

SMITH SMITH INTERNATIONAL, INC.

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26-22-4

November 24, 1992

State of New Mexico
District Office
1000 Rio Brazos Road
Aztec, NM 87410

RECEIVED
NOV 30 1992
OIL CON. DIV.
DIST. 3

Re: Nassau Resources
Carracas Unit PC26B-13
Directional Surveys

Attached are four copies of the Final Survey Report and Comparison Plot for Nassau Resource's Carracus Unit PC26B-13 in Rio Arriba County, New Mexico.

This information is being sent to you at their request. If you have any questions or need additional information, please contact us.

Sincerely,

Terry Kerr

Terry Kerr
Applications Coordinator

Enclosures

NASSAU RESOURCES
 CARRACAS UNIT PC26B-13
 SEC 26-T32N-R04W
 RIO ARriba COUNTY, NEW MEXICO

File Name: NASSAU1S

RECORD OF SURVEY
 Calculated by Smith International's CADDs System

Radius of Curvature Method
 All Angles are Decimal
 Vertical Section Plane: 99.37 Degs

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T AZIMUTH (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	AZIMUTH (DEG)	DOGLEG SEVERITY (DEG/100')
0.00	0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00	0.00	0.00
475.00	.75	300.00	475.00	474.99	1.55 N	2.69 W	-2.91	3.11	300.00	.16
505.00	.75	340.00	30.00	504.98	1.85 N	2.94 W	-3.20	3.47	302.17	1.71
561.00	1.75	100.00	56.00	560.97	2.62 N	2.29 W	-2.69	3.48	318.88	3.97
592.00	3.00	100.00	31.00	591.94	2.40 N	1.03 W	-1.40	2.61	336.87	4.03
653.00	5.00	105.00	61.00	652.79	1.48 N	3.13 E	2.85	3.46	64.69	3.33
715.00	7.00	103.00	62.00	714.45	.09 S	9.42 E	9.30	9.42	90.54	3.24
746.00	7.00	107.00	31.00	745.22	1.07 S	13.06 E	13.06	13.11	94.66	1.57
777.00	8.00	106.00	31.00	775.95	2.22 S	16.94 E	17.08	17.09	97.45	3.25
806.00	9.00	99.00	29.00	804.63	3.14 S	21.13 E	21.36	21.36	98.46	4.96
880.00	10.25	99.00	74.00	877.59	5.08 S	33.35 E	33.73	33.73	98.66	1.69
969.00	11.00	100.00	89.00	965.06	7.79 S	49.53 E	50.14	50.14	98.93	.87
1125.00	11.00	101.00	156.00	1118.20	13.21 S	78.80 E	79.90	79.90	99.52	.12
1188.00	11.00	101.00	63.00	1180.04	15.50 S	90.60 E	91.91	91.91	99.71	0.00
1332.00	9.00	106.00	144.00	1321.84	21.34 S	114.90 E	116.84	116.87	100.52	1.51
1447.00	7.00	108.00	115.00	1435.72	26.02 S	130.21 E	132.71	132.78	101.30	1.76
1601.00	6.00	112.00	154.00	1588.73	31.98 S	146.59 E	149.84	150.03	102.31	.71
1726.00	6.00	107.00	125.00	1713.04	36.34 S	158.90 E	162.69	163.00	102.88	.42
1916.00	5.00	115.00	190.00	1902.17	42.86 S	175.89 E	180.52	181.03	103.70	.66

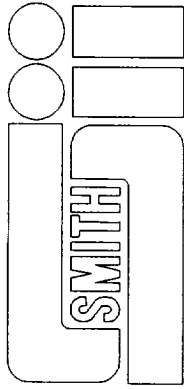
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CARRACAS UNIT PC26B-13

SEC 26-T32N-R04W
RIO ARriba COUNTY, NEW MEXICO

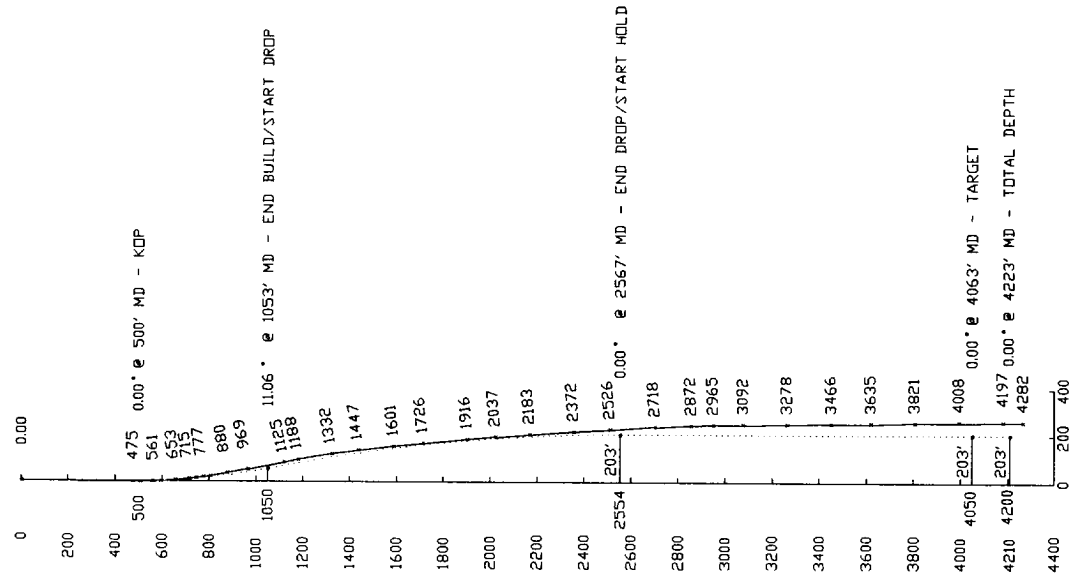
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2037.00	5.00	115.00	121.00	2022.71	47.32 S	185.44 E	190.67	191.38	104.31	0.00
2183.00	4.00	120.00	146.00	2168.25	52.60 S	195.60 E	201.56	202.55	105.05	.74
2372.00	4.00	125.00	189.00	2356.79	59.69 S	206.72 E	213.68	215.16	106.11	.18
2526.00	4.00	120.00	154.00	2510.42	65.46 S	215.77 E	223.55	225.48	106.88	.23
2718.00	3.50	132.00	192.00	2702.01	72.82 S	225.91 E	234.76	237.36	107.87	.48
2872.00	2.00	135.00	154.00	2855.82	77.91 S	231.27 E	240.87	244.04	108.62	.98
2965.00	1.50	137.00	93.00	2948.78	79.95 S	233.25 E	243.15	246.57	108.92	.54
3092.00	1.00	148.00	127.00	3075.75	82.15 S	234.93 E	245.17	248.88	109.27	.43
3278.00	.75	153.00	186.00	3261.73	84.62 S	236.33 E	246.95	251.02	109.70	.14
3466.00	1.00	150.00	188.00	3449.71	87.14 S	237.70 E	248.71	253.17	110.13	.14
3635.00	1.00	124.00	169.00	3618.68	89.28 S	239.69 E	251.03	255.78	110.43	.27
3821.00	1.25	132.00	186.00	3804.64	91.53 S	242.57 E	254.23	259.26	110.67	.16
4008.00	.50	132.00	187.00	3991.62	93.44 S	244.69 E	256.64	261.92	110.90	.40
4197.00	.50	172.00	189.00	4180.61	94.86 S	245.45 E	257.62	263.14	111.13	.18
4282.00	.50	172.00	85.00	4265.61	95.60 S	245.55 E	257.84	263.50	111.27	0.00

BOTTOM HOLE CLOSURE: 263.50 Feet at 111.27 Degrees

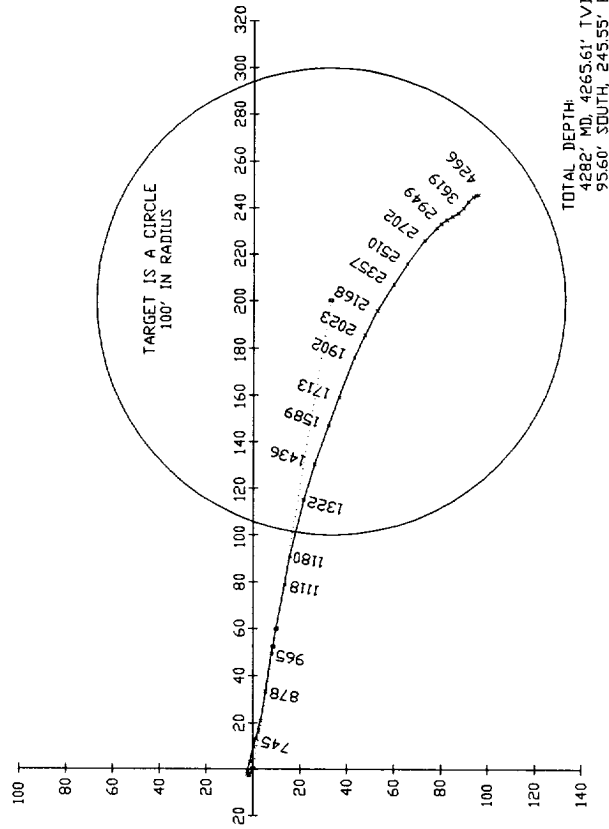
NASSAU RESOURCES CARRACAS UNIT PC26B-13 SEC 26-T32N-R04W RIO ARRIBA COUNTY, NEW MEXICO



VERTICAL PLANE
SCALE: 200 FEET/DIVISION



HORIZONTAL PLANE
SCALE: 20 FEET/DIVISION



VERTICAL SECTION PLANE: S 80.63 E

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475.00	.75	300.00	475.00	474.99	1.55 N	2.69 W	-2.91	3.11	300.00	.16
505.00	.75	340.00	30.00	504.98	1.85 N	2.94 W	-3.20	3.47	302.17	1.71
561.00	1.75	100.00	56.00	560.97	2.62 N	2.29 W	-2.69	3.48	318.88	3.97
592.00	3.00	100.00	31.00	591.94	2.40 N	1.03 W	-1.40	2.61	336.87	4.03
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880.00	10.25	99.00	74.00	877.59	5.08 S	33.35 E	33.73	33.73	98.66	1.69
969.00	11.00	100.00	89.00	965.06	7.79 S	49.53 E	50.14	50.14	98.93	.87
1125.00	11.00	101.00	156.00	1118.20	13.21 S	78.80 E	79.90	79.90	99.52	.12
1188.00	11.00	101.00	63.00	1180.04	15.50 S	90.60 E	91.91	91.91	99.71	0.00
1332.00	9.00	106.00	144.00	1321.84	21.34 S	114.90 E	116.84	116.87	100.52	1.51
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1726.00	6.00	107.00	125.00	1713.04	36.34 S	158.90 E	162.69	163.00	102.88	.42
1916.00	5.00	115.00	190.00	1902.17	42.86 S	175.89 E	180.52	181.03	103.70	.66

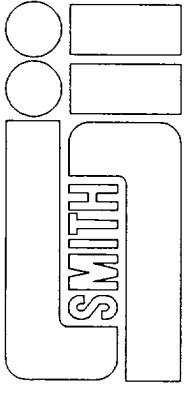
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CARRACAS UNIT PC26B-13

SEC 26-T32N-R04W
RIO ARriba COUNTY, NEW MEXICO

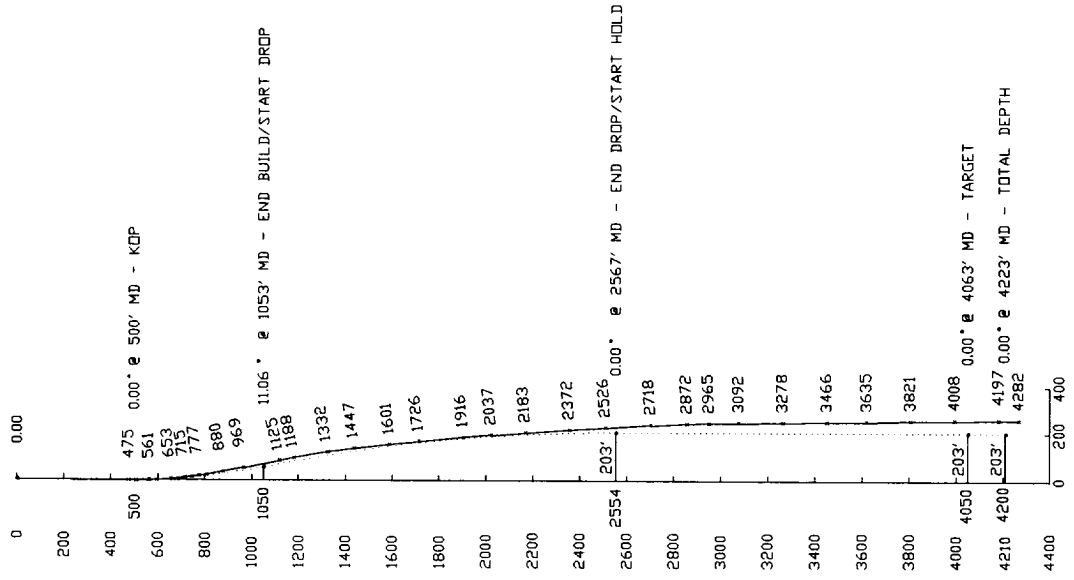
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2372.00	4.00	125.00	189.00	2356.79	59.69 S	206.72 E	213.68	215.16	106.11	.18
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2718.00	3.50	132.00	192.00	2702.01	72.82 S	225.91 E	234.76	237.36	107.87	.48
2872.00	2.00	135.00	154.00	2855.82	77.91 S	231.27 E	240.87	244.04	108.62	.98
2965.00	1.50	137.00	93.00	2948.78	79.95 S	233.25 E	243.15	246.57	108.92	.54
3092.00	1.00	148.00	127.00	3075.75	82.15 S	234.93 E	245.17	248.88	109.27	.43
3278.00	.75	153.00	186.00	3261.73	84.62 S	236.33 E	246.95	251.02	109.70	.14
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3821.00	1.25	132.00	186.00	3804.64	91.53 S	242.57 E	254.23	259.26	110.67	.16
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4197.00	.50	172.00	189.00	4180.61	94.86 S	245.45 E	257.62	263.14	111.13	.18
4282.00	.50	172.00	85.00	4265.61	95.60 S	245.55 E	257.84	263.50	111.27	0.00

BOTTOM HOLE CLOSURE: 263.50 Feet at 111.27 Degrees

NASSAU RESOURCES CARRACAS UNIT PC26B-13 SEC 26-T32N-R04W RIO ARRIBA COUNTY, NEW MEXICO

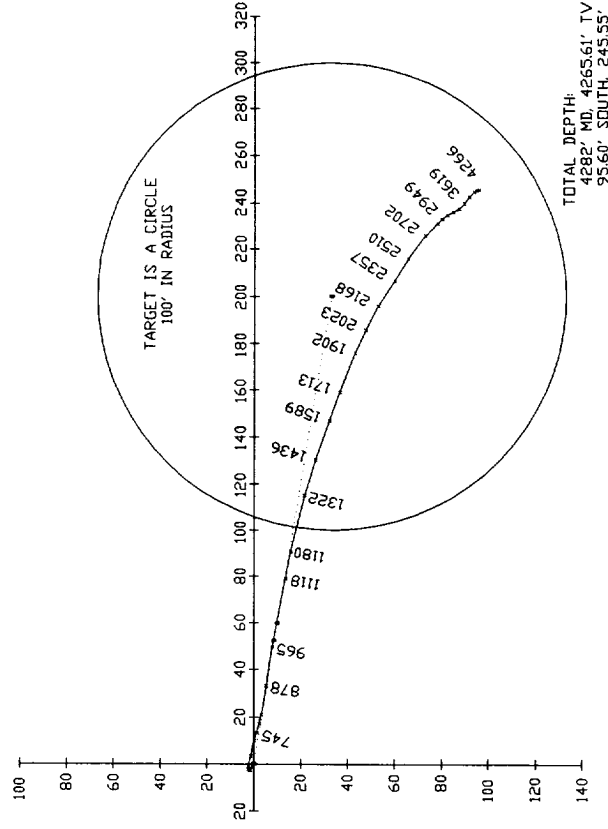


VERTICAL PLANE
SCALE: 200 FEET/DIVISION



VERTICAL SECTION PLANE: S 80.63 E

HORIZONTAL PLANE
SCALE: 20 FEET/DIVISION



TOTAL DEPTH:
4282' MD, 4265.61' TVD
95.60' SOUTH, 245.55' EAST

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 RIO ARriba COUNTY, NEW MEXICO

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 Vertical Section Plane: 99.37 Degr

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T AZIMUTH (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	AZIMUTH (DEG)	DOGLEG SEVERITY (DEG/100')
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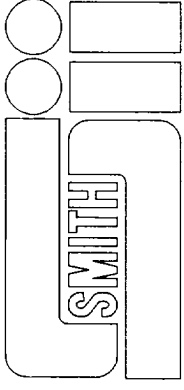
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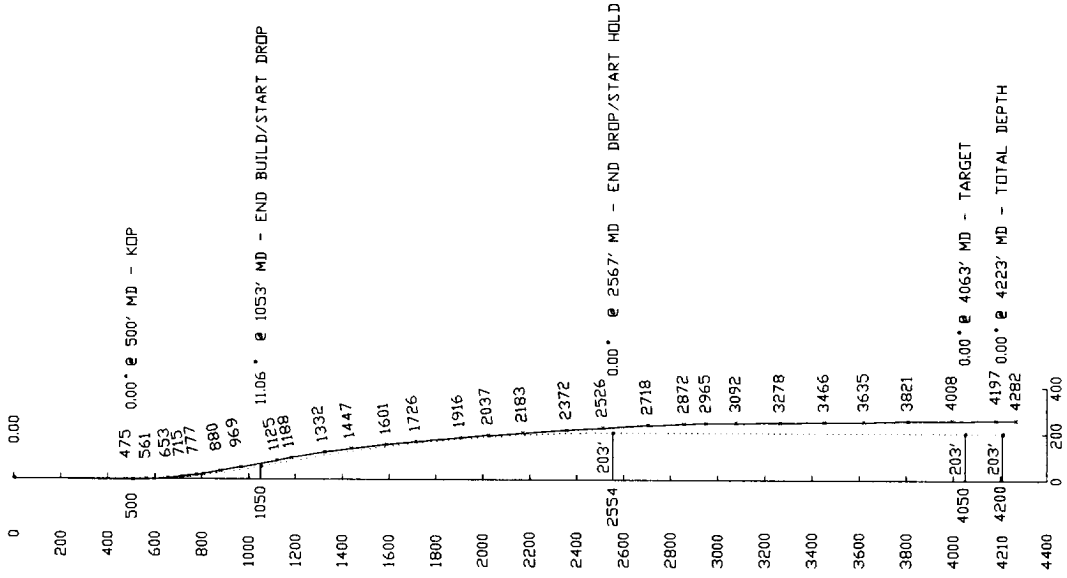
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2718.00	3.50	132.00	192.00	2702.01	72.82 S	225.91 E	234.76	237.36	107.87	.48
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2965.00	1.50	137.00	93.00	2948.78	79.95 S	233.25 E	243.15	246.57	108.92	.54
3092.00	1.00	148.00	127.00	3075.75	82.15 S	234.93 E	245.17	248.88	109.27	.43
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BOTTOM HOLE CLOSURE: 263.50 Feet at 111.27 Degrees

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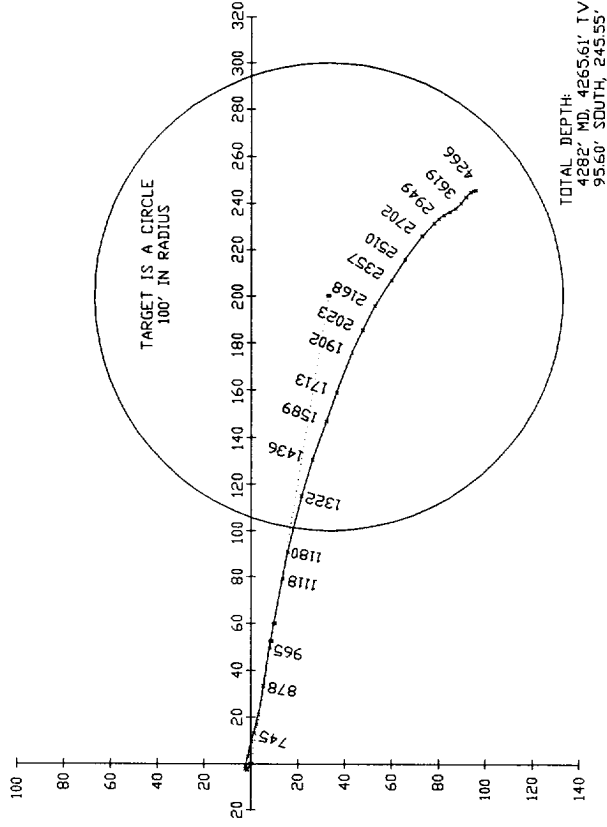


VERTICAL PLANE
SCALE: 200 FEET/DIVISION



VERTICAL SECTION PLANE: S 80.63 E

HORIZONTAL PLANE
SCALE: 20 FEET/DIVISION



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CARRACAS UNIT PC26B-13

SEC 26-T32N-R04W
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MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T AZIMUTH (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)		DOGLEG SEVERITY (DEG/100')
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4008.00	.50	132.00	187.00	3991.62	93.44 S	244.69 E	256.64	261.92	110.90	.40
4197.00	.50	172.00	189.00	4180.61	94.86 S	245.45 E	257.62	263.14	111.13	.18
4282.00	.50	172.00	85.00	4265.61	95.60 S	245.55 E	257.84	263.50	111.27	0.00

BOTTOM HOLE CLOSURE: 263.50 Feet at 111.27 Degrees

NASSAU RESOURCES
 CARRACAS UNIT PC26B-13
 SEC 26-T32N-R04W
 RIO ARriba COUNTY, NEW MEXICO

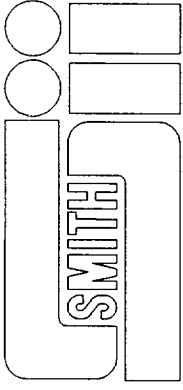
File Name: NASSAU1S

RECORD OF SURVEY
 Calculated by Smith International's CADDs System

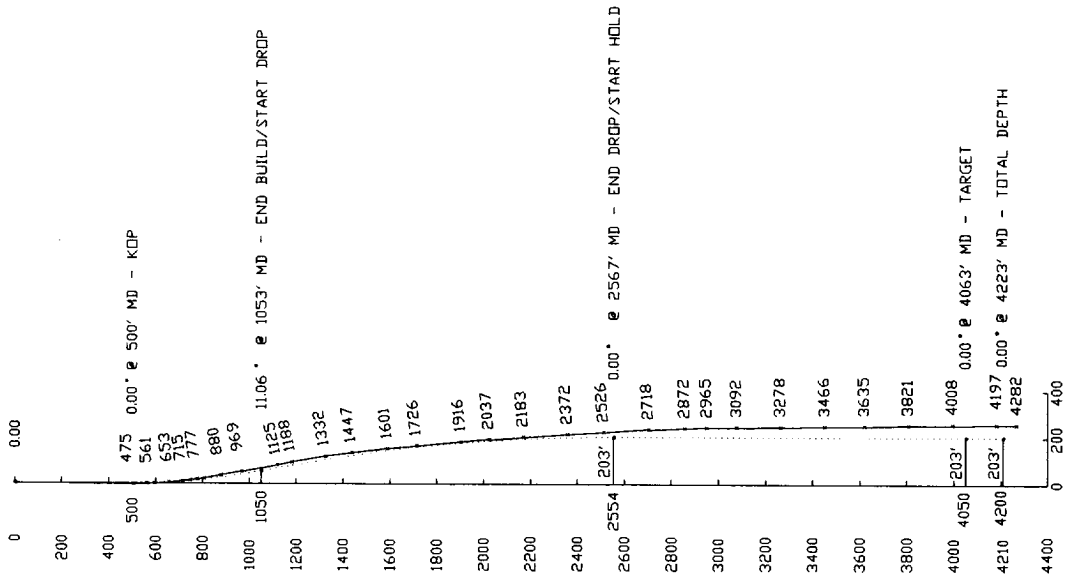
Radius of Curvature Method
 All Angles are Decimal
 Vertical Section Plane: 99.37 Degs

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T AZIMUTH (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE (FT)	AZIMUTH (DEG)	DOGLEG SEVERITY (DEG/100')
0.00	0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00	0.00	0.00
475.00	.75	300.00	475.00	474.99	1.55 N	2.69 W	-2.91	3.11	300.00	.16
505.00	.75	340.00	30.00	504.98	1.85 N	2.94 W	-3.20	3.47	302.17	1.71
561.00	1.75	100.00	56.00	560.97	2.62 N	2.29 W	-2.69	3.48	318.88	3.97
592.00	3.00	100.00	31.00	591.94	2.40 N	1.03 W	-1.40	2.61	336.87	4.03
653.00	5.00	105.00	61.00	652.79	1.48 N	3.13 E	2.85	3.46	64.69	3.33
715.00	7.00	103.00	62.00	714.45	.09 S	9.42 E	9.30	9.42	90.54	3.24
746.00	7.00	107.00	31.00	745.22	1.07 S	13.06 E	13.06	13.11	94.66	1.57
777.00	8.00	106.00	31.00	775.95	2.22 S	16.94 E	17.08	17.09	97.45	3.25
806.00	9.00	99.00	29.00	804.63	3.14 S	21.13 E	21.36	21.36	98.46	4.96
880.00	10.25	99.00	74.00	877.59	5.08 S	33.35 E	33.73	33.73	98.66	1.69
969.00	11.00	100.00	89.00	965.06	7.79 S	49.53 E	50.14	50.14	98.93	.87
1125.00	11.00	101.00	156.00	1118.20	13.21 S	78.80 E	79.90	79.90	99.52	.12
1188.00	11.00	101.00	63.00	1180.04	15.50 S	90.60 E	91.91	91.91	99.71	0.00
1332.00	9.00	106.00	144.00	1321.84	21.34 S	114.90 E	116.84	116.87	100.52	1.51
1447.00	7.00	108.00	115.00	1435.72	26.02 S	130.21 E	132.71	132.78	101.30	1.76
1601.00	6.00	112.00	154.00	1588.73	31.98 S	146.59 E	149.84	150.03	102.31	.71
1726.00	6.00	107.00	125.00	1713.04	36.34 S	158.90 E	162.69	163.00	102.88	.42
1916.00	5.00	115.00	190.00	1902.17	42.86 S	175.89 E	180.52	181.03	103.70	.66

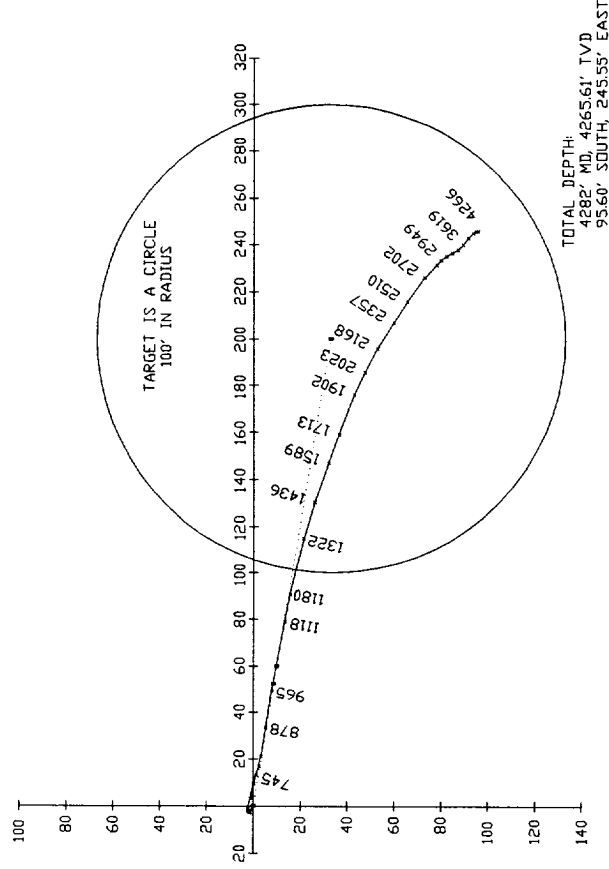
NASSAU RESOURCES CARRACAS UNIT PC26B-13 SEC 26-T32N-R04W RIO ARRIBA COUNTY, NEW MEXICO



VERTICAL PLANE
SCALE: 200 FEET/DIVISION



HORIZONTAL PLANE
SCALE: 20 FEET/DIVISION



VERTICAL SECTION PLANE: S 80.63 E