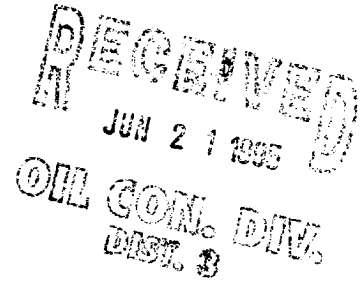


SCIENTIFIC DRILLING INTERNATIONAL INC.

CASPER, WYOMING

SIRGO BROTHERS ENERGY CORPORATION



Well Name : CHA CHA UNIT #48
Location : SAN JUAN COUNTY, NEW MEXICO
SHL : SEC. 27, T29N, R14W - 2067' FNL - 1394' FWL
PBHL : SEC. 27, T29N, R14W - 1985' FNL - 672' FWL
ACTUAL BHL : SEC. 27, T29N, R14W - 2006' FNL - 950' FWL
Date Surveyed : 8/27/1994
Job No. : 41D0894069
Survey Performed By : BUTCH JUDGE and DEE BAILEY

This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*Dee Bailey*..... COMPANY REPRESENTATIVE

State of Wyoming
County of Natrona

On this 20th day of June, 1995, before me personally appeared
Dee Bailey. I acknowledged that he executed above.



Lynn Harshman
Lynn Harshman - Notary

SCIENTIFIC DRILLING INTERNATIONAL INC.

Client : SIRGO BROTHERS ENERGY CORPORATION
Well Name : CHA CHA UNIT #48
Location : SAN JUAN COUNTY, NEW MEXICO
SHL : SEC.27,T29N,R14W - 2067'FNL - 1394'FWL
PBHL : SEC.27,T29N,R14W - 1985'FNL - 672'FWL
ACTUAL BHL : SEC.27,T29N,R14W - 2006'FNL - 950'FWL
Height Of WELLSITE Datum Above Field Datum 0.00 ft

Date 8/27/1994
Filename : SIRGO48S

No Interpolation

Plane of Vertical Section : 276.5°
Latitude & Departure relate to : WELLSITE CENTRE
Vertical Section Originates at : WELLSITE CENTRE
Slot Coordinates : Lat 0.000ft
: Dep 0.000ft
Directions Referenced To : TRUE NORTH
Depth at Drill Floor : 0.00 ft

Calculation Method : MINIMUM CURVATURE

Casing Points
NO DATA

Points of Interest
NO DATA

Magnetic Declination :+11.70°
WELLSITE North : +0° 0' 0'' (T)
Grid convergence : +0.0000°

COMPLETION REPORT

NOTE: SURVEY DEPTH AT 5465' MD IS A PROJECTION TO TD

SCIENTIFIC DRILLING INTERNATIONAL INC.

Client : SIRGO BROTHERS ENERGY CORPORATION
 Well Name : CHA CHA UNIT #48
 Location : SAN JUAN COUNTY, NEW MEXICO
 SHL : SEC.27,T29N,R14W - 2067'FNL - 1394'FWL
 PBHL : SEC.27,T29N,R14W - 1985'FNL - 672'FWL
 ACTUAL BHL : SEC.27,T29N,R14W - 2006'FNL - 950'FWL
 Height Of WELLSITE Datum Above Field Datum 0.00 ft

Page 1 of 2
 Date 8/27/1994
 Filename : SIRGO48S

No Interpolation

M. DEPTH	ANGLE	AZ.DEG	C\L	T V D	V/S	N/S-	E/W-	DLS
ft	deg	deg	ft	ft	ft	ft	ft	"/100
0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500	2500.00	0.00	0.00	0.00	0.00
2650.00	1.00	254.00	150	2649.99	1.21	-0.36	-1.26	0.67
2723.00	1.50	262.00	73	2722.98	2.72	-0.67	-2.82	0.72
2785.00	3.50	269.00	62	2784.91	5.39	-0.82	-5.51	3.26
2847.00	5.50	272.00	62	2846.72	10.22	-0.74	-10.37	3.25
2940.00	7.50	279.00	93	2939.12	20.73	0.36	-20.83	2.31
3002.00	8.00	274.00	62	3000.55	29.09	1.29	-29.13	1.35
3063.00	9.50	277.00	61	3060.84	38.36	2.20	-38.36	2.57
3126.00	9.75	269.00	63	3122.96	48.85	2.74	-48.85	2.16
3188.00	10.75	272.00	62	3183.97	59.82	2.85	-59.88	1.83
3249.00	11.75	272.00	61	3243.79	71.68	3.27	-71.77	1.64
3342.00	13.75	272.00	93	3334.50	92.14	3.99	-92.28	2.15
3437.00	15.00	272.00	95	3426.52	115.66	4.81	-115.85	1.32
3498.00	16.25	272.00	61	3485.26	132.04	5.38	-132.27	2.05
3529.00	16.75	269.00	31	3514.99	140.79	5.46	-141.08	3.19
3641.00	17.25	267.00	112	3622.09	173.17	4.31	-173.80	0.69
3734.00	17.25	268.00	93	3710.91	200.41	3.10	-201.35	0.32
3828.00	15.00	267.00	94	3801.21	226.20	1.98	-227.43	2.41
3890.00	14.75	265.00	62	3861.13	241.85	0.87	-243.30	0.92
3952.00	13.50	267.00	62	3921.26	256.72	-0.20	-258.39	2.16
4056.00	13.00	279.00	104	4022.51	280.38	1.00	-282.07	2.68
4118.00	13.50	285.00	62	4082.86	294.51	3.96	-295.95	2.36
4148.00	13.50	282.00	30	4112.03	301.46	5.60	-302.76	2.33
4210.00	13.50	280.00	62	4172.32	315.88	8.36	-316.96	0.75
4272.00	14.00	278.00	62	4232.54	330.60	10.66	-331.52	1.11
4333.00	14.75	282.00	61	4291.63	345.71	13.30	-346.42	2.04
4396.00	15.00	290.00	63	4352.53	361.62	17.76	-361.93	3.28
4459.00	15.00	287.00	63	4413.38	377.56	22.93	-377.39	1.23
4636.00	9.00	296.00	177	4586.45	413.17	35.71	-411.77	3.54
4854.00	4.00	312.00	218	4802.99	435.44	48.28	-432.76	2.42
5040.00	2.25	340.00	186	4988.72	442.35	56.05	-438.83	1.22
5228.00	1.25	322.00	188	5176.63	445.44	61.14	-441.36	0.60
5415.00	1.00	217.00	187	5363.61	447.69	61.44	-443.59	0.96
5465.00	1.00	217.00	50	5413.60	448.14	60.74	-444.12	0.00

SCIENTIFIC DRILLING INTERNATIONAL INC.

Client : SIRGO BROTHERS ENERGY CORPORATION
Well Name : CHA CHA UNIT #48
Location : SAN JUAN COUNTY, NEW MEXICO
SHL : SEC.27,T29N,R14W - 2067'FNL - 1394'FWL
PBHL : SEC.27,T29N,R14W - 1985'FNL - 672'FWL
ACTUAL BHL : SEC.27,T29N,R14W - 2006'FNL - 950'FWL
Height Of WELLSITE Datum Above Field Datum 0.00 ft

Page 2 of 2
Date 8/27/1994
Filename : SIRGO48S

No Interpolation

Origin of Bottom Hole Closure WELLSITE CENTRE
Bottom Hole Closure 448 ft 277.8°

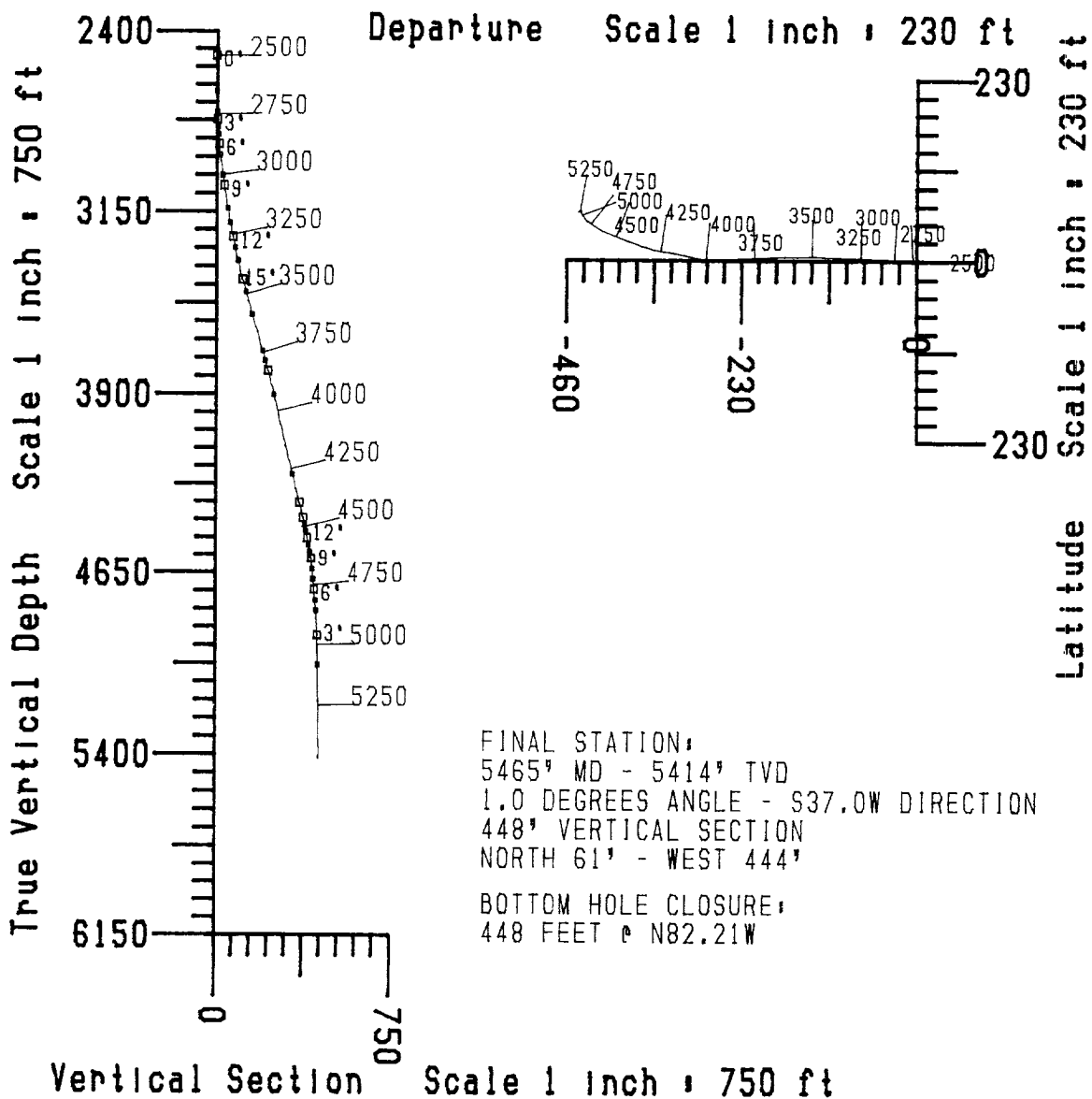
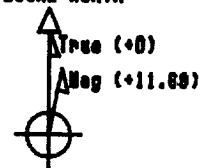
COMPLETION REPORT

NOTE: SURVEY DEPTH AT 5465' MD IS A PROJECTION TO TD



SCIENTIFIC DRILLING INTERNATIONAL, INC.
FOR
SIRCO BROTHERS ENERGY CORPORATION
HW CMA CMA UNIT 848
SAN JUAN COUNTY, NEW MEXICO
IN
SAN JUAN COUNTY, NEW MEXICO
NML SEC. 27, T20N, R14W - 2867' FUL - 1304' FUL
NML SEC. 27, T20N, R14W - 2866' FUL - 850' FUL

ALL DIRECTIONS REL.
TO LOCAL NORTH



PLANE OF VERT SECTN N82.52W

PLOT DATE 08-30-1984

TARGET DETAILS

No TVD Lat Dep

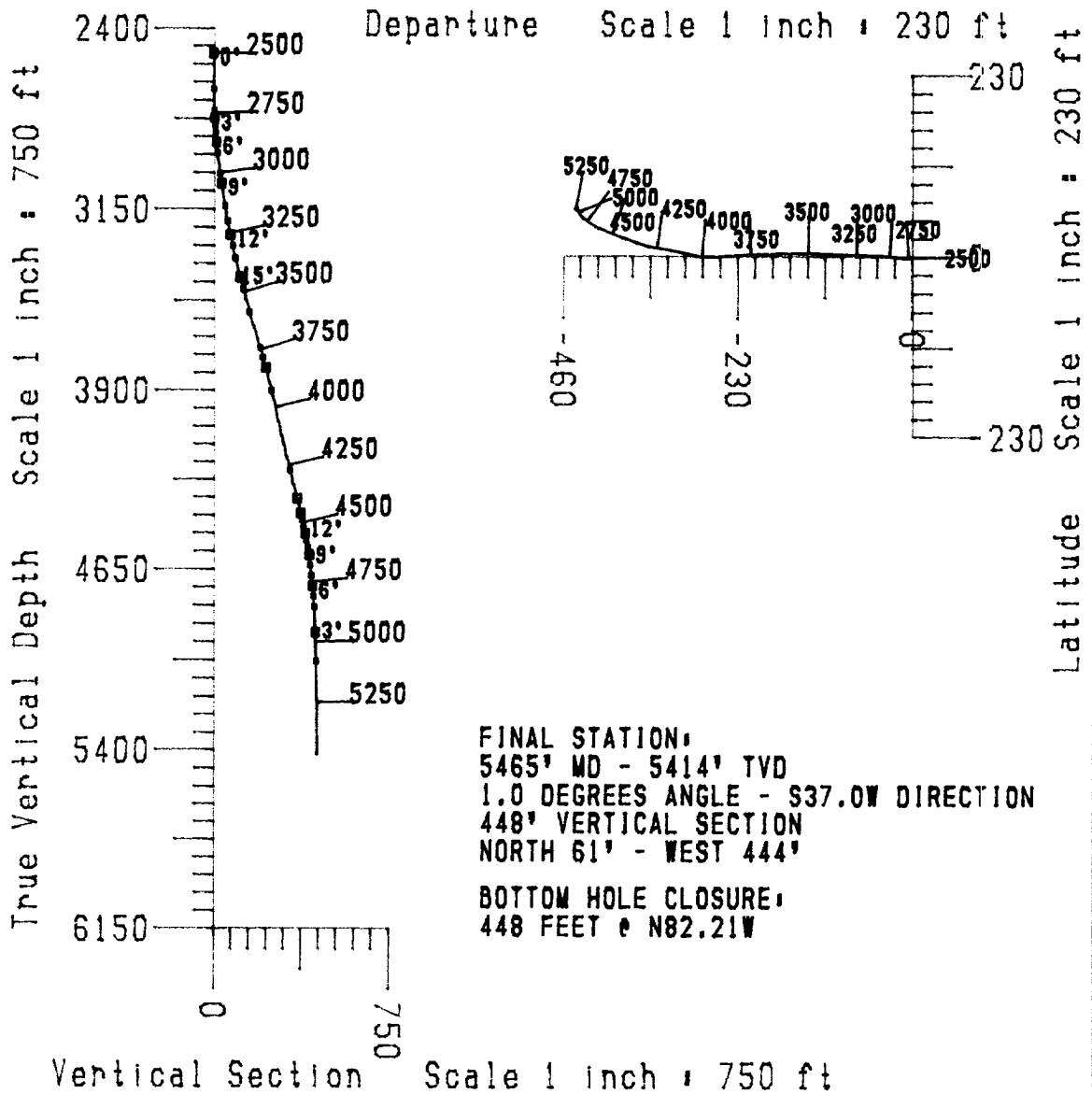
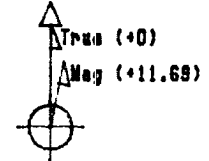
WELL PROPOSAL

Sec	MD	TYD	VS	INC	DIR	LAT	DEP	TST
1	0.0	0.0	0.0	0.0	N80.00E	0.0	0.0	



SCIENTIFIC DRILLING INTERNATIONAL, INC.
FOR
SIRGO BROTHERS ENERGY CORPORATION
NW CHA CHA UNIT #48
SAN JUAN COUNTY, NEW MEXICO
IN
SAN JUAN COUNTY, NEW MEXICO
SHL-SEC.27.T28N.R14W-2087'FWL - 1384'FWL
SHL-SEC27.T28N.R14W-2008'FWL - 850'FWL

ALL DIRECTIONS REL.
TO LOCAL NORTH



PLANE OF VERT SECTn N03.527

PLOT DATE 08-30-1994

WELL PROPOSAL

Sec	MD	TYD	VS	INC	DIR	LAT	DEP	TGT
1	0.0	0.0	0.0	0.0	N00.00E	0.0	0.0	

TARGET DETAILS

No	TYD	Lat	Dep

SCIENTIFIC DRILLING INTERNATIONAL INC.

Client : SIRGO BROTHERS ENERGY CORPORATION
Well Name : CHA CHA UNIT #48
Location : SAN JUAN COUNTY, NEW MEXICO
SHL : SEC.27,T29N,R14W - 2067'FNL - 1394'FWL
PBHL : SEC.27,T29N,R14W - 1985'FNL - 672'FWL
ACTUAL BHL : SEC.27,T29N,R14W - 2006'FNL - 950'FWL
Height Of WELLSITE Datum Above Field Datum : 0.00 ft

Date 8/27/1994
Filename : SIRGO48S
No Interpolation

Plane of Vertical Section : N83.52°W
Latitude & Departure relate to : WELLSITE CENTRE
Vertical Section Originates at : WELLSITE CENTRE
Slot Coordinates : Lat 0.000ft
: Dep 0.000ft
Directions Referenced To : GRID NORTH
Depth at Drill Floor : 0.00 ft

Calculation Method : MINIMUM CURVATURE

Casing Points
NO DATA

Points of Interest
NO DATA

Magnetic Declination : +11.70°
WELLSITE North : +0° 0' 0'' (T)
Grid convergence : +0.0000°

COMPLETION REPORT

NOTE: SURVEY DEPTH AT 5465' MD IS A PROJECTION TO TD

SCIENTIFIC DRILLING INTERNATIONAL INC.

Client : SIRGO BROTHERS ENERGY CORPORATION
 Well Name : CHA CHA UNIT #48
 Location : SAN JUAN COUNTY, NEW MEXICO
 SHL : SEC.27,T29N,R14W - 2067'FNL - 1394'FWL
 PBHL : SEC.27,T29N,R14W - 1985'FNL - 672'FWL
 ACTUAL BHL : SEC.27,T29N,R14W - 2006'FNL - 950'FWL
 Height Of WELLSITE Datum Above Field Datum 0.00 ft

Page 1 of 2
 Date 8/27/1994
 Filename : SIRGO48S

No Interpolation

MD	INC	DIR	TVD	LAT	DEP	VS	D'LEG	BUILD	TURN
ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
2500	0.0	N 0.00°E	2500	0	0	0	0.0	0.0	0.0
2650	1.0	S74.00°W	2650	-0	-1	1	0.7	0.7	-70.7
2723	1.5	S82.00°W	2723	-1	-3	3	0.7	0.7	11.0
2785	3.5	S89.00°W	2785	-1	-6	5	3.3	3.2	11.3
2847	5.5	N88.00°W	2847	-1	-10	10	3.2	3.2	4.8
2940	7.5	N81.00°W	2939	0	-21	21	2.3	2.2	7.5
3002	8.0	N86.00°W	3001	1	-29	29	1.4	0.8	-8.1
3063	9.5	N83.00°W	3061	2	-38	38	2.6	2.5	4.9
3126	9.8	S89.00°W	3123	3	-49	49	2.2	0.4	-12.7
3188	10.8	N88.00°W	3184	3	-60	60	1.8	1.6	4.8
3249	11.8	N88.00°W	3244	3	-72	72	1.6	1.6	0.0
3342	13.8	N88.00°W	3334	4	-92	92	2.2	2.2	0.0
3437	15.0	N88.00°W	3427	5	-116	116	1.3	1.3	0.0
3498	16.3	N88.00°W	3485	5	-132	132	2.0	2.0	0.0
3529	16.8	S89.00°W	3515	5	-141	141	3.2	1.6	-9.7
3641	17.3	S87.00°W	3622	4	-174	173	0.7	0.4	-1.8
3734	17.3	S88.00°W	3711	3	-201	200	0.3	0.0	1.1
3828	15.0	S87.00°W	3801	2	-227	226	2.4	-2.4	-1.1
3890	14.8	S85.00°W	3861	1	-243	242	0.9	-0.4	-3.2
3952	13.5	S87.00°W	3921	-0	-258	257	2.2	-2.0	3.2
4056	13.0	N81.00°W	4023	1	-282	280	2.7	-0.5	11.5
4118	13.5	N75.00°W	4083	4	-296	295	2.4	0.8	9.7
4148	13.5	N78.00°W	4112	6	-303	301	2.3	0.0	-10.0
4210	13.5	N80.00°W	4172	8	-317	316	0.8	0.0	-3.2
4272	14.0	N82.00°W	4233	11	-332	331	1.1	0.8	-3.2
4333	14.8	N78.00°W	4292	13	-346	346	2.0	1.2	6.6
4396	15.0	N70.00°W	4353	18	-362	362	3.3	0.4	12.7
4459	15.0	N73.00°W	4413	23	-377	378	1.2	0.0	-4.8
4636	9.0	N64.00°W	4586	36	-412	413	3.5	-3.4	5.1
4854	4.0	N48.00°W	4803	48	-433	435	2.4	-2.3	7.3
5040	2.3	N20.00°W	4989	56	-439	442	1.2	-0.9	15.1
5228	1.3	N38.00°W	5177	61	-441	445	0.6	-0.5	-9.6
5415	1.0	S37.00°W	5364	61	-444	448	1.0	-0.1	-56.1
5465	1.0	S37.00°W	5414	61	-444	448	0.0	0.0	0.0

SCIENTIFIC DRILLING INTERNATIONAL INC.

Client : SIRGO BROTHERS ENERGY CORPORATION
Well Name : CHA CHA UNIT #48
Location : SAN JUAN COUNTY, NEW MEXICO
SHL : SEC.27,T29N,R14W - 2067'FNL - 1394'FWL
PBHL : SEC.27,T29N,R14W - 1985'FNL - 672'FWL
ACTUAL BHL : SEC.27,T29N,R14W - 2006'FNL - 950'FWL
Height Of WELLSITE Datum Above Field Datum 0.00 ft

Page 2 of 2
Date 8/27/1994
Filename : SIRGO48S

No Interpolation

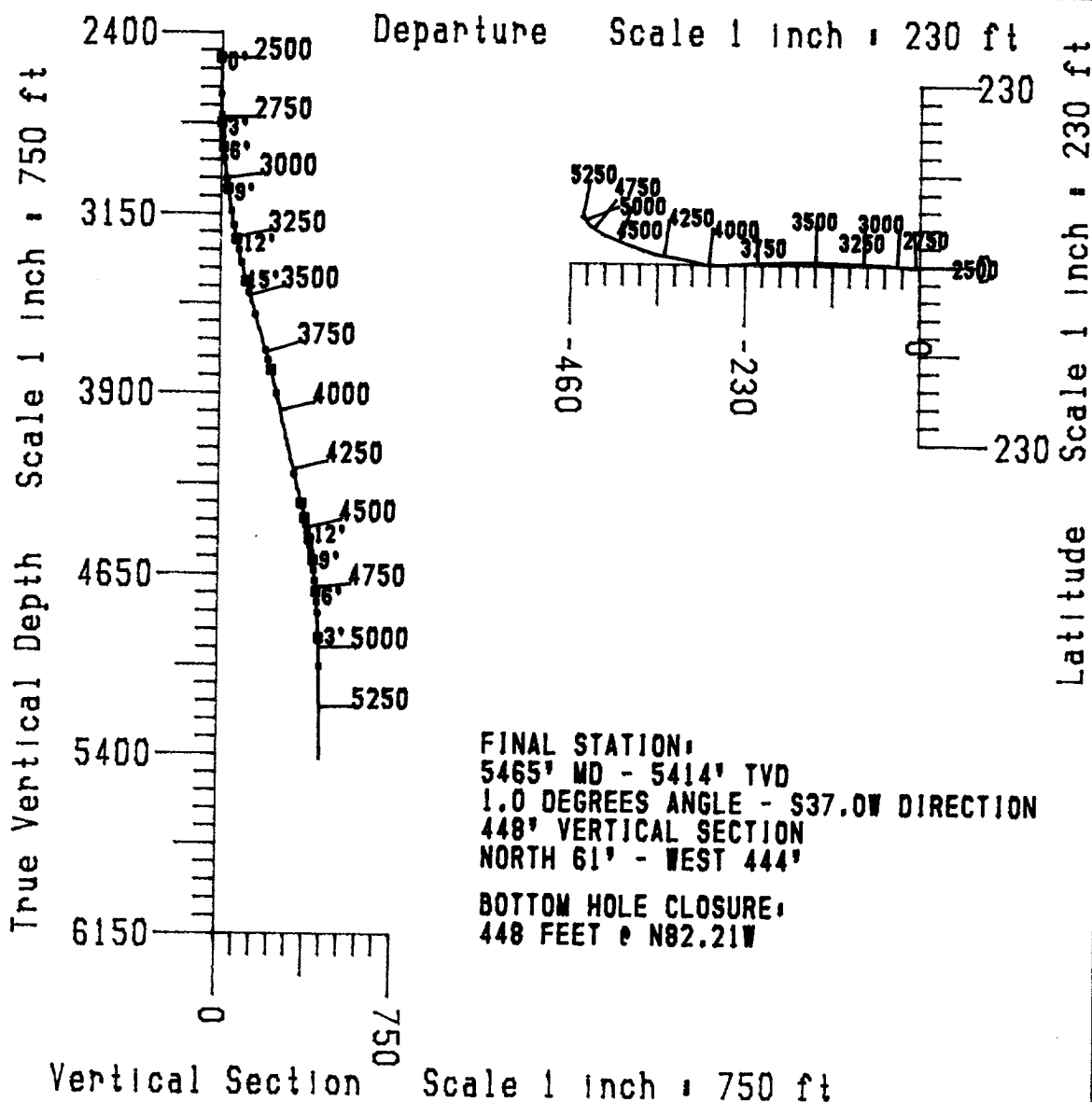
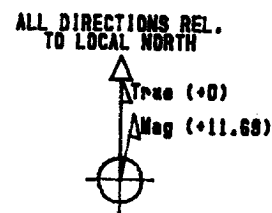
Origin of Bottom Hole Closure WELLSITE CENTRE
Bottom Hole Closure 448 ft N82.21°W

COMPLETION REPORT

NOTE: SURVEY DEPTH AT 5465' MD IS A PROJECTION TO TD



SCIENTIFIC DRILLING INTERNATIONAL, INC.
FOR
SIRGO BROTHERS ENERGY CORPORATION
HW CMA CMA UNIT 848
SAN JUAN COUNTY, NEW MEXICO
IN
SAN JUAN COUNTY, NEW MEXICO
NML-SEC.27.T20N.R14E-2007°FRL - 1304°FRL
NML-SEC27.T20N.R14E-2006°FRL - 850°FRL



PLANE OF VERT SECTn N03.52W

PLOT DATE 08-30-1994

TARGET DETAILS

No TYD Lat Dep

WELL PROPOSAL

Sec	MD	TYD	YS	INC	DIR	LAT	DEP	TGT
1	0.0	0.0	0.0	0.0	N00.00E	0.0	0.0	

SCIENTIFIC DRILLING INTERNATIONAL INC.

CASPER, WYOMING

SIRGO BROTHERS ENERGY CORPORATION

Well Name : CHA CHA UNIT #48
Location : SAN JUAN COUNTY, NEW MEXICO
SHL : SEC.27,T29N,R14W - 2067'FNL - 1394'FWL
PBHL : SEC.27,T29N,R14W - 1985'FNL - 672'FWL
ACTUAL BHL : SEC.27,T29N,R14W - 2006'FNL - 950'FWL
Date Surveyed : 8/27/1994
Job No. : 41D0894069
Survey Performed By : BUTCH JUDGE and DEE BAILEY

RECEIVED
JUN - 5 1995

OIL CON. DIV.
DIST. 3

This survey is correct to the best of my knowledge
and is supported by actual field data.

...*Dee Bailey*..... COMPANY REPRESENTATIVE