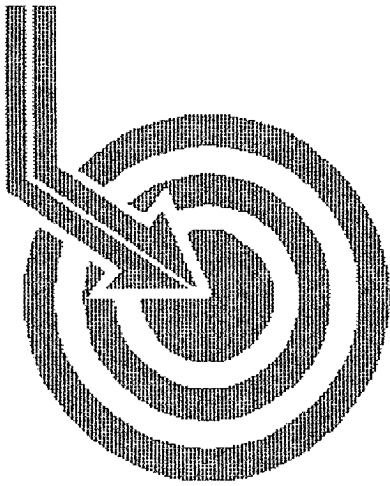




Scientific Drilling

30-015-37879

MARBOB ENERGY

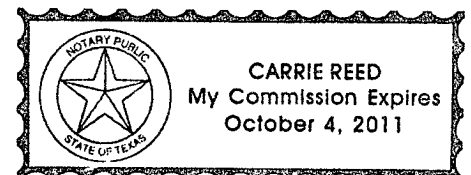
Field: Hay Hollow
Site: Eddy County, NM
Well: F.U.N. State Com #1H
Wellpath: VH - Job #32K0610479
Survey: 06/27/10

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

Richard
Company Representative

Notarized this date 2010 of July, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International, Inc.

Survey Report

Company: MARBOB ENERGY	Date: 6/30/2010	Time: 09:43:51	Page: 1
Field: Hay Hollow	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: F.U.N. State Com #1H	Section (VS) Reference:	Well (0.00N,0.00E,180.50Azi)	
Wellpath: VH - Job #32K0610479	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 06/27/10	Start Date: 6/27/2010
Company: Scientific Drilling Internatio	Engineer: Garza/Roew/Williams
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	0.83	245.11	100.0	0.3	-0.3	-0.7	0.83	0.7	245.11
200.0	1.13	244.84	200.0	1.0	-1.0	-2.2	0.30	2.4	245.00
300.0	1.41	240.38	300.0	2.1	-2.1	-4.2	0.30	4.6	243.74
400.0	1.49	241.74	399.9	3.3	-3.3	-6.4	0.09	7.2	242.81
500.0	1.51	242.86	499.9	4.6	-4.5	-8.7	0.04	9.8	242.67
600.0	1.40	241.29	599.9	5.8	-5.7	-10.9	0.12	12.3	242.55
700.0	1.21	243.95	699.8	6.8	-6.7	-13.0	0.20	14.6	242.55
800.0	1.08	252.15	799.8	7.6	-7.5	-14.8	0.21	16.6	243.18
900.0	1.03	255.20	899.8	8.2	-8.0	-16.6	0.08	18.4	244.22
1000.0	1.01	260.29	999.8	8.5	-8.4	-18.3	0.09	20.1	245.40
1100.0	1.22	289.16	1099.8	8.4	-8.2	-20.2	0.59	21.8	247.94
1200.0	1.79	315.52	1199.7	6.9	-6.7	-22.3	0.88	23.3	253.22
1300.0	2.33	332.72	1299.7	4.0	-3.8	-24.3	0.82	24.6	261.12
1400.0	2.60	335.04	1399.6	0.2	0.1	-26.2	0.29	26.2	270.14
1500.0	2.71	336.17	1499.5	-4.0	4.3	-28.1	0.12	28.4	278.66
1600.0	2.53	342.69	1599.4	-8.3	8.6	-29.7	0.35	30.9	286.05
1700.0	2.34	357.50	1699.3	-12.4	12.7	-30.5	0.66	33.0	292.62
1800.0	2.67	10.42	1799.2	-16.8	17.0	-30.1	0.65	34.6	299.47
1900.0	2.54	27.42	1899.1	-21.0	21.3	-28.7	0.78	35.7	306.57
2000.0	2.20	40.15	1999.0	-24.5	24.7	-26.4	0.62	36.2	313.08
2100.0	1.43	42.61	2098.9	-26.9	27.1	-24.4	0.77	36.4	318.06
2200.0	0.82	32.20	2198.9	-28.4	28.6	-23.1	0.64	36.8	321.06
2300.0	0.52	353.15	2298.9	-29.5	29.7	-22.8	0.53	37.4	322.47
2400.0	0.45	0.68	2398.9	-30.3	30.5	-22.9	0.09	38.1	323.18
2500.0	0.60	351.79	2498.9	-31.2	31.4	-22.9	0.17	38.9	323.90
2600.0	0.49	349.58	2598.9	-32.2	32.4	-23.1	0.11	39.8	324.52
2700.0	0.52	338.28	2698.9	-33.0	33.2	-23.3	0.10	40.6	324.93
2800.0	0.36	333.68	2798.9	-33.7	33.9	-23.6	0.16	41.3	325.14
2900.0	0.22	270.70	2898.9	-34.0	34.2	-24.0	0.33	41.8	324.99
3000.0	0.27	303.11	2998.9	-34.1	34.3	-24.4	0.14	42.1	324.66
3100.0	0.30	252.52	3098.9	-34.2	34.4	-24.8	0.25	42.4	324.21
3200.0	0.48	258.69	3198.9	-34.0	34.2	-25.5	0.18	42.7	323.36
3300.0	0.40	258.93	3298.9	-33.9	34.1	-26.2	0.08	43.0	322.44
3400.0	0.55	251.72	3398.9	-33.6	33.9	-27.0	0.16	43.3	321.42
3500.0	0.48	261.47	3498.9	-33.4	33.7	-27.9	0.11	43.7	320.36
3600.0	0.50	253.84	3598.9	-33.2	33.5	-28.7	0.07	44.1	319.37
3700.0	0.58	253.22	3698.9	-32.9	33.2	-29.6	0.08	44.5	318.26
3800.0	0.47	252.79	3798.9	-32.7	32.9	-30.5	0.11	44.9	317.20
3900.0	0.47	238.91	3898.9	-32.3	32.6	-31.2	0.11	45.1	316.22
4000.0	0.50	237.07	3998.9	-31.9	32.1	-32.0	0.03	45.3	315.18
4100.0	0.41	240.05	4098.9	-31.4	31.7	-32.6	0.09	45.5	314.20
4200.0	0.41	228.69	4198.9	-31.0	31.3	-33.2	0.08	45.6	313.32
4300.0	0.54	230.08	4298.8	-30.5	30.8	-33.8	0.13	45.7	312.29
4400.0	0.53	231.85	4398.8	-29.9	30.2	-34.6	0.02	45.9	311.14
4500.0	0.82	217.43	4498.8	-29.0	29.3	-35.4	0.33	45.9	309.68
4600.0	1.08	211.58	4598.8	-27.6	28.0	-36.3	0.28	45.8	307.62
4700.0	1.02	208.77	4698.8	-26.1	26.4	-37.2	0.08	45.6	305.34
4800.0	1.06	204.33	4798.8	-24.4	24.8	-38.0	0.09	45.4	303.07



Scientific Drilling International, Inc.

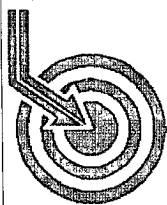
Survey Report

Company: MARBOB ENERGY
Field: Hay Hollow
Site: Eddy County, NM
Well: F.U.N. State Com #1H
Wellpath: VH - Job #32K0610479

Date: 6/30/2010 Time: 09:43:51 Page: 2
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,180.50Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

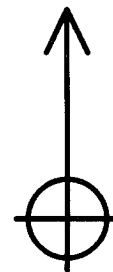
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.0	1.11	198.37	4898.8	-22.7	23.0	-38.7	0.12	45.0	300.72
5000.0	1.21	196.74	4998.8	-20.7	21.1	-39.3	0.11	44.6	298.18
5100.0	1.34	193.79	5098.7	-18.6	18.9	-39.9	0.15	44.2	295.37
5200.0	1.46	200.40	5198.7	-16.2	16.6	-40.6	0.20	43.9	292.22
5300.0	1.60	202.30	5298.7	-13.7	14.1	-41.6	0.15	43.9	288.73
5400.0	1.68	204.28	5398.6	-11.1	11.5	-42.7	0.10	44.2	285.04
5500.0	1.58	205.65	5498.6	-8.5	8.9	-43.9	0.11	44.8	281.45
5600.0	1.79	198.13	5598.5	-5.8	6.2	-45.0	0.30	45.4	277.81
5670.0	1.83	194.35	5668.5	-3.7	4.1	-45.6	0.18	45.8	275.07



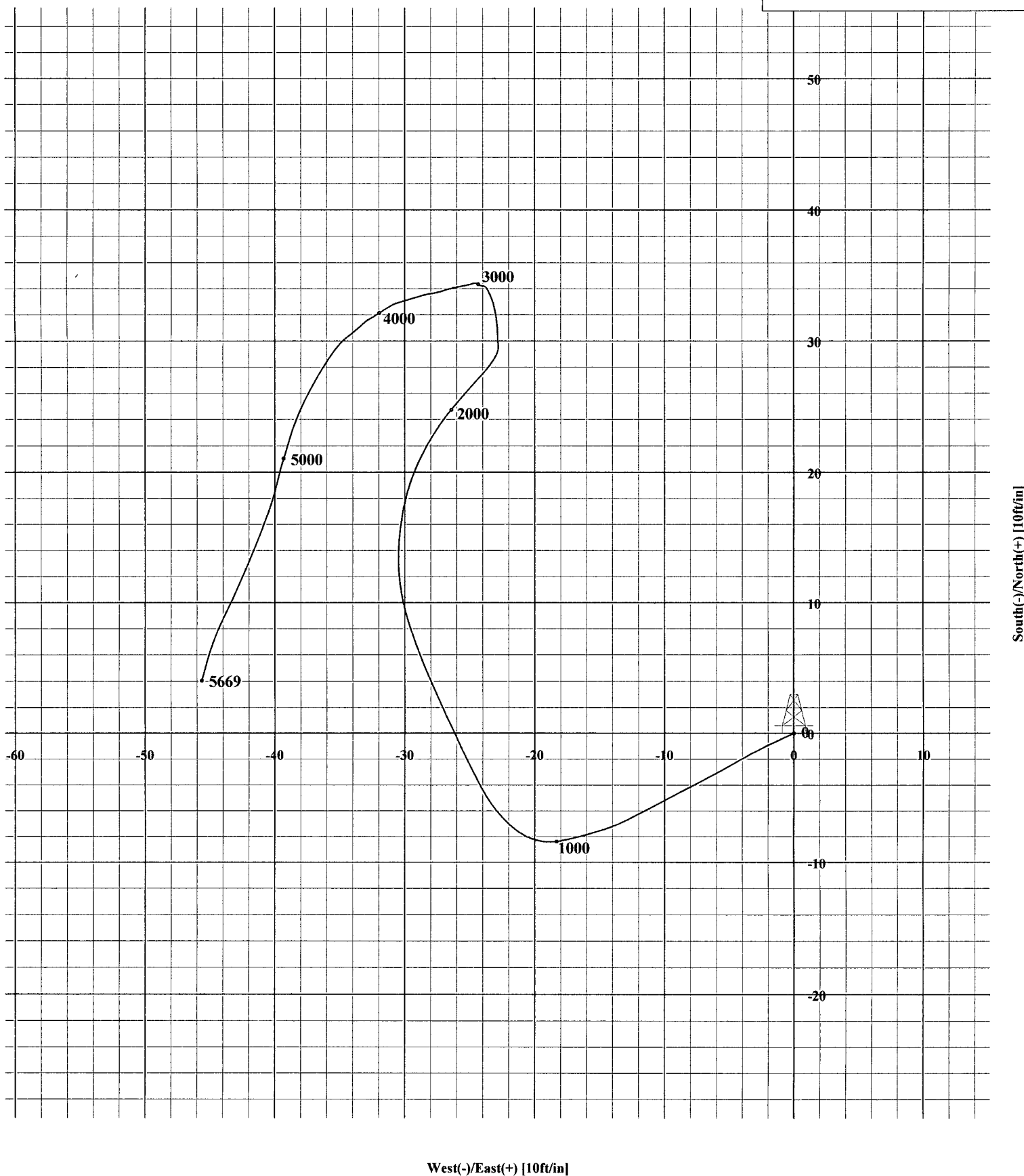
Scientific
Drilling

Field: Hay Hollow
Site: Eddy County, NM
Well: F.U.N. State Com #1H
Survey: 06/27/10

G/T/M



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field
Dip Angle: 0.00°
Date: 6/29/2010
Model: igrf2000





DDC Survey Report



Company: Marbob Energy Corporation
Project: Eddy,NM
Site: T-26-S, R-28-E
Well: F.U.N. State Com #1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well F.U.N. State Com #1H
TVD Reference: WELL @ 0.0usft (Original Well Elev)
MD Reference: WELL @ 0.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project	Eddy,NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	T-26-S, R-28-E		
Site Position:		Northing:	370,532.40 usft
From:	Map	Easting:	566,532.20 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 6.693 N
		Longitude:	104° 7' 7.200 W
		Grid Convergence:	0.11 °

Well	F.U.N. State Com #1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 1' 6.693 N
		Longitude:	104° 7' 7.200 W
		Ground Level:	0.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	6/21/2010	(°)
			7.94
		Dip Angle	(°)
		59.92	
		Field Strength	(nT)
		48,553	

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
		Direction	(°)
		180.51	

Survey Program	Date 7/12/2010		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.0	5,670.0	Gyro Surveys (Wellbore #1)	Good_gyro
5,804.0	12,649.0	MWD Surveys (Wellbore #1)	Good Gyro

Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
Tie-In to Gyro									
5,670.0	1.83	194.35	5,668.5	4.1	-45.6	-3.6	0.00	0.00	0.00
5,804.0	2.10	194.60	5,802.4	-0.4	-46.8	0.8	0.20	0.20	0.19
5,835.0	3.00	191.10	5,833.4	-1.7	-47.1	2.2	2.95	2.90	-11.29
5,866.0	6.60	184.10	5,864.3	-4.3	-47.4	4.7	11.74	11.61	-22.58
5,898.0	11.60	179.90	5,895.9	-9.4	-47.5	9.8	15.75	15.63	-13.13
5,928.0	16.40	179.50	5,925.0	-16.6	-47.4	17.0	16.00	16.00	-1.33
5,959.0	20.00	178.30	5,954.4	-26.3	-47.2	26.7	11.68	11.61	-3.87
5,990.0	22.30	176.50	5,983.3	-37.5	-46.7	37.9	7.71	7.42	-5.81
6,021.0	24.60	176.10	6,011.8	-49.8	-45.9	50.2	7.44	7.42	-1.29



DDC Survey Report



Company: Marbob Energy Corporation
Project: Eddy, NM
Site: T-26-S, R-28-E
Well: F.U.N. State Com #1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well F.U.N. State Com #1H
TVD Reference: WELL @ 0.0usft (Original Well Elev)
MD Reference: WELL @ 0.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,052.0	26.50	177.40	6,039.7	-63.1	-45.2	63.5	6.39	6.13	4.19
6,083.0	28.10	179.20	6,067.3	-77.3	-44.8	77.7	5.81	5.16	5.81
6,114.0	30.60	180.40	6,094.3	-92.5	-44.7	92.9	8.28	8.06	3.87
6,145.0	31.60	179.30	6,120.8	-108.5	-44.7	108.9	3.71	3.23	-3.55
6,176.0	33.30	177.80	6,147.0	-125.2	-44.2	125.6	6.07	5.48	-4.84
6,207.0	34.80	177.60	6,172.7	-142.5	-43.6	142.9	4.85	4.84	-0.65
6,238.0	36.50	178.70	6,197.9	-160.6	-43.0	161.0	5.86	5.48	3.55
6,268.0	38.20	179.80	6,221.7	-178.8	-42.7	179.1	6.09	5.67	3.67
6,300.0	40.00	181.00	6,246.5	-199.0	-42.9	199.3	6.10	5.63	3.75
6,330.0	42.00	181.10	6,269.2	-218.6	-43.2	219.0	6.67	6.67	0.33
6,361.0	44.20	181.00	6,291.8	-239.8	-43.6	240.2	7.10	7.10	-0.32
6,392.0	46.50	179.50	6,313.6	-261.9	-43.7	262.2	8.18	7.42	-4.84
6,423.0	49.70	177.50	6,334.3	-284.9	-43.1	285.3	11.38	10.32	-6.45
6,455.0	52.40	176.20	6,354.4	-309.8	-41.7	310.1	9.01	8.44	-4.06
6,485.0	55.20	176.10	6,372.1	-333.9	-40.1	334.3	9.34	9.33	-0.33
6,517.0	58.50	176.70	6,389.6	-360.6	-38.4	361.0	10.43	10.31	1.88
6,548.0	61.90	176.90	6,405.0	-387.5	-36.9	387.8	10.98	10.97	0.65
6,579.0	65.60	177.00	6,418.7	-415.3	-35.5	415.6	11.94	11.94	0.32
6,610.0	69.70	177.60	6,430.5	-443.9	-34.1	444.2	13.35	13.23	1.94
6,641.0	73.70	177.70	6,440.3	-473.3	-32.9	473.6	12.91	12.90	0.32
6,672.0	77.50	179.10	6,448.0	-503.3	-32.1	503.6	13.01	12.26	4.52
6,703.0	82.30	180.70	6,453.4	-533.8	-32.0	534.1	16.30	15.48	5.16
6,736.0	87.30	181.80	6,456.4	-566.7	-32.7	566.9	15.51	15.15	3.33
6,767.0	88.60	182.00	6,457.5	-597.6	-33.8	597.9	4.24	4.19	0.65
6,798.0	89.60	182.90	6,458.0	-628.6	-35.1	628.9	4.34	3.23	2.90
6,830.0	91.30	183.90	6,457.7	-660.5	-37.0	660.8	6.16	5.31	3.13
6,893.0	90.60	183.90	6,456.7	-723.4	-41.3	723.7	1.11	-1.11	0.00
6,925.0	90.20	183.70	6,456.5	-755.3	-43.4	755.7	1.40	-1.25	-0.63
6,989.0	89.80	181.90	6,456.5	-819.2	-46.5	819.6	2.88	-0.63	-2.81
7,084.0	89.10	180.80	6,457.4	-914.2	-48.7	914.6	1.37	-0.74	-1.16
7,179.0	88.80	181.50	6,459.1	-1,009.2	-50.7	1,009.6	0.80	-0.32	0.74
7,275.0	89.60	181.00	6,460.5	-1,105.1	-52.7	1,105.6	0.98	0.83	-0.52
7,307.0	89.20	181.30	6,460.8	-1,137.1	-53.4	1,137.5	1.56	-1.25	0.94
7,434.0	89.80	180.40	6,461.9	-1,264.1	-55.3	1,264.5	0.85	0.47	-0.71
7,529.0	90.30	179.50	6,461.8	-1,359.1	-55.2	1,359.5	1.08	0.53	-0.95
7,624.0	90.50	179.60	6,461.2	-1,454.1	-54.4	1,454.5	0.24	0.21	0.11
7,720.0	90.90	178.90	6,460.0	-1,550.1	-53.2	1,550.5	0.84	0.42	-0.73
7,815.0	90.00	179.20	6,459.2	-1,645.1	-51.6	1,645.4	1.00	-0.95	0.32
7,910.0	90.70	178.90	6,458.7	-1,740.0	-50.0	1,740.4	0.80	0.74	-0.32
8,006.0	89.80	178.60	6,458.2	-1,836.0	-47.9	1,836.4	0.99	-0.94	-0.31
8,101.0	90.60	178.50	6,457.9	-1,931.0	-45.5	1,931.3	0.85	0.84	-0.11
8,196.0	90.20	178.60	6,457.3	-2,026.0	-43.1	2,026.3	0.43	-0.42	0.11
8,291.0	90.30	179.20	6,456.8	-2,120.9	-41.3	2,121.2	0.64	0.11	0.63



DDC
Survey Report



Company: Marbob Energy Corporation
Project: Eddy,NM
Site: T-26-S, R-28-E
Well: F.U.N. State Com #1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well F.U.N. State Com #1H
TVD Reference: WELL @ 0.0usft (Original Well Elev)
MD Reference: WELL @ 0.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,387.0	91.00	180.00	6,455.8	-2,216.9	-40.6	2,217.2	1.11	0.73	0.83
8,482.0	90.20	179.60	6,454.8	-2,311.9	-40.3	2,312.2	0.94	-0.84	-0.42
8,577.0	90.60	180.40	6,454.1	-2,406.9	-40.3	2,407.2	0.94	0.42	0.84
8,673.0	90.20	180.30	6,453.4	-2,502.9	-40.9	2,503.2	0.43	-0.42	-0.10
8,768.0	89.80	180.40	6,453.4	-2,597.9	-41.5	2,598.2	0.43	-0.42	0.11
8,863.0	90.10	180.10	6,453.5	-2,692.9	-41.9	2,693.2	0.45	0.32	-0.32
8,958.0	90.40	180.70	6,453.1	-2,787.9	-42.6	2,788.2	0.71	0.32	0.63
9,054.0	90.30	180.60	6,452.5	-2,883.9	-43.6	2,884.2	0.15	-0.10	-0.10
9,149.0	90.40	179.70	6,451.9	-2,978.9	-43.9	2,979.2	0.95	0.11	-0.95
9,244.0	89.70	178.70	6,451.8	-3,073.9	-42.6	3,074.1	1.28	-0.74	-1.05
9,308.0	89.10	178.10	6,452.5	-3,137.8	-40.8	3,138.1	1.33	-0.94	-0.94
9,403.0	89.20	178.90	6,453.9	-3,232.8	-38.3	3,233.0	0.85	0.11	0.84
9,498.0	90.10	179.70	6,454.5	-3,327.8	-37.1	3,328.0	1.27	0.95	0.84
9,594.0	90.00	181.40	6,454.4	-3,423.8	-38.1	3,424.0	1.77	-0.10	1.77
9,689.0	89.40	179.90	6,454.9	-3,518.8	-39.1	3,519.0	1.70	-0.63	-1.58
9,784.0	89.90	181.00	6,455.5	-3,613.8	-39.9	3,614.0	1.27	0.53	1.16
9,880.0	88.90	180.50	6,456.5	-3,709.8	-41.1	3,710.0	1.16	-1.04	-0.52
9,975.0	89.30	182.50	6,458.0	-3,804.7	-43.6	3,804.9	2.15	0.42	2.11
10,071.0	88.70	182.20	6,459.7	-3,900.6	-47.6	3,900.9	0.70	-0.63	-0.31
10,166.0	90.70	182.60	6,460.2	-3,995.5	-51.5	3,995.8	2.15	2.11	0.42
10,261.0	90.40	182.20	6,459.3	-4,090.4	-55.5	4,090.8	0.53	-0.32	-0.42
10,357.0	90.40	182.30	6,458.6	-4,186.4	-59.3	4,186.7	0.10	0.00	0.10
10,421.0	90.40	181.90	6,458.1	-4,250.3	-61.6	4,250.7	0.62	0.00	-0.63
10,484.0	90.30	182.10	6,457.8	-4,313.3	-63.8	4,313.7	0.35	-0.16	0.32
10,548.0	90.60	182.30	6,457.2	-4,377.2	-66.3	4,377.6	0.56	0.47	0.31
10,611.0	90.90	182.30	6,456.4	-4,440.2	-68.8	4,440.6	0.48	0.48	0.00
10,677.0	91.70	182.80	6,454.9	-4,506.1	-71.7	4,506.5	1.43	1.21	0.76
10,739.0	90.70	181.60	6,453.6	-4,568.0	-74.1	4,568.5	2.52	-1.61	-1.94
10,802.0	90.60	181.50	6,452.9	-4,631.0	-75.8	4,631.5	0.22	-0.16	-0.16
10,897.0	90.90	182.00	6,451.7	-4,725.9	-78.7	4,726.5	0.61	0.32	0.53
10,993.0	91.40	182.40	6,449.7	-4,821.9	-82.4	4,822.4	0.67	0.52	0.42
11,088.0	90.60	181.70	6,448.1	-4,916.8	-85.8	4,917.3	1.12	-0.84	-0.74
11,182.0	91.70	182.60	6,446.2	-5,010.7	-89.3	5,011.3	1.51	1.17	0.96
11,246.0	90.90	182.20	6,444.7	-5,074.6	-92.0	5,075.2	1.40	-1.25	-0.63
11,309.0	89.90	180.50	6,444.3	-5,137.6	-93.5	5,138.2	3.13	-1.59	-2.70
11,373.0	89.90	180.40	6,444.4	-5,201.6	-94.0	5,202.2	0.16	0.00	-0.16
11,437.0	90.10	180.40	6,444.4	-5,265.6	-94.5	5,266.2	0.31	0.31	0.00
11,500.0	90.60	181.00	6,444.0	-5,328.6	-95.2	5,329.2	1.24	0.79	0.95
11,597.0	89.90	179.90	6,443.6	-5,425.6	-96.0	5,426.2	1.34	-0.72	-1.13
11,690.0	90.00	179.70	6,443.7	-5,518.6	-95.7	5,519.2	0.24	0.11	-0.22
11,786.0	91.20	180.70	6,442.7	-5,614.6	-96.0	5,615.2	1.63	1.25	1.04
11,881.0	88.50	180.40	6,442.9	-5,709.6	-96.9	5,710.2	2.86	-2.84	-0.32
11,977.0	89.30	180.50	6,444.8	-5,805.5	-97.7	5,806.2	0.84	0.83	0.10



DDC Survey Report



Company: Marbob Energy Corporation
Project: Eddy, NM
Site: T-26-S, R-28-E
Well: F.U.N. State Com #1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well F.U.N. State Com #1H
TVD Reference: WELL @ 0.0usft (Original Well Elev)
MD Reference: WELL @ 0.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,072.0	91.20	182.10	6,444.4	-5,900.5	-99.8	5,901.2	2.61	2.00	1.68
12,167.0	89.20	182.00	6,444.0	-5,995.4	-103.2	5,996.1	2.11	-2.11	-0.11
12,261.0	88.80	181.90	6,445.7	-6,089.4	-106.4	6,090.1	0.44	-0.43	-0.11
12,356.0	88.00	181.90	6,448.3	-6,184.3	-109.6	6,185.0	0.84	-0.84	0.00
12,451.0	88.00	181.80	6,451.6	-6,279.2	-112.6	6,279.9	0.11	0.00	-0.11
12,547.0	87.10	181.20	6,455.7	-6,375.0	-115.1	6,375.8	1.13	-0.94	-0.63
12,600.0	86.80	181.10	6,458.6	-6,428.0	-116.2	6,428.7	0.60	-0.57	-0.19
TD @ 12649' MD / 6461' TVD									
12,649.0	86.80	181.10	6,461.3	-6,476.9	-117.1	6,477.7	0.00	0.00	0.00

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,670.0	5,668.5	4.1	-45.6	Tie-In to Gyro
12,649.0	6,461.3	-6,476.9	-117.1	TD @ 12649' MD / 6461' TVD

Checked By: _____ Approved By: _____ Date: _____

Surf: 800' FML, 330' FEL, Sec. 30
EOL: 320' FSL, 447' FEL, Sec. 31