

DI DRILL, INC.
BAKERSFIELD, CALIF.

MAGNETIC DIRECTIONAL SURVEY
BY ANGLE AVERAGE METHOD

FOR

* NAHAMA & WEAGANT *

JOB NUMBER: B 6817
WELL NAME: GRUB CREEK
LOCATION: MIST OR
SURVEY DATE: 11 NOV 1993
SURVEY ENGINEER: RON STOCKTON
MAGNETIC DECLINATION: 16.00E

***** DEPTH MEASURED IN FEET *****
***** THIS DIRECTIONAL SURVEY REPORT IS *****
***** CORRECT TO THE BEST OF MY KNOWLEDGE *****
***** AND IS SUPPORTED BY ACTUAL FIELD DATA! *****

***** COMPANY REPRESENTATIVE *****

DI DRILL, INC.
BAKERSFIELD, CALIF.

INRUN SURVEY
BY ANGLE AVERAGE METHOD

JOB NUMBER: B 6817

WELL NAME: GRUB CREEK

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/A CLOS.	INCL. BEARING	COORDINATES LATITUDE DEPARTURE	D-LEG /100	G-LEG /CL	STATION DISP.	DIRECTION	
519.0	518.92	1.35	2.957	02-00	N52-00W	5.58	7.14	0.39	2.00	9.06 AT N52-00W
629.0	616.71	5.64	13.289	05-30	S63-00W	6.20	13.63	4.39	4.97	14.19 AT N65-33W
710.0	700.38	17.75	15.799	10-00	S48-00W	0.75	25.74	5.30	4.90	33.77 AT S00-13W
803.0	900.36	34.43	14.179	10-45	S34-00W	13.39	34.11	2.82	2.62	37.24 AT S68-56W
855.0	861.03	45.95	11.733	13-00	S37-00W	23.77	42.11	3.76	2.33	40.46 AT S60-35W
928.0	922.12	52.12	9.133	15-15	S37-00W	36.05	51.11	3.57	2.25	62.70 AT S54-58W
1147.0	1131.41	125.71	-1.516	19-00	S37-00W	87.55	99.72	1.71	3.75	125.70 AT S45-52W
1304.0	1279.47	180.39	-7.311	22-00	S44-00W	129.36	125.73	2.46	3.07	180.51 AT S44-14W
1474.0	1436.09	243.95	-11.251	22-00	S42-00W	175.91	169.35	0.44	0.75	244.21 AT S43-55W
1691.0	1637.70	324.13	-14.825	21-25	S46-00W	233.67	225.12	0.73	1.59	324.47 AT S43-56W
1911.0	1843.49	401.90	-12.957	20-00	S50-00W	285.73	232.93	0.74	2.00	402.11 AT S44-43W
2065.0	1983.66	453.24	-10.211	19-00	S49-00W	319.12	322.32	0.68	1.05	453.25 AT S45-16W
2156.0	2074.70	482.81	-9.945	19-00	S49-00W	339.56	344.38	0.80	0.80	482.92 AT S45-29W
2811.0	2695.40	691.81	-0.002	18-15	S43-00W	475.79	582.25	0.11	0.75	691.81 AT S46-33W

* THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF *
* 2811.0 FEET EQUALS 691.84 FEET AT S46-33W *

