

MARBOB ENERGY

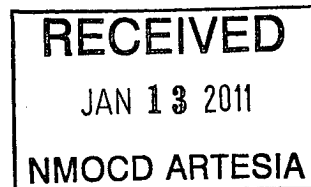
Hay Hollow
Eddy County, NM
Myox 19 Fee Com #11H
VH - Job #32K0810596

30-015-
37415

Survey: Actual

SDI Standard Survey Report

22 August, 2010



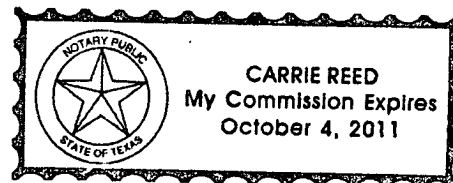
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notorized this date 26 of September, 2010.

Carrie Reed

Notary Signature
County of Midland
State of Texas



me

Scientific Drilling International, Inc.

SDI Standard Survey Report

Company:	MARBOB ENERGY	Local Co-ordinate Reference:	Well Myox 19 Fee Com #11H
Project:	Hay Hollow	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Myox 19 Fee Com #11H	North Reference:	Grid
Wellbore:	VH - Job #32K0810596	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810596	Database:	EDM-Regulatory

Project	Hay Hollow		
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		

Well	Myox 19 Fee Com #11H, Directional (DDC)			
Well Position	+N-S	0.0 usft	Northing:	403,732.91 usft
	+E-W	0.0 usft	Easting:	561,778.77 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft
			Ground Level:	0.0 usft

Wellbore	VH - Job #32K0810596				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	8.81	60.22	49,308

Design	VH - Job #32K0810596			
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	93.83

Survey Program	Date	8/22/2010		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	5,819.0	Actual (VH - Job #32K0810596)	Keeper	Keeper Gyro

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0	
100.0	0.47	114.54	100.0	-0.2	0.4	114.54	0.4	
200.0	0.53	118.01	200.0	-0.6	1.2	115.79	1.3	
300.0	0.43	106.70	300.0	-0.9	1.9	114.67	2.1	
400.0	0.73	116.88	400.0	-1.3	2.8	114.17	3.1	
500.0	0.81	97.15	500.0	-1.7	4.1	111.89	4.4	
600.0	0.74	75.55	600.0	-1.6	5.4	106.19	5.7	
700.0	0.93	71.77	700.0	-1.2	6.8	99.68	6.9	
800.0	0.54	59.20	799.9	-0.7	8.0	94.79	8.0	
900.0	0.42	68.51	899.9	-0.3	8.8	91.93	8.8	
1,000.0	0.21	73.76	999.9	-0.1	9.3	90.68	9.3	
1,100.0	0.65	67.09	1,099.9	0.2	10.0	89.07	10.0	
1,200.0	1.53	70.29	1,199.9	0.8	11.8	85.95	11.8	
1,300.0	1.49	60.93	1,299.9	1.9	14.2	82.29	14.3	
1,400.0	1.31	63.28	1,399.9	3.1	16.3	79.37	16.6	
1,500.0	1.96	75.99	1,499.8	4.0	19.0	78.14	19.4	
1,600.0	2.91	78.12	1,599.7	4.9	23.1	77.98	23.7	

Scientific Drilling International, Inc.

SDI Standard Survey Report

Company:	MARBOB ENERGY	Local Co-ordinate Reference:	Well Myox 19 Fee Com #11H
Project:	Hay Hollow	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Myox 19 Fee Com #11H	North Reference:	Grid
Wellbore:	VH - Job #32K0810596	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810596	Database:	EDM-Regulatory

Survey

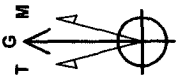
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,700.0	2.83	76.49	1,699.6	6.0	28.0	77.86	28.7
1,800.0	3.05	78.75	1,799.5	7.1	33.0	77.83	33.8
1,900.0	3.47	79.49	1,899.3	8.2	38.6	78.02	39.5
2,000.0	3.44	79.62	1,999.1	9.3	44.5	78.23	45.5
2,100.0	3.14	79.09	2,099.0	10.3	50.2	78.35	51.2
2,200.0	2.58	83.07	2,198.8	11.1	55.1	78.58	56.2
2,300.0	2.33	80.86	2,298.7	11.7	59.3	78.82	60.5
2,400.0	2.29	81.14	2,398.7	12.4	63.3	78.96	64.5
2,500.0	2.17	77.56	2,498.6	13.1	67.1	78.98	68.4
2,600.0	1.96	84.26	2,598.5	13.7	70.7	79.07	72.0
2,700.0	2.06	94.76	2,698.5	13.7	74.2	79.56	75.4
2,800.0	1.89	81.54	2,798.4	13.8	77.6	79.94	78.8
2,900.0	1.43	87.46	2,898.4	14.1	80.5	80.09	81.7
3,000.0	1.15	86.60	2,998.3	14.2	82.7	80.27	83.9
3,100.0	1.10	100.91	3,098.3	14.1	84.7	80.57	85.8
3,200.0	0.95	92.84	3,198.3	13.8	86.5	80.91	87.6
3,300.0	1.03	92.27	3,298.3	13.8	88.2	81.13	89.2
3,400.0	1.15	91.56	3,398.3	13.7	90.1	81.36	91.1
3,500.0	0.95	96.82	3,498.2	13.6	91.9	81.60	92.9
3,600.0	0.85	92.05	3,598.2	13.4	93.5	81.81	94.4
3,700.0	0.91	90.23	3,698.2	13.4	95.0	81.96	95.9
3,800.0	0.88	115.23	3,798.2	13.1	96.5	82.28	97.4
3,900.0	0.84	112.56	3,898.2	12.5	97.9	82.74	98.7
4,000.0	0.93	117.45	3,998.2	11.8	99.3	83.21	100.0
4,100.0	1.13	120.26	4,098.2	10.9	100.8	83.80	101.4
4,200.0	1.05	129.37	4,198.2	9.9	102.4	84.49	102.9
4,300.0	0.92	126.71	4,298.1	8.8	103.7	85.15	104.1
4,400.0	0.99	130.21	4,398.1	7.8	105.1	85.77	105.3
4,500.0	0.85	164.11	4,498.1	6.5	105.9	86.49	106.1
4,600.0	0.86	159.57	4,598.1	5.1	106.4	87.26	106.5
4,700.0	0.89	172.60	4,698.1	3.6	106.7	88.06	106.8
4,800.0	0.72	163.85	4,798.1	2.2	107.0	88.80	107.0
4,900.0	0.54	171.37	4,898.1	1.2	107.3	89.38	107.3
5,000.0	0.63	154.92	4,998.1	0.2	107.6	89.89	107.6
5,100.0	0.51	164.38	5,098.1	-0.7	107.9	90.38	107.9
5,200.0	0.52	146.01	5,198.1	-1.5	108.3	90.81	108.3
5,300.0	0.44	150.95	5,298.1	-2.2	108.7	91.18	108.8
5,400.0	0.45	155.82	5,398.1	-2.9	109.1	91.54	109.1
5,500.0	0.47	164.53	5,498.1	-3.7	109.3	91.93	109.4
5,600.0	0.52	156.45	5,598.0	-4.5	109.6	92.35	109.7
5,700.0	0.67	186.74	5,698.0	-5.5	109.8	92.87	109.9
5,800.0	1.10	196.66	5,798.0	-7.0	109.4	93.66	109.6
5,819.0	0.96	193.68	5,817.0	-7.3	109.3	93.83	109.6



Scientific Drilling
Directional Drilling Operations

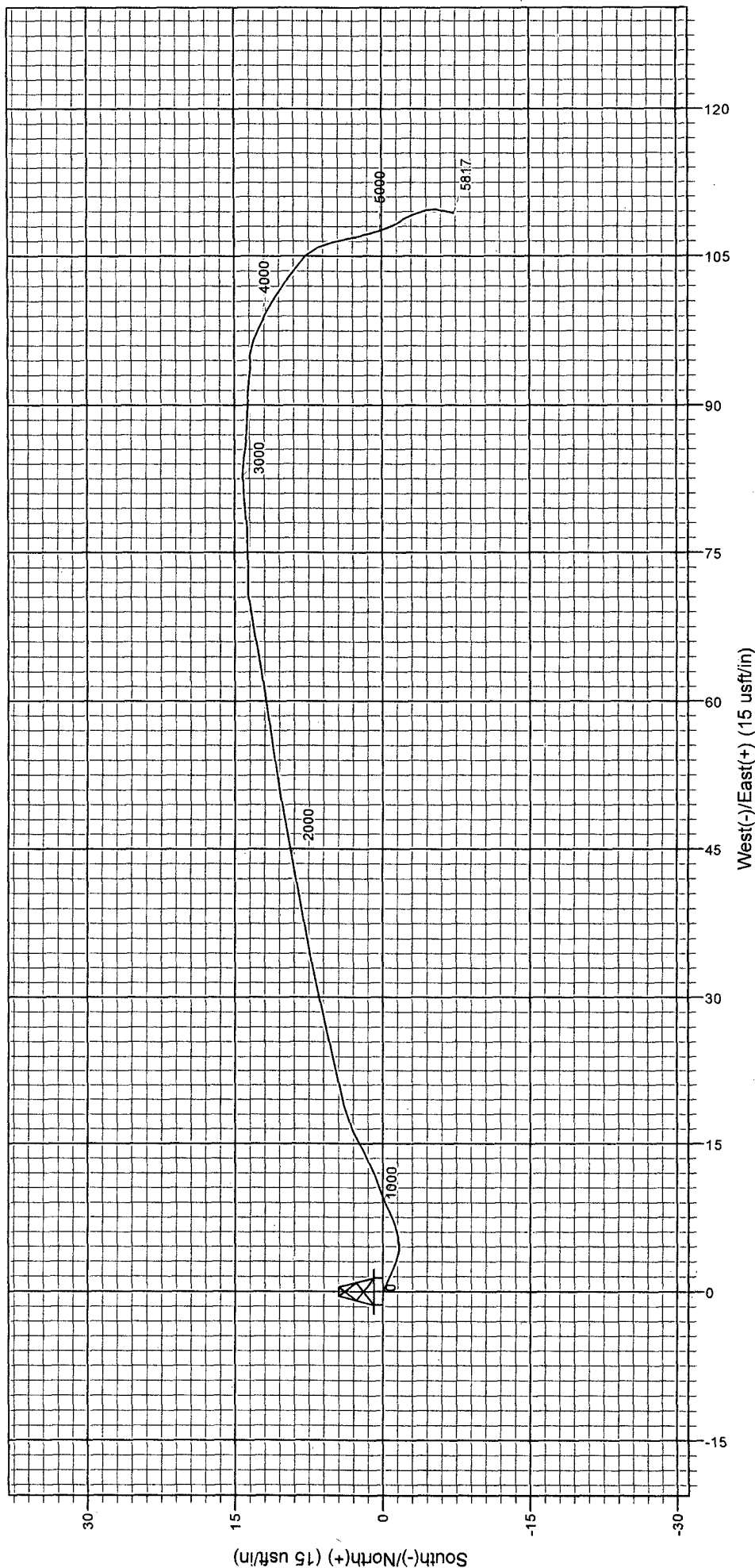
Project: Hay Hollow
Eddy County, NM
Well: Myox 19 Fee Com #11H
Wellbore: VH - Job #32K0810596
Design: VH - Job #32K0810596

Azimuths to Grid North
True North: -0.11°
Magnetic North: 8.71°
Magnetic Field
Strength: 49307.95nT
Dip Angle: 60.22°
Date: 12/31/2004
Model: IGRF2000



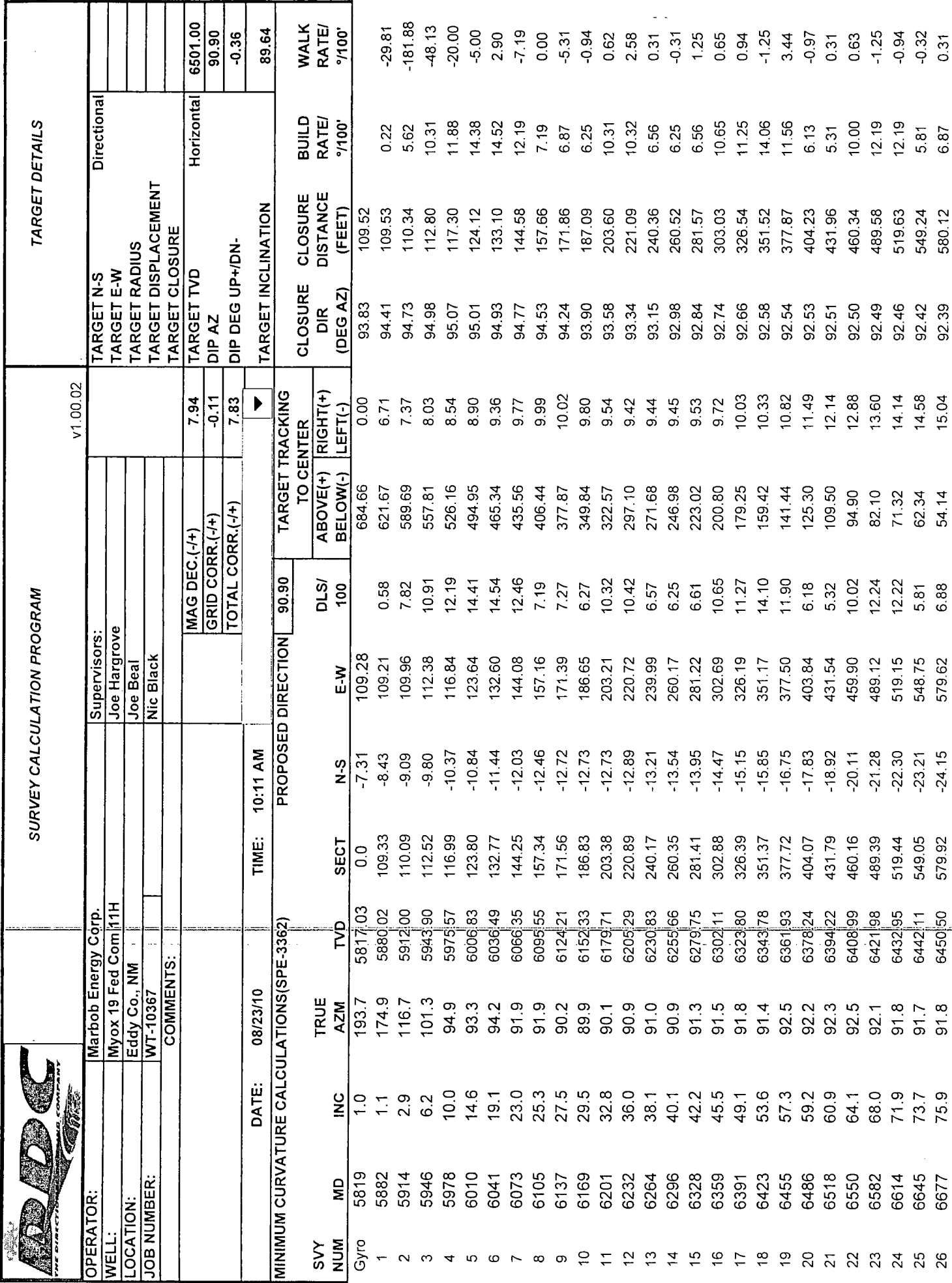
WELL DETAILS: Myox 19 Fee Com #11H
WELL @ 0.0usft (Original Well Elev)

	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Ground Level:	0.0	0.0	403732.91	561778.77	32° 6' 35.355 N	104° 8' 1.700 W	



PROJECT DETAILS: Hay Hollow
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
Site Centre Latitude: 32° 6' 35.355 N
Longitude: 104° 8' 1.700 W
Positional Uncertainty: 0.0
Convergence: 0.11
Local North: Grid



SURVEY CALCULATION PROGRAM										TARGET DETAILS				
v1.00.02										TARGET N-S	Directional			
										TARGET E-W				
										TARGET RADIUS				
										TARGET DISPLACEMENT				
										TARGET CLOSURE				
										TARGET TVD	Horizontal			
										DIP AZ				
										DIP DEG UP+DN-				
										TARGET INCLINATION				
										CLOSURE DIR (DEG AZ)	CLOSURE DISTANCE (FEET)	BUILD RATE/ %'100'	WALK RATE/ %'100'	
										92.35	611.26	5.31	-0.31	
										92.31	642.61	5.31	-1.25	
										92.28	674.14	5.62	1.56	
										92.26	704.85	7.42	0.32	
										92.26	736.70	6.25	1.87	
										92.33	770.61	5.29	8.24	
										92.44	802.54	0.62	-0.31	
										92.48	865.49	3.17	-6.98	
										92.34	929.45	0.00	-1.09	
										92.21	993.40	-0.94	0.31	
										92.05	1087.33	-0.11	0.11	
										91.91	1182.26	-0.32	0.00	
										91.53	1277.78	-1.15	-7.50	
										91.16	1340.17	1.43	1.59	
										91.01	1371.93	0.31	0.94	
										90.78	1435.69	2.34	4.84	
										90.69	1498.63	-1.90	3.17	
										90.64	1594.58	-0.62	0.31	
										90.58	1689.48	-0.74	-0.63	
										90.56	1784.41	1.26	1.79	
										90.57	1880.35	-1.04	-0.42	
										90.60	1975.29	1.58	1.47	
										90.68	2070.23	-0.42	0.63	
										90.76	2165.17	1.47	-0.11	
										90.84	2261.12	-0.83	0.31	
										90.91	2356.07	-0.32	-0.63	
										90.96	2451.03	0.42	0.00	
										15.50	47.00	15.50	15.50	
										15.83	40.79	15.83	15.83	
										16.19	35.54	16.19	16.19	
										16.70	31.56	16.70	16.70	
										17.42	28.63	17.42	17.42	
										19.20	26.65	19.20	19.20	
										21.62	25.35	21.62	21.62	
										23.93	23.98	23.93	23.93	
										23.43	23.71	23.43	23.43	
										22.64	23.11	22.64	22.64	
										21.74	21.65	21.74	21.74	
										20.91	19.84	20.91	20.91	
										14.06	16.84	14.06	14.06	
										6.17	14.76	6.17	6.17	
										2.52	13.98	2.52	2.52	
										-2.89	13.32	-2.89	-2.89	
										-5.41	12.83	-5.41	-5.41	
										-7.34	10.59	-7.34	-7.34	
										-9.49	7.29	-9.49	-9.49	
										-10.74	4.40	-10.74	-10.74	
										-10.90	1.66	-10.90	-10.90	
										-10.24	-0.65	-10.24	-10.24	
										-7.92	-2.04	-7.92	-7.92	
										-5.18	-2.60	-5.18	-5.18	
										-2.25	-2.67	-2.25	-2.25	
										0.40	-3.65	0.40	0.40	
										2.56	-4.55	2.56	2.56	

TARGET DETAILS

OPERATOR:		Marbob Energy Corp.		Supervisors:				TARGET N-S		Directional			
WELL:		Myox 19 Fed Com 11H		Joe Hargrove				TARGET E-W					
LOCATION:		Eddy Co., NM		Joe Beal				TARGET RADIUS					
JOB NUMBER:		WT-10367		Nic Black				TARGET DISPLACEMENT					
COMMENTS:													
DATE:		08/23/10		TIME:		10:11 AM		TARGET TRACKING					
MINIMUM CURVATURE CALCULATIONS(SPE-3362)													
SVY NUM	MD	INC	TRUE AZM	TVD	SECT	N-S	E-W	90.90		CLOSURE DIR (DEG AZ)	CLOSURE DISTANCE (FEET)	BUILD RATE/ %/100'	WALK RATE/ %/100'
								ABOVE(+) BELOW(-)	RIGHT(+) LEFT(-)				
54	8649	89.3	92.4	6522.12	2547.00	-44.91	2546.61	0.21	-5.12	91.01	2547.00	0.00	0.21
55	8744	90.2	92.6	6522.53	2641.96	-49.05	2641.51	0.97	-4.93	91.06	2641.97	0.95	0.21
56	8839	90.6	91.3	6521.87	2736.94	-52.28	2736.45	1.43	-3.67	91.09	2736.95	0.42	-1.37
57	8935	89.5	91.0	6521.79	2832.93	-54.21	2832.43	1.19	-2.99	91.10	2832.95	-1.15	-0.31
58	9030	89.9	90.3	6522.28	2927.93	-55.29	2927.42	0.85	-2.89	91.08	2927.95	0.42	-0.74
59	9125	89.8	91.8	6522.53	3022.93	-57.03	3022.41	1.58	-2.54	91.08	3022.94	-0.11	1.58
60	9221	89.3	91.8	6523.29	3118.91	-60.04	3118.35	0.52	-2.69	91.10	3118.93	-0.52	0.00
61	9316	88.2	90.8	6525.36	3213.89	-62.20	3213.31	1.56	-4.17	91.11	3213.91	-1.16	-1.05
62	9411	90.0	90.9	6526.85	3308.87	-63.61	3308.28	1.90	-5.06	91.10	3308.89	1.89	0.11
63	9507	89.6	90.1	6527.19	3404.87	-64.45	3404.27	0.93	-4.79	91.08	3404.88	-0.42	-0.83
64	9602	88.8	89.9	6528.51	3499.84	-64.45	3499.26	0.87	-5.52	91.06	3499.86	-0.84	-0.21
65	9697	89.9	90.4	6529.59	3594.83	-64.69	3594.26	1.27	-6.00	91.03	3594.84	1.16	0.53
66	9793	90.0	90.5	6529.67	3690.83	-65.45	3690.25	0.15	-5.48	91.02	3690.83	0.10	0.10
67	9888	90.5	91.1	6529.26	3785.82	-66.77	3785.24	0.82	-4.47	91.01	3785.83	0.53	0.63
68	9984	89.9	91.0	6528.92	3881.82	-68.53	3881.22	0.63	-3.53	91.01	3881.83	-0.62	-0.10
69	10079	89.3	91.1	6529.59	3976.82	-70.27	3976.21	0.64	-3.60	91.01	3976.83	-0.63	0.11
70	10174	88.3	90.7	6531.58	4071.80	-71.77	4071.17	1.13	-4.99	91.01	4071.80	-1.05	-0.42
71	10268	87.6	90.6	6534.94	4165.74	-72.83	4165.11	0.75	-7.77	91.00	4165.74	-0.74	-0.11
72	10363	86.6	91.1	6539.75	4260.61	-74.24	4259.97	1.18	-11.98	91.00	4260.62	-1.05	0.53
73	10459	86.2	90.0	6545.77	4356.42	-75.16	4355.78	1.22	-17.40	90.99	4356.42	-0.42	-1.15
74	10522	87.9	90.8	6549.02	4419.33	-75.60	4418.69	2.98	-20.25	90.98	4419.33	2.70	1.27
75	10617	89.0	90.8	6551.59	4514.29	-76.92	4513.64	1.16	-22.22	90.98	4514.30	1.16	0.00
76	10713	87.9	90.4	6554.18	4610.26	-77.93	4609.60	1.22	-24.22	90.97	4610.26	-1.15	-0.42
77	10791	87.1	90.2	6557.59	4688.18	-78.34	4687.52	1.06	-27.13	90.96	4688.18	-1.03	-0.26
PBHL	10839	87.1	90.2	6560.01	4736.11	-78.50	4735.46	0.00	-29.26	90.95	4736.11	0.00	0.00

795.099 - J06
795.085 : 703
795.085 : 703