



Baker Atlas



FILE NO: _____
 COMPANY: SIERRA GEOTHERMAL POWER, INC.
 WELL: ALUM 25-29
 FIELD: ALUM
 COUNTY: ESMERALDA
 STATE: NEVADA

Ver. 3.87
 LOCATION: 2235.18' FSL & 938.11' FWL
 SW/C
 SEC 29 TWP 1N RGE 38.SE
 OTHER SERVICES: ZDL/CN, XIAC, STAR/CBIL, HDIL

PERMANENT DATUM: G.L. ELEVATION 4903.57 FT
 LOG MEASURED FROM: K.B. 16.0 FT ABOVE P.D.
 DRILL MEAS. FROM: K.B.
 ELEVATIONS: KB 4919.57 FT, DF, GL 4903.57 FT

DATE	15-NOV-2009	
RUN	TRIP	1
SERVICE ORDER	575995	
DEPTH DRILLER	2300 FT	
DEPTH LOGGER	2299 FT	
BOTTOM LOGGED INTERVAL	2278 FT	
TOP LOGGED INTERVAL	590 FT	
CASING DRILLER	16.0 IN @ 571 FT	
CASING LOGGER	571 FT	
BIT SIZE	14.75 IN	
TYPE OF FLUID IN HOLE	LSND	
DENSITY	9.0 LB/G	54 S
PH	9.0	10.0 CS
SOURCE OF SAMPLE	FLOWLINE	
RM AT MEAS. TEMP.	2.53 OHMM @ 61 DEGF	
RMF AT MEAS. TEMP.	2.36 OHMM @ 60 DEGF	
RMC AT MEAS. TEMP.	2.68 OHMM @ 63 DEGF	
SOURCE OF RMF	RMC	MEASURED
RM AT BHT	1.08 OHMM @ 152 DEGF	
TIME SINCE CIRCULATION	9.5 HOURS	
MAX. RECORDED TEMP.	180 DEGF	
EQUIP. NO.	LOCATION	ML-4232 FALLON, NV
RECORDED BY	VERCIYAK	
WITNESSED BY	JERRY HAMBLIN	

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

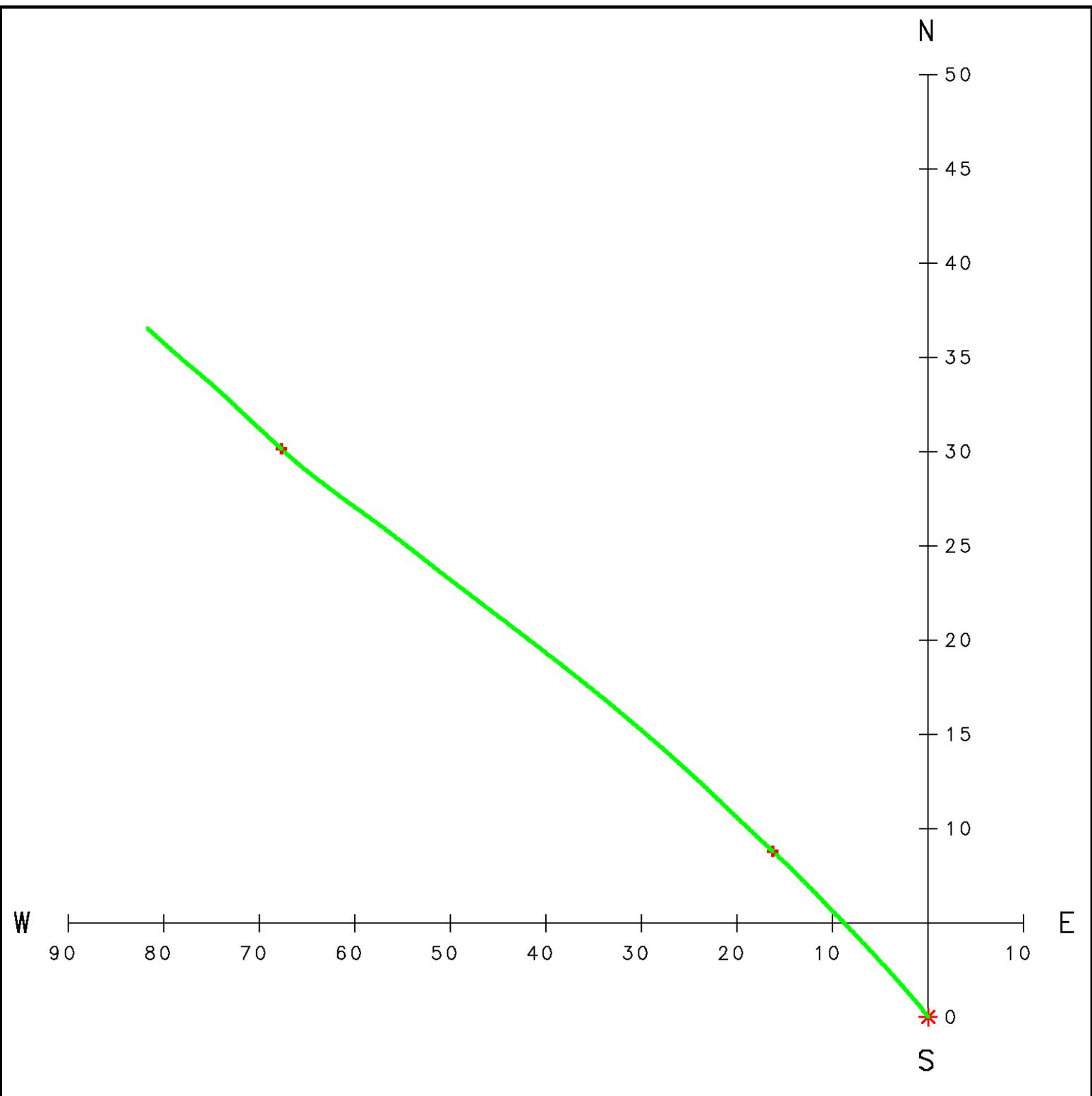
REMARKS

RUN 1 TRIP 1 : MAGNETIC DECLINATION: 13.50 DEGREES
 ASSUMED MD = TVD AT 590' FOR TIE IN.

THANKS FOR USING BAKER ATLAS
 CREW: LAPOINT / HAYCOCK
 RIG: ENSIGN 561

EQUIPMENT DATA

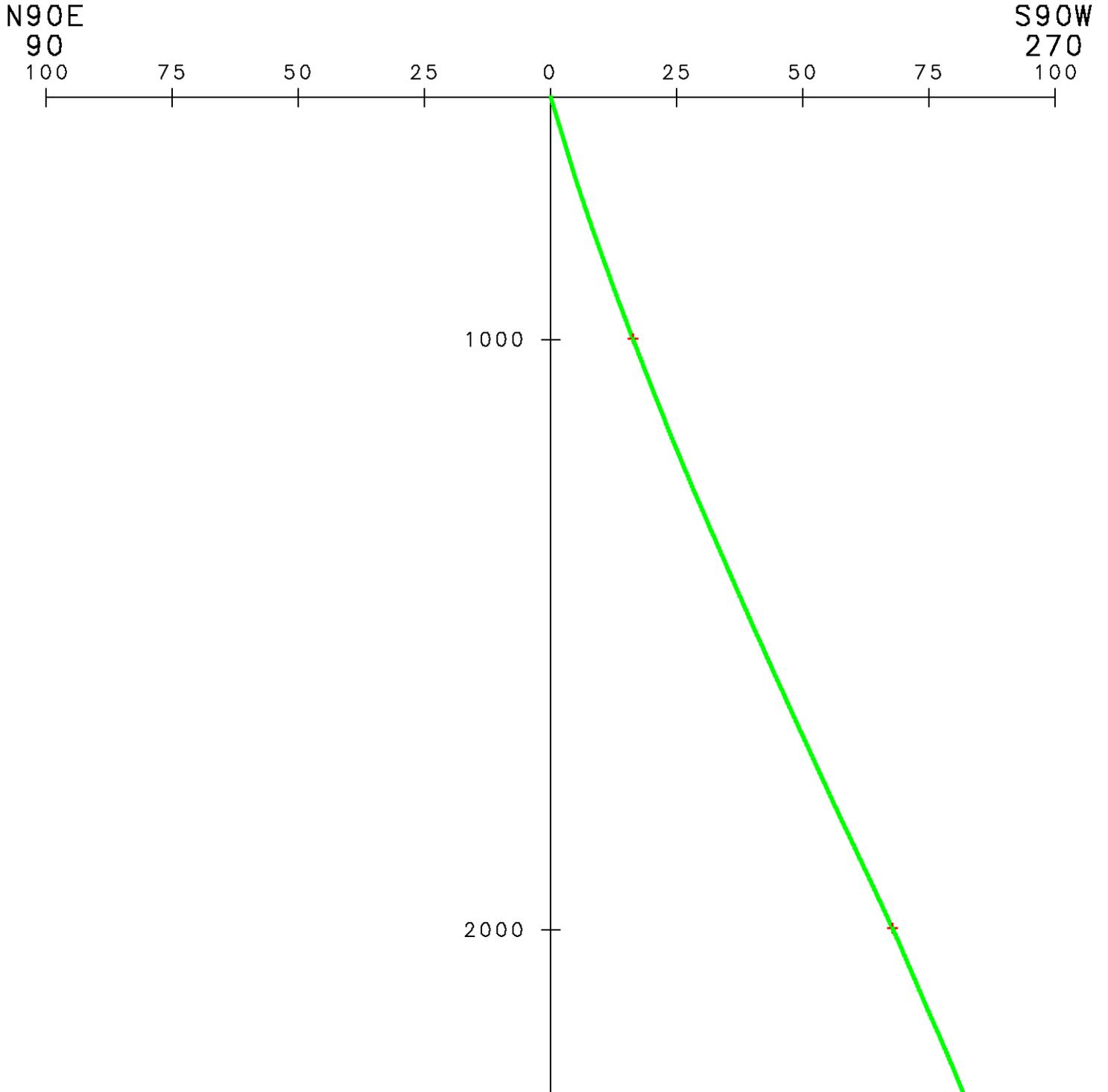
RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	2	PWR ADAPT	4430XB	10161076	FREE
1	2	SWVL	3944XD	10201370	FREE
1	2	TIRM	3981XB	10203010	FREE
1	2	WTS	3514XB	10200359	FREE
1	2	GR	1329XB	10203000	FREE
1	2	CAP SUB	1022PA	10565895	FREE
1	2	STAR	1036EA / 4236WA	10402331 / 10489537	6-ARM
1	2	ISO	3992XA	10348292	FREE
1	2	KNCKL	3939XA	10399278	FREE
1	2	ORIT	4401XB	10165246	CENT



PLAN VIEW

~ : WELLBORE COURSE	FINAL EAST-WEST DRIFT	81.73 FT WEST
+ : MEASURED DEPTH TIE-IN	FINAL NORTH-SOUTH DRIFT	36.52 FT NORTH
* : WELLHEAD POSITION	FINAL DRIFT DISTANCE	89.52 FT

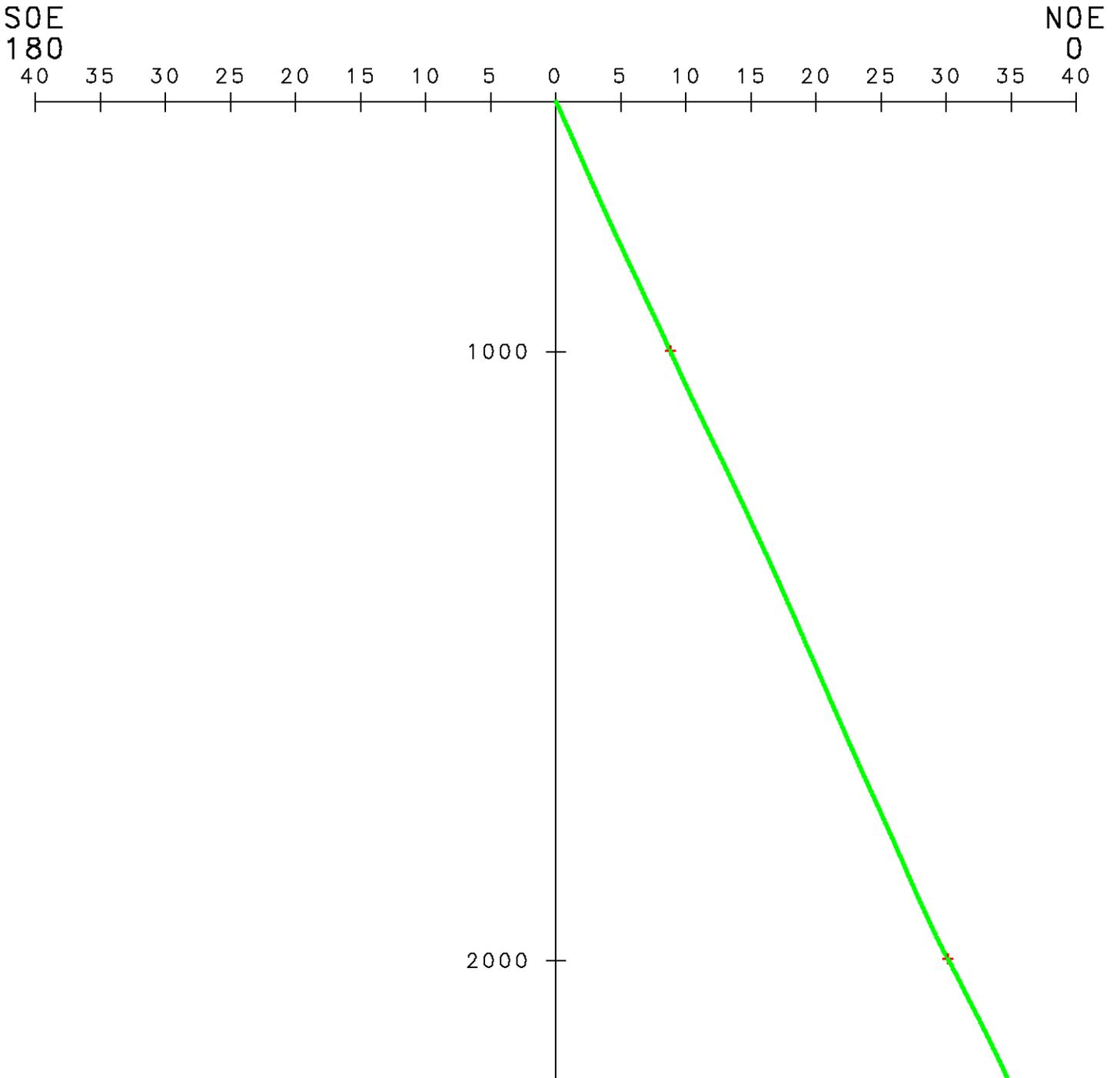
FINAL DRIFT DIRECTION N 65.92 W
DRIFT UNITS FEET
DEPTH UNITS FEET



SIDE VIEW FROM AZIMUTH 0

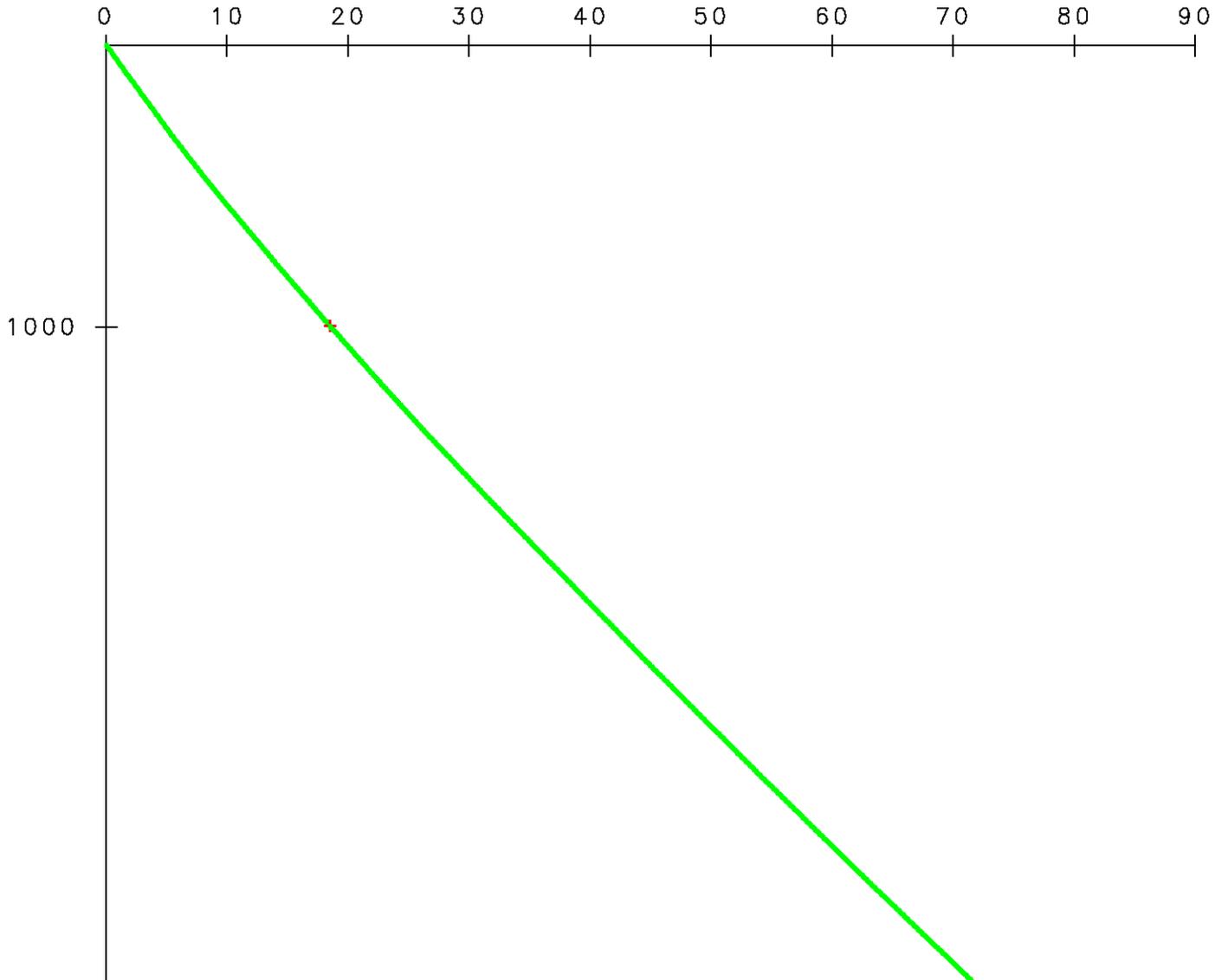
SIDE VIEW FROM AZIMUTH 0

 : WELLBORE COURSE	MAX. DRIFT N90 E	0.00 FT
 : MEASURED DEPTH TIE-IN	MAX. DRIFT S90 W	81.73 FT
 : WELLHEAD POSITION	BOTTOM TVD THIS INTERVAL	2275.60 FT
	DRIFT UNITS	FEET
	DEPTH UNITS	FEET

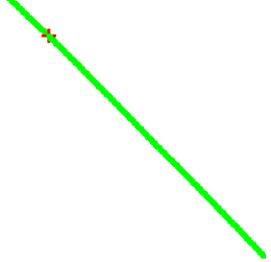


SIDE VIEW FROM AZIMUTH 90

∩ : WELLBORE COURSE	MAX. DRIFT S0E	0.00 FT
+ : MEASURED DEPTH TIE-IN	MAX. DRIFT N0E	36.52 FT
* : WELLHEAD POSITION	BOTTOM TVD THIS INTERVAL	2275.60 FT
	DRIFT UNITS	FEET
	DEPTH UNITS	FEET



2000



DEPTH VS. DRIFT

 : WELLBORE COURSE	MAX. DRIFT FROM WELLHEAD	89.52 FT
 : MEASURED DEPTH TIE-IN	BOTTOM TVD THIS INTERVAL	2275.60 FT
 : WELLHEAD POSITION	DRIFT UNITS	FEET
	DEPTH UNITS	FEET

DEPTH	DEVIATION		T.V.D.	DRIFT COORDINATES			
	ANGLE	AZIMUTH		STATION		TOTAL	
				N-S	E-W	N-S	E-W
590.00	2.3	303.6	590.00	0.00N	0.00E	0.00N	0.00E
640.00	2.3	299.3	639.96	1.06N	1.72W	1.06N	1.72W
690.00	2.4	299.2	689.92	1.03N	1.80W	2.09N	3.52W
740.00	2.5	299.0	739.87	1.03N	1.83W	3.13N	5.35W
790.00	2.6	298.3	789.82	1.07N	1.96W	4.19N	7.31W
840.00	2.7	297.4	839.77	1.09N	2.05W	5.28N	9.37W
890.00	2.7	297.7	889.71	1.11N	2.12W	6.39N	11.48W
940.00	2.8	297.1	939.65	1.10N	2.13W	7.49N	13.62W
990.00	2.8	295.3	989.59	1.08N	2.20W	8.56N	15.82W
1040.00	2.9	295.4	1039.53	1.08N	2.27W	9.64N	18.08W
1090.00	3.0	295.9	1089.47	1.10N	2.27W	10.74N	20.36W
1140.00	2.9	296.0	1139.40	1.13N	2.34W	11.87N	22.69W
1190.00	3.0	294.5	1189.33	1.13N	2.38W	13.00N	25.08W
1240.00	3.0	293.8	1239.26	1.11N	2.44W	14.11N	27.52W
1290.00	3.1	292.8	1289.18	1.09N	2.50W	15.20N	30.02W
1340.00	3.1	293.0	1339.11	1.09N	2.55W	16.29N	32.56W
1390.00	3.2	292.0	1389.03	1.05N	2.54W	17.34N	35.11W
1440.00	3.2	290.9	1438.95	1.03N	2.56W	18.37N	37.67W
1490.00	3.3	291.4	1488.88	1.02N	2.58W	19.39N	40.25W
1540.00	3.2	290.9	1538.80	1.03N	2.62W	20.42N	42.87W
1590.00	3.3	290.9	1588.72	1.02N	2.63W	21.44N	45.51W
1640.00	3.2	291.6	1638.64	1.02N	2.66W	22.46N	48.17W
1690.00	3.3	291.4	1688.55	1.04N	2.68W	23.50N	50.84W
1740.00	3.3	291.6	1738.47	1.07N	2.68W	24.57N	53.52W
1790.00	3.4	291.2	1788.39	1.05N	2.69W	25.62N	56.21W
1840.00	3.4	290.4	1838.30	1.03N	2.76W	26.65N	58.97W
1890.00	3.4	290.7	1888.21	1.02N	2.76W	27.67N	61.74W
1940.00	3.4	292.4	1938.13	1.06N	2.75W	28.73N	64.49W
1990.00	3.4	294.6	1988.04	1.15N	2.72W	29.88N	67.21W
2040.00	3.2	294.8	2037.95	1.23N	2.61W	31.12N	69.82W
2090.00	3.2	295.6	2087.88	1.19N	2.50W	32.30N	72.33W
2140.00	3.2	293.4	2137.80	1.17N	2.50W	33.47N	74.83W
2190.00	3.2	293.1	2187.72	1.11N	2.58W	34.58N	77.40W
2240.00	3.1	295.0	2237.65	1.10N	2.50W	35.68N	79.91W
2278.00	3.0	295.5	2275.60	0.84N	1.82W	36.52N	81.73W

THE FIRST POINT INFORMATION:

590.00 2.3 303.6 590.00 0.00N 0.00E 0.00N 0.00E

THE LAST POINT INFORMATION:

2278.00 3.0 295.5 2275.60 0.84N 1.82W 36.52N 81.73W

FINAL EAST-WEST DRIFT = 81.73 W
 FINAL NORTH-SOUTH DRIFT = 36.52 N
 FINAL DRIFT DISTANCE = 89.52 FT
 FINAL DRIFT DIRECTION = N 65.92 W

 Baker Atlas 	COMPANY <u>SIERRA GEOTHERMAL POWER, INC.</u> WELL <u>ALUM 25-29</u> FIELD <u>ALUM</u> COUNTY <u>ESMERALDA</u> STATE <u>NEVADA</u>	FILE NO: _____ API NO: <u>27-009-90074</u>
	LOCATION: <u>2235.18' FSL & 938.11' FWL SW/C</u> SEC <u>29</u> TWP <u>1N</u> RGE <u>38.5E</u>	ELEVATIONS: KB <u>4919.57 FT</u> DF _____ GL <u>4903.57 FT</u> DATE <u>15-NOV-2009</u>