

OCT 11 2010

MARBOB ENERGY

Seven Rivers
Eddy County, NM
VT 36 State #1
VH - Job #32K0910676

30-015-37690

Survey: Actual

SDI Standard Survey Report

14 September, 2010

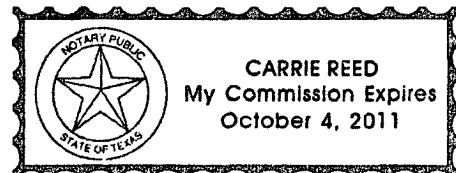
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

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 VT 36 State #1
Project:	Seven Rivers	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	VT 36 State #1	North Reference:	Grid
Wellbore:	VH - Job #32K0910676	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0910676	Database:	EDM-Regulatory

Project	Seven Rivers		
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	VT 36 State #1, Directional (Pathfinder)				
Well Position	+N/-S	0.0 usft	Northing:	590,316.48 usft	Latitude: 32° 37' 22.251 N
	+E/-W	0.0 usft	Easting:	470,667.07 usft	Longitude: 104° 25' 42.985 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level: 0.0 usft

Wellbore	VH - Job #32K0910676				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	9/14/2010	8.17	60.43	48,890

Design	VH - Job #32K0910676				
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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	180.18	

Survey Program	Date	9/14/2010			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	2,222.0	Actual (VH - Job #32K0910676)	Keeper	Keeper Gyro	

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	0.41	43.97	100.0	0.3	0.2	43.97	0.4
200.0	0.75	359.62	200.0	1.2	0.5	22.84	1.3
300.0	1.18	321.56	300.0	2.6	-0.2	356.69	2.6
400.0	2.09	311.83	399.9	4.7	-2.2	335.19	5.1
500.0	2.55	313.31	499.9	7.4	-5.1	325.26	9.0
600.0	2.76	315.72	599.7	10.6	-8.4	321.63	13.6
700.0	2.96	318.75	699.6	14.3	-11.8	320.46	18.6
800.0	3.05	319.51	799.5	18.3	-15.2	320.17	23.8
900.0	3.39	323.18	899.3	22.7	-18.7	320.41	29.4
1,000.0	3.10	326.66	999.2	27.3	-22.0	321.13	35.1
1,100.0	3.07	327.57	1,099.0	31.8	-24.9	321.92	40.4
1,200.0	2.71	326.97	1,198.9	36.1	-27.6	322.52	45.4
1,300.0	2.38	324.94	1,298.8	39.7	-30.1	322.83	49.9
1,400.0	2.13	323.94	1,398.7	42.9	-32.4	322.95	53.8
1,500.0	1.97	325.85	1,498.7	45.9	-34.5	323.07	57.4
1,600.0	1.81	330.46	1,598.6	48.7	-36.2	323.34	60.7



Scientific Drilling
Directional Drilling Operations

Project: Seven Rivers
Eddy County, NM
Well: VT 36 State #1
Wellbore: VH - Job #32K0910676
Design: VH - Job #32K0910676

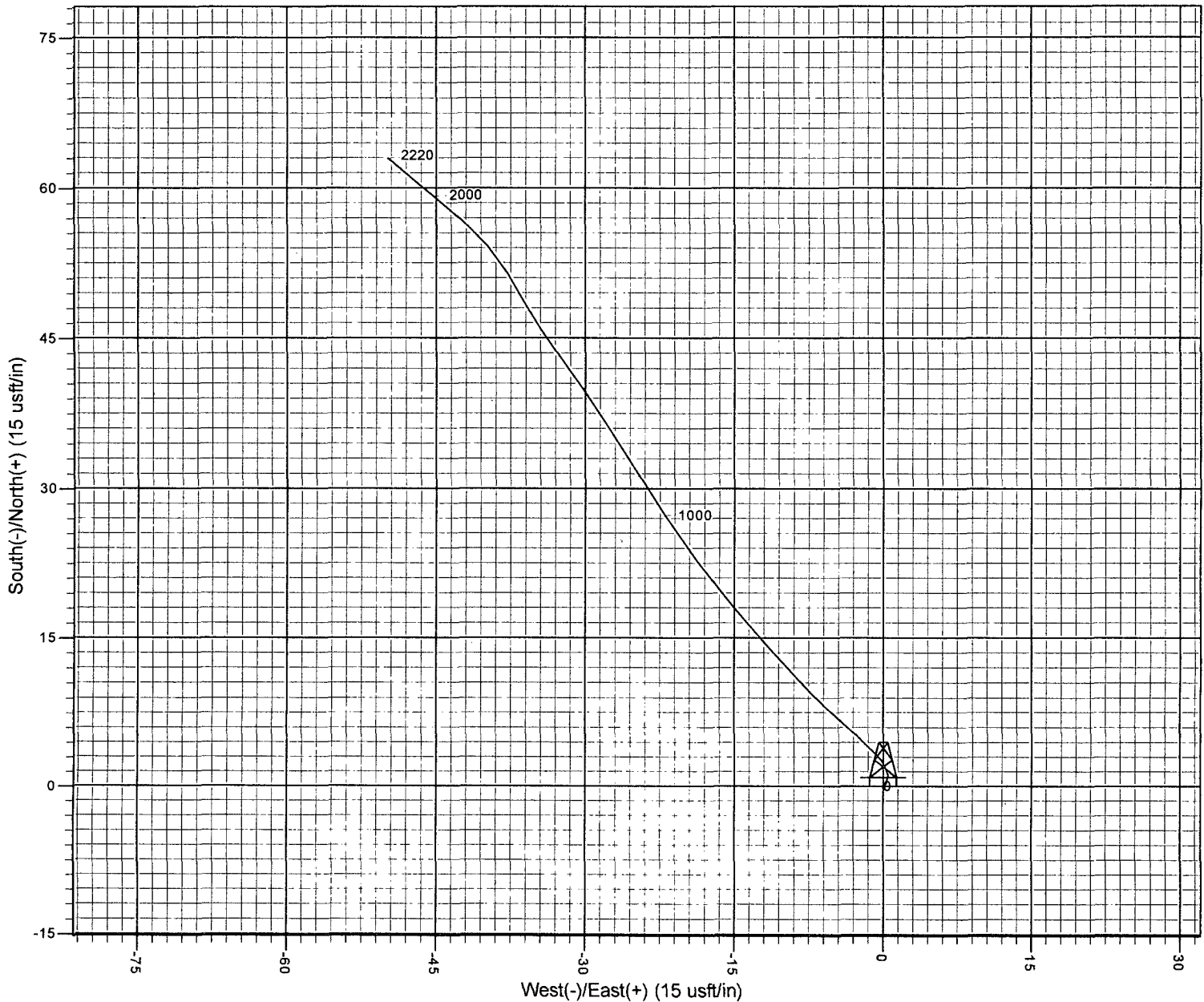


Azimuths to Grid North
True North: 0.05°
Magnetic North: 8.22°

Magnetic Field
Strength: 48890.2nT
Dip Angle: 60.43°
Date: 9/14/2010
Model: BGGM2010

WELL DETAILS: VT 36 State #1
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	590316.48	470667.07	32° 37' 22.251 N	104° 25' 42.985 W	



PROJECT DETAILS: Seven Rivers
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° 37' 4.137 N
Longitude: 104° 26' 35.314 W
Positional Uncertainty: 0.0
Convergence: -0.06
Local North: Grid