

Results of Directional Survey

API number:	30-025-41492		
OGRID:		Operator:	RMR OPERATING, LLC
		Property:	MADERA 19 FEDERAL COM # 4H

surface	ULSTR:	N	19	T	26S	R	35E
				330	FSL	1980	FWL

BH Loc	ULSTR:	K	18	T	26S	R	35E
15843	MD	9046.3	TVD	2100	FSL	2155	FWL
				7380	FSL		

Top Perf/OH	ULSTR:	N	19	T	26S	R	35E
9134	MD	8953.1	TVD	698	FSL	2176	FWL

Bot Perf/OH	ULSTR:	K	18	T	26S	R	35E
15843	MD	9046.3	TVD	2100	FSL	2155	FWL
				7380	FSL		

	MD	N/S	E/W	VD
	9132	366.44	195.26	8952.38
TOP PERFS/OH	9134	368.26	195.69	8953.09
	9163	394.67	201.93	8963.31
	15559	6766.90	197.52	9057.49
BOT PERFS/OH	15843	7049.78	175.25	9046.34
	15653	6860.53	190.15	9053.80

NEXT TO LAST	15559	6766.90	197.52	9057.49
LAST READING	15653	6860.53	190.15	9053.80
TD	15843	7049.78	175.25	9046.34

Surface Location	330	FS	1980	FW
Projected BHL	7380	FS	2155	FW
Location of				
Top Perfs/OH	698	FS	2176	FW
Bottom Perfs/OH	7380	FS	2155	FW

SUMMARY of Subsurface Locations

Surface Location	N-19-26S-35E	330	FS	1980	FW	Vert. Depth
Top Perfs/OH	N-19-26S-35E	698	FS	2176	FW	8953.09
Bottom Perfs/OH	K-18-26S-35E	7380	FS	2155	FW	9046.34
Projected TD	K-18-26S-35E	7380	FS	2155	FW	9046.34

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NEXUS

DIRECTIONAL SOLUTIONS, L.P.

Survey Sheet

Company:	RMR	Job Number:	13-0023 ST01	Calculation Method:
Well:	Madera 19 Fed.Com 4H	Mag Decl.:	6.68	
Location:	LEA COUNTY	Dir Driller:	Brad J. Les	Proposed Azimuth
Rig:	Western #6	MWD Eng:	Michael LeMelle	Depth Reference
Leg:		MWD Eng:		Tie Into:

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure	
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth
Tie In	8422	07.3	311.5		8419	-20.46	-22.77	82.3	0	0
1	8446	3.3	348.2	24	8442.98	-19.70	22.00	S 82.05 E	84.95	105.01
2	8477	7.0	34.9	31	8473.85	-16.94	19.24	S 82.03 E	84.25	103.20
3	8508	12.0	10.7	31	8504.42	-11.87	14.19	S 82.79 E	84.00	99.72
4	8540	16.6	13.7	32	8535.42	-4.11	6.47	S 84.49 E	84.74	94.38
5	8571	20.2	15.5	31	8564.83	5.42	2.99	N 86.97 E	87.02	88.03
6	8602	23.4	17.5	31	8593.61	16.53	14.02	N 90.26 E	91.34	81.17
7	8634	25.4	18.6	32	8622.75	29.21	26.58	N 94.36 E	98.03	74.27
8	8665	27.0	18.9	31	8650.57	42.29	39.54	N 98.76 E	106.38	68.18
9	8696	29.8	18.3	31	8677.83	56.38	53.52	N 103.46 E	116.49	62.65
10	8728	32.7	17.6	32	8705.19	72.31	69.31	N 108.58 E	128.81	57.45
11	8759	35.8	17.3	31	8730.81	89.09	85.95	N 113.81 E	142.62	52.94
12	8791	39.1	17.1	32	8756.21	107.83	104.53	N 119.57 E	158.82	48.84
13	8822	42.2	17.2	31	8779.73	127.28	123.83	N 125.52 E	176.32	45.39
14	8853	43.6	16.8	31	8802.43	147.63	144.01	N 131.70 E	195.14	42.44
15	8885	44.7	16.8	32	8825.39	169.13	165.34	N 138.14 E	215.46	39.88
16	8916	46.7	16.6	31	8847.04	190.55	186.59	N 144.52 E	236.01	37.76
17	8948	50.8	16.6	32	8868.14	213.79	209.64	N 151.40 E	258.59	35.84
18	8979	56.7	16.8	31	8886.46	237.91	233.57	N 158.58 E	282.32	34.17
19	9010	62.2	16.0	31	8902.21	263.71	259.17	N 166.12 E	307.84	32.66
20	9037	64.6	15.9	27	8914.30	287.10	282.38	N 172.75 E	331.04	31.46
21	9069	66.0	15.1	32	8927.67	315.32	310.40	N 180.53 E	359.08	30.18
22	9100	66.7	15.0	31	8940.11	342.93	337.82	N 187.91 E	386.56	29.08
23	9132	68.2	13.8	32	8952.38	371.75	366.44	N 195.26 E	415.22	28.05
24	9163	70.5	12.8	31	8963.31	400.15	394.67	N 201.93 E	443.33	27.10
25	9194	73.0	12.6	31	8973.02	429.04	423.39	N 208.40 E	471.90	26.21
26	9226	75.7	12.8	32	8981.65	459.28	453.45	N 215.17 E	501.91	25.39
27	9258	78.4	12.6	32	8988.82	489.88	483.87	N 222.03 E	532.38	24.65
28	9289	81.7	12.4	31	8994.17	519.85	513.67	N 228.64 E	562.26	23.99
29	9321	84.5	12.5	32	8998.02	551.05	544.69	N 235.49 E	593.41	23.38
30	9351	85.1	12.1	30	9000.73	580.41	573.88	N 241.85 E	622.76	22.85
31	9383	86.6	11.9	32	9003.05	611.80	605.10	N 248.49 E	654.13	22.33
32	9445	88.5	9.7	62	9005.70	672.94	665.93	N 260.11 E	714.93	21.34
33	9540	91.1	9.1	95	9006.03	767.05	759.65	N 275.64 E	808.11	19.94
34	9634	89.1	7.4	94	9005.87	860.40	852.66	N 289.14 E	900.35	18.73
35	9729	90.7	7.5	95	9006.03	954.91	946.86	N 301.47 E	993.69	17.66
36	9824	90.9	5.6	95	9004.71	1049.54	1041.22	N 312.33 E	1087.06	16.70
37	9917	91.0	5.1	93	9003.17	1142.32	1133.80	N 321.01 E	1178.37	15.81
38	10011	90.4	4.2	94	9002.02	1236.18	1227.48	N 328.65 E	1270.72	14.99
39	10105	89.5	3.3	94	9002.10	1330.11	1321.28	N 334.81 E	1363.04	14.22
40	10199	90.2	2.5	94	9002.35	1424.09	1415.16	N 339.58 E	1455.33	13.49
41	10292	88.1	1.7	93	9003.73	1517.07	1508.08	N 343.01 E	1546.59	12.81
42	10386	89.7	0.8	94	9005.53	1611.04	1602.03	N 345.07 E	1638.77	12.16
43	10479	88.7	0.3	93	9006.83	1704.02	1695.02	N 345.98 E	1729.97	11.54
44	10575	88.9	359.4	96	9009.68	1799.93	1790.97	N 345.75 E	1824.04	10.93
45	10669	88.0	358.8	94	9013.04	1893.78	1884.90	N 344.29 E	1916.09	10.35
46	10763	85.4	356.4	94	9018.45	1987.38	1978.65	N 340.38 E	2007.71	9.76
47	10857	86.9	356.7	94	9024.76	2080.80	2072.26	N 334.75 E	2099.13	9.18
48	10951	86.7	356.9	94	9030.01	2174.33	2165.97	N 329.53 E	2190.90	8.65
49	11046	85.2	355.6	95	9036.72	2268.68	2260.53	N 323.35 E	2283.54	8.14
50	11140	85.6	355.5	94	9044.26	2361.85	2353.94	N 316.10 E	2375.07	7.65
51	11234	86.4	355.2	94	9050.81	2455.07	2447.41	N 308.51 E	2466.78	7.18

Madera 19 Federal Com. #4H
API# 30-025-41492

We are requesting a permit to sell test oil of approximately 5,000 bbls before the final C-104 is submitted and approved.