



Scientific Drilling

Scientific Drilling International, Inc.

2034 Trade Drive • Midland, Texas 79703

P. O. Box 9699 • Midland, Texas 79708

Tel: 432-563-1339 • Fax: 432-697-0324

12 February 2007

Diane Crum
Railroad Commission of Texas
Oil & Gas Division
P.O. Box 12967
Austin, Texas 78711

COPY

Subject: Company: OXY USA WTP
Lease Name: University YZ, Well #3H
RRC Lease ID No.: Not Assigned
Field Name: Shafter Lake
Survey Co.: UL
County: Andrews
API No: 42-003-00772

Enclosed, please find the original and one copy of the survey performed on the above referenced well by Scientific Drilling International (P-5 No. 758300). Other information required by your office is as follows:

<u>Name & Title</u> <u>of Surveyor</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Angel Guebara Field Technician	0'-9550'	10/19/06	Keeper Gyro

A Certified plat on which the bottom hole location is oriented to the surface location is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Regards,

Becky Wharton

Enclosures

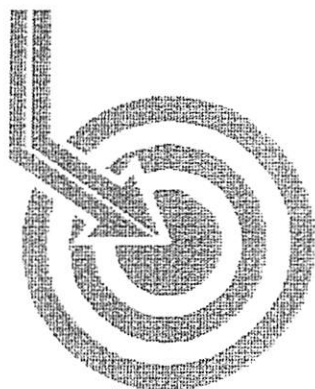
cc:



State of Texas
County of Midland

I, Angel Guebara, certify that; I am employed by Scientific Drilling International; that I did on the day(s) of 10/19/06 through 10/19/06 conduct or supervise the taking of a Keeper Gyro survey from a depth of 0 feet to a depth of 9550 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Scientific Drilling International; that I am authorized and qualified to make this report; that this survey was conducted at the request of OXY USA WTP for the University YZ #3H Well, API# 42-003-00772 in Andrews County, Texas; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Scientific Drilling International.

Angel Guebara
Field Technician



Scientific Drilling

OCCIDENTAL PERMIAN LTD.

Field: Shafter Lake
Site: Andrews County, Texas
Well: University YZ #3H
Wellpath: VH - Job #32K1006847
Survey: 10/19/06

This survey is correct to the best of my knowledge and is supported by actual field data.

E. Shafter Company Representative



Scientific Drilling International Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: Shafter Lake
Site: Andrews County, Texas
Well: University YZ #3H
Wellpath: VH - Job #32K1006847

Date: 02/11/2007 Time: 17:26:55 Page: 1
Co-ordinate(N/E) Reference: Site: Andrews County, Texas, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,51.61Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 10/19/06
KSRG 0'-9550'
Company: Scientific Drilling Internatio
Tool: Keeper, Keeper Surface Readout

Start Date: 10/19/2006
Engineer: Guebara/Pena/Rowe
Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.41	10.78	100.00	0.27	0.35	0.07	0.41	0.36	10.78
200.00	0.42	37.90	200.00	0.90	0.99	0.36	0.19	1.05	19.88
300.00	0.33	74.04	299.99	1.52	1.36	0.86	0.25	1.61	32.32
400.00	0.37	40.60	399.99	2.10	1.68	1.35	0.20	2.16	38.66
500.00	0.36	30.15	499.99	2.71	2.20	1.71	0.07	2.79	37.93
600.00	0.41	38.52	599.99	3.35	2.75	2.09	0.07	3.46	37.29
700.00	0.46	31.64	699.99	4.08	3.37	2.53	0.07	4.21	36.85
800.00	0.40	45.88	799.98	4.80	3.96	2.99	0.12	4.96	37.07
900.00	0.57	43.47	899.98	5.64	4.56	3.58	0.17	5.80	38.14
1000.00	0.43	6.08	999.98	6.39	5.29	3.96	0.34	6.61	36.81
1100.00	0.47	26.47	1099.97	7.02	6.03	4.18	0.16	7.34	34.74
1200.00	0.55	39.68	1199.97	7.86	6.77	4.67	0.14	8.22	34.62
1300.00	0.53	38.16	1299.96	8.78	7.50	5.26	0.02	9.16	35.06
1400.00	0.40	37.52	1399.96	9.57	8.14	5.76	0.13	9.97	35.29
1500.00	0.07	212.66	1499.96	9.86	8.37	5.94	0.47	10.27	35.38
1600.00	0.16	208.75	1599.96	9.67	8.20	5.85	0.09	10.07	35.49
1700.00	0.29	228.97	1699.96	9.29	7.91	5.59	0.15	9.69	35.24
1800.00	0.40	221.30	1799.96	8.70	7.48	5.17	0.12	9.10	34.63
1900.00	0.42	220.38	1899.96	8.00	6.94	4.70	0.02	8.39	34.10
2000.00	0.42	218.38	1999.95	7.28	6.38	4.24	0.01	7.66	33.60
2100.00	0.40	221.08	2099.95	6.58	5.83	3.78	0.03	6.94	32.97
2200.00	0.45	199.78	2199.95	5.90	5.19	3.42	0.16	6.22	33.34
2300.00	0.69	149.41	2299.94	5.49	4.31	3.59	0.53	5.61	39.79
2400.00	0.83	133.37	2399.93	5.51	3.30	4.42	0.25	5.51	53.28
2500.00	1.48	92.38	2499.91	6.59	2.75	6.23	1.01	6.81	66.22
2600.00	1.95	85.58	2599.87	8.98	2.82	9.22	0.51	9.64	72.97
2700.00	2.10	83.14	2699.81	11.95	3.17	12.73	0.17	13.12	76.00
2800.00	2.23	78.99	2799.74	15.23	3.76	16.46	0.20	16.88	77.12
2900.00	2.33	81.66	2899.66	18.72	4.43	20.37	0.15	20.85	77.73
3000.00	2.34	80.32	2999.57	22.27	5.07	24.40	0.06	24.92	78.26
3100.00	2.15	84.60	3099.50	25.63	5.59	28.28	0.25	28.82	78.82
3200.00	1.66	93.42	3199.44	28.29	5.68	31.59	0.57	32.10	79.81
3300.00	1.59	87.52	3299.40	30.49	5.65	34.43	0.18	34.89	80.68
3400.00	1.80	84.37	3399.36	32.94	5.87	37.37	0.23	37.83	81.08
3500.00	2.08	69.86	3499.30	35.97	6.64	40.63	0.56	41.17	80.71
3600.00	2.47	55.47	3599.22	39.85	8.49	44.11	0.69	44.92	79.11
3700.00	2.57	52.80	3699.13	44.24	11.07	47.67	0.15	48.94	76.93
3800.00	2.47	54.16	3799.03	48.64	13.69	51.21	0.12	53.00	75.04
3900.00	2.01	57.71	3898.95	52.53	15.88	54.44	0.48	56.71	73.73
4000.00	1.85	58.73	3998.90	55.88	17.66	57.30	0.16	59.96	72.87
4100.00	1.83	57.30	4098.84	59.07	19.36	60.02	0.05	63.07	72.12
4200.00	1.64	61.41	4198.80	62.07	20.91	62.63	0.23	66.02	71.54
4300.00	1.56	65.90	4298.76	64.80	22.15	65.13	0.15	68.79	71.22
4400.00	1.29	82.77	4398.73	67.09	22.85	67.49	0.50	71.25	71.30
4500.00	1.22	92.22	4498.71	68.86	22.95	69.67	0.22	73.35	71.77
4600.00	1.13	90.05	4598.68	70.44	22.91	71.72	0.10	75.29	72.29
4700.00	1.11	97.04	4698.67	71.89	22.79	73.67	0.14	77.11	72.81
4800.00	1.06	108.19	4798.65	73.08	22.38	75.51	0.22	78.76	73.49



Scientific Drilling International Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: Shafter Lake
Site: Andrews County, Texas
Well: University YZ #3H
Wellpath: VH - Job #32K1006847

Date: 02/11/2007 Time: 17:26:55 Page: 2
Co-ordinate(NE) Reference: Site: Andrews County, Texas, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,51.61Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	1.03	108.77	4898.63	74.08	21.80	77.24	0.03	80.26	74.24
5000.00	1.10	119.48	4998.61	74.93	21.04	78.93	0.21	81.68	75.07
5100.00	1.45	126.84	5098.59	75.61	19.81	80.77	0.38	83.16	76.22
5200.00	1.87	133.22	5198.55	76.17	17.94	82.97	0.46	84.88	77.80
5300.00	2.09	134.11	5298.49	76.65	15.56	85.46	0.22	86.87	79.68
5400.00	2.37	137.22	5398.41	77.04	12.77	88.17	0.31	89.09	81.76
5500.00	2.47	138.55	5498.32	77.31	9.64	91.00	0.11	91.51	83.95
5600.00	2.43	139.34	5598.23	77.51	6.42	93.81	0.05	94.03	86.09
5700.00	2.15	145.54	5698.15	77.47	3.26	96.25	0.37	96.31	88.06
5800.00	1.99	154.95	5798.09	76.94	0.14	98.05	0.38	98.05	89.92
5900.00	1.98	154.76	5898.03	76.15	-3.00	99.53	0.01	99.57	91.73
6000.00	1.99	158.98	5997.97	75.23	-6.18	100.89	0.15	101.07	93.51
6100.00	1.86	159.10	6097.91	74.23	-9.32	102.09	0.13	102.51	95.22
6200.00	1.90	159.34	6197.86	73.23	-12.39	103.25	0.04	103.99	96.84
6300.00	2.00	160.73	6297.80	72.16	-15.59	104.41	0.11	105.57	98.49
6400.00	2.09	161.49	6397.73	70.97	-18.96	105.57	0.09	107.26	100.18
6500.00	2.22	163.97	6497.66	69.61	-22.55	106.68	0.16	109.04	101.94
6600.00	2.32	164.84	6597.59	68.08	-26.37	107.74	0.10	110.92	103.75
6700.00	2.35	165.13	6697.50	66.46	-30.30	108.80	0.03	112.94	105.56
6800.00	2.55	164.28	6797.41	64.79	-34.42	109.93	0.20	115.19	107.39
6900.00	2.61	161.80	6897.31	63.14	-38.73	111.24	0.13	117.79	109.19
7000.00	2.67	157.45	6997.20	61.72	-43.04	112.85	0.21	120.77	110.88
7100.00	2.67	161.27	7097.09	60.30	-47.40	114.49	0.18	123.91	112.49
7200.00	2.44	160.52	7197.00	58.83	-51.61	115.94	0.23	126.91	113.99
7300.00	2.38	157.33	7296.91	57.58	-55.53	117.45	0.15	129.92	115.30
7400.00	2.18	155.38	7396.83	56.56	-59.18	119.05	0.21	132.95	116.43
7500.00	2.16	151.82	7496.76	55.77	-62.57	120.73	0.14	135.98	117.40
7600.00	2.13	149.33	7596.69	55.19	-65.83	122.57	0.10	139.13	118.24
7700.00	2.32	147.56	7696.61	54.73	-69.14	124.60	0.20	142.50	119.02
7800.00	2.22	147.68	7796.53	54.32	-72.48	126.72	0.10	145.99	119.77
7900.00	1.58	144.34	7896.48	54.04	-75.24	128.56	0.65	148.96	120.34
8000.00	1.43	147.68	7996.44	53.85	-77.42	130.04	0.17	151.34	120.77
8100.00	1.51	150.91	8096.41	53.50	-79.62	131.34	0.11	153.59	121.22
8200.00	1.63	148.91	8196.37	53.11	-81.99	132.72	0.13	156.00	121.71
8300.00	1.85	155.21	8296.33	52.55	-84.67	134.13	0.29	158.62	122.26
8400.00	1.80	162.20	8396.27	51.62	-87.63	135.29	0.23	161.19	122.93
8500.00	1.62	158.70	8496.23	50.65	-90.45	136.28	0.21	163.56	123.57
8600.00	1.43	163.58	8596.19	49.77	-92.96	137.15	0.23	165.68	124.13
8700.00	1.59	164.35	8696.16	48.76	-95.50	137.87	0.16	167.72	124.71
8800.00	1.79	163.56	8796.12	47.64	-98.33	138.69	0.20	170.01	125.34
8900.00	2.48	171.15	8896.05	45.99	-101.96	139.46	0.74	172.76	126.17
9000.00	3.03	180.60	8995.93	43.27	-106.74	139.77	0.71	175.86	127.37
9100.00	3.11	180.63	9095.79	39.90	-112.09	139.71	0.08	179.12	128.74
9200.00	3.16	182.13	9195.64	36.40	-117.55	139.58	0.10	182.48	130.10
9300.00	3.37	179.69	9295.48	32.80	-123.24	139.49	0.25	186.14	131.46
9400.00	3.52	172.67	9395.30	29.40	-129.23	139.90	0.45	190.45	132.73
9500.00	3.77	173.99	9495.09	26.06	-135.54	140.64	0.26	195.32	133.94
9550.00	3.35	173.52	9545.00	24.41	-138.63	140.97	0.84	197.71	134.52



November 16, 2006

3201 East Loop 250 North
Midland, Texas 79705
Phone: 432-687-1647
Fax: 432-687-1544

Attention: Railroad Commission of Texas
Oil & Gas Division
P.O. Box 12967
Capital Station
Austin, Texas 78711-2967

Re: Customer: Occidental Permian LTD.
Well Name: UNIVERSIT YZ
SECTION 13, BLK 13, UL
1984 FNL & 1984 FWL
Andrews County, Texas
API No. 42-003-00772
Certified # 7006-0810-0000-3509-8876

Attention: Cathy Garrison or Diane Crum

Enclosed, please find the original and one copy of the survey performed on the referenced well by
(P-5 No. 643292). Other information required by your office is as follows:

PathFinder Energy Service

Name & Title of Surveyor	Drainhole Number		Surveyed Depths			Dates Performed			Type of Survey
Mark Gillespie	1	From	9589	To 11188.13	From	8/20/2006	To 10/29/2006		MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines
(or unit line in case of pooling) is attached to the survey report. If any other information is required, please contact
the undersigned at the letterhead address and phone number.

Ronda White
Drill Technician



3201 East Loop 250 North
Midland, Texas 79705
Phone: 432-687-1647
Fax: 432-687-1544

November 16, 2006

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, Mark Gillespie certify that; I am employed by PathFinder Energy Service; that I did on the day(s) of 8/20/2006 to 10/29/2006 conduct or supervise the taking of a MWD survey from a depth of 9589 feet to a depth of 11188.13 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by PathFinder Energy Service; that I am authorized and qualified to make this report; that this survey was conducted at the request of Occidental Permian LTD. for the UNIVERSITY Well API No. 42-003-00772 in Andrews County, Texas and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by PathFinder Energy Service.

A handwritten signature in cursive script that reads "Mark Gillespie".

Mark Gillespie



3201 East Loop 250 North
Midland, Texas 79705
Phone: 432-687-1647
Fax: 432-687-1544

Record for Survey

Occidental Permian LTD.

UNIVERSITY
Andrews County, Texas

SECTION 13, BLK 13, UL

1984 FNL & 1984 FWL

API No. 42-003-00772

Certified # 7006-0810-0000-3509-8876

November 16, 2006

Pathfinder

Survey Report

Page 1
Job No: 101005894
Date: 10/29/2006
Time: 5:38 am
Wellpath ID: MWD SURVEYS
Date Created: 10/19/2006
Last Revision: 10/29/2006

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 53.21 deg.

Survey Reference: WELLHEAD
Reference World Coordinates: Lat. 30.24.43 N - Lon. 105.27.3 W
Reference GRID System: LAMBERT Zone: Texas Central
Reference GRID Coordinates: 387403.80 X 308138.30 Y
North Aligned to: TRUE NORTH
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

OXY PERMIAN
UNIVERSITY YZ 3-H
ANDREWS CO, TX
KEY # 482

DECL: 7.76 TO TRUE
KBH= 13' ROTARY TO GROUND

PATHFINDER OFFICE SUPERVISOR:
MARCUS MITCHUM
PATHFINDER FIELD ENGINEER:
MARK GILLASPIA

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. Dir. (ft) (deg.)	DLS (dg/100ft)
TIED IN TO SCIENTIFIC GYRO									
9550.00	3.35	173.52	9544.98	0.00	29.87	138.63 S	140.97 E	197.71@134.52	0.00
TOP OF WHIPSTOCK									
9589.00	3.35	173.52	9583.91	39.00	28.72	140.89 S	141.23 E	199.49@134.93	0.00
9633.00	13.63	45.35	9627.54	44.00	33.23	138.51 S	145.09 E	200.59@133.67	36.17
9663.00	22.51	42.71	9656.03	30.00	42.40	131.80 S	151.51 E	200.81@131.02	29.72
9693.00	31.74	43.24	9682.70	30.00	55.85	121.81 S	160.83 E	201.75@127.14	30.78
9723.00	40.98	44.38	9706.84	30.00	73.38	109.00 S	173.14 E	204.59@122.19	30.88
9743.00	47.48	45.61	9721.16	20.00	87.18	99.15 S	183.01 E	208.14@118.45	32.78
9761.00	51.79	46.14	9732.81	18.00	100.78	89.60 S	192.85 E	212.65@114.92	24.05
9793.00	60.59	46.31	9750.60	32.00	127.14	71.23 S	212.03 E	223.67@108.57	27.50
9825.00	65.60	46.58	9765.08	32.00	155.47	51.57 S	232.71 E	238.35@102.50	15.67
9856.00	70.17	46.31	9776.75	31.00	183.98	31.79 S	253.51 E	255.50@97.15	14.76
9888.00	75.01	45.08	9786.32	32.00	214.25	10.46 S	275.35 E	275.56@92.18	15.56
9920.00	75.93	43.76	9794.35	32.00	244.86	11.66 N	297.03 E	297.26@87.75	4.92
9951.00	84.94	42.53	9799.49	31.00	274.92	33.95 N	317.91 E	319.72@83.91	29.33
9983.00	87.14	42.88	9801.70	32.00	306.31	57.40 N	339.56 E	344.38@80.40	6.96
10015.00	86.88	42.97	9803.37	32.00	337.75	80.80 N	361.33 E	370.25@77.39	0.86
10047.00	88.11	44.03	9804.77	32.00	369.26	103.99 N	383.33 E	397.19@74.82	5.07
10078.00	89.08	44.38	9805.53	31.00	399.87	126.21 N	404.94 E	424.15@72.69	3.33
10110.00	88.81	44.64	9806.12	32.00	431.50	149.02 N	427.37 E	452.61@70.78	1.17
10142.00	88.55	44.03	9806.86	32.00	463.11	171.91 N	449.73 E	481.46@69.08	2.07
10172.00	88.11	43.68	9807.73	30.00	492.70	193.53 N	470.50 E	508.75@67.64	1.87
10204.00	88.02	43.76	9808.81	32.00	524.24	216.64 N	492.61 E	538.14@66.26	0.38
10236.00	88.90	44.99	9809.67	32.00	555.85	239.51 N	514.88 E	567.95@65.06	4.73
10267.00	88.64	45.61	9810.34	31.00	586.55	261.31 N	537.01 E	597.21@64.05	2.17
10299.00	88.29	44.91	9811.19	32.00	618.23	283.82 N	559.73 E	627.58@63.11	2.44
10331.00	88.55	44.73	9812.08	32.00	649.87	306.51 N	582.28 E	658.02@62.24	0.99
10363.00	88.64	46.31	9812.86	32.00	681.57	328.93 N	605.10 E	688.72@61.47	4.94
10394.00	88.29	46.31	9813.69	31.00	712.34	350.33 N	627.51 E	718.68@60.83	1.13
10426.00	88.29	46.14	9814.65	32.00	744.09	372.46 N	650.60 E	749.67@60.21	0.53

Pathfinder Survey Report

Page 2
Date: 10/29/2006
Wellpath ID: MWD SURVEYS

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
10457.00	88.72	46.14	9815.46	31.00	774.84	393.93 N	672.95 E	779.77@	59.66	1.39
10489.00	88.64	46.05	9816.19	32.00	806.59	416.12 N	696.00 E	810.91@	59.13	0.38
10520.00	88.46	46.31	9816.98	31.00	837.34	437.58 N	718.36 E	841.14@	58.65	1.02
10552.00	88.72	45.70	9817.76	32.00	869.08	459.80 N	741.37 E	872.38@	58.19	2.07
10583.00	88.20	46.14	9818.60	31.00	899.82	481.35 N	763.63 E	902.68@	57.77	2.20
10615.00	88.29	46.05	9819.58	32.00	931.56	503.54 N	786.68 E	934.03@	57.38	0.40
10647.00	88.29	45.87	9820.53	32.00	963.29	525.77 N	809.67 E	965.40@	57.00	0.56
10679.00	87.85	46.31	9821.61	32.00	995.02	547.95 N	832.71 E	996.82@	56.65	1.94
10710.00	87.41	45.70	9822.89	31.00	1025.75	569.48 N	854.99 E	1027.28@	56.33	2.42
10742.00	87.14	45.61	9824.41	32.00	1057.44	591.81 N	877.85 E	1058.71@	56.01	0.89
10774.00	88.11	45.26	9825.74	32.00	1089.12	614.24 N	900.63 E	1090.15@	55.71	3.22
10806.00	88.72	46.31	9826.62	32.00	1120.83	636.55 N	923.56 E	1121.67@	55.42	3.79
10837.00	89.60	47.19	9827.08	31.00	1151.63	657.79 N	946.13 E	1152.32@	55.19	4.01
10868.00	89.16	47.63	9827.41	31.00	1182.47	678.76 N	968.95 E	1183.04@	54.99	2.01
10900.00	88.99	47.28	9827.93	32.00	1214.31	700.40 N	992.53 E	1214.77@	54.79	1.22
10932.00	88.59	47.37	9828.61	32.00	1246.13	722.08 N	1016.05 E	1246.50@	54.60	1.28
10964.00	88.20	47.98	9829.50	32.00	1277.97	743.62 N	1039.70 E	1278.26@	54.43	2.26
10996.00	87.67	47.19	9830.66	32.00	1309.80	765.19 N	1063.31 E	1310.02@	54.26	2.97
11027.00	87.76	45.70	9831.89	31.00	1340.55	786.54 N	1085.75 E	1340.71@	54.08	4.81
11059.00	87.93	45.87	9833.10	32.00	1372.26	808.83 N	1108.67 E	1372.36@	53.89	0.75
11091.00	88.11	46.05	9834.20	32.00	1403.99	831.07 N	1131.66 E	1404.04@	53.71	0.80
11123.00	87.23	46.58	9835.50	32.00	1435.73	853.15 N	1154.78 E	1435.75@	53.54	3.21
11140.00	86.53	45.70	9836.43	17.00	1452.58	864.91 N	1167.02 E	1452.59@	53.46	6.61
STRAIGHT LINE PROJECTION TO BIT										
11188.13	86.53	45.70	9839.34	48.13	1500.21	898.46 N	1201.41 E	1500.21@	53.21	0.00