



Survey Sheet

Company:	E.O.G. Resources	Job Number:	15-0126	Calculation Method	Minimum Curvature
Well:	Neptune 10 State #502H	GRID Decl.:	6.80	Reference point:	GRID NORTH
Location:	Lea Co., NM	Dir Driller:	Mark Snelson	Proposed Azimuth	356.53
Rig:	Cactus #123	MWD Eng:	Derek Galvin	Depth Reference	Rig
Leg:	Vert / Curve / Lateral	MWD Eng:	Jonathan White	Tie Into:	SURFACE

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth			
Tie In	0	0.00	0.00		0	0	0	0					
THE FOLLOWING ARE NEXUS MWD SURVEYS													
1	191	0.70	44.60	191	191.00	0.78	0.83 N	0.82 E	1.17	44.60	0.37	0.37	23.35
2	250	0.30	78.40	59	249.99	1.04	1.12 N	1.22 E	1.66	47.57	0.81	-0.68	57.29
3	318	0.60	101.90	68	317.99	0.97	1.08 N	1.75 E	2.05	58.25	0.51	0.44	34.56
4	410	0.70	218.50	92	409.99	0.43	0.54 N	1.87 E	1.94	73.83	1.20	0.11	126.74
5	500	1.40	202.30	90	499.97	-0.97	0.91 S	1.11 E	1.43	129.26	0.84	0.78	-18.00
6	591	1.70	197.70	91	590.94	-3.23	3.22 S	0.28 E	3.23	175.10	0.36	0.33	-5.05
7	684	1.80	201.70	93	683.90	-5.84	5.89 S	0.68 W	5.93	186.61	0.17	0.11	4.30
8	777	1.50	218.00	93	776.86	-8.07	8.21 S	1.97 W	8.44	193.51	0.60	-0.32	17.53
9	868	1.60	213.50	91	867.82	-9.98	10.21 S	3.41 W	10.76	198.46	0.17	0.11	-4.95
10	957	2.20	205.20	89	956.77	-12.47	12.79 S	4.82 W	13.67	200.65	0.74	0.67	-9.33
11	1053	1.60	195.70	96	1052.72	-15.36	15.75 S	5.97 W	16.84	200.76	0.70	-0.63	-9.90
12	1148	1.80	212.40	95	1147.68	-17.82	18.28 S	7.13 W	19.62	201.30	0.56	0.21	17.58
13	1243	2.50	192.10	95	1242.61	-21.02	21.57 S	8.36 W	23.13	201.19	1.08	0.74	-21.37
14	1296	3.50	194.70	53	1295.54	-23.67	24.26 S	9.01 W	25.88	200.38	1.90	1.89	4.91
15	1453	3.60	196.10	157	1452.24	-32.87	33.63 S	11.60 W	35.58	199.02	0.08	0.06	0.89
16	1548	1.60	177.00	95	1547.14	-37.01	37.82 S	12.35 W	39.79	198.09	2.27	-2.11	-20.11
17	1643	1.00	146.20	95	1642.11	-39.05	39.84 S	11.82 W	41.55	196.53	0.95	-0.63	-32.42
18	1738	1.00	153.00	95	1737.10	-40.52	41.27 S	10.99 W	42.70	194.91	0.12	0.00	7.16
19	1834	0.90	155.80	96	1833.09	-42.00	42.70 S	10.30 W	43.92	193.56	0.11	-0.10	2.92
20	1928	0.80	152.20	94	1927.08	-43.29	43.95 S	9.69 W	45.01	192.43	0.12	-0.11	-3.83
21	2023	1.00	154.50	95	2022.07	-44.66	45.29 S	9.02 W	46.18	191.27	0.21	0.21	2.42
22	2118	1.00	163.10	95	2117.05	-46.23	46.83 S	8.42 W	47.58	190.20	0.16	0.00	9.05
23	2212	0.90	155.70	94	2211.04	-47.72	48.29 S	7.88 W	48.93	189.27	0.17	-0.11	-7.87
24	2307	0.70	156.70	95	2306.03	-48.96	49.50 S	7.34 W	50.04	188.44	0.21	-0.21	1.05
25	2402	0.70	166.10	95	2401.02	-50.08	50.60 S	6.98 W	51.07	187.85	0.12	0.00	9.89
26	2497	0.50	169.60	95	2496.02	-51.06	51.57 S	6.76 W	52.01	187.47	0.21	-0.21	3.68
27	2591	0.80	179.60	94	2590.01	-52.13	52.63 S	6.68 W	53.05	187.24	0.34	0.32	10.64

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28	2686	0.70	178.70	95	2685.00	-53.37	53.87	S	6.66	W	54.28	187.05	0.11	-0.11	-0.95
29	2781	0.80	183.30	95	2779.99	-54.61	55.11	S	6.69	W	55.52	186.92	0.12	0.11	4.84
30	2876	0.80	178.40	95	2874.98	-55.93	56.44	S	6.71	W	56.84	186.78	0.07	0.00	-5.16
31	2971	0.80	170.30	95	2969.97	-57.25	57.75	S	6.58	W	58.13	186.50	0.12	0.00	-8.53
32	3066	0.70	155.40	95	3064.97	-58.45	58.94	S	6.23	W	59.26	186.03	0.23	-0.11	-15.68
33	3161	0.70	140.20	95	3159.96	-59.46	59.91	S	5.61	W	60.17	185.35	0.19	0.00	-16.00
34	3255	0.70	151.60	94	3253.95	-60.44	60.86	S	4.97	W	61.06	184.67	0.15	0.00	12.13
35	3350	0.70	143.00	95	3348.95	-61.45	61.83	S	4.35	W	61.98	184.02	0.11	0.00	-9.05
36	3445	0.80	137.00	95	3443.94	-62.45	62.78	S	3.55	W	62.88	183.23	0.13	0.11	-6.32
37	3540	1.00	138.90	95	3538.93	-63.62	63.89	S	2.55	W	63.94	182.28	0.21	0.21	2.00
38	3635	0.50	209.20	95	3633.92	-64.62	64.87	S	2.21	W	64.91	181.95	1.01	-0.53	74.00
39	3729	0.80	236.30	94	3727.91	-65.30	65.60	S	2.95	W	65.66	182.58	0.45	0.32	28.83
40	3824	0.90	224.50	95	3822.90	-66.13	66.50	S	4.03	W	66.62	183.46	0.21	0.11	-12.42
41	3920	1.00	231.00	96	3918.89	-67.12	67.56	S	5.21	W	67.76	184.41	0.15	0.10	6.77
42	4014	1.10	221.20	94	4012.87	-68.24	68.76	S	6.44	W	69.06	185.35	0.22	0.11	-10.43
43	4109	1.10	222.90	95	4107.86	-69.52	70.11	S	7.66	W	70.53	186.23	0.03	0.00	1.79
44	4204	1.20	216.00	95	4202.84	-70.92	71.58	S	8.86	W	72.13	187.06	0.18	0.11	-7.26
45	4298	1.40	219.10	94	4296.81	-72.52	73.27	S	10.17	W	73.97	187.90	0.23	0.21	3.30
46	4393	1.50	214.30	95	4391.78	-74.36	75.20	S	11.60	W	76.09	188.77	0.17	0.11	-5.05
47	4488	1.50	188.60	95	4486.75	-76.56	77.46	S	12.49	W	78.46	189.16	0.70	0.00	-27.05
48	4583	1.80	192.00	95	4581.71	-79.21	80.14	S	12.98	W	81.19	189.20	0.33	0.32	3.58
49	4678	1.80	191.30	95	4676.66	-82.09	83.07	S	13.58	W	84.17	189.29	0.02	0.00	-0.74
50	4773	1.20	235.10	95	4771.63	-84.05	85.10	S	14.69	W	86.36	189.80	1.32	-0.63	46.11
51	4867	1.60	270.10	94	4865.61	-84.49	85.66	S	16.81	W	87.29	191.10	0.98	0.43	37.23
52	4962	1.20	233.60	95	4960.58	-84.94	86.25	S	18.94	W	88.30	192.39	1.01	-0.42	-38.42
53	5056	1.20	223.90	94	5054.56	-86.14	87.54	S	20.41	W	89.89	193.13	0.22	0.00	-10.32
54	5139	1.20	215.00	83	5137.54	-87.41	88.88	S	21.52	W	91.45	193.61	0.22	0.00	-10.72
55	5243	0.70	215.10	104	5241.53	-88.76	90.29	S	22.51	W	93.05	194.00	0.48	-0.48	0.10
56	5338	1.50	264.30	95	5336.51	-89.27	90.89	S	24.08	W	94.02	194.84	1.23	0.84	51.79
57	5433	3.20	260.20	95	5431.43	-89.61	91.46	S	27.93	W	95.63	196.98	1.80	1.79	-4.32
58	5528	4.90	251.40	95	5526.19	-90.96	93.21	S	34.39	W	99.35	200.25	1.90	1.79	-9.26
59	5624	5.20	247.60	96	5621.81	-93.44	96.18	S	42.29	W	105.06	203.74	0.47	0.31	-3.96
60	5719	5.10	246.90	95	5716.43	-96.25	99.47	S	50.16	W	111.40	206.76	0.12	-0.11	-0.74
61	5813	4.80	249.10	94	5810.08	-98.84	102.51	S	57.68	W	117.63	209.36	0.38	-0.32	2.34
62	5908	4.60	247.70	95	5904.76	-101.26	105.38	S	64.91	W	123.77	211.63	0.24	-0.21	-1.47
63	6003	4.80	245.40	95	5999.44	-103.92	108.48	S	72.05	W	130.23	213.59	0.29	0.21	-2.42
64	6098	4.70	242.80	95	6094.12	-106.92	111.91	S	79.13	W	137.06	215.26	0.25	-0.11	-2.74
65	6193	4.40	243.70	95	6188.82	-109.90	115.31	S	85.86	W	143.76	216.67	0.32	-0.32	0.95
66	6289	4.10	238.80	96	6284.55	-112.92	118.72	S	92.09	W	150.25	217.80	0.49	-0.31	-5.10
67	6384	4.10	238.00	95	6379.31	-116.13	122.27	S	97.88	W	156.62	218.68	0.06	0.00	-0.84
68	6479	3.80	235.80	95	6474.08	-119.36	125.84	S	103.36	W	162.85	219.40	0.35	-0.32	-2.32
69	6574	4.20	250.80	95	6568.85	-121.91	128.76	S	109.25	W	168.86	220.31	1.17	0.42	15.79
70	6669	4.70	252.00	95	6663.57	-123.83	131.10	S	116.24	W	175.21	221.56	0.54	0.53	1.26
71	6764	4.60	251.80	95	6758.25	-125.77	133.50	S	123.56	W	181.90	222.79	0.11	-0.11	-0.21
72	6859	4.60	244.70	95	6852.95	-128.16	136.31	S	130.62	W	188.79	223.78	0.60	0.00	-7.47
73	6954	4.60	241.90	95	6947.64	-131.16	139.74	S	137.43	W	195.99	224.52	0.24	0.00	-2.95
74	7048	4.50	244.20	94	7041.35	-134.13	143.12	S	144.07	W	203.07	225.19	0.22	-0.11	2.45

75	7143	4.10	239.70	95	7136.08	-137.08	146.45	S	150.36	W	209.89	225.75	0.55	-0.42	-4.74
76	7238	4.00	240.90	95	7230.84	-140.05	149.78	S	156.19	W	216.40	226.20	0.14	-0.11	1.26
77	7333	3.90	239.80	95	7325.62	-142.94	153.01	S	161.87	W	222.75	226.61	0.13	-0.11	-1.16
78	7428	3.70	234.40	95	7420.41	-146.02	156.42	S	167.16	W	228.93	226.90	0.43	-0.21	-5.68
79	7523	5.10	227.90	95	7515.13	-150.29	161.04	S	172.78	W	236.19	227.01	1.56	1.47	-6.84
80	7618	5.30	226.00	95	7609.74	-155.77	166.92	S	179.07	W	244.80	227.01	0.28	0.21	-2.00
81	7713	4.70	224.50	95	7704.37	-161.23	172.74	S	184.96	W	253.08	226.96	0.65	-0.63	-1.58
82	7808	4.00	222.60	95	7799.10	-166.13	177.96	S	189.93	W	260.27	226.86	0.75	-0.74	-2.00
83	7903	3.60	216.90	95	7893.89	-170.71	182.78	S	193.96	W	266.51	226.70	0.58	-0.42	-6.00
84	7998	3.50	227.70	95	7988.71	-174.80	187.12	S	197.90	W	272.35	226.60	0.71	-0.11	11.37
85	8093	4.00	238.70	95	8083.51	-178.16	190.79	S	202.87	W	278.49	226.76	0.92	0.53	11.58
86	8188	3.80	235.20	95	8178.29	-181.35	194.31	S	208.29	W	284.85	226.99	0.33	-0.21	-3.68
87	8283	3.30	230.70	95	8273.10	-184.58	197.84	S	212.99	W	290.70	227.11	0.60	-0.53	-4.74
88	8379	2.80	228.50	96	8368.97	-187.64	201.14	S	216.88	W	295.80	227.16	0.53	-0.52	-2.29
89	8473	2.40	220.60	94	8462.87	-190.47	204.16	S	219.88	W	300.05	227.12	0.57	-0.43	-8.40
90	8569	1.70	243.10	96	8558.81	-192.48	206.33	S	222.46	W	303.41	227.16	1.10	-0.73	23.44
91	8663	1.80	248.80	94	8652.77	-193.49	207.49	S	225.08	W	306.13	227.33	0.21	0.11	6.06
92	8758	1.70	252.80	95	8747.72	-194.28	208.45	S	227.82	W	308.79	227.54	0.17	-0.11	4.21
93	8853	1.80	248.00	95	8842.68	-195.09	209.42	S	230.55	W	311.47	227.75	0.19	0.11	-5.05
94	8948	1.00	250.70	95	8937.65	-195.79	210.26	S	232.71	W	313.63	227.90	0.84	-0.84	2.84
95	9043	0.80	258.80	95	9032.64	-196.10	210.66	S	234.15	W	314.96	228.02	0.25	-0.21	8.53
96	9138	0.70	240.50	95	9127.63	-196.44	211.07	S	235.30	W	316.10	228.11	0.27	-0.11	-19.26
97	9234	0.70	201.80	96	9223.62	-197.23	211.91	S	236.03	W	317.20	228.08	0.48	0.00	-40.31
98	9328	1.10	193.20	94	9317.61	-198.62	213.32	S	236.45	W	318.46	227.94	0.45	0.43	-9.15
99	9423	1.40	172.20	95	9412.59	-200.65	215.36	S	236.50	W	319.86	227.68	0.57	0.32	-22.11
100	9518	0.10	104.90	95	9507.58	-201.83	216.53	S	236.26	W	320.48	227.50	1.44	-1.37	-70.84
101	9613	2.00	302.30	95	9602.56	-200.89	215.66	S	237.58	W	320.87	227.77	2.21	2.00	207.79
102	9708	1.50	295.40	95	9697.52	-199.32	214.24	S	240.11	W	321.80	228.26	0.57	-0.53	-7.26
103	9803	0.90	293.90	95	9792.50	-198.37	213.41	S	241.91	W	322.59	228.58	0.63	-0.63	-1.58
104	9898	1.10	280.80	95	9887.48	-197.81	212.93	S	243.49	W	323.47	228.83	0.32	0.21	-13.79
105	9992	1.30	308.70	94	9981.46	-196.87	212.10	S	245.21	W	324.21	229.14	0.65	0.21	29.68
106	10087	0.90	344.00	95	10076.44	-195.42	210.71	S	246.26	W	324.10	229.45	0.81	-0.42	37.16
107	10182	1.00	96.60	95	10171.44	-194.83	210.09	S	245.64	W	323.23	229.46	1.66	0.11	-260.42
108	10284	0.90	114.10	102	10273.42	-195.36	210.52	S	244.02	W	322.28	229.22	0.30	-0.10	17.16
109	10380	1.10	112.40	96	10369.41	-196.11	211.17	S	242.48	W	321.55	228.95	0.21	0.21	-1.77
110	10475	0.80	107.70	95	10464.40	-196.75	211.72	S	241.01	W	320.80	228.70	0.33	-0.32	-4.95
111	10570	1.10	112.40	95	10559.38	-197.39	212.27	S	239.53	W	320.06	228.45	0.33	0.32	4.95
112	10617	1.30	37.40	47	10606.37	-197.18	212.02	S	238.79	W	319.34	228.40	3.13	0.43	-159.57
113	10665	4.70	7.20	48	10654.30	-194.83	209.64	S	238.22	W	317.32	228.65	7.57	7.08	-62.92
114	10712	7.20	12.20	47	10701.05	-190.11	204.85	S	237.35	W	313.53	229.20	5.43	5.32	10.64
115	10763	10.00	2.40	51	10751.47	-182.62	197.30	S	236.49	W	307.98	230.16	6.18	5.49	-19.22
116	10810	13.90	352.40	47	10797.45	-172.93	187.62	S	237.07	W	302.33	231.64	9.37	8.30	744.68
117	10858	18.60	353.80	48	10843.52	-159.52	174.29	S	238.66	W	295.52	233.86	9.82	9.79	2.92
118	10906	24.70	356.10	48	10888.11	-141.83	156.65	S	240.17	W	286.74	236.88	12.83	12.71	4.79
119	10954	31.30	358.10	48	10930.47	-119.31	134.16	S	241.26	W	276.06	240.92	13.89	13.75	4.17
120	11001	37.90	356.30	47	10969.14	-92.64	107.52	S	242.60	W	265.36	246.10	14.21	14.04	-3.83
121	11049	43.70	353.30	48	11005.46	-61.32	76.31	S	245.49	W	257.08	252.73	12.75	12.08	-6.25

122	11096	49.50	352.90	47	11037.74	-27.24	42.43	S	249.60	W	253.18	260.35	12.36	12.34	-0.85
123	11144	52.50	351.90	48	11067.95	9.96	5.46	S	254.54	W	254.60	268.77	6.46	6.25	-2.08
124	11191	53.30	353.20	47	11096.30	47.35	31.71	N	259.40	W	261.33	276.97	2.79	1.70	2.77
125	11239	57.50	353.60	48	11123.55	86.80	70.95	N	263.93	W	273.30	285.05	8.78	8.75	0.83
126	11270	64.40	355.70	31	11138.59	113.86	97.92	N	266.44	W	283.86	290.18	23.03	22.26	6.77
127	11302	71.50	358.00	32	11150.60	143.50	127.51	N	268.05	W	296.84	295.44	23.16	22.19	7.19
128	11329	78.50	359.70	27	11157.58	169.54	153.57	N	268.57	W	309.38	299.76	26.63	25.93	6.30
129	11366	86.40	0.20	37	11162.44	206.13	190.22	N	268.60	W	329.13	305.31	21.39	21.35	-971.62
130	11454	91.40	0.30	88	11164.13	293.90	278.17	N	268.22	W	386.42	316.04	5.68	5.68	0.11
131	11549	91.30	0.20	95	11161.89	388.67	373.15	N	267.80	W	459.30	324.33	0.15	-0.11	-0.11
132	11644	90.80	1.20	95	11160.15	483.40	468.12	N	266.64	W	538.73	330.33	1.18	-0.53	1.05
133	11738	89.50	0.40	94	11159.90	577.14	562.11	N	265.33	W	621.58	334.73	1.62	-1.38	-0.85
134	11833	89.40	0.50	95	11160.82	671.91	657.10	N	264.58	W	708.37	338.07	0.15	-0.11	0.11
135	11928	88.70	0.10	95	11162.39	766.69	752.09	N	264.09	W	797.10	340.65	0.85	-0.74	-0.42
136	12024	90.10	0.30	96	11163.40	862.49	848.08	N	263.75	W	888.14	342.72	1.47	1.46	0.21
137	12119	89.10	359.80	95	11164.06	957.30	943.07	N	263.67	W	979.24	344.38	1.18	-1.05	378.42
138	12214	88.20	359.20	95	11166.30	1052.15	1038.04	N	264.50	W	1071.21	345.70	1.14	-0.95	-0.63
139	12309	89.10	359.30	95	11168.54	1147.01	1133.01	N	265.74	W	1163.75	346.80	0.95	0.95	0.11
140	12404	90.50	359.90	95	11168.87	1241.87	1228.00	N	266.40	W	1256.57	347.76	1.60	1.47	0.63
141	12499	91.80	359.60	95	11166.96	1336.70	1322.98	N	266.82	W	1349.62	348.60	1.40	1.37	-0.32
142	12593	91.70	359.90	94	11164.09	1430.51	1416.93	N	267.23	W	1441.91	349.32	0.34	-0.11	0.32
143	12688	91.10	359.30	95	11161.77	1525.35	1511.90	N	267.89	W	1535.45	349.95	0.89	-0.63	-0.63
144	12783	91.30	359.20	95	11159.78	1620.22	1606.87	N	269.13	W	1629.26	350.49	0.24	0.21	-0.11
145	12878	88.60	358.50	95	11159.86	1715.13	1701.84	N	271.04	W	1723.29	350.95	2.94	-2.84	-0.74
146	12909	88.90	358.70	31	11160.54	1746.10	1732.83	N	271.80	W	1754.01	351.09	1.16	0.97	0.65
147	13005	88.60	359.20	96	11162.63	1841.99	1828.79	N	273.56	W	1849.14	351.49	0.61	-0.31	0.52
148	13068	87.50	359.90	63	11164.78	1904.87	1891.75	N	274.05	W	1911.50	351.76	2.07	-1.75	1.11
149	13163	88.60	0.40	95	11168.01	1999.62	1986.69	N	273.80	W	2005.47	352.15	1.27	1.16	-378.42
150	13257	88.10	1.00	94	11170.72	2093.33	2080.65	N	272.66	W	2098.43	352.53	0.83	-0.53	0.64
151	13353	89.30	1.80	96	11172.89	2188.96	2176.59	N	270.31	W	2193.31	352.92	1.50	1.25	0.83
152	13448	89.00	1.20	95	11174.30	2283.59	2271.55	N	267.82	W	2287.28	353.28	0.71	-0.32	-0.63
153	13543	88.80	359.90	95	11176.13	2378.34	2366.52	N	266.91	W	2381.53	353.57	1.38	-0.21	377.58
154	13638	89.80	0.20	95	11177.29	2473.15	2461.51	N	266.83	W	2475.93	353.81	1.10	1.05	-378.63
155	13733	89.30	359.90	95	11178.03	2567.97	2556.51	N	266.75	W	2570.39	354.04	0.61	-0.53	378.63
156	13827	89.00	358.80	94	11179.43	2661.84	2650.49	N	267.81	W	2663.99	354.23	1.21	-0.32	-1.17
157	13922	89.80	359.10	95	11180.42	2756.75	2745.47	N	269.55	W	2758.67	354.39	0.90	0.84	0.32
158	14017	90.90	359.80	95	11179.84	2851.62	2840.46	N	270.46	W	2853.31	354.56	1.37	1.16	0.74
159	14112	90.10	359.20	95	11179.01	2946.49	2935.45	N	271.29	W	2947.96	354.72	1.05	-0.84	-0.63
160	14207	89.70	358.90	95	11179.18	3041.40	3030.44	N	272.87	W	3042.70	354.85	0.53	-0.42	-0.32
161	14301	89.60	358.80	94	11179.75	3135.32	3124.42	N	274.76	W	3136.48	354.97	0.15	-0.11	-0.11
162	14396	89.00	358.50	95	11180.92	3230.25	3219.39	N	276.99	W	3231.28	355.08	0.71	-0.63	-0.32
163	14492	87.90	358.50	96	11183.51	3326.15	3315.32	N	279.51	W	3327.08	355.18	1.15	-1.15	0.00
164	14587	89.00	358.60	95	11186.08	3421.06	3410.25	N	281.91	W	3421.88	355.27	1.16	1.16	0.11
165	14682	88.10	359.50	95	11188.49	3515.94	3505.20	N	283.48	W	3516.65	355.38	1.34	-0.95	0.95
166	14777	88.70	359.70	95	11191.14	3610.76	3600.16	N	284.15	W	3611.36	355.49	0.67	0.63	0.21
167	14872	89.90	0.20	95	11192.30	3705.58	3695.15	N	284.23	W	3706.07	355.60	1.37	1.26	-378.42
168	14967	90.30	0.40	95	11192.13	3800.38	3790.15	N	283.73	W	3800.76	355.72	0.47	0.42	0.21

[illegible]