

Results of Directional Survey

API number:	30-025-41059		
OGRID:		Operator:	OXY USA INC
		Property:	MADERA 17 FEDERAL # 1H

surface	ULSTR:	B	17	T	26S	R	35E
				330	FNL	2240	FEL

BH Loc	ULSTR:	O	17	T	26S	R	35E
13537	MD	9263.7	TVD	348	FSL	2193	FEL
				4932	FNL		

Top Perf/OH	ULSTR:	B	17	T	26S	R	35E
9620	MD	9277.8	TVD	1018	FNL	2216	FEL

Bot Perf/OH	ULSTR:	O	17	T	26S	R	35E
13375	MD	9265.9	TVD	510	FSL	2196	FEL
				4770	FNL		

	MD	N/S	E/W	VD
	9575	-643.36	24.26	9272.16
TOP PERFS/OH	9620	-687.99	24.15	9277.81
	9655	-722.70	24.06	9282.21
	13313	-4378.20	44.04	9266.67
BOT PERFS/OH	13375	-4440.19	44.27	9265.86
	13408	-4473.19	44.40	9265.43

NEXT TO LAST	13408	-4473.19	44.40	9265.43
LAST READING	13489	-4554.16	46.01	9264.37
TD	13537	-4602.14	46.96	9263.74

Surface Location	330	FN	2240	FE
Projected BHL	4932	FN	2193	FE
Location of				
Top Perfs/OH	1018	FN	2216	FE
Bottom Perfs/OH	4770	FN	2196	FE

SUMMARY of Subsurface Locations

Surface Location	B-17-26S-35E	330	FN	2240	FE	Vert. Depth
Top Perfs/OH	B-17-26S-35E	1018	FN	2216	FE	9277.81
Bottom Perfs/OH	O-17-26S-35E	4770	FN	2196	FE	9265.86
Projected TD	O-17-26S-35E	4932	FN	2193	FE	9263.74

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Jabalina Delaware, SW

Lea County, NM

Madera "17" Federal #1H

DH - Job #320413-MPH-399

Survey: MWD

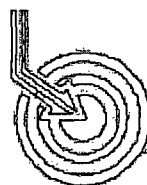
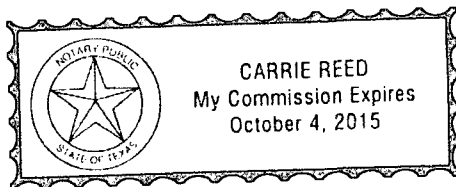
SDI Standard Survey Report

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

Notarized this date 30th of May, 2013.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling



MWD Survey Report
for
OXY

Well Location	Madera 17 Fed 1H
Well Name	Madera 17 Fed #1H
Rig Name	H&P 474
Survey Date	4/18/2013
Latitude	32°2'58.292"N
B Total	48352 NT
Dip	60.01 deg
Magnetic Declination	7.27 deg
North Reference	Grid North
Grid Correction	-0.50 deg
Depth Reference	RKB (25.00 ft)
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 0.00Azim (deg)
Definitive Survey	COMPUTED SURVEY
Operator(s)	J. Perkins, L. Natividad

Well Notes

Survey Report

Well Name:		Madera 17 Fed #1H					
Survey:		COMPUTED SURVEY					
Survey Date:		4/18/2013					
MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
125.00	0.44	123.79	125.00	-0.27	-0.27	0.40	0.35
308.00	0.88	127.09	307.99	-1.51	-1.51	2.10	0.24
341.02	0.92	126.21	341.00	-1.81	-1.81	2.52	0.13
428.00	1.01	124.19	427.97	-2.66	-2.66	3.72	0.11
617.00	1.19	120.59	616.93	-4.59	-4.59	6.78	0.10
711.00	1.09	123.76	710.92	-5.59	-5.59	8.37	0.13
894.00	0.79	126.17	893.89	-7.30	-7.30	10.83	0.17
1082.00	0.48	116.37	1081.88	-8.41	-8.41	12.59	0.17
1177.00	0.62	109.87	1176.88	-8.76	-8.76	13.43	0.16
1267.00	0.62	132.67	1266.87	-9.26	-9.26	14.24	0.27
1362.00	0.70	132.10	1361.86	-10.00	-10.00	15.05	0.08
1457.00	0.62	137.68	1456.86	-10.77	-10.77	15.83	0.11
1551.00	0.62	137.90	1550.85	-11.52	-11.52	16.51	0.00
1646.00	0.62	140.98	1645.85	-12.30	-12.30	17.18	0.04
1740.00	0.48	147.70	1739.84	-13.03	-13.03	17.71	0.16
1835.00	0.48	150.30	1834.84	-13.71	-13.71	18.12	0.02
1930.00	0.40	141.60	1929.84	-14.32	-14.32	18.52	0.11
2024.00	0.48	130.17	2023.83	-14.83	-14.83	19.03	0.13
2119.00	0.70	130.87	2118.83	-15.46	-15.46	19.77	0.23
2213.00	0.88	126.48	2212.82	-16.27	-16.27	20.78	0.20
2308.00	1.10	128.68	2307.80	-17.27	-17.27	22.08	0.23
2403.00	1.19	125.99	2402.79	-18.42	-18.42	23.59	0.11
2497.00	0.79	115.67	2496.77	-19.28	-19.28	24.97	0.46
2592.01	0.70	123.09	2591.77	-19.88	-19.88	26.04	0.14
2687.01	0.22	118.70	2686.77	-20.28	-20.28	26.69	0.51
2781.01	0.31	303.67	2780.77	-20.23	-20.23	26.64	0.56
2876.01	0.40	331.09	2875.77	-19.79	-19.79	26.26	0.20
2971.01	0.31	351.30	2970.77	-19.25	-19.25	26.06	0.16
3065.01	0.40	10.59	3064.76	-18.68	-18.68	26.08	0.16
3160.01	0.48	20.70	3159.76	-17.98	-17.98	26.29	0.12
3255.01	0.79	29.97	3254.76	-17.04	-17.04	26.75	0.34
3350.01	0.79	355.17	3349.75	-15.82	-15.82	27.03	0.50
3444.01	1.01	1.87	3443.74	-14.34	-14.34	27.00	0.26
3539.01	0.62	6.38	3538.73	-13.00	-13.00	27.08	0.42
3634.01	0.62	20.48	3633.72	-12.00	-12.00	27.32	0.16
3729.01	1.01	5.28	3728.71	-10.69	-10.69	27.58	0.47
3823.01	1.10	2.68	3822.70	-8.96	-8.96	27.69	0.11
3918.01	1.49	343.17	3917.67	-6.87	-6.87	27.38	0.61

Survey Report

Well Name:		Madera 17 Fed #1H					
Survey:		COMPUTED SURVEY					
Survey Date:		4/18/2013					
MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
4012.01	1.71	337.20	4011.63	-4.41	-4.41	26.48	0.29
4021.39	1.72	336.38	4021.01	-4.15	-4.15	26.37	0.28
4107.01	1.80	329.29	4106.59	-1.82	-1.82	25.17	0.27
4202.01	1.80	328.80	4201.54	0.74	0.74	23.64	0.02
4226.49	1.86	329.50	4226.01	1.41	1.41	23.23	0.26
4271.51	1.96	330.67	4271.01	2.72	2.72	22.49	0.24
4296.01	2.02	331.26	4295.49	3.46	3.46	22.07	0.26
4391.01	2.20	331.48	4390.43	6.53	6.53	20.40	0.19
4486.01	1.89	325.90	4485.37	9.43	9.43	18.65	0.39
4580.01	1.41	327.00	4579.33	11.68	11.68	17.15	0.51
4675.01	1.10	348.97	4674.30	13.56	13.56	16.34	0.60
4770.01	0.22	39.99	4769.30	14.59	14.59	16.28	1.03
4864.01	0.62	190.68	4863.30	14.23	14.23	16.30	0.87
4959.01	1.10	142.08	4958.29	13.01	13.01	16.77	0.88
5054.01	1.89	127.58	5053.25	11.33	11.33	18.57	0.92
5148.01	2.29	131.88	5147.19	9.13	9.13	21.20	0.46
5236.90	2.41	134.15	5236.01	6.65	6.65	23.86	0.17
5243.01	2.42	134.30	5242.11	6.47	6.47	24.05	0.19
5356.01	2.42	135.27	5355.01	3.10	3.10	27.43	0.04
5424.00	2.81	138.25	5422.93	0.84	0.84	29.55	0.61
5519.00	2.29	128.06	5517.83	-2.07	-2.07	32.60	0.73
5613.00	2.46	129.47	5611.75	-4.51	-4.51	35.63	0.20
5708.00	1.80	155.18	5706.69	-7.16	-7.16	37.83	1.21
5803.00	1.85	153.72	5801.64	-9.88	-9.88	39.14	0.07
5897.00	1.41	217.88	5895.61	-12.15	-12.15	39.10	1.88
5992.00	1.41	231.59	5990.58	-13.80	-13.80	37.47	0.35
6086.00	1.32	239.42	6084.56	-15.07	-15.07	35.63	0.22
6181.00	1.14	223.07	6179.53	-16.31	-16.31	34.05	0.41
6276.00	1.49	237.31	6274.51	-17.68	-17.68	32.36	0.50
6370.00	1.11	226.59	6368.48	-18.96	-18.96	30.66	0.48
6465.00	1.32	222.89	6463.46	-20.40	-20.40	29.25	0.24
6559.00	1.41	229.48	6557.44	-21.94	-21.94	27.64	0.19
6654.00	1.58	237.66	6652.40	-23.40	-23.40	25.64	0.29
6749.00	1.41	222.89	6747.37	-24.95	-24.95	23.74	0.44
6843.00	1.58	281.78	6841.35	-25.53	-25.53	21.68	1.57
6938.00	1.76	287.84	6936.31	-24.82	-24.82	19.01	0.26
7033.00	1.41	282.83	7031.27	-24.11	-24.11	16.49	0.40
7127.00	1.93	281.96	7125.23	-23.53	-23.53	13.81	0.56

Survey Report

Well Name:		Madera 17 Fed #1H					
Survey:		COMPUTED SURVEY					
Survey Date:		4/18/2013					
MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
7222.00	0.70	262.36	7220.20	-23.27	-23.27	11.66	1.36
7317.00	0.88	249.52	7315.19	-23.61	-23.61	10.40	0.26
7411.00	0.88	263.85	7409.18	-23.94	-23.94	9.01	0.23
7506.00	0.88	252.78	7504.17	-24.23	-24.23	7.59	0.18
7600.00	0.97	250.93	7598.16	-24.70	-24.70	6.15	0.10
7695.00	0.97	250.67	7693.15	-25.23	-25.23	4.63	0.00
7789.00	0.53	169.19	7787.14	-25.92	-25.92	3.97	1.10
7884.00	0.79	36.65	7882.14	-25.82	-25.82	4.44	1.28
7978.00	0.62	24.08	7976.13	-24.84	-24.84	5.03	0.25
8073.00	0.70	27.78	8071.12	-23.86	-23.86	5.51	0.10
8168.00	0.44	36.04	8166.12	-23.05	-23.05	6.00	0.29
8262.00	1.06	55.37	8260.11	-22.26	-22.26	6.92	0.70
8357.00	1.76	70.14	8355.08	-21.27	-21.27	9.02	0.83
8452.00	2.37	53.44	8450.02	-19.60	-19.60	11.97	0.90
8546.00	1.93	55.81	8543.95	-17.55	-17.55	14.84	0.48
8641.00	1.76	46.06	8638.90	-15.64	-15.64	17.22	0.38
8736.00	1.32	57.40	8733.87	-14.04	-14.04	19.19	0.56
8830.00	1.32	60.56	8827.84	-12.92	-12.92	21.04	0.08
8925.00	1.06	56.52	8922.82	-11.90	-11.90	22.73	0.29
9020.00	1.41	43.16	9017.80	-10.57	-10.57	24.25	0.48
9114.00	0.97	49.48	9111.78	-9.21	-9.21	25.65	0.49
9209.00	0.88	50.28	9206.77	-8.23	-8.23	26.82	0.09
9304.00	0.79	54.67	9301.76	-7.38	-7.38	27.91	0.11
9398.00	1.06	28.92	9395.75	-6.25	-6.25	28.86	0.52
9493.00	0.97	22.06	9490.73	-4.74	-4.74	29.58	0.16
9588.00	0.88	348.23	9585.72	-3.28	-3.28	29.74	0.57
9682.00	0.62	347.70	9679.71	-2.08	-2.08	29.48	0.28
9777.00	0.62	251.37	9774.71	-1.75	-1.75	28.89	0.97
9871.00	1.23	285.30	9868.70	-1.64	-1.64	27.44	0.85
9966.00	1.58	294.79	9963.67	-0.82	-0.82	25.26	0.44
10060.00	1.41	289.07	10057.64	0.10	0.10	22.99	0.25
10154.00	1.41	295.31	10151.61	0.97	0.97	20.86	0.16
10249.00	1.14	299.71	10246.58	1.94	1.94	18.98	0.30
10343.00	1.76	315.27	10340.55	3.43	3.43	17.15	0.77
10438.00	1.14	316.15	10435.52	5.14	5.14	15.47	0.65
10533.00	1.14	310.78	10530.50	6.45	6.45	14.09	0.11
10627.00	1.23	311.75	10624.48	7.73	7.73	12.63	0.10
10722.00	1.49	308.23	10719.46	9.18	9.18	10.90	0.29

Survey Report

Well Name:		Madera 17 Fed #1H					
Survey:		COMPUTED SURVEY					
Survey Date:		4/18/2013					
MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS %100ft
10817.00	1.41	310.87	10814.43	10.71	10.71	9.04	0.12
10911.00	1.76	313.33	10908.39	12.45	12.45	7.12	0.38
11020.00	1.06	305.86	11017.36	14.19	14.19	5.09	0.67



MWD Survey Report
for
OXY

Well Location	Madera 17 Fed 1H
Well Name	Madera 17 Fed #1H
Rig Name	H&P 474
Survey Date	5/1/2013
Latitude	32°2'58.292"N
B Total	48352 NT
Dip	60.01 deg
Magnetic Declination	7.27 deg
North Reference	Grid North
Grid Correction	-0.50 deg
Depth Reference	RKB (25.00 ft)
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 179.43Azim (deg)
Definitive Survey	COMPUTED SURVEY
Operator(s)	J. Perkins, L. Natividad

Well Notes



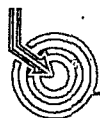
Well Name: Madera 17 Fed #1H
Survey: COMPUTED SURVEY
Survey Date: 5/1/2013

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
125.00	0.44	123.79	125.00	0.27	-0.27	0.40	0.35
308.00	0.88	127.09	307.99	1.53	-1.51	2.10	0.24
341.02	0.92	126.21	341.00	1.84	-1.81	2.52	0.13
428.00	1.01	124.19	427.97	2.69	-2.66	3.72	0.11
617.00	1.19	120.59	616.93	4.66	-4.59	6.78	0.10
711.00	1.09	123.76	710.92	5.67	-5.59	8.37	0.13
894.00	0.79	126.17	893.89	7.41	-7.30	10.83	0.17
1082.00	0.48	116.37	1081.88	8.54	-8.41	12.59	0.17
1177.00	0.62	109.87	1176.88	8.90	-8.76	13.43	0.16
1267.00	0.62	132.67	1266.87	9.40	-9.26	14.24	0.27
1362.00	0.70	132.10	1361.86	10.15	-10.00	15.05	0.08
1457.00	0.62	137.68	1456.86	10.92	-10.77	15.83	0.11
1551.00	0.62	137.90	1550.85	11.68	-11.52	16.51	0.00
1646.00	0.62	140.98	1645.85	12.47	-12.30	17.18	0.04
1740.00	0.48	147.70	1739.84	13.20	-13.03	17.71	0.16
1835.00	0.48	150.30	1834.84	13.89	-13.71	18.12	0.02
1930.00	0.40	141.60	1929.84	14.50	-14.32	18.52	0.11
2024.00	0.48	130.17	2023.83	15.02	-14.83	19.03	0.13
2119.00	0.70	130.87	2118.83	15.66	-15.46	19.77	0.23
2213.00	0.88	126.48	2212.82	16.47	-16.27	20.78	0.20
2308.00	1.10	128.68	2307.80	17.49	-17.27	22.08	0.23
2403.00	1.19	125.99	2402.79	18.66	-18.42	23.59	0.11
2497.00	0.79	115.67	2496.77	19.52	-19.28	24.97	0.46
2592.01	0.70	123.09	2591.77	20.13	-19.88	26.04	0.14
2687.01	0.22	118.70	2686.77	20.55	-20.28	26.69	0.51
2781.01	0.31	303.67	2780.77	20.49	-20.23	26.64	0.56
2876.01	0.40	331.09	2875.77	20.05	-19.79	26.26	0.20
2971.01	0.31	351.30	2970.77	19.51	-19.25	26.06	0.16
3065.01	0.40	10.59	3064.76	18.93	-18.68	26.08	0.16
3160.01	0.48	20.70	3159.76	18.24	-17.98	26.29	0.12
3255.01	0.79	29.97	3254.76	17.30	-17.04	26.75	0.34
3350.01	0.79	355.17	3349.75	16.09	-15.82	27.03	0.50
3444.01	1.01	1.87	3443.74	14.61	-14.34	27.00	0.26
3539.01	0.62	6.38	3538.73	13.27	-13.00	27.08	0.42
3634.01	0.62	20.48	3633.72	12.28	-12.00	27.32	0.16
3729.01	1.01	5.28	3728.71	10.96	-10.69	27.58	0.47
3823.01	1.10	2.68	3822.70	9.24	-8.96	27.69	0.11
3918.01	1.49	343.17	3917.67	7.14	-6.87	27.38	0.61



Well Name: Madera 17 Fed #1H
Survey: COMPUTED SURVEY
Survey Date: 5/1/2013

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
4012.01	1.71	337.20	4011.63	4.67	-4.41	26.48	0.29
4021.39	1.72	336.38	4021.01	4.41	-4.15	26.37	0.28
4107.01	1.80	329.29	4106.59	2.07	-1.82	25.17	0.27
4202.01	1.80	328.80	4201.54	-0.51	0.74	23.64	0.02
4226.49	1.86	329.50	4226.01	-1.18	1.41	23.23	0.26
4271.51	1.96	330.67	4271.01	-2.49	2.72	22.49	0.24
4296.01	2.02	331.26	4295.49	-3.24	3.46	22.07	0.26
4391.01	2.20	331.48	4390.43	-6.33	6.53	20.40	0.19
4486.01	1.89	325.90	4485.37	-9.24	9.43	18.65	0.39
4580.01	1.41	327.00	4579.33	-11.51	11.68	17.15	0.51
4675.01	1.10	348.97	4674.30	-13.39	13.56	16.34	0.60
4770.01	0.22	39.99	4769.30	-14.43	14.59	16.28	1.03
4864.01	0.62	190.68	4863.30	-14.07	14.23	16.30	0.87
4959.01	1.10	142.08	4958.29	-12.84	13.01	16.77	0.88
5054.01	1.89	127.58	5053.25	-11.15	11.33	18.57	0.92
5148.01	2.29	131.88	5147.19	-8.92	9.13	21.20	0.46
5236.90	2.41	134.15	5236.01	-6.41	6.65	23.86	0.17
5243.01	2.42	134.30	5242.11	-6.23	6.47	24.05	0.19
5356.01	2.42	135.27	5355.01	-2.83	3.10	27.43	0.04
5424.00	2.81	138.25	5422.93	-0.55	0.84	29.55	0.61
5519.00	2.29	128.06	5517.83	2.39	-2.07	32.60	0.73
5613.00	2.46	129.47	5611.75	4.86	-4.51	35.63	0.20
5708.00	1.80	155.18	5706.69	7.53	-7.16	37.83	1.21
5803.00	1.85	153.72	5801.64	10.27	-9.88	39.14	0.07
5897.00	1.41	217.88	5895.61	12.54	-12.15	39.10	1.88
5992.00	1.41	231.59	5990.58	14.17	-13.80	37.47	0.35
6086.00	1.32	239.42	6084.56	15.42	-15.07	35.63	0.22
6181.00	1.14	223.07	6179.53	16.65	-16.31	34.05	0.41
6276.00	1.49	237.31	6274.51	18.00	-17.68	32.36	0.50
6370.00	1.11	226.59	6368.48	19.27	-18.96	30.66	0.48
6465.00	1.32	222.89	6463.46	20.69	-20.40	29.25	0.24
6559.00	1.41	229.48	6557.44	22.21	-21.94	27.64	0.19
6654.00	1.58	237.66	6652.40	23.65	-23.40	25.64	0.29
6749.00	1.41	222.89	6747.37	25.19	-24.95	23.74	0.44
6843.00	1.58	281.78	6841.35	25.75	-25.53	21.68	1.57
6938.00	1.76	287.84	6936.31	25.01	-24.82	19.01	0.26
7033.00	1.41	282.83	7031.27	24.28	-24.11	16.49	0.40
7127.00	1.93	281.96	7125.23	23.66	-23.53	13.81	0.56



Well Name: Madera 17 Fed #1H
Survey: COMPUTED SURVEY
Survey Date: 5/1/2013

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
7222.00	0.70	262.36	7220.20	23.39	-23.27	11.66	1.36
7317.00	0.88	249.52	7315.19	23.71	-23.61	10.40	0.26
7411.00	0.88	263.85	7409.18	24.02	-23.94	9.01	0.23
7506.00	0.88	252.78	7504.17	24.30	-24.23	7.59	0.18
7600.00	0.97	250.93	7598.16	24.76	-24.70	6.15	0.10
7695.00	0.97	250.67	7693.15	25.28	-25.23	4.63	0.00
7789.00	0.53	169.19	7787.14	25.96	-25.92	3.97	1.10
7884.00	0.79	36.65	7882.14	25.86	-25.82	4.44	1.28
7978.00	0.62	24.08	7976.13	24.89	-24.84	5.03	0.25
8073.00	0.70	27.78	8071.12	23.91	-23.86	5.51	0.10
8168.00	0.44	36.04	8166.12	23.11	-23.05	6.00	0.29
8262.00	1.06	55.37	8260.11	22.33	-22.26	6.92	0.70
8357.00	1.76	70.14	8355.08	21.36	-21.27	9.02	0.83
8440.00	5.19	130.78	8437.94	23.42	-23.29	13.06	5.53
8503.00	7.56	143.79	8500.54	28.67	-28.50	17.66	4.39
8534.00	7.67	147.72	8531.27	32.09	-31.89	19.97	1.72
8566.00	8.09	154.60	8562.97	35.95	-35.73	22.08	3.22
8598.00	8.79	158.03	8594.62	40.27	-40.04	23.96	2.70
8629.00	9.94	162.25	8625.21	45.03	-44.78	25.66	4.30
8661.00	11.70	167.87	8656.64	50.85	-50.58	27.19	6.40
8692.00	13.37	170.69	8686.90	57.47	-57.19	28.43	5.74
8724.00	15.12	174.55	8717.92	65.29	-65.00	29.42	6.25
8755.00	16.36	178.60	8747.75	73.68	-73.39	29.91	5.32
8787.00	17.50	181.50	8778.37	82.99	-82.70	29.90	4.44
8818.00	19.52	182.46	8807.76	92.83	-92.54	29.55	6.60
8850.00	21.72	182.20	8837.71	104.08	-103.80	29.10	6.88
8881.00	23.92	182.46	8866.28	116.09	-115.81	28.61	7.10
8913.00	25.94	183.08	8895.30	129.55	-129.28	27.95	6.37
8944.00	28.14	181.50	8922.91	143.62	-143.36	27.40	7.46
8976.00	29.81	180.09	8950.90	159.12	-158.86	27.19	5.64
9039.00	36.05	177.89	9003.76	193.34	-193.08	27.84	10.09
9071.00	39.92	178.42	9028.97	213.03	-212.76	28.47	12.13
9102.00	43.18	179.21	9052.17	233.59	-233.31	28.89	10.63
9134.00	45.90	179.48	9074.98	256.03	-255.75	29.15	8.54
9165.00	48.63	179.30	9096.01	278.80	-278.52	29.39	8.80
9197.00	51.97	179.12	9116.45	303.41	-303.13	29.73	10.45
9228.00	54.34	179.74	9135.04	328.22	-327.94	29.98	7.82
9260.00	56.72	180.00	9153.15	354.60	-354.32	30.04	7.45



Well Name: Madera 17 Fed #1H
 Survey: COMPUTED SURVEY
 Survey Date: 5/1/2013

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
9292.00	58.92	180.35	9170.19	381.68	-381.40	29.95	6.93
9323.00	60.32	181.32	9185.87	408.41	-408.14	29.56	5.28
9355.00	62.34	182.29	9201.22	436.46	-436.20	28.67	6.85
9386.00	64.37	182.38	9215.12	464.13	-463.88	27.54	6.53
9418.00	66.57	181.41	9228.41	493.22	-492.98	26.59	7.40
9449.00	69.82	180.97	9239.92	521.98	-521.75	25.99	10.58
9481.00	72.72	180.88	9250.20	552.27	-552.05	25.50	9.07
9512.00	75.10	180.97	9258.79	582.04	-581.82	25.02	7.66
9544.00	78.00	180.62	9266.23	613.15	-612.94	24.59	9.13
9575.00	79.94	180.61	9272.16	643.57	-643.36	24.26	6.28
9655.00	85.62	179.69	9282.21	722.90	-722.70	24.06	7.19
9718.00	87.23	178.68	9286.13	785.78	-785.57	24.96	3.00
9813.00	87.41	177.72	9290.58	880.65	-880.41	27.94	1.03
9908.00	88.81	177.10	9293.71	975.53	-975.26	32.23	1.62
10002.00	89.43	177.10	9295.16	1069.45	-1069.13	36.98	0.65
10097.00	90.22	175.43	9295.45	1164.30	-1163.92	43.16	1.95
10191.00	89.78	175.61	9295.45	1258.08	-1257.64	50.51	0.50
10286.00	89.16	176.84	9296.32	1352.92	-1352.42	56.76	1.45
10380.00	88.72	178.42	9298.05	1446.86	-1446.32	60.65	1.75
10475.00	89.52	179.30	9299.51	1541.84	-1541.29	62.54	1.24
10570.00	89.60	180.18	9300.24	1636.83	-1636.29	62.97	0.93
10665.00	91.10	181.32	9299.66	1731.80	-1731.27	61.73	1.98
10759.00	91.45	180.71	9297.57	1825.74	-1825.24	60.07	0.75
10854.00	91.54	180.62	9295.09	1920.69	-1920.20	58.97	0.13
10948.00	90.84	180.18	9293.14	2014.65	-2014.17	58.32	0.88
11043.00	90.66	180.44	9291.90	2109.63	-2109.16	57.81	0.33
11137.00	91.98	181.67	9289.74	2203.57	-2203.12	56.07	1.92
11232.00	93.83	181.32	9284.93	2298.38	-2297.96	53.60	1.98
11327.00	91.45	182.38	9280.56	2393.19	-2392.80	50.53	2.73
11422.00	90.40	181.50	9279.03	2488.08	-2487.73	47.33	1.45
11516.00	89.16	180.44	9279.39	2582.04	-2581.72	45.74	1.72
11611.00	88.64	180.18	9281.21	2677.01	-2676.70	45.22	0.62
11706.00	89.16	179.91	9283.03	2771.99	-2771.68	45.15	0.62
11800.00	89.08	179.65	9284.47	2865.98	-2865.67	45.50	0.30
11894.00	88.90	178.86	9286.13	2959.96	-2959.64	46.72	0.86
11988.00	89.60	179.39	9287.36	3053.95	-3053.62	48.16	0.94
12083.00	90.22	178.51	9287.50	3148.95	-3148.61	49.91	1.13
12177.00	90.92	179.12	9286.57	3242.94	-3242.58	51.85	0.99
12272.00	91.63	180.18	9284.45	3337.91	-3337.55	52.43	1.33



Well Name: Madera 17 Fed #1H
Survey: COMPUTED SURVEY
Survey Date: 5/1/2013

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
12367.00	91.98	179.48	9281.46	3432.86	-3432.51	52.71	0.83
12461.00	92.77	180.88	9277.57	3526.77	-3526.42	52.42	1.72
12556.00	91.89	181.67	9273.71	3621.64	-3621.32	50.31	1.24
12650.00	88.90	180.79	9273.06	3715.58	-3715.28	48.28	3.32
12745.00	90.57	180.44	9273.50	3810.55	-3810.27	47.26	1.80
12840.00	90.04	180.18	9272.99	3905.54	-3905.27	46.75	0.62
12934.00	91.01	179.39	9272.12	3999.53	-3999.26	47.10	1.33
13029.00	90.92	180.97	9270.52	4094.51	-4094.24	46.81	1.67
13124.00	91.36	180.44	9268.62	4189.46	-4189.22	45.64	0.72
13218.00	90.22	180.53	9267.32	4283.44	-4283.20	44.84	1.22
13313.00	90.57	180.44	9266.67	4378.42	-4378.20	44.04	0.38
13408.00	90.92	179.12	9265.43	4473.41	-4473.19	44.40	1.44
13489.00	90.57	178.60	9264.37	4554.40	-4554.16	46.01	0.78