

MARBOB ENERGY CORP.
Directional Survey Report
Version 2.4

Company: MARBOB ENERGY CORP.
Well: CF#11 ST
Location: CHAVEZ, CO. N.M.
Field: STATE
Operator: NEWTON-JOHNSON
Job No.: 7PCT167

Survey File ->
29 Nov 1997
Probe 2425
Depth Units: Feet
Dec: 9.5

VS Azimuth = 0.0
VS Origin North = 0.0
VS Origin East = 0.0
Method: Minimum Curvature

Station	MD	Inc	Az	North	East	TVD	VS	DL	DS
0	6396.0	1.3	35.8	50.1	120.0	6393.9	50.1	0.0	TI
1	6424.0	4.7	0.7	51.5	120.2	6421.9	51.5	13.3	ST
2	6429.0	7.1	3.6	52.0	120.2	6426.8	52.0	48.8	ST
3	6434.0	9.5	13.7	52.7	120.3	6431.8	52.7	55.9	ST
4	6439.0	12.3	22.5	53.6	120.6	6436.7	53.6	64.2	ST
5	6444.0	14.9	21.3	54.7	121.1	6441.5	54.7	52.2	ST
6	6449.0	17.4	18.1	56.0	121.5	6446.4	56.0	53.7	ST
7	6454.0	20.9	13.9	57.6	122.0	6451.1	57.6	74.5	ST
8	6459.0	23.8	11.5	59.4	122.4	6455.7	59.4	60.9	ST
9	6464.0	27.0	9.3	61.6	122.8	6460.2	61.6	67.2	ST
10	6482.0	37.8	5.2	71.1	123.9	6475.4	71.1	61.2	ST
11	6493.0	44.5	4.6	78.3	124.6	6483.7	78.3	61.0	KB
12	6514.0	53.1	4.1	94.1	125.7	6497.5	94.1	41.1	ST
13	6529.0	59.1	3.1	106.5	126.5	6505.9	106.5	40.0	ST
14	6545.0	65.0	1.8	120.6	127.1	6513.3	120.6	38.0	ST
15	6579.0	75.8	358.9	152.6	127.3	6524.7	152.6	32.7	ST
16	6610.0	82.6	358.1	183.0	126.5	6530.5	183.0	22.1	ST
17	6643.0	89.3	358.4	215.9	125.5	6532.8	215.9	20.3	ST
18	6675.0	89.0	359.8	247.9	125.0	6533.3	247.9	4.4	ST