

OCT 11 2010

MARBOB ENERGY

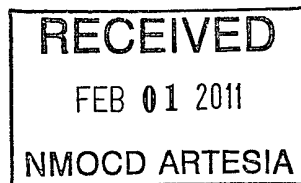
30-015-37497

WC Bonespring
Eddy County, NM
Myox 31 State #13H
VH - Job #32K0810642

Survey: Actual

SDI Standard Survey Report

06 September, 2010



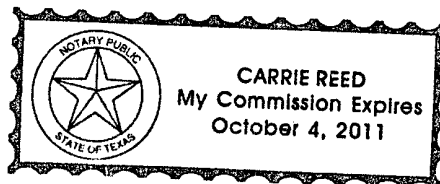
This survey is correct to the best of my knowledge and is supported by actual field data.

Sheperton

Notorized this date 5th of October, 2010.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	MARBOB ENERGY	Local Co-ordinate Reference:	Well Myox 31 State #13H
Project:	WC Bonespring	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Myox 31 State #13H	North Reference:	Grid
Wellbore:	VH - Job #32K0810642	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810642	Database:	EDM-Regulatory

Project	WC Bonespring		
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 31 State #13H, Directional (DDC)				
Well Position	+N/-S	0.0 usft	Northing:	0.00 usft	Latitude: 30° 59' 24.512 N
	+E/-W	0.0 usft	Easting:	0.00 usft	Longitude: 105° 55' 44.137 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level: 0.0 usft

Wellbore	VH - Job #32K0810642				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	9.47	58.78	48,375

Design	VH - Job #32K0810642			
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	93.18

Survey Program	Date	9/6/2010		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	5,959.0	Actual (VH - Job #32K0810642)	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	0.0	0.00	0.0	0.0
100.0	0.41	91.81	100.0	0.0	0.4	91.81	0.4		0.4
200.0	0.39	53.15	200.0	0.2	1.0	79.59	1.0		1.0
300.0	0.46	49.44	300.0	0.6	1.6	67.55	1.7		1.7
400.0	0.65	11.19	400.0	1.5	2.0	53.52	2.5		2.5
500.0	0.73	14.98	500.0	2.6	2.3	40.54	3.5		3.5
600.0	1.30	19.69	600.0	4.3	2.8	32.97	5.1		5.1
700.0	1.27	23.67	699.9	6.4	3.6	29.54	7.4		7.4
800.0	1.31	30.30	799.9	8.4	4.7	28.96	9.6		9.6
900.0	0.93	36.29	899.9	10.0	5.7	29.60	11.6		11.6
1,000.0	0.56	35.66	999.9	11.1	6.5	30.25	12.8		12.8
1,100.0	0.51	19.12	1,099.9	11.9	6.9	30.09	13.8		13.8
1,200.0	0.47	18.79	1,199.9	12.7	7.2	29.44	14.6		14.6
1,300.0	0.33	10.38	1,299.9	13.4	7.4	28.80	15.3		15.3
1,400.0	0.42	311.47	1,399.9	13.9	7.1	27.16	15.6		15.6
1,500.0	0.59	293.82	1,499.9	14.4	6.4	23.99	15.7		15.7
1,600.0	0.18	27.36	1,599.9	14.7	6.0	22.17	15.9		15.9

Scientific Drilling International, Inc.
SDI Standard Survey Report

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Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Myox 31 State #13H	North Reference:	Grid
Wellbore:	VH - Job #32K0810642	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810642	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	1.18	88.83	1,699.9	14.9	7.1	25.51	16.5
1,800.0	1.41	98.25	1,799.8	14.7	9.3	32.41	17.4
1,900.0	2.03	98.68	1,899.8	14.3	12.3	40.78	18.9
2,000.0	2.83	98.57	1,999.7	13.6	16.5	50.42	21.4
2,100.0	3.09	100.89	2,099.6	12.8	21.6	59.41	25.1
2,200.0	2.57	106.12	2,199.4	11.6	26.4	66.21	28.8
2,300.0	1.66	103.00	2,299.4	10.7	30.0	70.37	31.8
2,400.0	1.20	103.14	2,399.3	10.1	32.4	72.64	33.9
2,500.0	1.08	102.98	2,499.3	9.7	34.3	74.26	35.7
2,600.0	0.95	100.30	2,599.3	9.3	36.1	75.52	37.2
2,700.0	0.89	95.77	2,699.3	9.1	37.7	76.43	38.7
2,800.0	0.87	92.45	2,799.3	9.0	39.2	77.10	40.2
2,900.0	0.81	86.05	2,899.3	9.0	40.6	77.52	41.6
3,000.0	0.73	90.40	2,999.3	9.0	42.0	77.85	43.0
3,100.0	0.65	91.69	3,099.3	9.0	43.2	78.21	44.1
3,200.0	0.27	49.05	3,199.3	9.2	43.9	78.23	44.9
3,300.0	0.26	33.79	3,299.3	9.5	44.2	77.88	45.2
3,400.0	0.22	30.77	3,399.3	9.9	44.5	77.51	45.5
3,500.0	0.19	2.06	3,499.3	10.2	44.6	77.13	45.7
3,600.0	0.24	15.87	3,599.3	10.5	44.6	76.70	45.9
3,700.0	0.19	25.66	3,699.3	10.9	44.8	76.32	46.1
3,800.0	0.16	22.37	3,799.2	11.2	44.9	76.02	46.3
3,900.0	0.15	320.09	3,899.2	11.4	44.9	75.73	46.3
4,000.0	0.08	281.51	3,999.2	11.5	44.7	75.55	46.2
4,100.0	0.23	261.36	4,099.2	11.5	44.4	75.48	45.9
4,200.0	0.33	265.75	4,199.2	11.5	44.0	75.39	45.4
4,300.0	0.51	242.26	4,299.2	11.2	43.3	75.46	44.7
4,400.0	0.45	236.78	4,399.2	10.8	42.5	75.75	43.9
4,500.0	0.34	212.03	4,499.2	10.3	42.1	76.19	43.3
4,600.0	0.38	207.04	4,599.2	9.8	41.8	76.80	42.9
4,700.0	0.45	214.26	4,699.2	9.2	41.4	77.51	42.4
4,800.0	0.43	229.33	4,799.2	8.6	40.9	78.12	41.8
4,900.0	0.46	220.96	4,899.2	8.1	40.3	78.71	41.1
5,000.0	0.43	215.96	4,999.2	7.4	39.8	79.42	40.5
5,100.0	0.43	224.54	5,099.2	6.9	39.4	80.09	40.0
5,200.0	0.55	219.13	5,199.2	6.2	38.8	80.87	39.3
5,300.0	0.65	224.83	5,299.2	5.5	38.1	81.84	38.5
5,400.0	0.57	211.74	5,399.2	4.6	37.4	82.94	37.7
5,500.0	0.71	208.21	5,499.2	3.7	36.9	84.32	37.1
5,600.0	0.70	194.81	5,599.2	2.5	36.4	86.03	36.5
5,700.0	0.71	181.59	5,699.2	1.3	36.3	87.92	36.3
5,800.0	0.93	195.94	5,799.2	-0.1	36.0	90.13	36.0
5,900.0	0.55	208.58	5,899.2	-1.3	35.6	92.06	35.6
5,959.0	0.89	199.85	5,958.2	-2.0	35.3	93.18	35.3



Scientific Drilling
Directional Drilling Operations

Project: WC Bonespring
Eddy County, NM
Well: Myox 31 State #13H
Wellbore: VH - Job #32K0810642
Design: VH - Job #32K0810642



Azimuths to Grid North
True North: 0.82°
Magnetic North: 10.29°

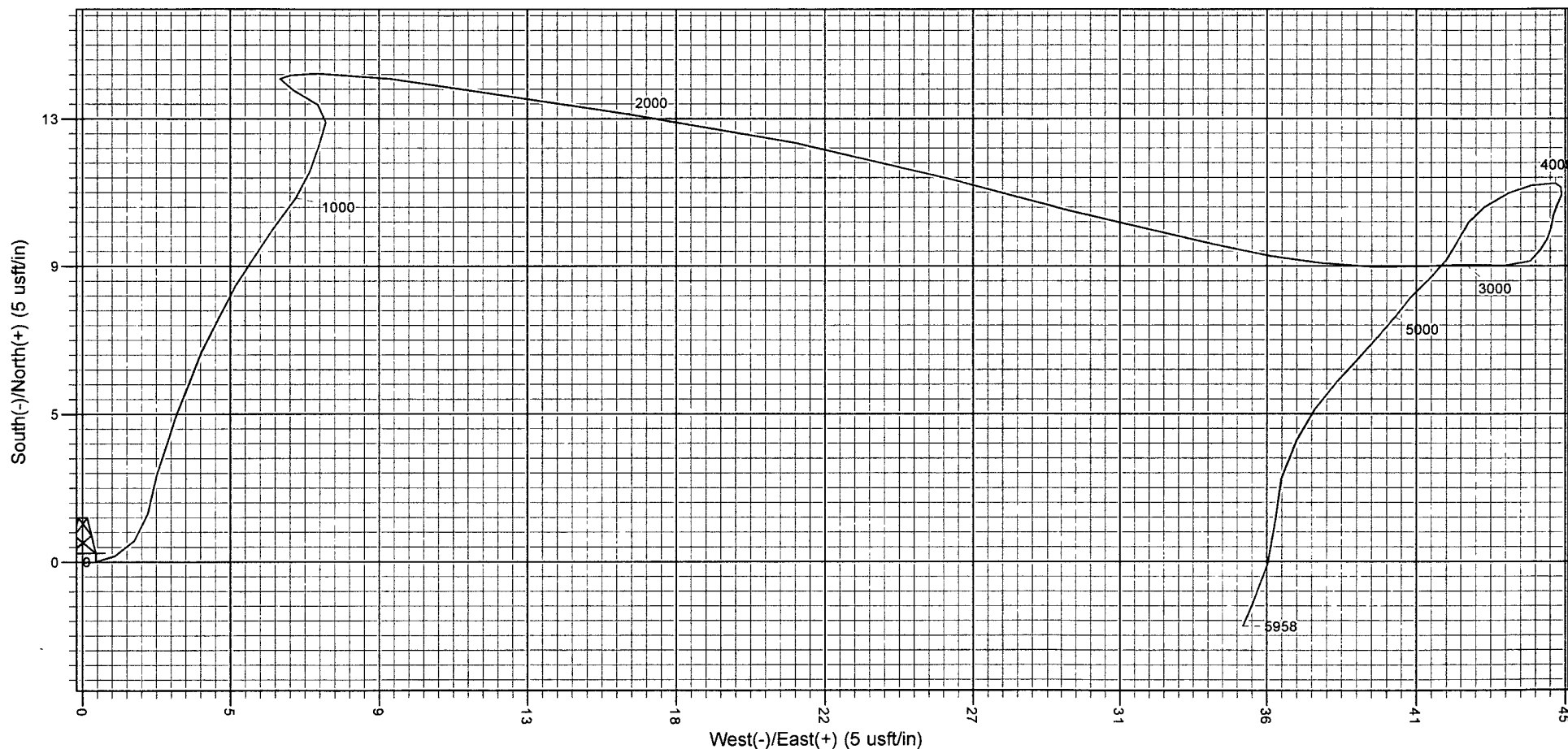
Magnetic Field
Strength: 48375.4nT
Dip Angle: 58.78°
Date: 12/31/2004
Model: IGRF2000

WELL DETAILS: Myox 31 State #13H

WELL @ 0.0usft (Original Well Elev)

Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	0.00	0.00	30° 59' 24.512 N	105° 55' 44.137 W	



PROJECT DETAILS: WC Bonespring
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° 4' 50.201 N
Longitude: 104° 7' 6.848 W
Positional Uncertainty: 0.0
Convergence: 0.11
Local North: Grid