

HARVEY E. YATES CO.
 HORIZONTAL WORKSHEET

 WELL NAME: JFG 7 FEE #1/DEVIATED HOLE
 SURFACE LOC: 1980'FN & EL OF SEC.7 T-19S R-35E
 COUNTY: LEA STATE: NEW MEXICO

TARGET ZONE:	SCARB BS	MAX.PLAN ROP:	10 DEG/100 FT
TARGET DEPTH:	10080 FT @ TVD	FORMATION DIP:	0 DEGREES
TARGET ANGLE:	225 AZIMUTH	FORMATION DIR:NA	AZIMUTH
LENGTH HORZ:	N/A FT	DECLINATION:12 E	DEGREES
PLANNED KOP:	9600 FT @ TVD	1st ANGLE:	0.001 DEGREES
ACTUAL KOP:	9587 FT	@ DEPTH:	0 FT

-----BEGINNING SURVEY-----

COMPANY: SDI/MIDLAND, TX.

SURVEY TYPE: MAGNETIC MULTISHOT

DEPTHS:	FROM	9897 FEET	TO	3550 FEET		
MD	INCL	AZIMUTH	TVD	RECTANGULAR COOR.	VERT SEC.	
(ft)	(deg)	(deg)	(ft)	(N+/S-)	(E+/W-)	(ft)
9587.00	1.15	298.15	9586.36	72.60	-14.10	-52.30

JFG 7 FEE #1/DEVIATED HOLE

MEASURED DEPTH (ft)	INCL ANGLE (deg)	HOLE AZIMUTH (deg)	TRUE VERT DEPTH (ft)	TOTAL VERTICAL SECTION	NEW COOR- DINATES (N+/S-)	NEW COOR- DINATES (E+/W-)	CLOSURE DIST. (ft)	BUILD RATE (deg/100')	DOGLEG SVRTY (deg/100')
9637	3.7	269.0	9636.3	-40.3	73.1	-16.1	74.9	5.1	5.5
9707	6.3	233.0	9706.0	-34.9	71.1	-21.8	74.4	3.6	5.6
9764	10.5	221.0	9762.4	-26.6	65.5	-27.8	71.2	7.5	8.0
9809	14.5	221.0	9806.3	-16.9	58.1	-34.2	67.5	8.9	8.9
9900	15.3	218.0	9894.3	6.3	40.1	-49.1	63.4	0.8	1.2
9992	14.3	218.0	9983.3	29.6	21.7	-63.5	67.1	-1.1	1.1
10085	12.0	216.0	10073.8	50.5	4.8	-76.2	76.4	-2.4	2.5
10209	12.0	217.0	10195.1	76.0	-15.9	-91.5	92.9	0.0	0.2