23 DEC 80

FN-TR-43

SAMPLE TYPE	% RECOVERY	N VALUE †	DEPTH METERS	DEPTH FEET	LITHOLOGY	USCS	SOIL DESCRIPTION	REMARKS	▲(pcf) 80 90 100 110 120 130 140 / ● (%) 5 10 15 20 25 30 35	SIEVE ANALYSIS GR	SA	FI	LL	PI
	100	4 10 11 14 12 8 26	0	0		SM	Interbedded layers of GRAVELLY SAND and SILTY SAND.	continuous SPT (0.0' - 10.5') sample intervals not shown						
	100						GRAVELLY SAND (SP-SM): light brown, fine to coarse, poorly graded, loose, subangular to subrounded, calcareous; some fine to coarse gravel; trace slightly plastic silt.			14	54	32		
	100		3	10		SC-SM, SM				3	53	44	23	5
	100					SP-SM	SILTY SAND (SM, SC-SM): light brown to brown, fine to coarse, poorly graded, loose to dense, subangular to subrounded, calcareous; some non to slightly plastic silt; none to little fine gravel.			45	49	6		
	100		6	20		SM				0	52	48		
	60 80 70					CL	Interbedded layers of SANDY GRAVEL and SANDY CLAY:			0	27	73	41	19
	92		9	30			SANDY GRAVEL (GP): brown, fine to coarse, poorly graded, very dense, angular to subangular, calcareous; trace fine to coarse sand.			1	24	75	39	19
	67 42						SANDY CLAY (CL, CL-ML): light brown to brown, stiff, slightly to medium plastic, calcareous; little to some fine subangular to subrounded sand.							
			12	40		GP								
	87 80		15	50		CL-ML		vertical seams of silty sand in silty clay		0	18	82	26	5
							TOTAL DEPTH 50.5' (15.4m)							
			18	60										
			21	70										
			24	80										
			27	90										
			30	100										
			33	110										

1400 1800 2200 ▲(kg/m³)

EXPLANATION

- FUGRO DRIVE SAMPLE
- BULK SAMPLE
- PITCHER TUBE SAMPLE
- STANDARD PENETRATION TEST SAMPLE
- CORE SAMPLE
- N - STANDARD PENETRATION RESISTANCE
- ▲ - DRY UNIT WEIGHT (ASTM: D-2937-71)
- ● - MOISTURE CONTENT (ASTM: D-2216-71)

BORING DETAILS

ELEVATION	: 2215' (675m)
SURFICIAL GEOLOGIC UNIT	: Tys
DATE DRILLED	: 19-20 October 1980
DRILLING METHOD	: Rotary Wash
HOLE DIAMETER	: 4 7/8" (124mm)
WATER LEVEL	: Not Encountered

FUGRO NATIONAL

LOG OF BORING CE-B-7
OPERATIONAL BASE SITE
COYOTE SPRING VALLEY, NE

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE - BMO

SAMPLE TYPE	% RECOVERY	N VALUE	DEPTH METERS	DEPTH FEET	LITHOLOGY	USCS	SOIL DESCRIPTION	REMARKS	▲(pcf) 80 90 100 110 120 130 140 / ● (%) 5 10 15 20 25 30 35	SIEVE ANALYSIS GR	SA	FI	LL	PI
	67	22	0	0		GM	SANDY GRAVEL, brown to gray, fine to coarse, poorly graded, very dense, angular to subrounded, calcareous; little to some fine to coarse sand; trace slightly plastic silt.			56	25	19		
	67	52												
	67	*				GP								
	NR													
	100	*												
	100	*	3	10										
						GP-GM								
	80		6	20				occasional cobbles throughout	● ▲					
			9	30		GM								
						GM-GC								
	60		12	40		GP-GM								
						GM								
	80		15	50		GP-GM			● ▲					
	80		18	60		ML	SANDY SILT, brown, hard, non to slightly plastic, calcareous; trace to some fine sub-angular to subrounded sand; lens of silty sand (62.0' - 66.0'); lens of gravelly sand (113.0' - 118.5'); interbedded silty sand and clayey sand (118.5' - 132.0').		● ▲ ▲ ● ●	0	29	71		NP
	83					SM			▲ ●	11	52	37		NP
	65		21	70					● ▲	3	20	77		
	93								▲ ● ●	0	2	98		NP
			24	80										
	70								▲ ●	0	13	87		
	100		27	90		ML			▲ ●					
			30	100										
	100								▲ ●					
			33	110				gravel						
						SP-SM								
	100		36	120					▲ ●					
			39	130				trace coarse gravel and cobbles						
			42	140		ML			▲ ●					
	100													
			45	150										
			48	160					▲ ●					
	100						TOTAL DEPTH 162.0' (49.4m)							
			51	170										

1400 1800 2200
▲(kg/m³)

EXPLANATION

- FUGRO DRIVE SAMPLE
- BULK SAMPLE
- PITCHER TUBE SAMPLE
- STANDARD PENETRATION TEST SAMPLE
- CORE SAMPLE

N – STANDARD PENETRATION RESISTANCE

▲ – DRY UNIT WEIGHT (ASTM: D-2937-71)

● – MOISTURE CONTENT (ASTM: D-2216-71)

NR – NO RECOVERY

* – N VALUE > 100

† – TEST LOCATION APPROXIMATELY 5 FEET FROM BORING

BORING DETAILS

ELEVATION	: 2500' (762m)
SURFICIAL GEOLOGIC UNIT	: A5y/A5i
DATE DRILLED	: 16-17 October 1980
DRILLING METHOD	: Rotary Wash
HOLE DIAMETER	: 4 7/8" (124mm)
WATER LEVEL	: Not Encountered

LOG OF BORING CE-B-2
OPERATIONAL BASE SITE
COYOTE SPRING VALLEY, NEVADA

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE – BMO

FIGURE II-2-2

FUGRO NATIONAL, INC.

SAMPLE TYPE	% RECOVERY	N VALUE	DEPTH METERS	DEPTH FEET	LITHOLOGY	USCS	SOIL DESCRIPTION	REMARKS	▲(pcf) 80 90 100 110 120 130 140 / ● (%) 5 10 15 20 25 30 35	SIEVE ANALYSIS GR	SA	FI	LL	PI
	67	22	0	0		GM	SANDY GRAVEL, brown to gray, fine to coarse, poorly graded, very dense, angular to subrounded, calcareous; little to some fine to coarse sand; trace slightly plastic silt.			56	25	19		
	67	52												
	67	*				GP								
	NR													
	100	*												
	100	*	3	10										
						GP-GM								
	80		6	20				occasional cobbles throughout	● ▲					
			9	30		GM								
			12	40		GM-GC								
	60					GP-GM								
						GM								
	80		15	50		GP-GM			● ▲					
	80		18	60		ML	SANDY SILT, brown, hard, non to slightly plastic, calcareous; trace to some fine sub-angular to subrounded sand; lens of silty sand (62.0' - 66.0'); lens of gravelly sand (113.0' - 118.5'); interbedded silty sand and clayey sand (118.5' - 132.0').		● ▲	0	29	71		NP
	83					SM			▲ ●	11	52	37		NP
	65		21	70					● ▲	3	20	77		
	93								▲ ● ●	0	2	98		NP
			24	80										
	70								▲ ●	0	13	87		
	100		27	90		ML			▲ ●					
			30	100										
	100								▲ ●					
			33	110				gravel						
						SP-SM								
	100		36	120					▲ ●					
			39	130				trace coarse gravel and cobbles						
	100		42	140		ML			▲ ●					
			45	150										
	100		48	160					▲ ●					
			51	170			TOTAL DEPTH 162.0' (49.4m)							

1400 1800 2200
▲(kg/m³)

EXPLANATION

- FUGRO DRIVE SAMPLE
- BULK SAMPLE
- PITCHER TUBE SAMPLE
- STANDARD PENETRATION TEST SAMPLE
- CORE SAMPLE

N – STANDARD PENETRATION RESISTANCE

▲ – DRY UNIT WEIGHT (ASTM: D-2937-71)

● – MOISTURE CONTENT (ASTM: D-2216-71)

NR – NO RECOVERY

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BORING DETAILS

ELEVATION	: 2500' (762m)
SURFICIAL GEOLOGIC UNIT	: A5y/A5i
DATE DRILLED	: 16-17 October 1980
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HOLE DIAMETER	: 4 7/8" (124mm)
WATER LEVEL	: Not Encountered

FUGRO NATIONAL, INC.

MX SITING INVESTIGATION
DEPARTMENT OF THE AIR FORCE – BMO

LOG OF BORING CE-B-2
OPERATIONAL BASE SITE
COYOTE SPRING VALLEY, NEVADA

FIGURE II-2-2