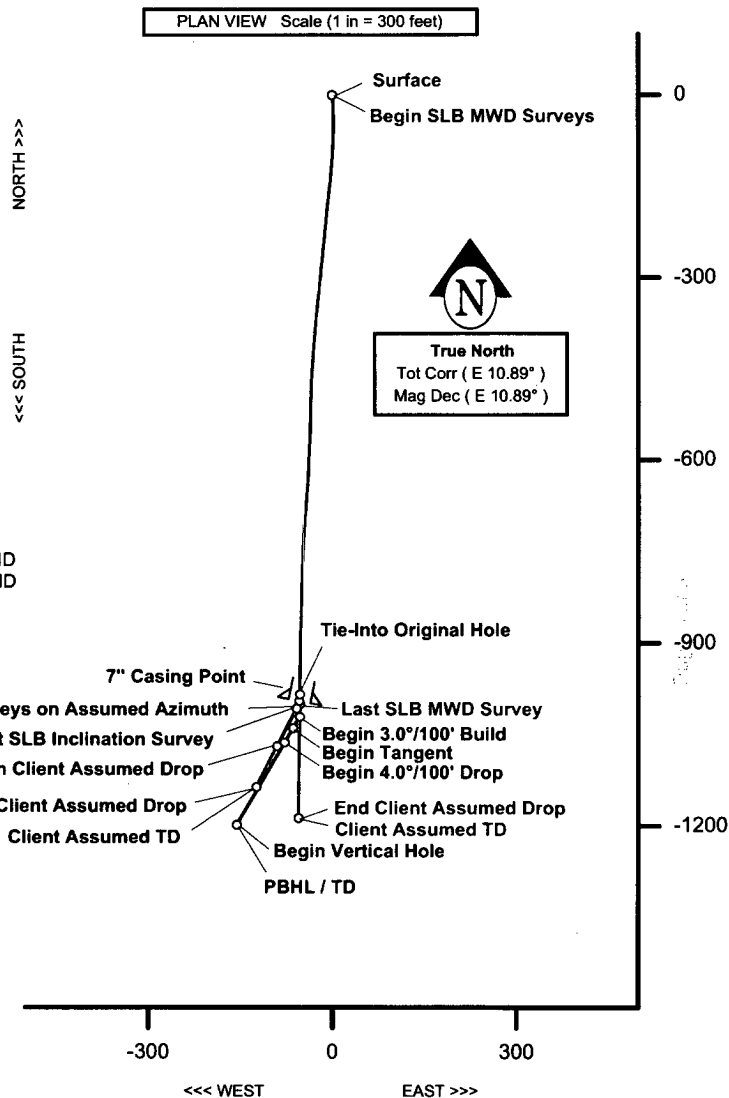
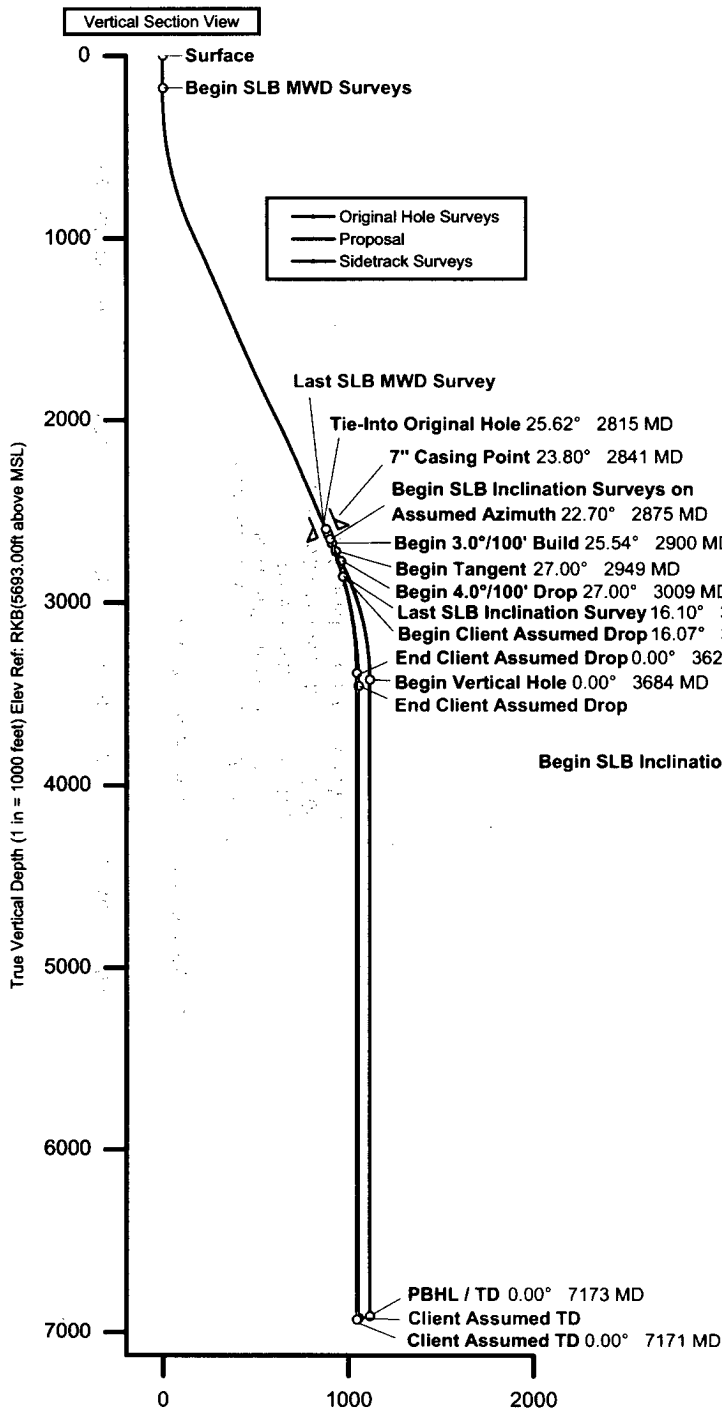
Survey Error Model: Topographic 3-D 95.00% Confidence 2.7955 sigma

Surveying Programme:

<u>MD From (ft)</u>	<u>MD To (ft)</u>	<u>EOU Freq</u>	<u>Survey Tool Type</u>
0.00	177.00	Act-Stns	Blind Drilling
177.00	2815.00	Act-Stns	MWD1
2815.00	3090.00	Act-Stns	Inclination Only
3090.00	7171.00	Act-Stns	Blind Drilling



WELL	FIELD	RIG
Ulibarri Gas Com 3N	San Juan County, New Mexico	AWS 54
Magnetic Parameters Model: BGGM 2002 Dip: 63.678° Mag Dec: 10.902° Date: February 07, 2003 FS: 51519.3 nT	Surface Location Lat: N36 46 7.400 Lon: W107 45 23.200 North: 2099142.53 ftUS East: 2745611.67 ftUS Grid Conv: 0.0460° Scale Fact: 0.9999	Plan# : Rev0 ST1 jok 03-Feb-03 Slot: Ulibarri Gas Com 3N (Have Lat-Long) Elev Ref: RKB(5693.00ft above MSL) Date Drawn: 01:03:54PM 02-Apr-2003



Vertical Section Departure at 210.00 deg from (0.0, 0.0). (1 in = 1000 feet)

Quality Control
 Date Drawn: 02-Apr-2003
 Drawn by: James Wimberg
 Checked by: John O'Keefe
 Client OK: _____