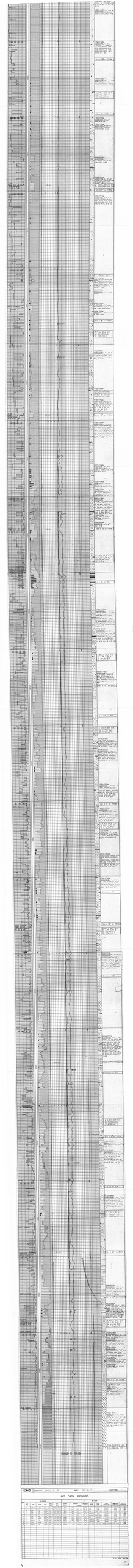

-RND,MOD SRT,ABNT PYR,M GR PYR NOD,PYR XL,PYR CMT IN PT,TR MICA

1209–1250M
SANDSTONE,A/A,BCM M-GRAN,PRED C-VC,SUB ANG-SUBRND,DECR PYR

1250–1300M
SANDSTONE,LT GY, UNCONS, TRNSL-WH GR,M-VC,OCC F,MOD SRT,ANG-SBRND,OCC QTZ OVGTHS,TR PYR NODS,ABDT PYR CMT, G-EX VIS POR

DEV = 1¾° AT 1275M

1300–1350M
SANDSTONE,A/A W/ MNR COAL,BLK,MOD HD, BRIT,MASS,RES LUST, IRREG-SUBCONCH FRACT

W 9·2,V 46,F 12·8
FC 2,PV 7,YP 24
SD ½,PH 9·5
CL 9·8K,SOL 4

C = 3U AT 46V

1350–1430M
SANDSTONE,A/A,W/ OCC TR MICA

1360–1404M
CLAYSTONE,M BRN-M BRN GY,SFT,MASS-SUBFIS,NON CALC

1404–1430M
CLAYSTONE,M BRN-M GY BRN,V SFT,MASS, STKY,SLI CALC

1430–1454M
SANDSTONE,LT GY,W/ TRNSL-WH GR,F-VC,DOM M-C,MOD SRT,ANG-SBRND BCM V ANG-ANG W/ DEPTH,TR-ABDT PYR TR MICA,G-EX VIS POR

DEV = ½° AT 1441M

1454–1572M
SANDSTONE,QTZ,CLR-TRNSL,UNCONS,M-VC, PRED C-VC,OCC GRAN, ANG-SUBANG,OCC SUB RND,TR PYR,TR MICA

C = 8U AT 42V

1562–1572M
COAL,BLK,FIRM-HD,SL BRIT,BLKY,SUBCONCH FRAC,DULL-SUBVIT,GRDG
CLAYSTONE,BRN-DK BRN, FIRM,BLKY-SUBFIS, CARB-V CARB

1572–1650M
SANDSTONE,GEN A/A,M-VC,OCC F

1595–1810M
CLAYSTONE,A/A ALSO V LT-LT GY BRN,V SFT FRM,DISP,NON CALC

FROM 1600M
AMBER,OCC TR,SFT,LT-M BRN,TRNSL

DEV = ¾° AT 1619M

W 9·3,V 37,F 7·2
FC 2,PV 8,YP 13
SD NIL,PH 10·0
CL 8·2K,SOL 4

1650–1720M
SANDSTONE,V LT GY W/ CL-FROST GR,UNCONS, F-C,OCC VC,DOM ANG-SUBRND,OCC V ANG,TR PYR,RR MICA

1705–1830M
COAL,BLK,FRM-MOD HD, BLKY,OCC SUBCONCH FRAC,RES-SUBVIT LUST W/ MOT GN YEL NAT FLOR,NO CUT FLOR

1720–1750M
SANDSTONE,GEN A/A, ABNT PYR,G TR MICA

W 9·3,V 43,F 6·2
FC 2,PV 9,YP 10,
SD NIL,PH 9·5,
CL 8K,SOL 6

DEV = 1½° AT 1742M

1750–1840M
SANDSTONE,QTZ,CLR-TRNSL,UNCONS,M-VC, ANG-SUBANG,RR SUBRND, MOD SRT,RR CONSOL, INCR TR-G TR W/DEPTH, LT GY,FRI-FIRM,VF-M, OCC C-VC,SL CALC CMT, TR FLD,TR MICA,TR COAL STRG,G TR PYR, FR VIS POR

1810–1840M
CLAYSTONE,DK BRN, FIRM,BLKY-SUBFIS, CARB-V CARB,OCC COAL LAM,OCC SLTY

1830–1840M
COAL,BLK,FIRM-HD, BLKY,OCC SUBCONCH FRAC,DULL-SUBVIT,CLY IN PT

1840–2000M
CLAYSTONE,A/A,W/LT-DK GY,GY BRN,SFT-FIRM,AMOR-SUBFIS,NON CALC,DISP IN PT

1840–1880M
SANDSTONE,V LT GY W/ CLR-WH GR,UNCONS,VF-C,ANG-SUBRND,V ANG IN PT,MOD SRT,TR PYR,OCC TR PYR,ALSO LT GY,MOD HD,VF-OCC F,MOD-V SRT,ANG-SUBRND,SIL CMT,MNR CALC & DOL CMT,TR CARB MAT,P VIS POR

1860–1870M
COAL,BRN BLK-BLK, FRM-MOD HD,BLKY, ETHY-RES

1880–2010M
SANDSTONE,A/A,W/ ABDT PYR

DEV = 1½° AT 1893M

W 9·3,V 44,F 6·5,
FC 1,PV 7,YP 9,
SD NIL,PH 9·5,
CL 8K,SOL 6

C = 5U AT 39V

2000–2350M
CLAYSTONE,LT BRN-LT BRN GY,DOM V SFT,OCC FIRM,MASS,OCC SUBFIS NON CALC,SLTY,OCC GRDG TO
SILTSTONE,LT BRN,V SFT,V ARG,SL SDY,SL-V CARB,OCC INTLAM W/
COAL,BLK,FRM-MOD HD, BLKY,OCC CONCH FRAC, DULL-RES

2010–2078M
SANDSTONE,LT GY, UNCONS,CLR-FROS GR, VF-C,DOM F-M,MOD SRT, OCC TR PYR,W/ MNR
SANDSTONE,WH,FRI,VF-F,OCC M,ANG-SBANG, V ARG,MNR SIL CMT, TR PYR CMT,P VIS POR

W 9·3,V 42,F 6·0
FC 1,PV 7,YP 9
SD NIL,PH 9·0
CL 8K,SOL 6

2078–2180M
SANDSTONE,LT GY,W/ CLR-TRNSL GR,M-VC BCM VF-VC,DOM F-M W/ DEPTH,ANG-SBANG OCC SBRND,P-MOD SRT, TR PYR,OCC TR CARB MAT

DEV = 1½° AT 2092M

C = 10U AT 46V

W 9·4,V 48,F 6·6
FC 2,PV 8,YP 9
SD NIL,PH 9·5
CL 8·75K,SOL 8

2172–2184M
COAL,BRN BLK-BLK, FIRM-HD,BLKY-SUBFIS, OCC BRIT,OCC SUBCONCH FRAC,DULL-SUBVIT,CLY IN PT,SLTY LAM IN PT

2180–2230M
SANDSTONE,QTZ,CLR-TRNSL,OCC MKY,M-VC, PRED M,OCC F,ANG-SUBANG,OCC SUBRND, BCM PRED SUBANG,P-MOD SRT,TR PYR,TR MICA,RR-G TR CONSOL

2230–2260M
SANDSTONE,A/A,W/G TR -20% CONSOL,LT GY, CRM-PK,FRI-HD,F-C, OCC VF,P-MOD SRT,SIL CMT,SL DOL,TR FLD,TR MICA,G TR PYR,TR CARB SPEC,RR CARB STRG,P VIS POR

DEV = 1° AT 2264M

2260–2289M
SANDSTONE,WH,LT GY-LT BRN,FRI-MOD HD, VF-M,OCC C-VC, SBANG-SBRND,P SRT,SL-V ARG,SIL CMT,TR DOL CMT,TR CARB MAT,OCC THN COAL LAM,SLTY IN PT,V P VIS POR

W 9·3,V 44,F 6·2
FC 2,PV 7,YP 10
SD NIL,PH 10·0
CL 9·1K,SOL 7

2289–2325M
SANDSTONE,A/A,ALSO UNCONS W/ CLR-TRNSL GR,F-VC,DOM M-C,ANG-SUBANG,OCC SBRND,TR MICA

2325–2560M
SANDSTONE,UNCONS A/A, PRED C-VC,BCM M-C, W/
SANDSTONE,LT CRM BRN, FRI-SL FIRM,PRED F, SUBANG-SUBRND,W SRT, SIL CMT,V SL DOL,TR MICA,VP VIS POR

2350–2700M
CLAYSTONE,LT-DK GY, LT BRN GY,M-DK BRN, SFT-FIRM,AMOR-BLKY, OCC SUBFIS,NON CALC, TR-V CARB W/COAL LAM, GRDG SLTST-VF SS

C = 6U AT 41V

DEV = 2½° AT 2414M

W 9·3,V 44,F 5·7
FC 2,PV 7,YP 8
SD NIL,PH 9·5
CL 8·9K,SOL 7

2448–2452M
SANDSTONE,LT GY-CRM, FRI-MOD HD,VF-M,ANG-SUBANG,MOD SRT,SIL CMT,TR ARG,SL TR DOL, TR MICA,P VIS POR,TR DK BRN STN,TR-5% DULL YEL FLOR,SLO STRMG-SLO BLMG DULL LT YEL FLOR CUT,NO NATURAL CUT COL,FR SHOW

C = 9U AT 39V

2560–2770M
SANDSTONE,WH-LT YEL BRN,V LT GY,VF-F OCC M,SBANG-SBRND,SL-MOD ARG,SIL CMT,TR CALC & DOL CMT,TR CARB MAT,OCC COAL LAM,TR MICA,FIRM-OCC MOD HD,ALSO UNCONS, CL-WH,VF-C,ANG-SBRND,P SRT,W/ TR V DULL YEL NAT FLOR V SLO-LO STRM CUT FLOR

DEV = 4° AT 2596M

C = 7U AT 40V

W 9·3,V 39,F 5·0
FC 2,PV 8,YP 8
SD TR,PH 10·0
CL 8·4K,SOL 7

DEV = 3½° AT 2693M

2700–2720M
COAL,BLK,MOD HD-HD, BRIT,BLKY-OCC SUBFIS, RES-SUBVIT

2700–2890M
CLAYSTONE,M-DK GY, SFT-HD,MASS-SUBFIS, SL-V CARB,OCC COAL LAM,TR MICA,SL-V SLTY GRDG TO
SILTSTONE,M BRN,M-DK GY,FIRM-HD,MASS-SUBFIS,SDY IN PT

C = 9U AT 41V

2770–2895M
SANDSTONE,WH,LT BRN, LT GY,FRI-HD,DOM VF-F,OCC M-VC,SBANG-SBRND,OCC ANG,P-MOD SRT,MNR-COM WH ARG MTX,SIL CMT,TR BIOT, P VIS POR,TR FLOR A/A

W 9·4,V 45,F 5·1
FC 2,PV 9,YP 9
SD 0·5%,PH 9·5
CL 8·4K,SOL 8

DEV = 5½° AT 2845M

2890–2960M
CLAYSTONE,M-DK GY, BRN GY,OCC GRN GY, SFT-HD,MASS-SBFIS, OCC FIS,COM CARB MAT OCC SL CALC,V SDY AND SLTY IN PT

DEV = 4½° AT 2893M

2913–2955M
SANDSTONE,WH,LT BRN-LT GY,FRI-MOD HD,VF-F,OCC M-C,P-MOD SRT, SBANG-RND,ARG MTX, MNR SIL CMT,OCC SL CALC,TR BIOT,OCC TR PYR,TR GRN MIN,ABDT CARB MAT,OCC COAL STRKS,V P VIS POR

W 9·5,V 47,F 4·7
FC 1,PV 9,YP 12
SD NIL,PH 9·5,
CL 7·8K,SOL 9

2950–2980M
SILTSTONE,MED DK BRN, LT-DK GY,MASS,SDY,TR CARB MAT,NON CALC

2955–2970M
SANDSTONE,WH,LT BRN-LT GY,VF-F,OCC M-C, P-V SRT,ANG-SBRND, MOD-V CALC,V P VIS POR

2970–3005M
SANDSTONE,LT GY,LT BRN,CLR-TRNSL GR,OCC W/ ORNG BRN STN, UNCONS-FRI,P-MOD SRT, SBANG-SBRND,NON-SL CALC,OCC TR MICA

2980–3022M
SILTSTONE,GN,SFT-FRM, MASS-SUBFIS,ARG,V/ DK GN SPKS,OCC VF SD

2990–3000M
LIMESTONE,LT GY-LT BRN,HD,BLKY

DEV = 5° AT 3013M

C = 9U AT 47V

3022–3057M
BASALT,DK GN GY-V DK GY,HD-V HD,W/ WH & GN PHENOCRYSTS IN DK GLASS MTX,OCC SUBCONCH FRAC

3057–3104M
BASALT,LT GN GY-LT GN,FRM-MOD HD,MASS, WTHR,SL CALC,W/ COM F-MED RND-IRREG,DK GN & RED BRN INCL BASALT WTHR IN PT TO CLY,LT GY-LT GRN,FRM W/ BRI GRN MIN IN CLY MTX

RUN ELECTRIC LOGS
DIL-MSFL-LLS-GR-SP
LDL-CNL-GR, CST

DRILLERS TD 3104·0M
LOGGERS TD 3107·0M

EXLOG COMPANY: BRIDGE OIL LTD WELL: CHAT No. 1 SHEET NO. 1

BIT DATA RECORD

RUN #	BIT DATA						BIT RUN								
	BIT #	MFR	TYPE	SIZE	IADC CODE	JET SIZES	START DEPTH	DRILLED	HOURS	AVERAGE ROP	WOB	RPM	PUMP PRESSURE	~~SPM~~/GPM	IADC BIT CONDITION
1	1	VAREL	L3A	26"	111	22x22x22	106	162	7	23.1	5	140	2000	1026	2 2 0
2	2	HTC	R1	17½"	111	16x16x16	268	666	16.5	40.0	20	180	2550	800	2 2 1/8
3	3	HTC	J1	12¼"	116	12x12x16	934	507	21	24.1	25	150–170	3100	695	2 7 0
4	4	HTC	J1	12¼"	116	12x12x16	1441	301	16.5	18.2	25–30	150	3100	695	2 4 1/8
5	5	HTC	J2	12¼"	126	14x14x14	1742	151	12	12.6	45–50	140–150	3000	695	8 3 0
6	6	HTC	J22	12¼"	517	15x15x14	1893	521	55.75	9.3	40	60–80	2750	683	4 8 0
7	7	SMITH	F2	12¼"	527	14x14x14	2414	431	69.75	6.2	45–50	60	3200	683	1 4 0
8	8	HTC	JD3	12¼"	137	14x14x15	2845	89	14.5	6.1	30–40	130	3000	683	7 3 0
9	9	SMITH	F2	12¼"	527	14x14x14	2934	170	47.5	3.6	30–45	80–85	3000–3100	661–672	7 7 1/8

EL P/N 18430 MAY 1980