DI DRIL, INC.
BAKERSFIELD,CALIFORNIA

MAGNETIC DIRECTIONAL SURVEY
BY ANGLE AVERAGE METHOD

FOR

****
* NAHAMA & WEAGANT ENERGY CO. *
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OB NUMBER: B 6810

ELL NAME: RAVEN 12A-33-75

OCATION: MIST FIELD

URVEY DATE: 25 MAY 93

URVEY ENGINEER: RON STOCKTON

AGNETIC DECLINATION: 20.00E

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***** DEPTH MEASURED IN FEET *******
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OMMENTS:

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*** THIS DIRECTIONAL SURVEY REPORT IS ****
** CORRECT TO THE BEST OF MY KNOWLEDGE ***
* AND IS SUPPORTED BY ACTUAL FIELD DATA! *
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** ********************** **
** COMPANY REPRESENTATIVE **
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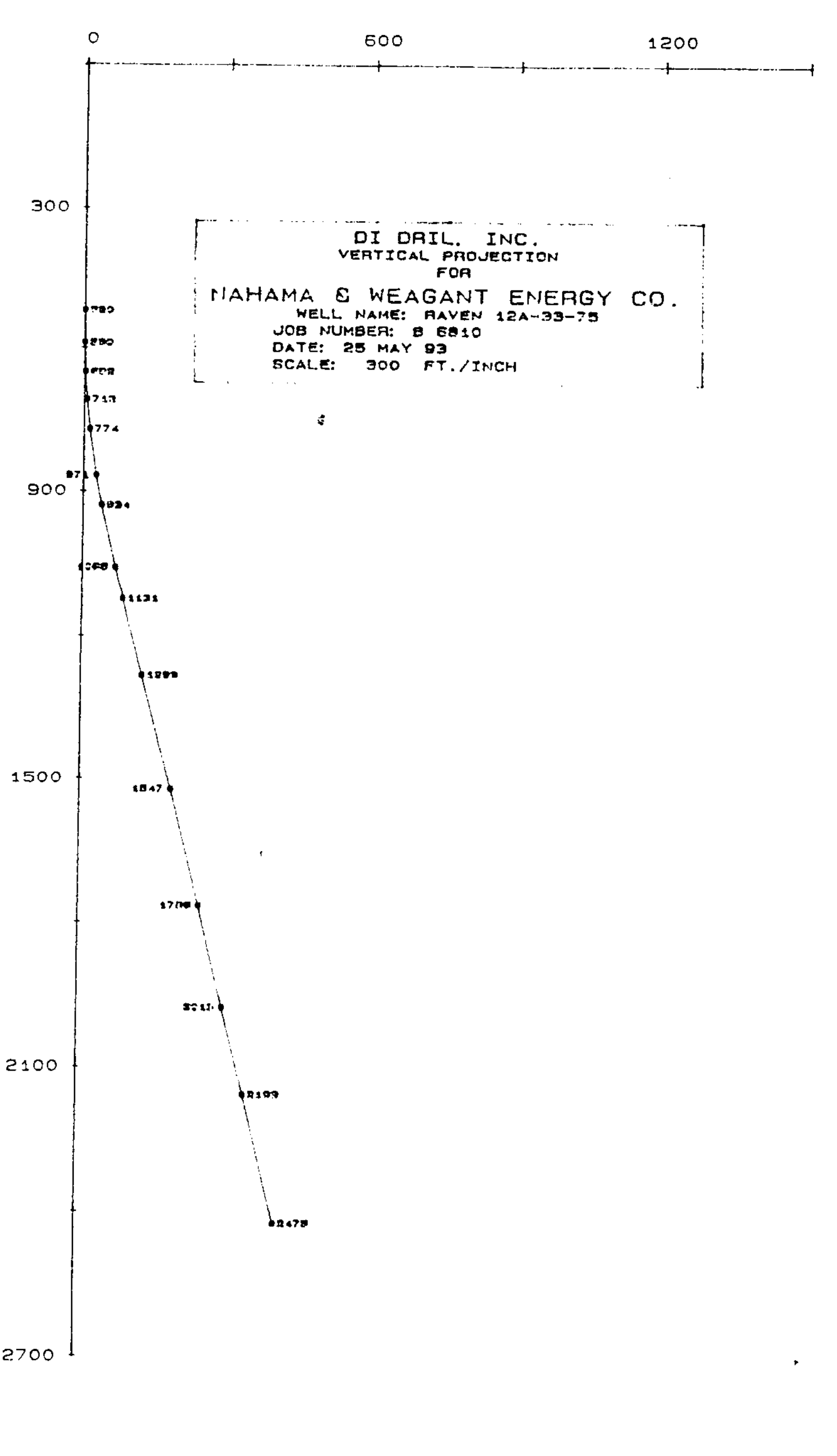
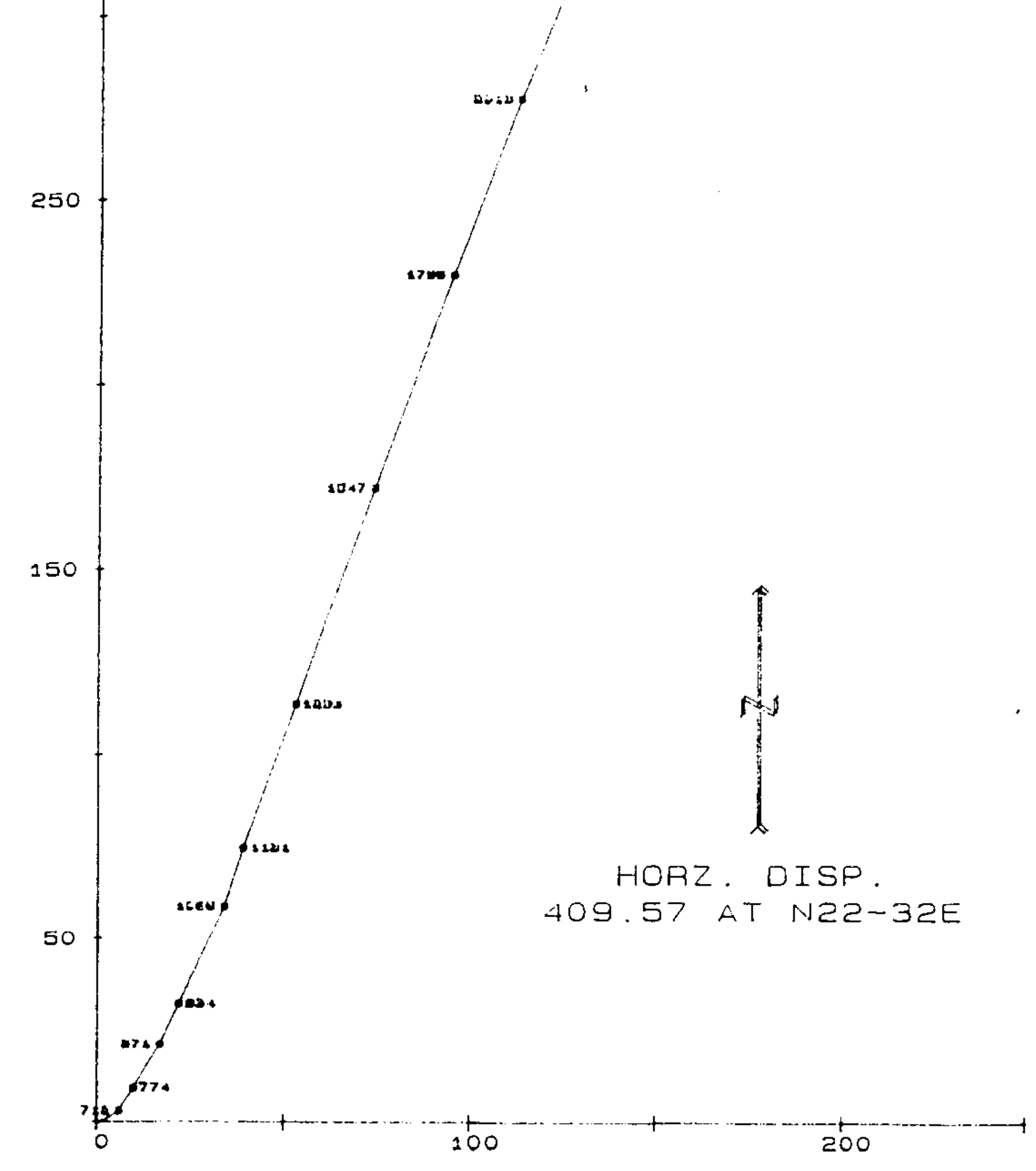
DI DRIL, INC.
BAKERSFIELD,CALIFORNIA

JOB NUMBER: B 6810 WELL NAME: RAVEN 12A-33-75

INRUN SURVEY
BY ANGLE AVERAGE METHOD

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R CLOS.	INCL	BEARING	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISPLACEMENT DISP.	STATION DISPLACEMENT DIRECTION
520.0	520.00	0.00	0.000	00-00	N78-00E	0.00 N	0.00 E	0.00	0.00	0.00	AT N00-00E
590.0	590.00	0.35	0.503	01-00	N78-00E	0.13 N	0.60 E	1.43	1.00	0.61	AT N78-00E
652.0	651.96	1.81	2.098	03-00	N62-00E	0.87 N	2.63 E	3.32	2.06	2.77	AT N71-46E
712.0	711.80	5.51	4.318	05-15	N45-00E	3.43 N	6.10 E	4.23	2.54	7.00	AT N60-37E
774.0	773.45	11.92	5.971	07-00	N29-00E	8.72 N	10.08 E	3.92	2.43	13.33	AT N49-09E
871.0	869.35	26.37	7.609	10-15	N29-00E	21.44 N	17.13 E	3.35	3.25	27.45	AT N38-38E
934.0	931.27	37.95	8.514	11-00	N25-00E	31.79 N	22.41 E	1.67	1.05	38.89	AT N35-11E
1066.0	1059.89	67.64	8.238	15-00	N19-00E	59.32 N	33.53 E	3.19	4.22	68.14	AT N29-29E
1131.0	1122.75	84.16	7.218	14-30	N19-00E	74.97 N	38.92 E	0.77	0.50	84.47	AT N27-26E
1298.0	1284.43	125.92	5.005	14-30	N20-00E	114.38 N	52.88 E	0.15	0.25	126.01	AT N24-49E
1547.0	1525.63	187.67	2.273	14-15	N20-00E	172.47 N	74.02 E	0.10	0.25	187.69	AT N23-14E
1796.0	1767.10	248.38	-0.413	14-00	N20-00E	229.58 N	94.80 E	0.10	0.25	248.38	AT N22-26E
2013.0	1977.77	300.38	-2.260	13-45	N21-00E	278.32 N	113.03 E	0.16	0.35	300.39	AT N22-06E
2199.0	2158.44	344.59	-2.285	13-45	N24-00E	319.16 N	129.94 E	0.38	0.71	344.60	AT N22-09E
2475.0	2426.68	409.57	-0.054	13-30	N25-00E	378.32 N	156.91 E	0.12	0.34	409.57	AT N22-32E

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* THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF *
* ******** *
* 2475.0 FEET EQUALS 409.57 FEET AT N22-32E *
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