

PHOENIX DRILLING SERVICES
HORIZONTAL SURVEY PROGRAM

OPERATOR: TEXACO E & P INC.
WELL: J.R. PHILLIPS #9
LOCATION: LEA COUNTY, NEW MEXICO
JOB NO: 173026

START: 03/05/97
FINISH: 03/05/97
INFORMATION PROVIDED BY:
HORIZONTAL COORDINATOR: MADDUX,

DIP1 = 0.00 deg
TARGET1 = 5,696 ft
VS1 = 0 ft

DIP2 = 0.00 deg
TARGET2 = 5,696 ft
VS2 = 100 ft

SIDETRACK #1

DATE: 03/07/97
TIME: 18:14:28
MAG DECI 0 EAST

TERM I1 = 90.00 deg
TERM I2 = 90.00 deg
MINIMUM CURVATURE CALCULATIONS(SPI

DIRECTION 193.80 (GRID)

VY #	MEASURED DEPTH	INC	AZIMUTH	TRUE		DLS/ 100	ACTUAL BUR	BUR REQ'D	CENTER			
				VERTICAL DEPTH	VERTICAL SECTION				ABOVE(+) BELOW(-)	RIGHT(+) LEFT(-)	NORTH(+) SOUTH(-)	EAST(+) WEST(-)
IE	5589	1.2	152.4	5587.8	57.0	0	0.0	52	108	-48	-67	33
1	5629	5.4	193.8	5627.7	59.2	11.4	10.5	76	68	-48	-69	32
2	5631	6.5	193.8	5629.7	59.4	55.0	55	77	66	-48	-69	32
3	5633	7.8	197.0	5631.7	59.6	68.0	65	77	64	-48	-69	32
4	5635	9.0	197.6	5633.6	59.9	60.2	60	77	62	-48	-70	32
5	5640	12.2	201.3	5638.5	60.8	65.4	64	79	57	-48	-70	32
6	5645	15.5	204.1	5643.4	62.0	67.3	66	80	53	-48	-72	31
7	5650	18.6	205.7	5648.2	63.5	62.7	62	82	48	-47	-73	31
8	5655	22.0	206.3	5652.9	65.2	68.1	68	83	43	-47	-74	30
9	5660	25.3	206.8	5657.4	67.1	66.1	66	85	39	-46	-76	29
0	5665	28.8	206.8	5661.9	69.3	70.0	70	87	34	-46	-78	28
1	5670	32.2	206.4	5666.2	71.8	68.1	68	90	30	-45	-81	27
2	5675	35.5	205.6	5670.4	74.5	66.6	66	94	26	-45	-83	26
3	5680	39.0	204.1	5674.3	77.5	72.3	70	98	22	-44	-86	24
4	5685	42.3	202.8	5678.1	80.7	68.1	66	105	18	-44	-89	23
5	5690	45.9	201.6	5681.7	84.1	73.9	72	113	14	-43	-92	22
6	5695	49.2	200.7	5685.1	87.8	67.3	66	128	11	-43	-95	20
7	5700	52.6	199.9	5688.2	91.7	69.1	68	152	8	-42	-99	19
8	5705	56.1	199.1	5691.2	95.7	71.2	70	201	5	-42	-103	18
9	5710	59.8	198.8	5693.8	99.9	74.2	74	356	2	-41	-107	16
0	5715	63.3	198.6	5696.2	104.3	70.1	70	-3117	-0	-41	-111	15
1	5720	67.2	198.7	5698.3	108.8	78.0	78	-196	-2	-41	-115	14
2	5725	70.8	199.0	5700.1	113.5	72.2	72	-78	-4	-40	-120	12
3	5730	74.5	199.3	5701.6	118.2	74.2	74	-37	-6	-40	-124	10
4	5761	91.0	199.6	5705.5	148.7	53.2	53	-0	-9	-37	-153	0
5	5793	92.9	198.3	5704.4	180.6	7.2	6	-1	-8	-34	-183	-10
T	5813	92.9	198.3	5703.4	200.5	0.0	0	-1	-7	-32	-202	-16