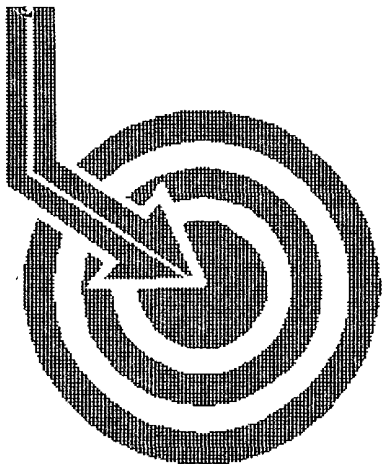
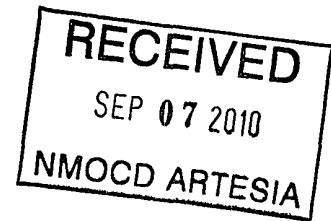




Scientific Drilling



MARBOB ENERGY

Field: Hay Hollow
Site: Eddy County, NM
Well: Down South State Com #4
Wellpath: VH - Job #32K0510372
Survey: 05/18/10

JUL 07 2010

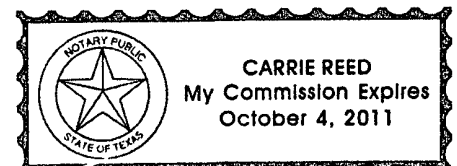
MRZ

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

Ruberto
Company Representative

Notarized this date 21st of June, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International, Inc.

Survey Report

Company: MARBOB ENERGY
Field: Hay Hollow
Site: Eddy County, NM
Well: Down South State Com #4
Wellpath: VH - Job #32K0510372

Date: 5/18/2010
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,268.23Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey: 05/18/10
Start Date: 5/18/2010
Company: Scientific Drilling Internatio
Engineer: Guebara w/Gray
Tool: Keeper, Keeper Gyro
Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.0	0.00	359.89	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.30	314.50	100.0	0.2	0.2	-0.2	0.30	0.3	314.50
200.0	0.51	345.57	200.0	0.5	0.8	-0.5	0.30	0.9	328.74
300.0	0.63	331.37	300.0	0.8	1.7	-0.9	0.18	1.9	333.36
400.0	0.88	292.74	400.0	1.8	2.5	-1.8	0.55	3.1	323.69
500.0	1.11	289.45	500.0	3.4	3.1	-3.5	0.24	4.6	312.02
600.0	1.46	286.47	599.9	5.5	3.8	-5.6	0.36	6.8	304.18
700.0	1.76	282.35	699.9	8.2	4.5	-8.3	0.32	9.4	298.35
800.0	2.10	279.55	799.8	11.5	5.1	-11.6	0.35	12.7	293.77
900.0	2.01	279.37	899.8	15.0	5.7	-15.2	0.09	16.2	290.63
1000.0	1.94	277.24	999.7	18.4	6.2	-18.6	0.10	19.6	288.48
1100.0	2.06	275.57	1099.7	21.8	6.6	-22.0	0.13	23.0	286.66
1200.0	2.38	274.02	1199.6	25.7	6.9	-25.9	0.33	26.8	284.95
1300.0	2.55	275.01	1299.5	29.9	7.3	-30.2	0.18	31.0	283.51
1400.0	2.24	275.54	1399.4	34.1	7.6	-34.3	0.31	35.2	282.54
1500.0	1.94	269.20	1499.3	37.7	7.8	-38.0	0.38	38.8	281.61
1600.0	1.12	263.72	1599.3	40.4	7.7	-40.6	0.83	41.4	280.69
1700.0	0.95	263.98	1699.3	42.2	7.5	-42.4	0.17	43.1	279.99
1800.0	0.22	154.53	1799.3	42.9	7.2	-43.2	1.04	43.8	279.49
1900.0	0.91	107.89	1899.3	42.1	6.8	-42.3	0.78	42.9	279.12
2000.0	1.64	96.32	1999.3	39.9	6.4	-40.2	0.77	40.7	279.05
2100.0	1.62	96.59	2099.2	37.1	6.1	-37.3	0.02	37.8	279.24
2200.0	1.33	91.30	2199.2	34.6	5.9	-34.8	0.32	35.3	279.61
2300.0	1.41	92.87	2299.2	32.2	5.8	-32.4	0.09	32.9	280.16
2400.0	1.25	90.98	2399.1	29.9	5.7	-30.1	0.17	30.6	280.77
2500.0	1.28	88.45	2499.1	27.7	5.7	-27.9	0.06	28.4	281.63
2600.0	1.18	88.90	2599.1	25.5	5.8	-25.7	0.10	26.4	282.67
2700.0	1.10	86.03	2699.1	23.5	5.9	-23.7	0.10	24.4	283.89
2800.0	0.91	87.99	2799.0	21.8	6.0	-22.0	0.19	22.8	285.18
2900.0	0.76	92.00	2899.0	20.3	6.0	-20.5	0.16	21.4	286.22
3000.0	0.76	72.48	2999.0	19.0	6.1	-19.2	0.26	20.2	287.73
3100.0	0.42	78.24	3099.0	18.0	6.4	-18.2	0.34	19.3	289.40
3200.0	0.22	53.89	3199.0	17.5	6.6	-17.7	0.24	18.9	290.45
3300.0	0.23	51.96	3299.0	17.2	6.8	-17.4	0.01	18.7	291.47
3400.0	0.26	14.23	3399.0	17.0	7.2	-17.2	0.16	18.6	292.69
3500.0	0.29	44.52	3499.0	16.7	7.6	-17.0	0.15	18.6	294.11
3600.0	0.44	53.94	3599.0	16.2	8.0	-16.5	0.16	18.3	295.89
3700.0	0.57	42.67	3699.0	15.5	8.6	-15.8	0.16	18.0	298.49
3800.0	0.33	28.07	3799.0	15.1	9.2	-15.3	0.26	17.9	300.95
3900.0	0.13	70.88	3899.0	14.8	9.5	-15.1	0.25	17.8	302.16
4000.0	0.12	145.38	3999.0	14.6	9.4	-14.9	0.15	17.7	302.31
4100.0	0.12	163.32	4099.0	14.6	9.3	-14.8	0.04	17.5	301.95
4200.0	0.14	191.23	4199.0	14.6	9.0	-14.8	0.07	17.4	301.35
4300.0	0.38	219.40	4299.0	14.8	8.7	-15.1	0.26	17.4	299.89
4400.0	0.39	222.05	4399.0	15.3	8.2	-15.5	0.02	17.5	297.73
4500.0	0.37	202.18	4499.0	15.6	7.6	-15.9	0.13	17.6	295.61
4600.0	0.50	184.60	4599.0	15.8	6.9	-16.0	0.18	17.4	293.21
4700.0	0.65	179.18	4699.0	15.9	5.9	-16.0	0.16	17.1	290.08
4800.0	0.75	185.49	4799.0	16.0	4.6	-16.1	0.13	16.8	286.10



Scientific Drilling International, Inc.

Survey Report

Company: MARBOB-ENERGY

Field: Hay Hollow

Site: Eddy County, NM

Well: Down South State Com #4

Wellpath: VH - Job #32K0510372

Date: 5/18/2010

Co-ordinate(NE) Reference:

Vertical (TVD) Reference:

Section (VS) Reference:

Survey Calculation Method:

Time: 21:22:57

Site: Eddy County, NM, Grid North

SITE 0.0

Well (0 00N,0.00E,268.23Azi)

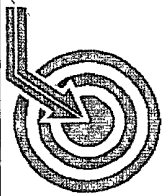
Minimum Curvature

Page: 2

Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.0	0.75	202.65	4899.0	16.3	3.4	-16.4	0.22	16.8	281.68
5000.0	0.86	204.04	4999.0	16.9	2.1	-17.0	0.11	17.1	277.07
5100.0	0.99	219.12	5098.9	17.8	0.7	-17.8	0.27	17.8	272.40
5200.0	0.92	209.15	5198.9	18.8	-0.6	-18.8	0.18	18.8	268.10
5300.0	1.08	210.59	5298.9	19.7	-2.1	-19.6	0.16	19.7	263.79
5400.0	1.01	199.32	5398.9	20.5	-3.8	-20.4	0.22	20.7	259.51
5500.0	1.01	194.03	5498.9	21.1	-5.5	-20.9	0.09	21.6	255.35
5600.0	1.10	192.64	5598.9	21.5	-7.3	-21.3	0.09	22.5	251.21
5700.0	1.19	194.98	5698.9	22.1	-9.2	-21.8	0.10	23.7	247.14
5800.0	1.32	194.49	5798.8	22.7	-11.3	-22.4	0.13	25.1	243.17
5900.0	1.49	197.20	5898.8	23.5	-13.7	-23.0	0.18	26.8	239.31

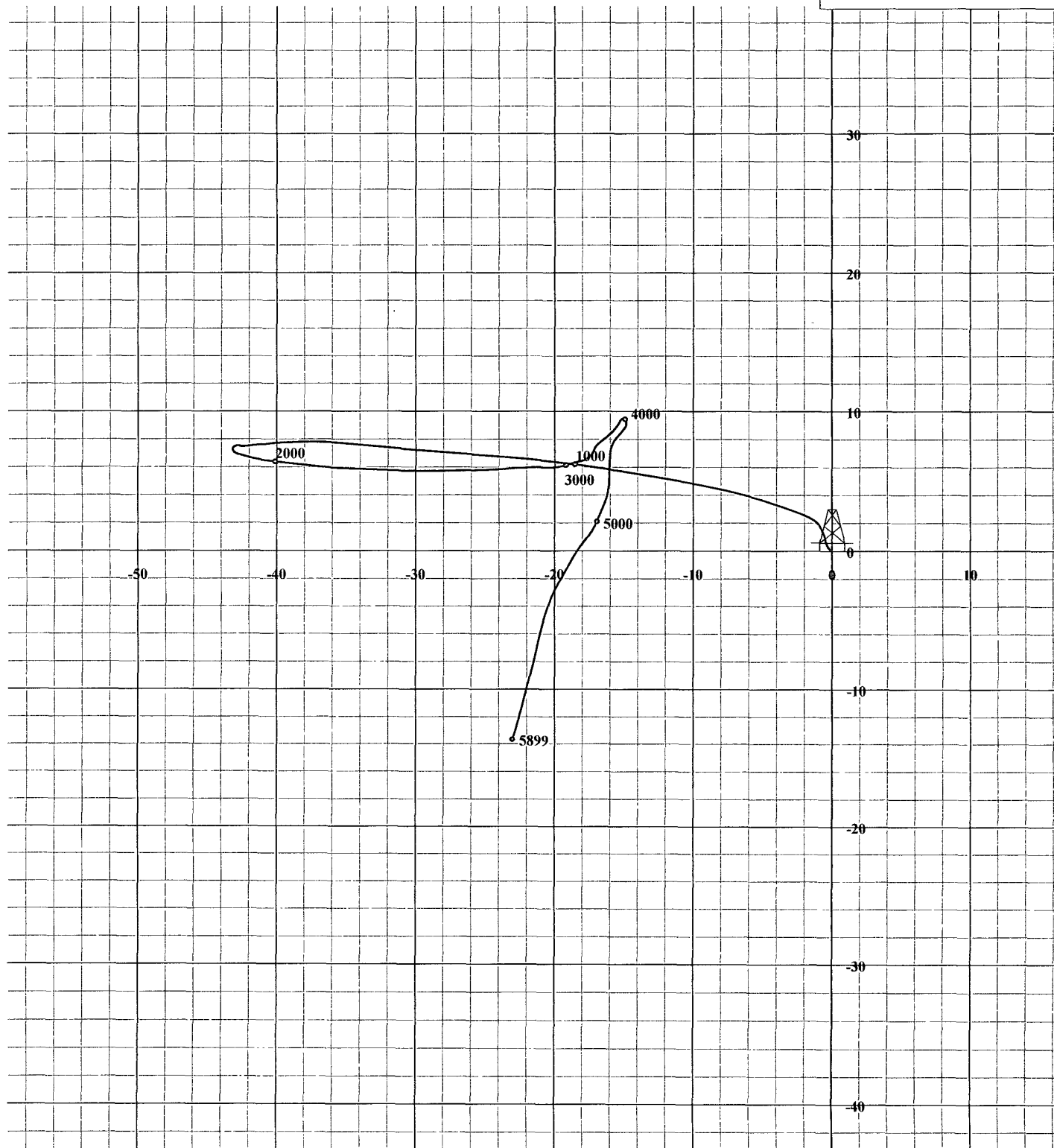


Scientific
Drilling

Field: Hay Hollow
Site: Eddy County, NM
Well: Down South State Com #4
Survey: 05/18/10



Azimuths to Grid North
True North 0 00°
Magnetic North 0 00°
Magnetic Field
Dip Angle 0 00°
Date 5/18/2010
Model igrf2000



South(-)/North(+) [10ft/in]

West(-)/East(+) [10ft/in]



SURVEY CALCULATION PROGRAM

RECEIVED

SEP 07 2010

NMOCD ARTESIA

TARGET DETAILS

Supervisors:		TARGET N-S Directional	
Down South State Com #4		TARGET E-W	
Eddy Co., NM		TARGET RADIUS	
		TARGET DISPLACEMENT	
		TARGET CLOSURE	
		TARGET TVD Horizontal	6600.02
		DIP AZ	268.23
		DIP DEG UP+/DN-	0.37
DATE: 05/27/10 TIME: 10:34 AM		TARGET INCLINATION	90.37

MINIMUM CURVATURE CALCULATIONS(SPE-3362)										PROPOSED DIRECTION		268.23		TARGET TRACKING TO CENTER		CLOSURE DIR (DEG AZ)	CLOSURE DISTANCE (FEET)	BUILD RATE/ %/100'	WALK RATE/ %/100'
SVY NUM	MD	INC	TRUE AZM	TVD	SECT	N-S	E-W	DLS/ 100		ABOVE(+)	RIGHT(+)	BELOW(-)	LEFT(-)						
GYRO	5900	1.49	197.20	5898.80	23.39	-13.67	-22.98			701.07	-12.95			239.25	26 74				
1	6003	1.90	209.30	6001.76	24.71	-16.44	-24.21	0.53		598.11	-15.68			235.83	29.26	0.40		11 75	
2	6035	4.40	260.60	6033.71	26.20	-17.10	-25.68	11.05		566.14	-16.30			236.34	30.86	7.81		160.31	
3	6066	8.60	272.90	6064.50	29.69	-17.18	-29.17	14.20		535.32	-16.27			239.51	33.85	13.55		39.68	
4	6098	12.60	277.20	6095.95	35.52	-16.62	-35.03	12.73		503.84	-15.53			244.62	38 77	12.50		13.44	
5	6130	14.50	264.10	6127.07	42.97	-16.59	-42.48	11.24		472.67	-15.27			248.66	45.60	5.94		-40 94	
6	6162	15.70	246.50	6157.98	50.99	-18.73	-50.44	14.75		441.71	-17.17			249.62	53 80	3.75		-55.00	
7	6194	17.00	229.20	6188.70	58.65	-23.52	-57.95	15.69		410.94	-21.72			247.91	62.54	4.06		-54.06	
8	6225	19.00	213.30	6218.20	65.08	-30.70	-64.16	17.05		381.40	-28.71			244.43	71.13	6.45		-51.29	
9	6257	20.80	218.10	6248.29	71.71	-39.53	-70.53	7.59		351.27	-37.33			240.73	80.85	5.62		15.00	
10	6289	22.50	230.60	6278.05	80.21	-47.89	-78.77	15.33		321.45	-45.44			238 70	92.19	5.31		39.06	
11	6321	24.90	242.50	6307.36	91.14	-54.89	-89.48	16.69		292.07	-52.10			238.47	104.98	7.50		37.19	
12	6352	26.90	254.50	6335.27	103.84	-59.79	-102.04	18.06		264.08	-56.61			239.63	118.26	6.45		38.71	
13	6384	28.30	265.20	6363.64	118.45	-62.36	-116.58	16.08		235.61	-58.73			241.86	132.21	4.38		33.44	
14	6416	31.50	270.80	6391.39	134.39	-62.88	-132.51	13.26		207.76	-58.75			244.62	146.67	10.00		17.50	
15	6447	35.40	274.20	6417.25	151.42	-62.10	-149.57	13.95		181.79	-57.45			247.45	161.95	12.58		10.97	
16	6479	39.40	276.50	6442.67	170.69	-60.28	-168.91	13.24		156.25	-55.03			250.36	179.34	12.50		7.19	
17	6511	43.30	279.40	6466.69	191.52	-57.33	-189.84	13.58		132.10	-51.44			253.20	198 31	12 19		9.06	
18	6543	47.50	281.40	6489.15	213.78	-53.21	-212.24	13.86		109.49	-46.62			255.93	218.81	13.13		6.25	
19	6574	51.90	283.00	6509.20	236 71	-48.20	-235.34	14.73		89.29	-40.91			258.43	240.22	14.19		5.16	
20	6606	56.60	283.60	6527.89	261.78	-42.22	-260.60	14.77		70.44	-34.15			260.80	264.00	14.69		1.88	
21	6638	61.20	283.90	6544 41	288.18	-35.71	-287.21	14.40		53.75	-26.82			262.91	289.42	14.37		0.94	
22	6670	66.00	283.90	6558.64	315.77	-28.83	-315.03	15.00		39.34	-19.08			264.77	316.34	15.00		0.00	
23	6701	70.90	284.30	6570.02	343.49	-21 80	-342.98	15.85		27.78	-11.20			266.36	343.67	15.81		1.29	
24	6733	76.30	285.00	6579.05	372.93	-14.04	-372.67	17.00		18.56	-2.52			267.84	372.93	16.88		2.19	
25	6765	82.10	284.80	6585.05	403.03	-5.96	-403.03	18.14		12.37	6.49			269.15	403.08	18.12		-0 62	
26	6801	87.90	283.50	6588.18	437.50	2.80	-437.79	16.51		9.01	16.32			270.37	437 80	16.11		-3 61	

		SURVEY CALCULATION PROGRAM										TARGET DETAILS							
		v1.00.02																	
OPERATOR:		Marbob Energy Corp.				Supervisors:						TARGET N-S		Directional					
WELL:		Down South State Com #4				Joe Hargrove						TARGET E-W							
LOCATION:		Eddy Co., NM				Joe Beal						TARGET RADIUS							
JOB NUMBER:		WT-10215				Nic Black						TARGET DISPLACEMENT							
COMMENTS:												TARGET CLOSURE							
						MAG DEC. (-/+)				7.95		TARGET TVD		Horizontal					
						GRID CORR. (-/+)				-0.11		DIP AZ		6600.02					
						TOTAL CORR. (-/+)				7.84		DIP DEG UP+/DN-		268.23					
DATE: 05/27/10		TIME: 10:34 AM										DIP DEG UP+/DN-		0.37					
												TARGET INCLINATION		90.37					
MINIMUM CURVATURE CALCULATIONS(SPE-3362)										PROPOSED DIRECTION		268.23		TARGET TRACKING TO CENTER					
SVY NUM	MD	INC	TRUE AZM	TVD	SECT	N-S	E-W	DLS/ 100	ABOVE(+)	RIGHT(+)	CLOSURE DIR (DEG AZ)	CLOSURE DISTANCE (FEET)	BUILD RATE/ °/100'	WALK RATE/ °/100'					
									BELOW(-)	LEFT(-)									
27	6864	91.30	281.10	6588.62	498.59	16.22	-499.33	6.61	8.18	31.63	271.86	499.60	5.40	-3.81					
28	6896	91.10	280.30	6587.95	529.83	22.16	-530.77	2.58	8.65	38.54	272.39	531.23	-0.62	-2.50					
29	6960	89.30	278.20	6587.73	592.64	32.44	-593.93	4.32	8.46	50.77	273.13	594.82	-2.81	-3.28					
30	7023	88.60	276.20	6588.88	654.86	40.34	-656.42	3.36	6.91	60.59	273.52	657.66	-1.11	-3.17					
31	7054	88.30	275.20	6589.72	685.59	43.42	-687.25	3.37	5.87	64.62	273.61	688.62	-0.97	-3.23					
32	7118	89.30	272.60	6591.06	749.25	47.77	-751.09	4.35	4.12	70.94	273.64	752.60	1.56	-4.06					
33	7181	88.80	272.90	6592.11	812.05	50.79	-814.00	0.93	2.67	75.91	273.57	815.59	-0.79	0.48					
34	7245	89.40	270.50	6593.11	875.92	52.69	-877.96	3.86	1.25	79.78	273.43	879.54	0.94	-3.75					
35	7308	90.40	267.20	6593.22	938.90	51.42	-940.94	5.47	0.73	80.46	273.13	942.35	1.59	-5.24					
36	7372	90.20	267.10	6592.89	1002.89	48.24	-1004.86	0.35	0.66	79.26	272.75	1006.02	-0.31	-0.16					
37	7436	90.10	267.40	6592.72	1066.88	45.17	-1068.79	0.49	0.41	78.16	272.42	1069.74	-0.16	0.47					
38	7499	89.80	267.00	6592.77	1129.87	42.09	-1131.71	0.79	-0.05	77.03	272.13	1132.49	-0.48	-0.63					
39	7563	91.30	267.70	6592.16	1193.86	39.13	-1195.64	2.59	0.15	76.05	271.87	1196.28	2.34	1.09					
40	7626	91.50	268.10	6590.62	1256.84	36.83	-1258.58	0.71	1.28	75.68	271.68	1259.12	0.32	0.63					
41	7690	90.60	266.80	6589.45	1320.82	33.98	-1322.50	2.47	2.04	74.81	271.47	1322.94	-1.41	-2.03					
42	7753	90.60	266.80	6588.79	1383.80	30.46	-1385.40	0.00	2.29	73.24	271.26	1385.73	0.00	0.00					
43	7817	90.80	266.10	6588.01	1447.76	26.50	-1449.27	1.14	2.66	71.25	271.05	1449.51	0.31	-1.09					
44	7881	88.90	267.00	6588.17	1511.73	22.65	-1513.15	3.28	2.08	69.38	270.86	1513.32	-2.97	1.41					
45	7944	88.70	267.10	6589.49	1574.70	19.41	-1576.05	0.35	0.36	68.08	270.71	1576.17	-0.32	0.16					
46	8008	89.10	267.10	6590.72	1638.68	16.17	-1639.96	0.63	-1.28	66.82	270.56	1640.04	0.62	0.00					
47	8071	89.70	267.70	6591.38	1701.67	13.31	-1702.89	1.35	-2.35	65.90	270.45	1702.94	0.95	0.95					
48	8135	89.90	267.00	6591.61	1765.66	10.35	-1766.82	1.14	-2.99	64.92	270.34	1766.85	0.31	-1.09					
49	8198	90.20	266.70	6591.55	1828.64	6.89	-1829.73	0.67	-3.34	63.40	270.22	1829.74	0.48	-0.48					
50	8262	89.90	266.40	6591.49	1892.61	3.04	-1893.61	0.66	-3.70	61.53	270.09	1893.61	-0.47	-0.47					
51	8326	89.40	268.00	6591.89	1956.60	-0.09	-1957.53	2.62	-4.50	60.38	270.00	1957.53	-0.78	2.50					
52	8389	89.30	267.80	6592.60	2019.59	-2.39	-2020.48	0.35	-5.62	60.01	269.93	2020.49	-0.16	-0.32					
53	8453	91.40	267.30	6592.21	2083.58	-5.13	-2084.42	3.37	-5.64	59.25	269.86	2084.43	3.28	-0.78					

		SURVEY CALCULATION PROGRAM								TARGET DETAILS											
		v1.00 02																			
OPERATOR:		Marbob Energy Corp.				Supervisors:						TARGET N-S		Directional							
WELL:		Down South State Com #4				Joe Hargrove						TARGET E-W									
LOCATION:		Eddy Co., NM				Joe Beal						TARGET RADIUS									
JOB NUMBER:		WT-10215				Nic Black						TARGET DISPLACEMENT									
COMMENTS:												TARGET CLOSURE									
						MAG DEC.(-/+)				7.95		TARGET TVD		Horizontal							
						GRID CORR.(-/+)				-0.11		DIP AZ		268.23							
						TOTAL CORR.(-/+)				7.84		DIP DEG UP+/DN-		0.37							
DATE: 05/27/10		TIME: 10:34 AM										TARGET INCLINATION		90.37							
MINIMUM CURVATURE CALCULATIONS(SPE-3362)								PROPOSED DIRECTION		268.23		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'							
54	8516	91.20	267.00	6590.78	2146.56	-8.26	-2147.33	0.57	-4.62	58 07	269.78	2147.34	-0.32	-0.48							
55	8580	90.40	266.50	6589.89	2210.53	-11.89	-2211 22	1.47	-4.14	56 41	269.69	2211.25	-1 25	-0.78							
56	8643	91.30	267.00	6588.95	2273.50	-15.46	-2274.11	1.63	-3.61	54.79	269.61	2274.16	1.43	0.79							
57	8707	89.40	265.80	6588 56	2337.46	-19.48	-2337.98	3.51	-3.64	52 74	269.52	2338.06	-2.97	-1.87							
58	8770	89.30	266.10	6589.28	2400.41	-23.93	-2400.81	0.50	-4.76	50.24	269.43	2400.93	-0.16	0 48							
59	8834	90.20	267.10	6589.56	2464.38	-27.72	-2464.70	2.10	-5.45	48.42	269.36	2464.86	1.41	1.56							
60	8897	90.40	268.00	6589.23	2527.37	-30.42	-2527 64	1.46	-5.53	47 67	269.31	2527.82	0.32	1.43							
61	8961	91.60	267.30	6588 11	2591.36	-33.04	-2591.58	2 17	-4.82	47.02	269.27	2591.79	1.87	-1.09							
62	9024	90.80	266.20	6586.79	2654.32	-36.61	-2654.46	2.16	-3.91	45.39	269.21	2654.71	-1.27	-1.75							
63	9088	89.30	266.60	6586.73	2718.29	-40.63	-2718.33	2.43	-4.27	43.35	269.14	2718.63	-2.34	0 63							
64	9151	90.00	266.10	6587 12	2781.25	-44.64	-2781.20	1.37	-5.06	41.28	269.08	2781.56	1 11	-0.79							
65	9215	91.30	266.00	6586.39	2845.20	-49.05	-2845.04	2.04	-4.75	38.85	269.01	2845.47	2.03	-0.16							
66	9278	91.90	265.80	6584.63	2908.12	-53.55	-2907.86	1.00	-3.39	36.29	268.94	2908.35	0.95	-0.32							
67	9342	91.80	266.40	6582.57	2972.05	-57.90	-2971.68	0.95	-1.74	33.91	268.88	2972.24	-0.16	0 94							
68	9406	92.30	267.60	6580.28	3035 99	-61.25	-3035.55	2.03	0.14	32.54	268.84	3036.16	0.78	1.88							
69	9469	90.90	267.80	6578.52	3098.96	-63.78	-3098.47	2.24	1.49	31.96	268.82	3099.12	-2.22	0 32							
70	9533	89.90	268.40	6578.07	3162.96	-65.90	-3162.43	1.82	1.52	31.81	268.81	3163.12	-1.56	0 94							
71	9596	89.50	267.90	6578.40	3225.96	-67.93	-3225 40	1.02	0.79	31.72	268.79	3226.11	-0.63	-0.79							
72	9660	90.50	268.20	6578.40	3289.95	-70.11	-3289.36	1.63	0.37	31 52	268.78	3290.11	1.56	0 47							
73	9724	90.60	267.80	6577.79	3353.95	-72.34	-3353 32	0.64	0.57	31.27	268.76	3354.10	0.16	-0.62							
74	9787	90.40	268.10	6577.24	3416 95	-74.60	-3416 27	0.57	0.72	30.96	268.75	3417.09	-0.32	0 48							
75	9851	90.00	267.60	6577.01	3480.95	-77.00	-3480.23	1.00	0.53	30.53	268.73	3481 08	-0 63	-0.78							
76	9914	90.30	268.30	6576 85	3543.94	-79.25	-3543 19	1.21	0.29	30.23	268.72	3544.07	0.48	1 11							
77	9978	90.30	268.00	6576.51	3607.94	-81.32	-3607.15	0.47	0.21	30.14	268.71	3608.07	0.00	-0.47							
78	10041	90.30	268.40	6576.18	3670.94	-83.30	-3670.12	0.63	0.13	30.10	268.70	3671 07	0 00	0 63							
79	10104	89.80	268.50	6576.13	3733.94	-85.00	-3733.10	0.81	-0.22	30.35	268.70	3734.07	-0.79	0 16							
80	10168	90.00	267.20	6576.24	3797.94	-87.40	-3797.05	2.06	-0.75	29.92	268.68	3798.06	0 31	-2 03							

		SURVEY CALCULATION PROGRAM								TARGET DETAILS												
		v1.00.02																				
OPERATOR:		Marbob Energy Corp.				Supervisors:						TARGET N-S Directional										
WELL:		Down South State Com #4				Joe Hargrove						TARGET E-W										
LOCATION:		Eddy Co., NM				Joe Beal						TARGET RADIUS										
JOB NUMBER:		WT-10215				Nic Black						TARGET DISPLACEMENT										
		COMMENTS:										TARGET CLOSURE										
						MAG DEC.(-/+)		7.95		TARGET TVD Horizontal		6600.02										
						GRID CORR.(-/+)		-0.11		DIP AZ		268.23										
						TOTAL CORR.(-/+)		7.84		DIP DEG UP+/DN-		0.37										
DATE: 05/27/10		TIME: 10:34 AM								TARGET INCLINATION		90.37										
MINIMUM CURVATURE CALCULATIONS(SPE-3362)									PROPOSED DIRECTION		268.23		TARGET TRACKING TO CENTER		CLOSURE DIR (DEG AZ)		CLOSURE DISTANCE (FEET)		BUILD RATE/ %/100'		WALK RATE/ %/100'	
SVY NUM	MD	INC	TRUE AZM	TVD	SECT	N-S	E-W	DLS/ 100	ABOVE(+)	BELOW(-)	RIGHT(+)	LEFT(-)										
81	10232	90.40	266.80	6576.02	3861.92	-90.75	-3860.96	0.88	-0.94		28.55		268.65	3862.03	0.63	-0.62						
82	10295	90.40	266.20	6575.58	3924.89	-94.60	-3923.84	0.95	-0.90		26.65		268.62	3924.98	0.00	-0.95						
83	10359	90.30	266.40	6575.19	3988.86	-98.73	-3987.71	0.35	-0.93		24.49		268.58	3988.93	-0.16	0.31						
84	10422	89.60	265.20	6575.24	4051.80	-103.34	-4050.54	2.21	-1.39		21.82		268.54	4051.86	-1.11	-1.90						
85	10486	90.10	264.00	6575.41	4115.67	-109.36	-4114.25	2.03	-1.97		17.77		268.48	4115.71	0.78	-1.87						
86	10550	91.20	265.80	6574.68	4179.55	-115.05	-4177.99	3.30	-1.65		14.05		268.42	4179.57	1.72	2.81						
87	10613	92.40	265.50	6572.70	4242.46	-119.83	-4240.78	1.96	-0.08		11.22		268.38	4242.47	1.90	-0.48						
88	10677	91.80	267.20	6570.36	4306.38	-123.90	-4304.60	2.82	1.85		9.12		268.35	4306.38	-0.94	2.66						
89	10740	89.80	268.10	6569.48	4369.36	-126.48	-4367.54	3.48	2.32		8.48		268.34	4369.37	-3.17	1.43						
90	10804	90.50	269.70	6569.31	4433.35	-127.71	-4431.52	2.73	2.08		9.23		268.35	4433.36	1.09	2.50						
91	10867	90.40	270.90	6568.82	4496.31	-127.38	-4494.52	1.91	2.17		11.50		268.38	4496.33	-0.16	1.90						
92	10958	89.20	270.30	6569.13	4587.23	-126.43	-4585.51	1.47	1.26		15.27		268.42	4587.26	-1.32	-0.66						
TD	11005	89.20	270.30	6569.79	4634.19	-126.18	-4632.51	0.00	0.30		16.96		268.44	4634.23	0.00	0.00						
						(-126)		(-4628)														

Surf: 660' FSL, 330' FEL
EOL: 534' FSL, 322' FWL