

30-015-37468

 SURVEY CALCULATION PROGRAM										TARGET DETAILS						
v1.00.02																
OPERATOR:		Marbob Energy Corporation				Supervisors:				TARGET N-S		Directional				
WELL:		Myox 6 State Corn #12H				Joe Hargrove				TARGET E-W						
LOCATION:		Eddy County, NM				Joe Beal				TARGET RADIUS						
JOB NUMBER:		WT-10065				Nic Black				TARGET DISPLACEMENT						
COMMENTS:						Jeff Leschuck				TARGET CLOSURE						
				MAG DEC. (-/+)		7.98		TARGET TVD		Horizontal		6434.00				
				GRID CORR. (-/+)		-0.11		DIP AZ				269.91				
				TOTAL CORR. (-/+)		7.87		DIP DEG UP+DN-				0.49				
DATE: 02/27/10		TIME: 7:25 AM						TARGET INCLINATION				90.49				
MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION 269.91										TARGET TRACKING						
										TO CENTER						
										ABOVE(+)		RIGHT(+)				
										BELOW(-)		LEFT(-)				
SVY	NUM	MD	INC	TRUE	AZM	TVD	SECT	N-S	E-W	DLS/	100	DIR	CLOSURE	CLOSURE	BUILD	WALK
												(DEG AZ)	(FEET)	%/100'	%/100'	
Tie	5830	1.6	192.2	5829.39	-14.6	-52.90	14.69	0.68	604.73	-52.90	164.48	54.90				
1	5928	2.2	231.2	5927.34	-12.85	-55.42	12.93	1.42	506.77	-55.44	166.86	56.91	0.61	39.80		
2	5960	5.7	260.8	5959.26	-10.80	-56.06	10.89	12.31	474.83	-56.07	169.01	57.10	10.94	92.50		
3	5991	10.5	269.0	5989.94	-6.45	-56.35	6.54	15.89	444.11	-56.36	173.38	56.73	15.48	26.45		
4	6023	12.7	260.2	6021.29	-0.07	-57.00	0.16	8.80	412.71	-57.00	179.84	57.00	6.87	-27.50		
5	6055	13.9	256.4	6052.43	7.14	-58.50	-7.05	4.64	381.51	-58.49	186.87	58.93	3.75	-11.88		
6	6086	16.5	266.5	6082.35	15.15	-59.65	-15.06	11.94	351.52	-59.62	194.17	61.52	8.39	32.58		
7	6118	20.4	270.2	6112.70	25.27	-59.91	-25.18	12.72	321.08	-59.87	202.80	64.98	12.19	11.56		
8	6150	24.2	271.5	6142.30	37.41	-59.71	-37.32	11.97	291.38	-59.66	212.00	70.42	11.88	4.06		
9	6182	28.1	272.5	6171.02	51.50	-59.21	-51.41	12.26	262.54	-59.13	220.96	78.42	12.19	3.13		
10	6213	32.0	271.4	6197.85	67.01	-58.69	-66.92	12.71	235.58	-58.59	228.75	89.01	12.58	-3.55		
11	6245	35.7	270.7	6224.42	84.83	-58.37	-84.74	11.63	208.85	-58.24	235.44	102.90	11.56	-2.19		
12	6276	39.3	270.1	6249.01	103.70	-58.25	-103.60	11.67	184.10	-58.08	240.66	118.86	11.61	-1.94		
13	6307	42.9	269.9	6272.37	124.07	-58.25	-123.98	11.62	160.57	-58.05	244.84	136.98	11.61	-0.65		
14	6339	46.2	270.9	6295.17	146.52	-58.08	-146.42	10.54	137.58	-57.85	248.36	157.52	10.31	3.13		
15	6371	49.3	271.6	6316.68	170.19	-57.56	-170.10	9.82	115.86	-57.30	251.30	179.58	9.69	2.19		
16	6403	52.4	271.8	6336.88	194.99	-56.83	-194.90	9.70	95.45	-56.52	253.75	203.02	9.69	0.62		
17	6435	55.7	271.8	6355.67	220.88	-56.01	-220.79	10.31	76.44	-55.67	255.76	227.79	10.31	0.00		
18	6466	59.0	271.8	6372.39	246.96	-55.19	-246.88	10.65	59.50	-54.81	257.40	252.97	10.65	0.00		
19	6498	62.2	272.0	6388.10	274.82	-54.27	-274.74	10.01	43.55	-53.84	258.83	280.05	10.00	0.62		
20	6530	66.0	272.5	6402.07	303.58	-53.14	-303.50	11.96	29.33	-52.66	260.07	308.11	11.88	1.56		
21	6562	70.2	273.1	6414.01	333.23	-51.68	-333.14	13.24	17.14	-51.16	261.18	337.13	13.13	1.88		

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for

 SURVEY CALCULATION PROGRAM										TARGET DETAILS					
										v1.00.02					
OPERATOR:		Marbob Energy Corporation				Supervisors:				TARGET N-S Directional					
WELL:		Myox 6 State Com #12H				Joe Hargrove				TARGET E-W					
LOCATION:		Eddy County, NM				Joe Beal				TARGET RADIUS					
JOB NUMBER:		WT-10065				Nic Black				TARGET DISPLACEMENT					
COMMENTS:		Jeff Leschuck								TARGET CLOSURE					
						MAG DEC. (-/+)		7.98		TARGET TVD Horizontal					
						GRID CORR. (-/+)		-0.11		DIP AZ					
						TOTAL CORR. (-/+)		7.87		DIP DEG UP+/DN-					
DATE: 02/27/10		TIME: 7:25 AM								TARGET INCLINATION					
MINIMUM CURVATURE CALCULATIONS(SPE-3362) PROPOSED DIRECTION										269.91		TARGET TRACKING TO CENTER		CLOSURE CLOSURE BUILD WALK	
SVY	MD	INC	TRUE	TVD	SECT	N-S	E-W	DLS/	ABOVE(+)	RIGHT(+)	DIR	DISTANCE	RATE/	RATE/	
NUM			AZM					100	BELOW(-)	LEFT(-)	(DEG AZ)	(FEET)	%/100'	%/100'	
22	6593	75.1	273.7	6423.25	362.75	-49.93	-362.67	15.91	7.65	-49.36	262.16	366.09	15.81	1.94	
23	6625	80.2	274.5	6430.09	393.92	-47.69	-393.84	16.12	0.54	-47.07	263.10	396.72	15.94	2.50	
24	6660	86.3	273.6	6434.20	428.57	-45.24	-428.50	17.61	-3.87	-44.57	263.97	430.88	17.43	-2.57	
25	6692	91.5	273.0	6434.82	460.49	-43.40	-460.43	16.36	-4.75	-42.68	264.62	462.47	16.25	-1.88	
26	6755	93.9	274.2	6431.85	523.29	-39.45	-523.23	4.26	-2.32	-38.63	265.69	524.71	3.81	1.90	
27	6850	91.1	272.5	6427.70	618.01	-33.91	-617.96	3.45	1.01	-32.93	266.86	618.89	-2.95	-1.79	
28	6913	90.9	272.1	6426.60	680.95	-31.38	-680.90	0.71	1.57	-30.31	267.36	681.62	-0.32	-0.63	
29	7009	90.7	271.0	6425.26	776.90	-28.78	-776.85	1.16	2.09	-27.56	267.88	777.39	-0.21	-1.15	
30	7104	90.6	270.8	6424.19	871.88	-27.29	-871.84	0.24	2.36	-25.92	268.21	872.26	-0.11	-0.21	
31	7199	90.00	270.00	6423.69	966.87	-26.63	-966.83	1.05	2.04	-25.11	268.42	967.20	-0.63	-0.84	
32	7294	91.80	271.30	6422.20	1061.85	-25.55	-1061.81	2.34	2.72	-23.88	268.62	1062.11	1.89	1.37	
33	7390	92.50	271.80	6418.60	1157.74	-22.95	-1157.70	0.90	5.50	-21.13	268.86	1157.93	0.73	0.52	
34	7485	90.90	271.80	6415.78	1252.64	-19.97	-1252.61	1.68	7.51	-18.00	269.09	1252.77	-1.68	0.00	
35	7580	90.90	271.50	6414.28	1347.59	-17.24	-1347.56	0.32	8.19	-15.12	269.27	1347.67	0.00	-0.32	
36	7675	91.10	271.30	6412.63	1442.54	-14.91	-1442.52	0.30	9.04	-12.65	269.41	1442.60	0.21	-0.21	
37	7770	89.60	271.50	6412.05	1537.50	-12.59	-1537.49	1.59	8.80	-10.18	269.53	1537.54	-1.58	0.21	
38	7865	89.00	270.40	6413.21	1632.48	-11.02	-1632.46	1.32	6.83	-8.45	269.61	1632.50	-0.63	-1.16	
39	7961	88.80	270.20	6415.05	1728.46	-10.52	-1728.44	0.29	4.17	-7.80	269.65	1728.48	-0.21	-0.21	
40	8056	89.90	270.10	6416.13	1823.45	-10.27	-1823.44	1.16	2.28	-7.40	269.68	1823.46	1.16	-0.11	
41	8119	90.20	270.60	6416.07	1886.45	-9.88	-1886.43	0.93	1.79	-6.92	269.70	1886.46	0.48	0.79	
42	8183	90.60	271.20	6415.63	1950.44	-8.88	-1950.42	1.13	1.69	-5.81	269.74	1950.44	0.62	0.94	
43	8278	91.10	271.90	6414.22	2045.39	-6.31	-2045.38	0.91	2.29	-3.10	269.82	2045.39	0.53	0.74	

BDC BUREAU OF DIRECTORIAL CONTROL COMPANY		SURVEY CALCULATION PROGRAM								v1.00 02						TARGET DETAILS			
OPERATOR:		Marbob Energy Corporation				Supervisors:				TARGET N-S		Directional							
WELL:		Myox 6 State Corn #12H				Joe Hargrove				TARGET E-W									
LOCATION:		Eddy County, NM				Joe Beal				TARGET RADIUS									
JOB NUMBER:		WT-10065				Nic Black				TARGET DISPLACEMENT									
COMMENTS:		Jeff Leschuck								TARGET CLOSURE									
				MAG DEC. (+)		7.98		TARGET TVD		Horizontal		6434.00							
				GRID CORR. (+)		-0.11		DIP AZ				269.91							
				TOTAL CORR. (+)		7.87		DIP DEG UP+/DN-				0.49							
DATE: 02/27/10		TIME: 7:25 AM								TARGET INCLINATION		90.49							
MINIMUM CURVATURE CALCULATIONS(SPE-3362)								PROPOSED DIRECTION		269.91		TARGET TRACKING TO CENTER							
SVY	MD	INC	TRUE					DLS/	ABOVE(+)	RIGHT(+)	DIR	CLOSURE	BUILD	WALK					
NUM			AZM	TVD	SECT	N-S	E-W	100	BELOW(-)	LEFT(-)	(DEG AZ)	DISTANCE	RATE/	RATE/					
											(FEET)	%/100'	%/100'						
44	8373	90.80	271.10	6412.64	2140.34	-3.82	-2140.33	0.90	3.05	-0.46	269.90	2140.34	-0.32	-0.84					
45	8468	90.60	271.10	6411.48	2235.31	-2.00	-2235.31	0.21	3.40	1.51	269.95	2235.31	-0.21	0.00					
46	8563	90.90	270.70	6410.24	2330.29	-0.51	-2330.29	0.53	3.83	3.15	269.99	2330.29	0.32	-0.42					
47	8658	90.00	270.00	6409.49	2425.28	0.07	-2425.28	1.20	3.77	3.88	270.00	2425.28	-0.95	-0.74					
48	8753	89.50	269.70	6409.91	2520.28	-0.17	-2520.28	0.61	2.54	3.78	270.00	2520.28	-0.53	-0.32					
49	8848	89.50	270.00	6410.73	2615.27	-0.42	-2615.28	0.32	0.90	3.68	269.99	2615.28	0.00	0.32					
50	8943	89.90	269.70	6411.23	2710.27	-0.67	-2710.27	0.53	-0.41	3.59	269.99	2710.27	0.42	-0.32					
51	9038	89.90	269.30	6411.40	2805.27	-1.50	-2805.27	0.42	-1.39	2.91	269.97	2805.27	0.00	-0.42					
52	9134	90.00	268.80	6411.48	2901.26	-3.09	-2901.26	0.53	-2.29	1.46	269.94	2901.26	0.10	-0.52					
53	9229	90.70	268.90	6410.90	2996.24	-5.00	-2996.23	0.74	-2.53	-0.29	269.90	2996.24	0.74	0.11					
54	9324	91.80	269.60	6408.83	3091.21	-6.24	-3091.20	1.37	-1.27	-1.39	269.88	3091.21	1.16	0.74					
55	9387	92.00	269.40	6406.74	3154.17	-6.79	-3154.16	0.45	0.28	-1.84	269.88	3154.17	0.32	-0.32					
56	9451	91.10	268.10	6405.01	3218.13	-8.19	-3218.12	2.47	1.47	-3.13	269.85	3218.13	-1.41	-2.03					
57	9514	89.90	268.00	6404.46	3281.10	-10.33	-3281.08	1.91	1.48	-5.18	269.82	3281.10	-1.90	-0.16					
58	9610	90.20	268.50	6404.38	3377.06	-13.26	-3377.04	0.61	0.74	-7.96	269.77	3377.06	0.31	0.52					
59	9705	90.20	267.90	6404.04	3472.01	-16.25	-3471.99	0.63	0.26	-10.79	269.73	3472.03	0.00	-0.63					
60	9800	89.10	268.90	6404.62	3566.97	-18.90	-3566.95	1.56	-1.13	-13.30	269.70	3567.00	-1.16	1.05					
61	9894	88.90	268.80	6406.26	3660.94	-20.79	-3660.92	0.24	-3.57	-15.04	269.67	3660.97	-0.21	-0.11					
62	9989	89.40	269.10	6407.67	3755.92	-22.53	-3755.89	0.81	-5.80	-16.63	269.66	3755.96	0.53	0.32					
63	10084	91.20	270.50	6407.18	3850.91	-22.86	-3850.88	2.40	-6.11	-16.81	269.66	3850.95	1.89	1.47					
64	10179	90.60	270.40	6405.68	3945.90	-22.11	-3945.87	0.64	-5.43	-15.91	269.68	3945.93	-0.63	-0.11					
65	10243	90.70	270.80	6404.96	4009.89	-21.44	-4009.86	0.64	-5.25	-15.14	269.69	4009.92	0.16	0.63					

		SURVEY CALCULATION PROGRAM										TARGET DETAILS											
		v1.00 02																					
OPERATOR:		Marbob Energy Corporation					Supervisors:					TARGET N-S		Directional									
WELL:		Myox 6 State Com #12H					Joe Hargrove					TARGET E-W											
LOCATION:		Eddy County, NM					Joe Beal					TARGET RADIUS											
JOB NUMBER:		WT-10065					Nic Black					TARGET DISPLACEMENT											
		COMMENTS:					Jeff Leschuck					TARGET CLOSURE											
							MAG DEC. (-/+)					7.98		TARGET TVD		Horizontal		6434.00					
							GRID CORR. (-/+)					-0.11		DIP AZ				269.91					
							TOTAL CORR. (-/+)					7.87		DIP DEG UP+/DN-				0.49					
DATE:		02/27/10					TIME:					7:25 AM					TARGET INCLINATION		90.49				
MINIMUM CURVATURE CALCULATIONS(SPE-3362)										PROPOSED DIRECTION		269.91		TARGET TRACKING									
												TO CENTER											
												ABOVE(+)		RIGHT(+)		CLOSURE		CLOSURE		BUILD		WALK	
												BELOW(-)		LEFT(-)		(DEG AZ)		(FEET)		RATE/		RATE/	
SVY	NUM	MD	INC	TRUE	TVD	SECT	N-S	E-W	DLS/														
				AZM					100														
66	10338	89.60	269.10	6404.71	4104.88	-21.53	-4104.85	2.13	-5.82	-15.08	269.70	4104.91	-1.16	-1.79									
67	10433	90.70	270.30	6404.46	4199.88	-22.02	-4199.85	1.71	-6.38	-15.43	269.70	4199.91	1.16	1.26									
68	10528	91.30	270.80	6402.80	4294.86	-21.11	-4294.83	0.82	-5.53	-14.36	269.72	4294.88	0.63	0.53									
69	10592	91.70	270.10	6401.13	4358.83	-20.61	-4358.80	1.26	-4.41	-13.76	269.73	4358.85	0.63	-1.09									
70	10687	92.00	269.80	6398.06	4453.78	-20.69	-4453.75	0.45	-2.15	-13.70	269.73	4453.80	0.32	-0.32									
71	10782	92.30	269.80	6394.50	4548.71	-21.02	-4548.69	0.32	0.60	-13.88	269.74	4548.74	0.32	0.00									
72	10856	92.50	269.80	6391.40	4622.65	-21.28	-4622.62	0.27	3.07	-14.02	269.74	4622.67	0.27	0.00									
PBHL	10905	92.50	269.80	6389.26	4671.60	-21.45	-4671.57	0.00	4.79	-14.11	269.74	4671.62	0.00	0.00									

SVVF: 660' FML, 330' FEL

EOL: 682' FML, 278' FML