

'AMONDBACK DIRECTION'
HORIZONTAL SURVEY PROGRAM
MINIMUM CURVATURE CALCULATIONS(SPE-3362)

OPERATOR: TEXACO E & P, INC. WELL: WEST DOLLARHIDE DRINKARD #123 LOCATION: LEA COUNTY, NEW MEXICO JOB NO: 9819420058						START: 5/25/98 FILE: SIDETRAK #02 FINISH: 5/25/98 WEST LATERAL INFORMATION PROVIDED BY: TEXACO E & P, INC. HORIZONTAL COORDINATOR: PHILLIPS, MEREDITH					
DIP1 = 10.87 deg = 100.87 deg TARGET1 = 6,409 ft TVD VS1 = 768 ft						DATE: 5/29/98 MAG DECLINATION 9.11 EAST TIME: 12:58 PM GRID CORR. DIRECTION: 270.00					
DIP2 = 10.87 deg = 100.87 deg TARGET2 = 6,365 ft TVD VS2 = 1,000 ft											
SVY #	MEASURED DEPTH	INCL (DRIFT)	TRUE AZIMUTH (DIR)	VERTICAL DEPTH	VERTICAL SECTION	DLS/ 100	CENTER LINE ABOVE(+) BELOW(-)	RIGHT(+) LEFT(-)	NORTH(+) SOUTH(-)	EAST(+) WEST(-)	QUAD FORMAT
TIE	6100	0.5	83.4	6098.9	-92.9	0.1	475.9	-5.7	-5.7	92.9	N 83.4 E
1	6202	2.3	134.8	6200.9	-94.9	2.0	374.3	-7.1	-7.1	94.9	S 45.2 E
2	6212	2.7	225.4	6210.9	-94.8	35.6	364.3	-7.4	-7.4	94.8	S 45.4 W
3	6222	5.6	263.9	6220.9	-94.2	38.7	354.2	-7.6	-7.6	94.2	S 83.9 W
4	6227	7.3	261.7	6225.8	-93.6	34.4	349.2	-7.7	-7.7	93.6	S 81.7 W
5	6260	21.8	267.5	6257.7	-85.4	44.1	315.7	-8.3	-8.3	85.4	S 87.5 W
6	6292	38.2	273.5	6285.3	-69.5	52.0	285.0	-7.9	-7.9	69.5	N 86.5 W
7	6324	53.6	271.8	6307.5	-46.6	48.3	258.4	-6.9	-6.9	46.6	N 88.2 W
8	6355	68.6	269.8	6322.4	-19.5	48.7	238.3	-6.6	-6.6	19.5	S 89.8 W
9	6387	76.1	271.6	6332.1	11.0	24.0	222.8	-6.2	-6.2	-11.0	N 88.4 W
10	6418	76.0	271.6	6339.6	41.0	0.3	209.5	-5.3	-5.3	-41.0	N 88.4 W
11	6449	75.4	273.7	6347.3	71.0	6.8	196.1	-3.9	-3.9	-71.0	N 86.3 W
12	6481	75.1	274.0	6355.4	101.9	1.3	182.0	-1.9	-1.9	-101.9	N 86.0 W
13	6512	76.5	271.4	6363.0	131.9	9.3	168.6	-0.5	-0.5	-131.9	N 88.6 W
14	6544	76.2	272.2	6370.6	163.0	2.6	155.1	0.5	0.5	-163.0	N 87.8 W
15	6576	75.8	271.7	6378.3	194.0	2.0	141.4	1.6	1.6	-194.0	N 88.3 W
16	6607	75.7	268.6	6386.0	224.1	9.7	128.0	1.7	1.7	-224.1	S 88.6 W
17	6639	75.6	267.5	6393.9	255.1	3.3	114.1	0.6	0.6	-255.1	S 87.5 W
18	6671	74.9	267.5	6402.0	286.0	2.2	100.1	-0.7	-0.7	-286.0	S 87.5 W
19	6702	74.9	267.8	6410.1	315.9	0.9	86.2	-2.0	-2.0	-315.9	S 87.8 W
20	6734	73.2	267.2	6418.9	346.6	5.6	71.5	-3.3	-3.3	-346.6	S 87.2 W
21	6766	73.8	266.9	6428.0	377.3	2.1	56.6	-4.9	-4.9	-377.3	S 86.9 W
22	6798	76.5	267.5	6436.2	408.2	8.6	42.4	-6.4	-6.4	-408.2	S 87.5 W
23	6830	79.4	269.5	6442.9	439.4	10.9	29.8	-7.2	-7.2	-439.4	S 89.5 W
24	6861	83.5	270.9	6447.5	470.1	14.0	19.3	-7.1	-7.1	-470.1	N 89.1 W
25	6893	87.7	271.0	6449.9	502.0	13.1	10.7	-6.6	-6.6	-502.0	N 89.0 W
26	6925	93.2	272.1	6449.7	533.9	17.5	4.8	-5.7	-5.7	-533.9	N 87.9 W
27	6957	93.6	271.1	6447.8	565.9	3.4	0.6	-4.8	-4.8	-565.9	N 88.9 W
28	6988	97.3	271.0	6444.8	596.7	11.9	-2.4	-4.3	-4.3	-596.7	N 89.0 W
29	7020	100.7	271.1	6439.8	628.3	10.6	-3.5	-3.7	-3.7	-628.3	N 88.9 W
30	7051	101.0	271.2	6434.0	658.8	1.0	-3.5	-3.1	-3.1	-658.8	N 88.8 W
31	7083	100.8	270.7	6427.9	690.2	1.7	-3.5	-2.5	-2.5	-690.2	N 89.3 W
32	7114	100.4	270.4	6422.2	720.6	1.6	-3.6	-2.3	-2.3	-720.6	N 89.6 W
33	7146	99.9	270.7	6416.6	752.1	1.8	-4.0	-1.9	-1.9	-752.1	N 89.3 W
34	7177	99.8	270.7	6411.3	782.7	0.3	-4.6	-1.6	-1.6	-782.7	N 89.3 W
35	7209	99.6	270.5	6405.9	814.2	0.9	-5.3	-1.2	-1.2	-814.2	N 89.5 W
36	7241	100.7	271.8	6400.3	845.7	5.3	-5.7	-0.6	-0.6	-845.7	N 88.2 W
37	7273	100.5	271.8	6394.4	877.2	0.6	-5.8	0.4	0.4	-877.2	N 88.2 W
38	7304	101.9	271.1	6388.4	907.6	5.0	-5.6	1.1	1.1	-907.6	N 88.9 W
39	7336	101.6	271.0	6381.8	938.9	1.0	-5.1	1.7	1.7	-938.9	N 89.0 W
40	7364	101.4	270.2	6376.3	966.3	2.9	-4.8	2.0	2.0	-966.3	N 89.8 W
TD	7398	101.4	270.2	6369.5	999.6	0.0	-4.5	2.1	2.1	-999.6	N 89.8 W