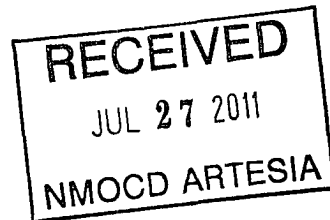


MARBOB ENERGY

Rocket
Eddy County, NM
Rocket Federal #5H
VH - Job #32K0810604



Survey: Actual

30-015-37778

SDI Standard Survey Report

03 September, 2010

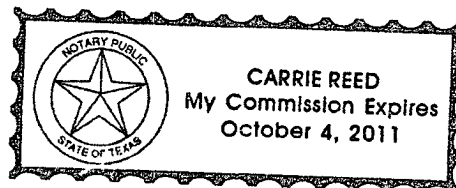
This survey is correct to the best of my knowledge and is supported by actual field data.

Richardson

Notorized this date 21 of September, 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 Rocket Federal #5H
Project:	Rocket	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Rocket Federal #5H	North Reference:	Grid
Wellbore:	VH - Job #32K0810604	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810604	Database:	EDM-Regulatory

Project:	Rocket		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		

Well:	Rocket Federal #5H, Directional (Pathfinder)						
Well Position	+N-S	0 0 usft	Northing:	394,705 33 usft	Latitude:	32° 3' 52.672 N	
	+E-W	0 0 usft	Easting:	1,206,738 76 usft	Longitude:	103° 58' 7.684 W	
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0 0 usft	

Wellbore:	VH - Job #32K0810604					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength	
			(°)	(°)	(nT)	
	IGRF200510	9/3/2010	7.84	60.01	48,613	

Design:	VH - Job #32K0810604				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0 0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0 0	0 0	0.0	357.30	

Survey Program	Date	9/3/2010			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
100.0	6,830.0	Actual (VH - Job #32K0810604)	Keeper	Keeper Gyro	

Survey								
Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance	
(usft)	(°)	(°)	Depth	(usft)	(usft)	(°)	(usft)	
0 0	0 00	0 00	0 0	0.0	0 0	0 00	0.0	
100 0	0 30	190.02	100.0	-0.3	0 0	190.02	0.3	
200 0	0 25	169.32	200 0	-0.7	-0.1	183.97	0.7	
300.0	0 67	340.83	300.0	-0.4	-0.2	207.28	0.4	
400.0	0 65	1 61	400 0	0.7	-0.4	332.51	0.8	
500.0	0 58	354.51	500.0	1.8	-0.4	347.13	1.8	
600.0	0 59	10.40	600 0	2.8	-0.4	352.57	2.8	
700 0	0 68	21.42	700 0	3.9	-0.1	359.16	3.9	
800 0	0.90	21.90	800.0	5.1	0.5	5.03	5.2	
900.0	0.99	20.89	899.9	6.7	1.1	8.96	6.8	
1,000 0	1.42	15.86	999.9	8.7	1.7	11.08	8.8	
1,100 0	1.80	11.07	1,099.9	11.4	2.3	11.59	11.7	
1,200.0	1.16	13.60	1,199.9	13.9	2.9	11.67	14.2	
1,300 0	1.32	349.48	1,299.8	16.1	2.9	10.27	16.3	
1,400.0	1.23	347.11	1,399.8	18.2	2.5	7.68	18.4	
1,500 0	1.73	332.30	1,499.8	20.6	1.5	4.21	20.7	
1,600 0	1.40	314.17	1,599.7	22.8	-0.1	359.85	22.8	

Scientific Drilling International, Inc.

SDI Standard Survey Report

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Project:	Rocket	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Rocket Federal #5H	North Reference:	Grid
Wellbore:	VH - Job #32K0810604	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810604	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	1.33	277.79	1,699.7	23.8	-2.1	354.99	23.9	
1,800.0	1.66	271.76	1,799.7	24.0	-4.7	348.96	24.5	
1,900.0	1.67	260.86	1,899.6	23.8	-7.6	342.38	25.0	
2,000.0	1.12	259.77	1,999.6	23.4	-10.0	336.94	25.5	
2,100.0	1.10	263.92	2,099.6	23.1	-11.9	332.82	26.0	
2,200.0	1.82	278.83	2,199.6	23.3	-14.4	328.25	27.4	
2,300.0	0.80	252.70	2,299.5	23.3	-16.6	324.49	28.7	
2,400.0	1.84	125.80	2,399.5	22.2	-16.0	324.18	27.4	
2,500.0	3.48	113.75	2,499.4	20.0	-11.9	329.21	23.3	
2,600.0	3.73	111.35	2,599.2	17.6	-6.1	340.83	18.6	
2,700.0	3.43	103.53	2,699.0	15.7	-0.2	359.33	15.7	
2,800.0	2.56	96.68	2,798.9	14.8	4.9	18.50	15.6	
2,900.0	1.67	91.17	2,898.8	14.5	8.6	30.76	16.8	
3,000.0	1.23	97.27	2,998.8	14.3	11.1	37.89	18.1	
3,100.0	1.12	100.70	3,098.7	14.0	13.2	43.24	19.2	
3,200.0	1.02	97.21	3,198.7	13.7	15.0	47.60	20.3	
3,300.0	0.60	88.63	3,298.7	13.6	16.4	50.34	21.3	
3,400.0	0.75	61.53	3,398.7	13.9	17.5	51.50	22.4	
3,500.0	0.67	54.59	3,498.7	14.6	18.6	51.85	23.6	
3,600.0	0.68	35.91	3,598.7	15.4	19.4	51.54	24.8	
3,700.0	0.75	25.54	3,698.7	16.5	20.0	50.55	25.9	
3,800.0	0.65	22.38	3,798.7	17.6	20.5	49.40	27.0	
3,900.0	0.58	359.08	3,898.7	18.6	20.7	48.07	27.9	
4,000.0	0.77	339.64	3,998.7	19.8	20.5	46.04	28.5	
4,100.0	0.95	329.74	4,098.7	21.1	19.8	43.23	29.0	
4,200.0	1.17	333.28	4,198.6	22.7	19.0	39.83	29.6	
4,300.0	1.59	326.69	4,298.6	24.8	17.7	35.57	30.5	
4,400.0	1.54	329.19	4,398.6	27.1	16.3	30.99	31.6	
4,500.0	1.18	338.54	4,498.5	29.2	15.2	27.51	32.9	
4,600.0	1.21	337.55	4,598.5	31.2	14.4	24.86	34.3	
4,700.0	0.99	319.56	4,698.5	32.8	13.5	22.34	35.5	
4,800.0	1.15	313.23	4,798.5	34.1	12.2	19.64	36.2	
4,900.0	1.04	317.58	4,898.5	35.5	10.8	16.98	37.1	
5,000.0	0.93	305.54	4,998.5	36.6	9.6	14.64	37.9	
5,100.0	0.85	296.13	5,098.4	37.4	8.2	12.42	38.3	
5,200.0	0.56	279.91	5,198.4	37.8	7.1	10.62	38.5	
5,300.0	0.58	249.74	5,298.4	37.8	6.1	9.23	38.2	
5,400.0	0.64	232.75	5,398.4	37.2	5.2	7.98	37.6	
5,500.0	0.64	238.25	5,498.4	36.6	4.3	6.70	36.9	
5,600.0	0.67	238.32	5,598.4	36.0	3.3	5.28	36.2	
5,700.0	0.74	234.31	5,698.4	35.3	2.3	3.73	35.4	
5,800.0	0.92	231.54	5,798.4	34.4	1.2	1.91	34.5	
5,900.0	1.00	207.43	5,898.4	33.2	0.1	0.21	33.2	
6,000.0	1.00	211.64	5,998.4	31.7	-0.7	358.66	31.7	

Scientific Drilling International, Inc.
SDI Standard Survey Report

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Project:	Rocket	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Rocket Federal #5H	North Reference:	Grid
Wellbore:	VH - Job #32K0810604	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0810604	Database:	EDM-Regulatory

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
6,100.0	1 01	202.69	6,098.4	30.1	-1.5	357.08	30.1	
6,200.0	1 10	198.59	6,198.3	28.4	-2.2	355.60	28.5	
6,300.0	1.36	197.49	6,298.3	26.3	-2.8	353.83	26.5	
6,400.0	1.43	190.76	6,398.3	24.0	-3.4	351.85	24.2	
6,500.0	1 58	185.75	6,498.2	21.4	-3.8	349.90	21.7	
6,600.0	1 82	188.88	6,598.2	18.4	-4.2	347.20	18.9	
6,700.0	1 89	185.24	6,698.2	15.2	-4.6	343.24	15.9	
6,800.0	1 97	184.72	6,798.1	11.9	-4.9	337.66	12.8	
6,830.0	1 80	180.65	6,828.1	10.9	-4.9	335.66	11.9	



Scientific Drilling
Directional Drilling Operations

Project: Rocket
Eddy County, NM
Well: Rocket Federal #5H
Wellbore: VH - Job #32K0810604
Design: VH - Job #32K0810604

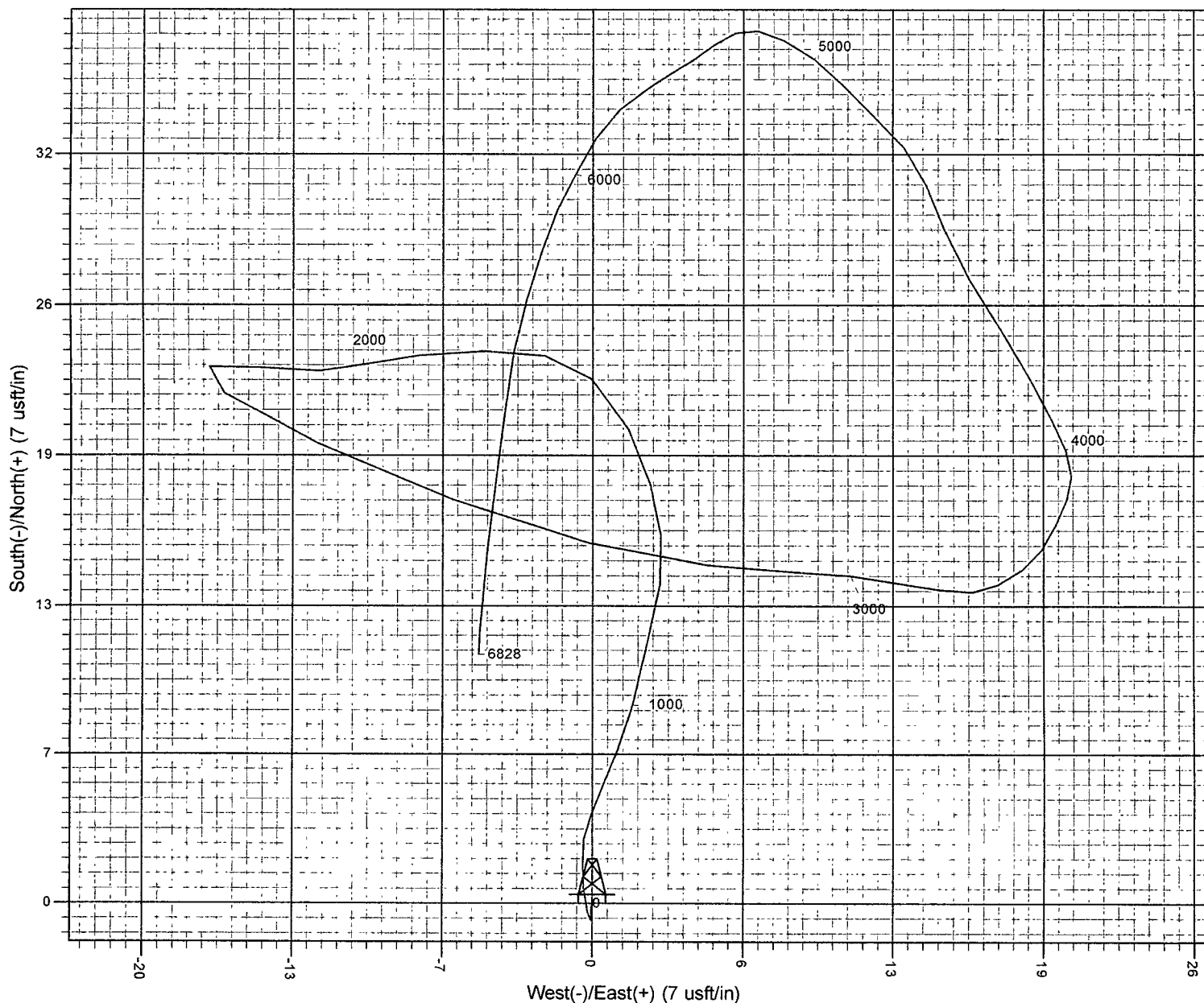


Azimuths to Grid North
True North -1 21°
Magnetic North. 6.63°

Magnetic Field
Strength: 48613 2snT
Dip Angle 60.01°
Date 9/3/2010
Model IGRF200510

WELL DETAILS: Rocket Federal #5H
WELL @ 0 0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	394705.33	1206738.76	32° 3' 52.672 N	103° 58' 7.684 W	



PROJECT DETAILS: Rocket
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico Central 3002
System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
Site Centre Latitude: 32° 3' 52.672 N
Longitude: 103° 58' 7.684 W
Positional Uncertainty: 0.0
Convergence: 1.21
Local North: Grid