



Marbob Energy Corporation

Eddy, NM

Sec 2, T26-S, R28-E

SRO State Unit COM #8H

Wellbore #1

Survey: Survey #1

DDC Survey Report

10 May, 2010





DDC Survey Report



Company: Marbob Energy Corporation
Project: Eddy,NM
Site: Sec 2,T26-S,R28-E
Well: SRO State Unit COM #8H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well SRO State Unit COM #8H
TVD Reference: WELL @ 0 0usft (Original Well Elev)
MD Reference: WELL @ 0 0usft (Original Well Elev)
North Reference: Gnd
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 Sec 2,T26-S,R28-E

Site Position: **From:** Map **Northing:** 387 608 00 usft **Latitude:** 32° 3' 55 198 N
Position Uncertainty: 0 0 usft **Easting:** 587.816 10 usft **Longitude:** 104° 2' 59 460 W
Slot Radius: 13-3/16 " **Grid Convergence:** 0 15 "

Well SRO State Unit COM #8H

Well Position **+N/-S** 0.0 usft **Northing:** 387,608 00 usft **Latitude:** 32° 3' 55 198 N
+E/-W 0.0 usft **Easting:** 587,816 10 usft **Longitude:** 104° 2' 59 460 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** usft **Ground Level:** 0.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/28/2010	7 93	59 98	48,605

Design Wellbore #1

Audit Notes:

Version: 1 0 **Phase:** ACTUAL **Tie On Depth:** 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0 0	0 0	270 13

Survey Program **Date** 5/10/2010

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
6,267 0	11,275 0	Survey #1 (Wellbore #1)	MWD default	MWD - Standard

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)
First MWD Survey									
6,160 0	2 10	188 23	6,158 1	-19.0	20 5	-20 6	0 00	0 00	0 00
6,267 0	1 90	198 60	6,265 0	-22 6	19 7	-19 7	0 39	-0 19	9 69
6,299 0	1 90	200 20	6,297 0	-23 6	19 3	-19 4	0 17	0 00	5 00
6,331 0	2 20	220 60	6,329 0	24 6	18 7	-18 8	2 45	0 94	63 75
6,362 0	5 20	259 40	6,359 9	-25 3	17 0	-17 0	12 09	9 68	125 16
6,394 0	9 90	271 80	6,391 6	25.5	12 8	-12 8	15 46	14 69	38 75
6,426 0	15 00	277 10	6,422 9	24 9	5 9	-6 0	16 32	15 94	16 56
Gross Hard Line @ 6454' MD									
6,453 9	19 27	279 35	6,449 5	23 7	-2 2	2 2	15 49	15 31	8 06



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North Reference: Grid
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Database: EDM 5000 1 Single User Db

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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)
6,458.0	19.90	279.60	6,453.4	-23.4	-3.6	3.5	15.49	15.35	6.13
6,489.0	23.60	279.90	6,482.2	-21.5	-14.9	14.8	11.94	11.94	0.97
6,521.0	26.10	278.60	6,511.2	-19.3	-28.2	28.1	8.00	7.81	-4.06
6,553.0	28.90	276.60	6,539.6	-17.4	-42.8	42.8	9.21	8.75	-6.25
6,585.0	31.70	275.00	6,567.2	-15.8	-58.9	58.8	9.11	8.75	-5.00
6,616.0	34.80	275.60	6,593.2	-14.2	-75.8	75.8	10.06	10.00	1.94
6,648.0	37.50	275.60	6,619.0	-12.4	-94.6	94.5	8.44	8.44	0.00
6,680.0	40.70	275.20	6,643.8	-10.5	-114.7	114.6	10.03	10.00	-1.25
6,712.0	43.50	274.20	6,667.6	-8.7	-136.0	136.0	9.00	8.75	-3.13
6,744.0	46.50	273.10	6,690.2	-7.3	-158.6	158.6	9.68	9.38	-3.44
6,775.0	49.20	272.10	6,711.0	-6.2	-181.6	181.6	9.03	8.71	-3.23
6,807.0	51.60	272.40	6,731.4	-5.3	-206.2	206.2	7.53	7.50	0.94
6,839.0	53.80	272.12	6,750.8	-4.3	-231.6	231.6	6.91	6.88	-0.88
6,871.0	56.40	271.90	6,769.1	-3.4	-257.9	257.9	8.14	8.13	-0.69
6,903.0	59.00	272.00	6,786.2	-2.4	-284.9	284.9	8.13	8.13	0.31
6,934.0	61.90	271.30	6,801.5	-1.7	-311.9	311.8	9.56	9.35	-2.26
6,966.0	64.70	270.10	6,815.8	-1.3	-340.4	340.4	9.37	8.75	-3.75
6,998.0	69.10	268.50	6,828.4	-1.7	-369.9	369.9	14.50	13.75	-5.00
7,030.0	73.00	267.90	6,838.8	-2.6	-400.1	400.1	12.32	12.19	-1.88
7,062.0	74.80	269.00	6,847.7	-3.5	-430.8	430.8	6.52	5.63	3.44
7,093.0	77.10	270.00	6,855.2	-3.7	-460.9	460.9	8.05	7.42	3.23
7,125.0	80.80	271.00	6,861.3	-3.4	-492.3	492.3	11.96	11.56	3.13
7,157.0	86.20	272.50	6,864.9	-2.5	-524.1	524.1	17.51	16.88	4.69
7,192.0	90.30	273.50	6,866.0	-0.6	-559.0	559.0	12.06	11.71	2.86
7,223.0	90.90	273.40	6,865.7	1.2	-589.9	589.9	1.96	1.94	-0.32
7,287.0	91.10	274.00	6,864.6	5.4	-653.8	653.8	0.99	0.31	0.94
7,319.0	91.10	274.40	6,864.0	7.7	-685.7	685.7	1.25	0.00	1.25
7,382.0	90.70	273.50	6,863.0	12.0	-748.5	748.6	1.56	-0.63	-1.43
7,478.0	90.60	271.80	6,861.9	16.5	-844.4	844.5	1.77	-0.10	-1.77
7,541.0	91.20	272.30	6,860.9	18.7	-907.4	907.4	1.24	0.95	0.79
7,602.0	91.30	272.80	6,859.6	21.4	-968.3	968.4	0.84	0.16	0.82
7,634.0	90.90	271.00	6,858.9	22.5	-1,000.3	1,000.3	5.76	-1.25	-5.63
7,697.0	90.20	269.50	6,858.3	22.8	-1,063.3	1,063.3	2.63	-1.11	-2.38
7,764.0	90.40	270.00	6,858.0	22.5	-1,130.3	1,130.3	0.80	0.30	0.75
7,827.0	89.80	269.50	6,857.9	22.2	-1,193.3	1,193.3	1.24	-0.95	-0.79
7,891.0	89.80	269.80	6,858.1	21.8	-1,257.3	1,257.3	0.47	0.00	0.47
7,954.0	89.80	270.00	6,858.3	21.7	-1,320.3	1,320.3	0.32	0.00	0.32
8,018.0	89.80	270.00	6,858.5	21.7	-1,384.3	1,384.3	0.00	0.00	0.00
8,082.0	90.00	269.90	6,858.7	21.6	-1,448.3	1,448.3	0.35	0.31	-0.16
8,177.0	89.90	269.70	6,858.7	21.3	-1,543.3	1,543.3	0.24	-0.11	-0.21
8,272.0	90.00	269.50	6,858.8	20.7	-1,638.3	1,638.3	0.24	0.11	-0.21
8,368.0	90.50	270.60	6,858.4	20.7	-1,734.3	1,734.3	1.26	0.52	1.15
8,431.0	91.50	270.80	6,857.3	21.5	-1,797.3	1,797.3	1.62	1.59	0.32



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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)
8,495.0	91.10	271.20	6,855.9	22.6	-1,861.2	1,861.3	0.88	-0.63	0.63
8,558.0	88.40	268.40	6,856.1	22.4	-1,924.2	1,924.3	6.17	-4.29	-4.44
8,654.0	89.40	269.10	6,858.0	20.3	-2,020.2	2,020.2	1.27	1.04	0.73
8,749.0	91.00	269.60	6,857.6	19.2	-2,115.2	2,115.2	1.76	1.68	0.53
8,844.0	91.30	270.40	6,855.7	19.2	-2,210.1	2,210.2	0.90	0.32	0.84
8,907.0	89.80	270.20	6,855.1	19.6	-2,273.1	2,273.2	2.40	-2.38	-0.32
8,971.0	89.50	270.00	6,855.5	19.7	-2,337.1	2,337.2	0.56	-0.47	-0.31
9,034.0	89.80	270.30	6,855.9	19.8	-2,400.1	2,400.2	0.67	0.48	0.48
9,097.0	90.00	270.70	6,856.0	20.4	-2,463.1	2,463.2	0.71	0.32	0.63
9,161.0	89.80	270.70	6,856.1	21.2	-2,527.1	2,527.2	0.31	-0.31	0.00
9,224.0	89.10	269.10	6,856.7	21.1	-2,590.1	2,590.2	2.77	-1.11	-2.54
9,320.0	90.20	266.80	6,857.3	17.6	-2,686.0	2,686.1	2.66	1.15	-2.40
9,383.0	90.50	267.80	6,856.9	14.7	-2,749.0	2,749.0	1.66	0.48	1.59
9,447.0	90.50	268.60	6,856.4	12.7	-2,812.9	2,813.0	1.25	0.00	1.25
9,510.0	90.10	269.90	6,856.0	11.8	-2,875.9	2,876.0	2.16	-0.63	2.06
9,574.0	90.20	269.60	6,855.9	11.5	-2,939.9	2,940.0	0.49	0.16	-0.47
9,637.0	90.60	269.80	6,855.4	11.2	-3,002.9	3,002.9	0.71	0.63	0.32
9,701.0	90.70	270.30	6,854.7	11.3	-3,066.9	3,066.9	0.80	0.16	0.78
9,764.0	88.30	268.40	6,855.3	10.6	-3,129.9	3,129.9	4.86	-3.81	-3.02
9,828.0	90.20	269.40	6,856.1	9.3	-3,193.9	3,193.9	3.35	2.97	1.56
9,892.0	91.50	269.90	6,855.1	8.9	-3,257.9	3,257.9	2.18	2.03	0.78
9,955.0	92.20	270.00	6,853.1	8.9	-3,320.8	3,320.9	1.12	1.11	0.16
10,019.0	91.70	270.60	6,850.9	9.2	-3,384.8	3,384.8	1.22	-0.78	0.94
10,082.0	91.10	270.10	6,849.4	9.6	-3,447.8	3,447.8	1.24	-0.95	-0.79
10,146.0	91.00	269.90	6,848.2	9.6	-3,511.8	3,511.8	0.35	-0.16	-0.31
10,209.0	91.40	270.80	6,846.9	10.0	-3,574.8	3,574.8	1.56	0.63	1.43
10,273.0	90.70	270.80	6,845.7	10.9	-3,638.7	3,638.8	1.09	-1.09	0.00
10,336.0	90.90	269.80	6,844.9	11.2	-3,701.7	3,701.8	1.62	0.32	-1.59
10,400.0	90.50	269.40	6,844.1	10.8	-3,765.7	3,765.7	0.88	-0.63	-0.63
10,463.0	90.30	270.00	6,843.6	10.4	-3,828.7	3,828.7	1.00	-0.32	0.95
10,527.0	89.80	270.20	6,843.6	10.5	-3,892.7	3,892.7	0.84	-0.78	0.31
10,591.0	90.00	270.40	6,843.7	10.9	-3,956.7	3,956.7	0.44	0.31	0.31
10,654.0	90.70	270.00	6,843.3	11.1	-4,019.7	4,019.7	1.28	1.11	-0.63
10,717.0	90.70	269.50	6,842.5	10.8	-4,082.7	4,082.7	0.79	0.00	-0.79
10,781.0	90.20	270.00	6,842.0	10.5	-4,146.7	4,146.7	1.10	-0.78	0.78
10,845.0	90.30	270.10	6,841.8	10.6	-4,210.7	4,210.7	0.22	0.16	0.16
10,908.0	90.30	269.90	6,841.4	10.6	-4,273.7	4,273.7	0.32	0.00	-0.32
10,972.0	90.40	269.80	6,841.0	10.4	-4,337.7	4,337.7	0.22	0.16	-0.16
11,067.0	89.90	269.80	6,840.8	10.1	-4,432.7	4,432.7	0.53	-0.53	0.00
11,163.0	89.70	269.80	6,841.1	9.8	-4,528.7	4,528.7	0.21	0.21	0.00
11,226.0	89.60	270.80	6,841.5	10.1	-4,591.7	4,591.7	1.60	0.16	1.59
Projection to TD @ 11275' MD / 6842' TVD									
11,275.0	89.60	270.80	6,841.8	10.8	-4,640.7	4,640.7	0.00	0.00	0.00



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Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,160.0	6,158.1	-19.0	20.5	First MWD Survey
6,453.9	6,449.5	-23.7	-2.2	Cross Hard Line @ 6454' MD
11,275.0	6,841.8	10.8	-4,640.7	Projection to TD @ 11275' MD / 6842' TVD

Checked By: _____ Approved By: _____ Date: _____