



SURVEY CALCULATION PROGRAM

v1.00.02

OPERATOR:	COG	Supervisors:
WELL:	Reposado 2 State Com	Joe Beal
LOCATION:	Eddy Co., NM	Derek Sawyer
JOB NUMBER:	WT-12792	Andy Richards/David Martinez

COMMENTS:

#REF!

MAG DEC. (+/-)

7.59

GRID CORR. (+/-)

-0.20

TOTAL CORR. (+/-)

7.39

DATE: 11/07/12

TIME: 9:31 AM

MINIMUM CURVATURE CALCULATIONS(SPE-3362)

PROPOSED DIRECTION

357.30

TARGET TRACKING

TO CENTER

SVY NUM	MD	INC	TRUE AZM	TVD	SECT	N-S	E-W	DLS/ 100	ABOVE(+) BELOW(-)	RIGHT(+) LEFT(-)
0	8200	1.80	182.13	8195.85	-150.00	-146.82	67.84	577.59	60.91	
1	8271	0.90	183.50	8266.83	-151.52	-148.49	67.76	1.27	506.59	60.69
2	8302	3.70	10.00	8297.81	-150.78	-147.75	67.92	14.82	475.62	60.89
3	8334	9.60	7.20	8329.58	-147.15	-144.08	68.44	18.46	443.88	61.57
4	8366	13.40	13.50	8360.94	-140.95	-137.83	69.64	12.49	412.58	63.07
5	8397	16.80	9.90	8390.86	-133.13	-129.92	71.25	11.37	382.72	65.05
6	8429	20.00	10.60	8421.22	-123.29	-119.98	73.05	10.02	352.45	67.32
7	8461	22.00	10.00	8451.09	-112.11	-108.70	75.10	6.29	322.67	69.89
8	8492	26.80	7.70	8479.32	-99.57	-96.05	77.04	15.78	294.55	72.43
9	8524	31.70	4.80	8507.23	-84.13	-80.51	78.71	15.94	266.78	74.83
10	8556	36.30	2.10	8533.75	-66.34	-62.65	79.77	15.13	240.41	76.73
11	8587	39.50	0.90	8558.21	-47.35	-43.62	80.26	10.59	216.11	78.11
12	8619	42.10	0.90	8582.44	-26.49	-22.72	80.59	8.13	192.08	79.43
13	8650	43.80	2.50	8605.13	-5.43	-1.61	81.22	6.51	169.57	81.05
14	8682	45.40	2.60	8627.91	16.94	20.84	82.22	5.00	146.98	83.11
15	8714	49.20	0.70	8649.61	40.39	44.34	82.88	12.65	125.49	84.88
16	8745	53.10	0.20	8669.05	64.49	68.48	83.07	12.64	106.25	86.20
17	8777	58.20	359.50	8687.10	90.87	94.89	82.99	16.04	88.43	87.37
18	8809	61.10	358.40	8703.27	118.47	122.50	82.48	9.54	72.51	88.16
19	8840	64.50	356.80	8717.44	146.04	150.04	81.32	11.89	58.58	88.30
20	8872	66.10	355.60	8730.81	175.11	179.04	79.40	6.05	45.46	87.74
21	8903	68.20	355.40	8742.85	203.66	207.52	77.15	6.80	33.67	86.84
22	8935	70.70	355.40	8754.08	233.60	237.39	74.75	7.81	22.70	85.85
23	8967	73.70	354.70	8763.86	264.04	267.74	72.12	9.60	13.19	84.65
24	8998	75.40	354.20	8772.12	293.88	297.48	69.23	5.70	5.19	83.17
25	9030	77.80	353.30	8779.53	324.95	328.42	65.84	7.98	-1.96	81.24
26	9062	80.20	353.50	8785.64	356.29	359.62	62.23	7.53	-7.79	79.10
27	9093	82.50	354.90	8790.30	386.89	390.11	59.13	8.66	-12.18	77.45
28	9124	82.80	354.70	8794.27	417.60	420.73	56.35	1.16	-15.88	76.10
29	9155	85.10	355.10	8797.53	448.40	451.43	53.61	7.53	-18.88	74.81
30	9190	87.30	356.00	8799.85	483.31	486.24	50.90	6.79	-20.89	73.75
31	9253	88.60	355.10	8802.11	546.23	549.01	46.01	2.51	-22.60	71.83
32	9316	91.40	354.70	8802.11	609.17	611.76	40.41	4.49	-22.05	69.19
33	9379	91.50	355.30	8800.51	672.10	674.50	34.93	0.97	-19.90	66.66
34	9442	90.70	355.30	8799.30	735.05	737.27	29.76	1.27	-18.14	64.46
35	9537	90.60	355.60	8798.22	830.00	831.97	22.23	0.33	-16.24	61.39
36	9632	90.30	355.30	8797.48	924.94	926.66	14.69	0.45	-14.66	58.33
37	9727	90.90	355.30	8796.48	1019.88	1021.34	6.91	0.63	-12.84	55.01
38	9821	89.30	354.90	8796.32	1113.81	1114.99	-1.12	1.75	-11.86	51.40
39	9916	89.30	354.90	8797.48	1208.72	1209.61	-9.56	0.00	-12.19	47.43
40	10011	88.80	354.40	8799.06	1303.60	1304.18	-18.42	0.74	-12.93	43.04
41	10105	90.30	354.90	8799.79	1397.49	1397.77	-27.18	1.68	-12.85	38.69
42	10200	90.00	354.00	8799.54	1492.38	1492.32	-36.37	1.00	-11.78	33.97
43	10295	89.90	353.10	8799.63	1587.17	1586.72	-47.04	0.95	-11.03	27.75
44	10358	90.10	354.40	8799.63	1650.05	1649.34	-53.90	2.09	-10.48	23.85
45	10422	90.20	355.30	8799.46	1713.99	1713.08	-59.65	1.41	-9.76	21.12
46	10516	90.20	357.20	8799.13	1807.97	1806.88	-65.80	2.02	-8.61	19.39
47	10611	90.00	357.40	8798.97	1902.97	1901.77	-70.27	0.30	-7.61	19.39
48	10705	91.00	358.10	8798.15	1996.96	1995.69	-73.96	1.30	-5.97	20.13
49	10800	91.30	356.10	8796.24	2091.94	2090.55	-78.77	2.13	-3.24	19.80
50	10864	90.30	356.30	8795.35	2155.92	2154.40	-83.01	1.59	-1.78	18.57
51	10959	89.00	356.10	8795.93	2250.90	2249.19	-89.30	1.38	-1.54	16.75
52	11021	88.80	356.10	8797.12	2312.87	2311.03	-93.52	0.32	-2.19	15.45
53	11116	88.10	355.80	8799.69	2407.81	2405.76	-100.23	0.80	-3.93	13.21
54	11179	88.90	356.00	8801.33	2470.77	2468.57	-104.73	1.31	-5.03	11.67
55	11243	90.80	356.80	8801.50	2534.76	2532.44	-108.75	3.22	-4.63	10.67
56	11337	91.10	357.20	8799.94	2628.74	2626.30	-113.67	0.53	-2.26	10.18

57	11401	91.10	357.20	8798.72	2692.73	2690.21	-116.79	0.00	-0.47	10.06
58	11496	89.40	357.50	8798.30	2787.73	2785.11	-121.18	1.82	0.77	10.15
59	11590	88.90	358.10	8799.70	2881.71	2879.03	-124.79	0.83	0.20	10.97
60	11685	89.70	358.80	8800.86	2976.68	2973.98	-127.36	1.12	-0.13	12.87
61	11780	89.50	357.20	8801.52	3071.67	3068.92	-130.68	1.70	0.03	14.04
62	11874	92.20	358.10	8800.12	3165.65	3162.82	-134.53	3.03	2.25	14.61
63	11937	89.50	357.00	8799.19	3228.63	3225.75	-137.22	4.63	3.73	14.88
64	12032	89.70	358.10	8799.85	3323.63	3320.66	-141.28	1.18	3.90	15.30
65	12126	90.00	358.80	8800.10	3417.61	3414.63	-143.83	0.81	4.47	17.18
66	12189	91.70	358.10	8799.16	3480.59	3477.59	-145.53	2.92	5.96	18.45
67	12253	92.10	357.40	8797.04	3544.55	3541.51	-148.04	1.26	8.64	18.95
68	12316	89.10	356.50	8796.38	3607.54	3604.41	-151.39	4.97	9.84	18.57
69	12379	88.60	358.10	8797.65	3670.52	3667.32	-154.36	2.66	9.13	18.57
70	12442	88.10	357.70	8799.46	3733.49	3730.25	-156.67	1.02	7.87	19.23
71	12505	89.70	358.40	8800.67	3796.47	3793.20	-158.81	2.77	7.21	20.05
72	12568	89.70	358.80	8801.00	3859.46	3856.18	-160.35	0.63	7.43	21.48
73	12631	88.80	358.30	8801.83	3922.43	3919.16	-161.94	1.63	7.15	22.85
74	12695	88.50	357.20	8803.33	3986.41	3983.09	-164.46	1.78	6.20	23.36
75	12758	88.60	356.80	8804.93	4049.39	4045.98	-167.75	0.65	5.16	23.03
76	12821	88.50	356.80	8806.52	4112.37	4108.86	-171.27	0.16	4.11	22.48
77	12884	89.70	357.00	8807.51	4175.36	4171.76	-174.67	1.93	3.67	22.04
78	12948	90.60	356.70	8807.34	4239.36	4235.66	-178.19	1.48	4.40	21.53
79	13011	88.40	356.10	8807.89	4302.34	4298.53	-182.15	3.62	4.40	20.55
80	13074	87.50	356.50	8810.15	4365.29	4361.36	-186.21	1.56	2.69	19.45
81	13137	86.60	356.30	8813.39	4428.20	4424.15	-190.16	1.46	0.00	18.46
82	13200	86.30	356.30	8817.29	4491.07	4486.90	-194.22	0.48	-3.35	17.36
83	13263	88.60	357.50	8820.09	4554.00	4549.74	-197.62	4.12	-5.61	16.92
84	13348	89.30	357.70	8821.65	4638.98	4634.65	-201.18	0.86	-6.42	17.37
BIT	13400	89.30	357.70	8822.29	4690.98	4686.61	-203.26	0.00	-6.60	17.73