

30-015-37927

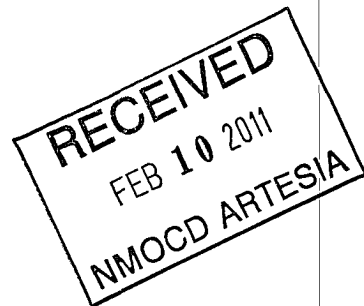
MARBOB ENERGY

Seven Rivers
Eddy County, NM
Hearse State #1H
32K0710516
VH - job #32K0710516

Survey: Actual

Standard Survey Report

18 August, 2010



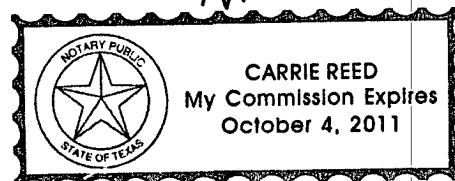
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notorized this date 20th of August, 2010.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.

Survey Report

Company:	MARBOB ENERGY	Local Co-ordinate Reference:	Well Hearse State #1H
Project:	Seven Rivers	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Hearse State #1H	North Reference:	Grid
Wellbore:	VH - job #32K0710516	Survey Calculation Method:	Minimum Curvature
Design:	VH - job #32K0710516	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		

Site		Eddy County, NM			
Site Position:		Northing:	588,490.30 usft	Latitude:	32° 37' 4.137 N
From:	Map	Easting:	466,189.90 usft	Longitude:	104° 26' 35.314 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.06 °

Well	Hearse State #1H					
Well Position	+N/-S	0.0 usft	Northing:	588,490.30 usft	Latitude:	32° 37' 4.137 N
	+E/-W	0.0 usft	Easting:	466,189.90 usft	Longitude:	104° 26' 35.314 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	VH - job #32K0710516				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	8/18/2010	8.10	60.44	48,897

Design		VH - job #32K0710516			
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	154.79	

Survey Program		Date	8/18/2010		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	1,958.0	Actual (VH - job #32K0710516)	Keeper	Keeper Gyro	

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.38	95.76	100.0	0.0	0.3	0.2	0.38	0.38	0.00
200.0	0.51	159.87	200.0	-0.5	0.8	0.8	0.49	0.13	64.11
300.0	1.34	161.65	300.0	-2.0	1.3	2.4	0.83	0.83	1.78
400.0	1.73	152.73	399.9	-4.5	2.4	-5.1	0.46	0.39	-8.92
500.0	2.51	148.09	499.9	-7.7	4.2	8.7	0.80	0.78	-4.64
600.0	2.65	149.89	599.8	-11.5	6.6	13.2	0.16	0.14	1.80
700.0	2.53	155.54	699.7	-15.5	8.6	17.7	0.28	-0.12	5.65
800.0	2.43	156.36	799.6	-19.5	10.4	22.1	0.11	-0.10	0.82
900.0	2.16	155.78	899.5	-23.1	12.0	26.1	0.27	-0.27	-0.58

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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)	
1,000.0	1.86	157.39	999.4	-26.4	13.4	29.6	0.31	-0.30	1.61	
1,100.0	1.95	155.98	1,099.4	-29.4	14.7	32.9	0.10	0.09	-1.41	
1,200.0	2.03	157.34	1,199.3	-32.6	16.1	36.4	0.09	0.08	1.36	
1,300.0	1.94	154.20	1,299.3	-35.8	17.5	39.8	0.14	-0.09	-3.14	
1,400.0	1.83	155.17	1,399.2	-38.7	18.9	43.1	0.11	-0.11	0.97	
1,500.0	1.87	156.89	1,499.2	-41.7	20.2	46.3	0.07	0.04	1.72	
1,600.0	1.61	156.84	1,599.1	-44.5	21.4	49.4	0.26	-0.26	-0.05	
1,700.0	1.41	156.44	1,699.1	-46.9	22.5	52.0	0.20	-0.20	-0.40	
1,800.0	1.32	158.29	1,799.0	-49.1	23.4	54.4	0.10	-0.09	1.85	
1,900.0	1.21	162.23	1,899.0	-51.2	24.1	56.6	0.14	-0.11	3.94	
1,958.0	1.10	151.91	1,957.0	-52.2	24.6	57.7	0.40	-0.19	-17.79	