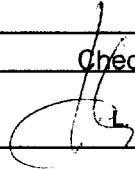


RAPPORTO FINALE

JOLE 1

DOCUMENT N. 01 ORIGINAL

Revision	Issue Date	Prepared	Checked
01	APR. 98	L. DE COL - F. LOTITO	 L. DA RU'

SEZIONE - I

INFORMAZIONI GENERALI

- Ubicazione pozzo
- Dati generali
- Dati generali impianto
- *Profilo pozzo* *PLOT*
- *Diagramma di avanzamento* *PLOT*
- Elenco Contrattiste

SEZIONE - II

GEOLOGIA

- Obiettivo Geologico
- Descrizione delle Formazioni
- Descrizione Litologica
- *Log Manifestazioni* *all. o* *PLOT*
- *SSR - Pixel analisi* *TABELLE*
- *Log Interpretazioni* *all. o* *PLOT*
- *Log geologia* *all. o* *PLOT*
- *Cores/Logs/Plugs/DST* *TAVOLE*
- *Master Log* *all. o* *PLOT*
- Analisi microassorbimenti

SEZIONE - III

DRILLING DATA

- Profilo		<i>TAVOLA</i>
- Elenco delle operazioni giornalieri		
- Riassunto delle fasi di perforazione		
- Batterie di perforazione - Elenco		<i>PLOT</i>
- Bit Record - Bit Cost - Bit Mud Data		<i>TAVOLA</i>
- Testa Pozzo e B.O.P.		<i>TAVOLA</i>
- Dati Fango		<i>TAVOLA</i>
- Casings		<i>TABELLA</i>
- Cementazioni		<i>TABELLA</i>
- Deviazioni		<i>TABELLA</i>
- Log Parametri di perforazione	<i>all. o</i>	<i>PLOT</i>
- Log Idraulica di perforazione	<i>all. o</i>	<i>PLOT</i>
- Problemi di pozzo		

SEZIONE - IV

ANALISI DEI TEMPI

- Analisi Tempi totale		<i>TABELLA</i>
- Analisi dei tempi per Fase		<i>TABELLA</i>

SEZIONE - V

ANALISI DELLE PRESSIONI

- Sigma Log (SCALA 1:10000)	<i>all. o</i>	<i>PLOT</i>
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- | | | |
|-------------------------------------|---------------|-------------|
| - <i>Sigma Log (SCALA 1:1000)</i> | <i>all. o</i> | <i>PLOT</i> |
| - <i>D Exponent (SCALA 1:10000)</i> | <i>all. o</i> | <i>PLOT</i> |
| - <i>D Exponent (SCALA 1:1000)</i> | <i>all. o</i> | <i>PLOT</i> |

SEZIONE - VI

ALLEGATI

- | | |
|--|-------------|
| - <i>Master Log</i> | <i>PLOT</i> |
| - <i>Log Manifestazioni</i> | <i>PLOT</i> |
| - <i>Log Interpretazioni</i> | <i>PLOT</i> |
| - <i>Log Geologia</i> | <i>PLOT</i> |
| - <i>Log Parametri di Perforazione</i> | <i>PLOT</i> |
| - <i>Log Idraulica di Perforazione</i> | <i>PLOT</i> |
| - <i>Sigma Log (SCALA 1:10000)</i> | <i>PLOT</i> |
| - <i>Sigma Log (SCALA 1:1.000)</i> | <i>PLOT</i> |
| - <i>D Exponent (SCALA 1:10000)</i> | <i>PLOT</i> |
| - <i>D Exponent (SCALA 1:1000)</i> | <i>PLOT</i> |
| - <i>Supporti magnetici</i> | |

RAPPORTO FINALE
WELL : JOLE 1

SEZIONE I

INFORMAZIONI GENERALI

- Ubicazione pozzo
- Dati generali
- *Profilo pozzo* *PLOT*
- *Diagramma di avanzamento* *PLOT*
- Dati generali impianto



Well: JOLE 1



SEZIONE - I

- UBICAZIONE POZZO

NOME POZZO	JOLE 1
LONGITUDINE DI PARTENZA	E 13° 55' 35.169
LATITUDINE DI PARTENZA	N 43° 02' 25.021
SIGLA	B.C21.AG
POSIZIONAMENTO	
DISTANZA DALLA COSTA	7 Km
PROFONDITA' DEL FONDO MARINO	15 m



Well: JOLE 1



SEZIONE - I

DATI GENERALI

NOME POZZO	JOLE 1
DISTRETTO	DORT
UBICAZIONE	OFF SHORE ADRIATICO - ZONA B
PERMESSO	B.C21.AG
CLASSIFICAZIONE POZZO	NEW - FIELD WILDCAT
QUOTE TITOLARITA'	51% AGIP 49% EDISON GAS
OPERATORE	AGIP
ALTEZZA TAVOLA ROTARY	27 m
ALTEZZA PRIMA FLANGIA	15.3 m
OBBIETTIVO GEOLOGICO	Livelli sabbiosi intercalati nella serie del Pliocene superiore
NOME DELLA CONTRATTISTA	CROSCO INTEGRATED DRILLING E WELL SERVICES,Ltd
TIPO IMPIANTO	NAT1320 UE-PANON
INIZIO TRASFERIMENTO ED ARRIVO	03/01/98 04/01/98
INIZIO E FINE PERFORAZIONE	08/01/98 26/01/98
PROFONDITA' FINALE	1130 m (perforatori) 1131 m (Schlumberger)

FASI		16"	da 90 m	a 302 m
		12 1/4"	da 302 m	a 657 m
		8 1/2"	da 657 m	a 904 m
		6"	da 904 m	a 1130 m

CASINGS	C.P.	30"	da 15.3 m	a 90 m
		13 3/8"	da 15.3 m	a 299 m
		9 5/8"	da 15.3 m	a 652 m
		7"	da 15.3 m	a 900 m

MUD LOGGING SERVICE

GEOLOG S.R.L.



Well: JOLE 1

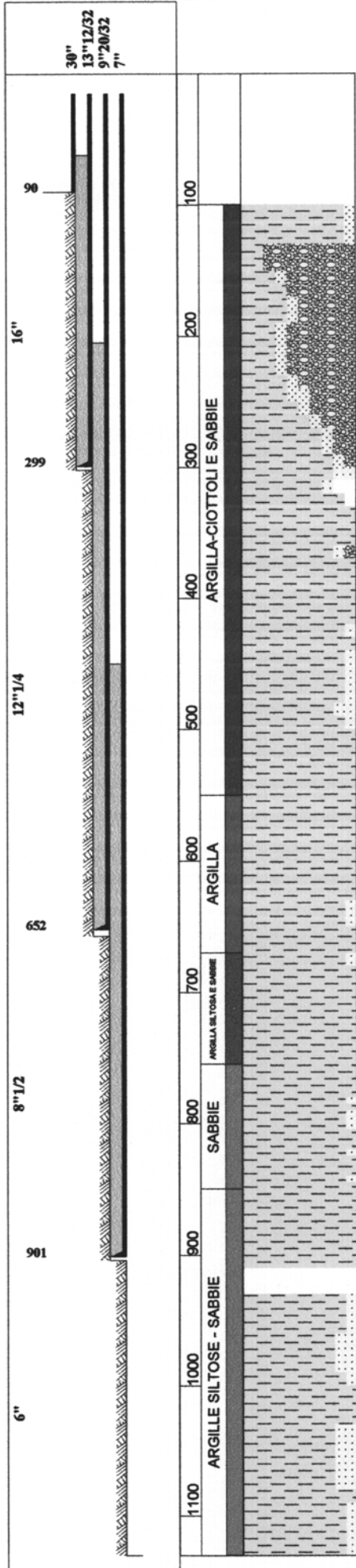


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SEZIONE - 1

PROFILO POZZO

Profile



Hole		
Dia	from	to
16"	90	302
12"1/4	302	657
8"1/2	657	904
6"	904	1130

Casing & Liner									
Date	Dia	Top	Bottom	1°CMT	DV	2°CMT	LOT	nxCSG	@
05/01/98	30"	15.3	90	0.0		0	0	13.375	299
09/01/98	13"12/32	15.3	299	62		0		9.625	730
12/01/98	9"20/32	15.3	652	205.0		0		7.0	1125
09/01/98	7"	15.3	901	450		0			

Formations		
From	to	Name
100.0	550.0	ARGILLA-CIOTTOLI E SABBIE
550.0	670.0	ARGILLA
670.0	755.0	ARGILLA SILTOSA E SABBIE
755.0	850.0	SABBIE
850.0	1130.0	ARGILLE SILTOSE - SABBIE

Age		
From	to	Name
100.0	550.0	PLEISTOCENE
550.0	670.0	PLEISTOCENE-PLIOCENE SUP.
670.0	755.0	PLEISTOCENE-PLIOCENE SUP.
755.0	850.0	PLIOCENE SUP.
850.0	1130.0	PLIOCENE SUP.-MEDIO



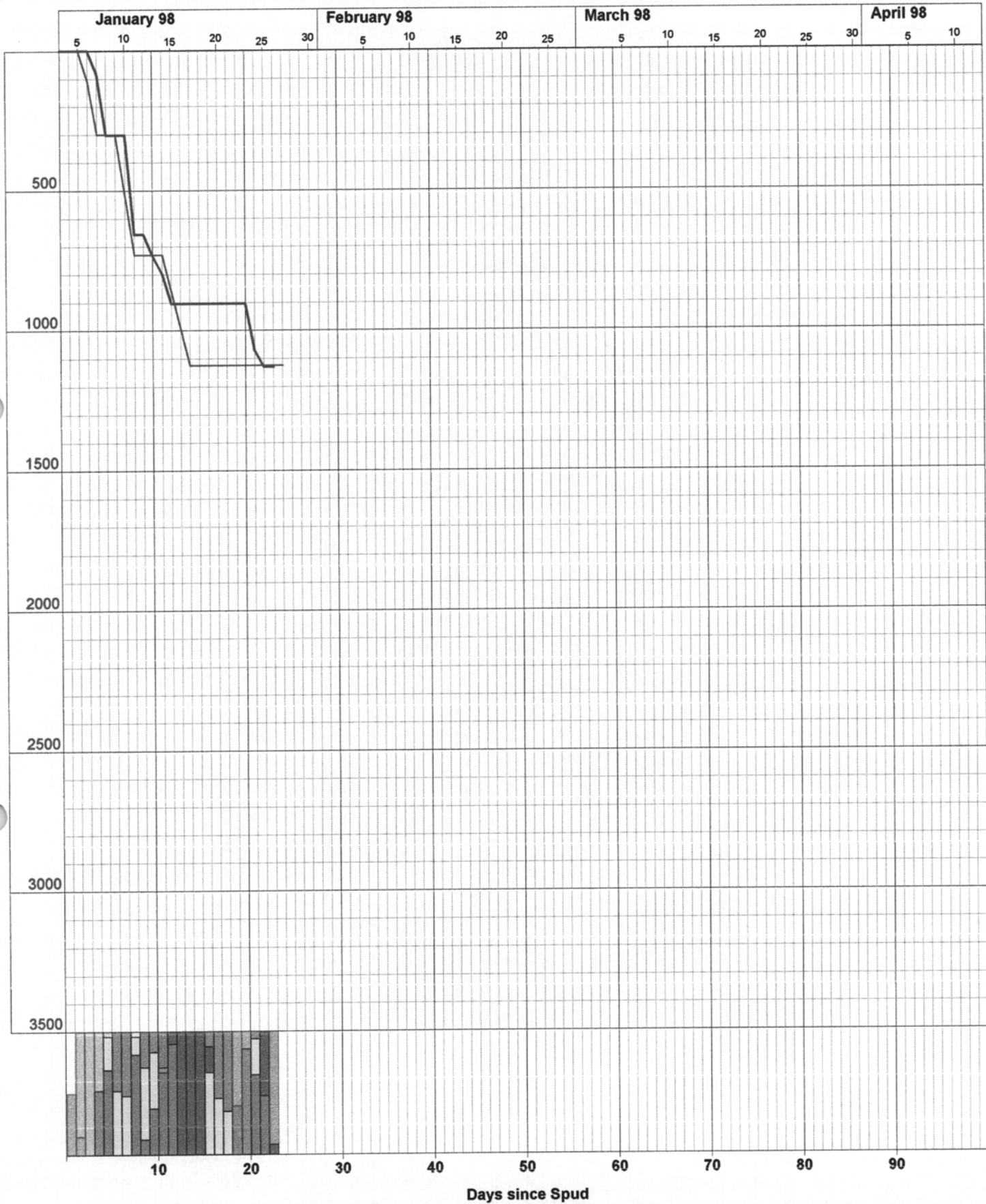
Well: JOLE 1



SEZIONE - I

DIAGRAMMA DI AVANZAMENTO

DRILLING PROGRESS



A PERFORAZIONE	B CAROTAGGIO	C TUBAGGI .CEMENTAZIONI	D LOGS ELETTRICI
E FLANGIA .APPAR. SICUREZZ	F PROVE DI STRATO	G PERDITE DI CIRCOLAZIONE	H MANIFESTAZIONI ED ERUZIONI
I PRESE DI BATTERIA E WASH	L PESCAGGIO	M RIPERFORAZIONE	N ROTTURA CASING
O ABBANDONO POZZO	P PROVE DI PRODUZIONE	Q COMPLETAMENTO POZZO	R SOSTE PER RIPARAZIONI
S ATTESE	T SPOSTAMENTO IMPIANTO	U CONDUCTOR PIPE	



Well: JOLE 1



SEZIONE - I

DATI GENERALI IMPIANTO

TIPO	JACK UP SELF ELEVATION SKIDDABLE
CLASSE DESIGN	LEIVINGSTONE 111
ANNO DI COSTRUZIONE	1977
SOCIETA' PROPRIETARIA	INA - CROSCO
PROFONDITA' OPERATIVA	MIN 9 M - MAX 91 M
CAPACITA' RACK	M 5486 CON DP 5"
MAIN DECK SHAPE	TRIANGOLARE AREA = 1951 MQ
GAMBE	N.3 QUADRATE H=127 M
GRU'	N.2 NATIONAL OS215
ANCORE	N.4 TIPO VRYOF
LINEE ORMEGGIO	N.4 STEVFIX OV 1" 5/8, RES. ROTTURA = 90.72t
DERRICK	TIPO P497HH H=44.8 M GROSS NOM. CAPACITY 631 T STATIC HOOK LOAD 400 T
TOP DRIVE	VARCO TDS-3S HP 1100
DRAWORK	NATIONAL 1320 UE HP 2000 30" * 56" 1/4
SISTEMA COMANDO BOP:	
ACCUMULATORE	STEW/STEVENSON T402070 IN MAIN DECK
PANNELLO COMANDI DRILLER	MGEK IN PIANO SONDA
PANNELLO COMANDI DISTAN.	GERC 12 IN TOOL PUSHER OFFICE
CONTROL LINE	N.16 ID 1" N.6 ID 1" 1/2
KILL LINE	N.2 ID 2" WP 10000 IN SHAFFER SING.

CHOKELINES	N.2 ID 3" WP 10000 IN SHAFFER SING. E DOP.	
POMPE IMPIANTO	N.2 NATIONAL 12P160 HP 1600	
CAMICIE DISPONIBILI	7" 1/4, 7", 6" 1/2, 6", 5" 1/2	
STAND PIPE MANIFOLD	DEMCO 4" * 5000 PSI	
STAND PIPE	N.2 E N.3	
ROTARY HOSE	N.2 + N.1 RISERVA, GOODAL 65 + 75 FT 3" 1/2 * 5000 PSI	
TESTA POZZO:		
DIVERTER	HYDRILL MSP 29" 1/2 * 500 PSI	
BAG PREVENTER	HYDRILL MSP 21" 1/4 * 2000 PSI	
BAG PREVENTER	HYDRILL GK 13" 5/8 * 10000 PSI	
A GANASCE	SHAFFER LWS DOPPIO 21" 1/4 * 200 PSI	
A GANASCE	SHAFFER SL DOPPIO 13" 5/8 * 10000 PSI	
A GANASCE	SHAFFER SL SINGOLO 13" 5/8 * 10000 PSI	
<i>CHOKEMANIFOLD:</i>	3"1/16 x 10000 PSI (H2S SERVICE)	
<i>CIRCUITO DI SUPERFICE FANGO:</i>	Vasche n.5 Vol. tot. 170 mc	
VIBROVAGLIO PRIMARIO	MARCA BRANDT	
VIBROVAGLIO SECOND.	MARCA DERRICK	
DESANDER	MARCA PIONEER TIPO T N.6 CONI 8"	
DESILTER	MARCA BRANDT TIPO 2*10 N.2 CONI 4"	
MUD CLEANER	MARCA BRANDT TIO DUAL DMC 20 N.20 CONI 4"	
DEGASER	MARCA SWACO TIPO 30"*225	
MUD GAS SEPARATOR	TIPO VERTICALE 30"	
UNITA' CEMENTATRICE	marca	HALLIBURTON tipo TWIN HT 400
CAPACITA' DI STOCCAGGIO	Vol. 96 t	per barite
	Vol. 43 t	per bentonite
	Vol. 134 t	per cemento
	Vol. 144 mc	acqua potabile
	Vol. 884 mc	acqua industr.

Vol. 664 mc	diesel
Vol. 189 mc	fango



Well: JOLE 1



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SEZIONE - I

ELENCO CONTRATTISTE

RAPPORTO FINALE
WELL : JOLE 1

SEZIONE II

GEOLOGIA

- Obiettivo Geologico
- Descrizione delle Formazioni
- Descrizione Litologica
- *Log Manifestazioni* PLOT
- *SSR -CALIBRAZIONE GAS TRAP* TABELLE
- *Log Interpretazioni* PLOT
- *Log geologia* PLOT
- *Cores Logs Plugs DST* TAVOLE
- *Master Log* PLOT



Well: JOLE 1



SEZIONE - II

OBIETTIVO GEOLOGICO

IL SONDAGGIO JOLE 1 ESPLORERA' UNA TRAPPOLA STRATIGRAFICA IN PINCH OUT ASSOCIATA AD UNA MARCATA ANOMALIA D'AMPIEZZA POSTA SUL FIANCO DELLA STRUTTURA PRINCIPALE. DALLA CORRELAZIONE SISMICA ESEGUITA CON I POZZI DELL' AREA , L'OBIETTIVO MINERARIO E' RAPPRESENTATO DA LIVELLI SABBIOSI INTERCALATI NELLA SERIE DEL PLIOCENE MEDIO SUPERIORE. QUESTI LIVELLI DOVREBBERO PRESENTARSI CON BUONI SPESSORI 'DELL' ORDINE DEL METRO, E AVERE VALORI DI POROSITA' ANCHE DEL 27% .



Well: JOLE 1



A 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

SEZIONE - II

DESCRIZIONE DELLE FORMAZIONI

Previsione lito-stratigrafica da livello medio marino:

15 m : Fondo mare.

Da f.m. a m 550 : Ciottoli e sabbie passanti ad argille.
eta': Pleistocene

Unconformity

Da 550 m a m 670: Argille prevalenti.
Pleistocene-Pliocene sup.

Unconformity

Da 670 m a m 755: Intercalazioni di sabbia fine e siltosa con argilla,
siltosa.
Eta': Pliocene sup.

Da 755 m a m 850 : Sabbia media.
Eta': Pliocene sup.

Da 850m a m 1100(f.p.): Argille siltose con intercalazioni di sabbia.
Eta': Pliocene sup-medio.



Well: JOLE 1



SEZIONE - II

DESCRIZIONE LITOLOGICA

Da 100 m a 120 m :

ARGILLA grigia,tenera,lavabile talora plastica con intercalazioni di Sabbia litica-sublitica da media a fine da subarrotondata a subangolare con abbondante presenza di macrofossili.

Tracce di Lignite e Pirite.

Da 120 m a 300 m :

ARGILLA grigia, tenera, quasi totalmente lavabile con alternanze di CIOTTOLI poligenici,prevalentemente carbonatici,da subarrotondati a subangolari in diminuzione verso il basso e intercalazioni di SABBIA sublitica,grigio biancastra da media a fine prevalentemente subangolare. Presenza di macrofossili e Pirite.

Da 300 m a 450 m :

ARGILLA grigia,scura,tenera,localmente plastica con rari livelli di SABBIA sublitica grigio biancastra,fine prevalentemente subangolare. Tracce di Pirite e Foraminiferi.

Da 450 m a 620 m:

ARGILLA grigia,scura,tenera,lavabile.

Da 620 m a 748 m :

ARGILLA c.s.,fossilifera a foraminiferi con rari livelli di SABBIA, quarzosa, medio fine a fine,prevalentemente subangolare,grigio biancastra.

Tracce di Mica e Pirite.

Da 748 m a 874 m :

ARGILLA grigia scura,fossilifera ad abbondanti Foraminiferi e frammenti di macrofossili,tenera,lavabile con frequenti livelli di SABBIA (2-10%) quarzosa,subangolare,subarrotondata,da media a fine,biancastra, localmente grigio chiara.

Tracce di Pirite,Mica,Lignite e Glauconite.

Da 874 m a 900 m :

Prevalenza di ARGILLA grigia scura,fossilifera a Foraminiferi,tenera, lavabile con rari livelli di SABBIA quarzosa,subangolare,subarrotondata, da media a fine,biancastra.

Tracce di Pirite e Glauconite .

Da 900 m a 1130 m :

Prevalenza di ARGILLA grigia scura, fossilifera a Foraminiferi, tenera, lavabile con intercalazioni di livelli di SABBIA quarzosa, talora passante a sabbia, biancastra, subangolare-subarrotondata, medio fine.

Tracce di Pirite, Mica e verso il bottom dell' intervallo di Macroforaminiferi e SILTITE marroncina, scura, tenera.



Well: JOLE 1



SEZIONE - II

LOG MANIFESTAZIONI



Well: JOLE 1

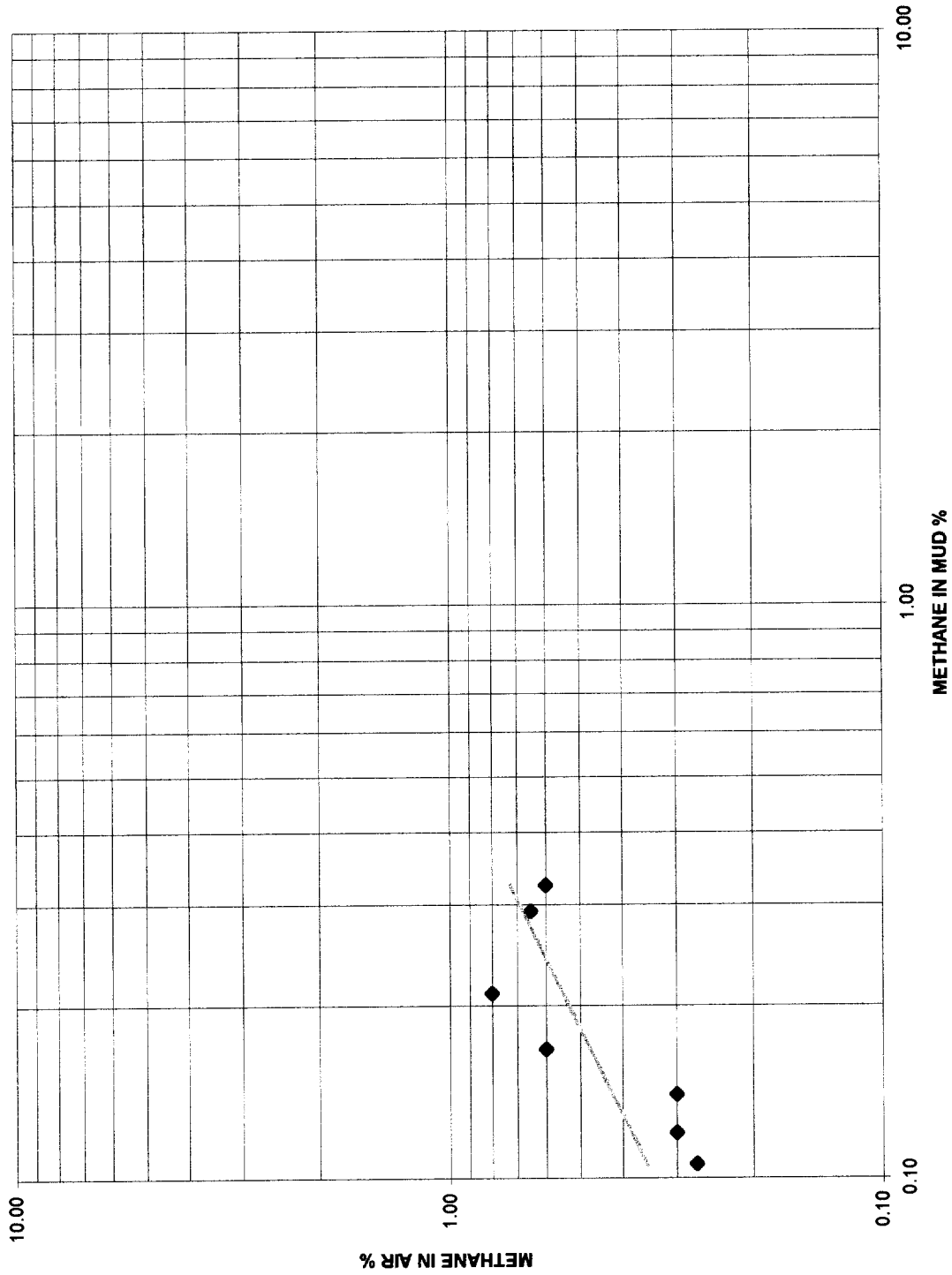


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SEZIONE - II

SSR - Calibrazione gas trap

METHANE AIR vs MUD
WELL: JOLE 1





Well: JOLE 1



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SEZIONE - II

LOG INTERPRETAZIONI



Well: JOLE 1



SEZIONE - II

LOG GEOLOGIA

Side Wall Core

N.	Depth	Description/Shows
1	674.5	SABBIA molto fine, Qz a granuli subangolari, mediam. classata, grigia biancastra.
2	679.0	SILT quarzoso, argilloso con granuli subangolari, grigio.
3	754.8	SILT argilloso grigio chiaro.
4	756.8	Non recuperata.
5	761.4	ARGILLA grigio nocciola, plastica.
6	770.1	ARGILLA grigia siltosa.
7	774.5	ARGILLA grigio nocciola, plastica.
8	777.5	SABBIA qz. a granuli da subangolari a subarrotondati, scarsamente classata di colore grigio biancastro.
9	780.0	SABBIA qz. a granuli da subangolari a subarrotondati, scarsamente classata di colore grigio biancastro.
10	780.5	SABBIA qz. a granuli da subangolari a subarrotondati, scarsamente classata di colore grigio biancastro.
11	781.6	SABBIA medio fine qz, a granuli da subangolari a subarrotondati, scarsamente classata di colore grigio biancastro.
12	784.2	SILT qz. argilloso con granuli suarrotondati, grigio.
13	785.6	Fustella non partita.
14	787.0	SABBIA fine qz, a granuli subarrotondati, scarsamente classata di colore grigio biancastro.
15	788.4	NON recuperata.
16	794.0	SABBIA fine qz, a granuli subarrotondati, scarsamente classata, di colore grigio biancastro.
17	796.5	SABBIA fine qz, a granuli subarrotondati, scarsamente classata, di colore grigio biancastro.
18	803.0	Non recuperata.
19	815.4	SILT qz, argilloso con granuli subarrotondati, grigio.
20	821.7	SILT qz, argilloso con granuli subarrotondati, grigio.
21	848.0	ARGILLA grigia plastica.
22	851.0	ARGILLA siltosa grigia.
23	853.2	Non recuperata.
24	881.8	Non recuperata.
25	895.0	SILT qz, argilloso grigio.

Logs

Type	from	to	Description
AIT	653.0	901.0	Discesa n* 1 del 15/01/98, Run n * 1.
MSFL	653.0	886.0	Discesa n* 1 del 15/01/98, Run n * 1.
SLS	653.0	896.0	Discesa n* 1 del 15/01/98, Run n * 1.
EPT	653.0	874.0	Discesa n* 1 del 15/01/98, Run n * 1.
GR	294.0	868.0	Discesa n* 1 del 15/01/98, Run n * 1.
SHDT	653.0	899.0	Discesa n* 2 del 16/01/98, Run n * 1.
APS	653.0	891.0	Discesa n* 2 del 16/01/98, Run n * 1.
LDS	653.0	898.0	Discesa n* 2 del 16/01/98, Run n * 1.
GR	653.0	887.0	Discesa n* 2 del 16/01/98, Run n * 2.
CBL	170.0	652.0	Discesa n* 3 del 16/01/98, Run n * 1.
VDL	170.0	652.0	Discesa n* 3 del 16/01/98, Run n * 1.
CCL	170.0	643.0	Discesa n* 3 del 16/01/98, Run n * 1.

Cores/Logs/Plugs/DST

Type	from	to	Description
GR	170.0	645.0	Discesa n° 3 del 16/01/98, Run n° 3.
EPT	653.0	874.0	Discesa n° 1 del 15/01/98, Run n° 1.
GR	294.0	868.0	Discesa n° 1 del 15/01/98, Run n° 1.
SHDT	653.0	899.0	Discesa n° 2 del 16/01/98, Run n° 1.
APS	653.0	891.0	Discesa n° 2 del 16/01/98, Run n° 1.
LDS	653.0	898.0	Discesa n° 2 del 16/01/98, Run n° 1.
GR	653.0	887.0	Discesa n° 2 del 16/01/98, Run n° 2.
CBL	170.0	652.0	Discesa n° 3 del 16/01/98, Run n° 1.
VDL	170.0	652.0	Discesa n° 3 del 16/01/98, Run n° 1.
CCL	170.0	643.0	Discesa n° 3 del 16/01/98, Run n° 1.
GR	170.0	645.0	Discesa n° 3 del 16/01/98, Run n° 3.
RFT	668.5	885.0	Discesa n° 1 del 16/01/98, Run n° 1.
OVSP	880.0	895.0	Discesa n° 3 del 18/01/98, Run n° 1.
VSP	205.0	895.0	Discesa n° 2 del 17/01/98, Run n° 1.
CMR	662.0	895.0	Discesa n° 4 del 18/01/98, Run n° 1.
GR	662.0	890.0	Discesa n° 4 del 18/01/98, Run n° 4.
OVSP	295.0	895.0	Discesa n° 5 del 18/01/98, Run n° 2.
CST	674.5	895.0	Discesa n° 6 del 19/01/98, Run n° 1.
AIT	901.0	1128.0	Discesa n° 1 del 25/01/98, Run n° 2.
SLS	901.0	1122.0	Discesa n° 1 del 25/01/98, Run n° 2.
MSFL	901.0	1114.0	Discesa n° 1 del 25/01/98, Run n° 2.
EPT	901.0	11030.0	Discesa n° 1 del 25/01/98, Run n° 2.
GR	901.0	1095.0	Discesa n° 1 del 25/01/98, Run n° 5.
CBLVDL	495.0	898.0	Discesa n° 2 del 25/01/98, Run n° 2.
CCL	495.0	890.0	Discesa n° 2 del 25/01/98, Run n° 2.
GR	495.0	892.0	Discesa n° 2 del 25/01/98, Run n° 6.
VSP	220.0	1120.0	Discesa n° 3 del 25/01/98, Run n° 2.

Cement Plugs

N.	from	to	Description
1	850.0	1100.0	Inizio discesa ore 02:00 e fine discesa ore 06:30 del 26/01/98. Circolazione di fondo iniziata alle ore 06:30 e finita alle ore 07:00 del 26/01/98. Eseguito tappo di cemento da m 1100 a m 850 pompando: il cuscino di acqua ind. 1300 l (altezza m 100) + 5 mc di malta a D=1.9 Kg/l (confezionata con 6.6 t di cemento + 2900 l di acqua ind. + 0.3 % CFR3), + il cuscino di acqua ind. 350 l (altezza 100 m). Spiazzamento malta con cementatrice, con 2.3 mc di fango FWPOLs a D = 1.35 Kg/l per 10 min.

RAPPORTO FINALE
WELL :JOLE 1

SEZIONE III

DRILLING DATA

- Profilo	TAVOLA
- Elenco delle operazioni e riassunto Fasi	
- Batterie di perforazione - Elenco	PLOT
- Bit Record - Bit Cost - Bit Mud Data	TAVOLA
- Testa Pozzo e B.O.P.	TAVOLA
- Dati Fango	TAVOLA
- Casings	TABELLA
- Cementazioni	TABELLA
- Deviazioni	TABELLA
- Parametri di perforazione	PLOT
- Problemi di pozzo	



Well: JOLE 1

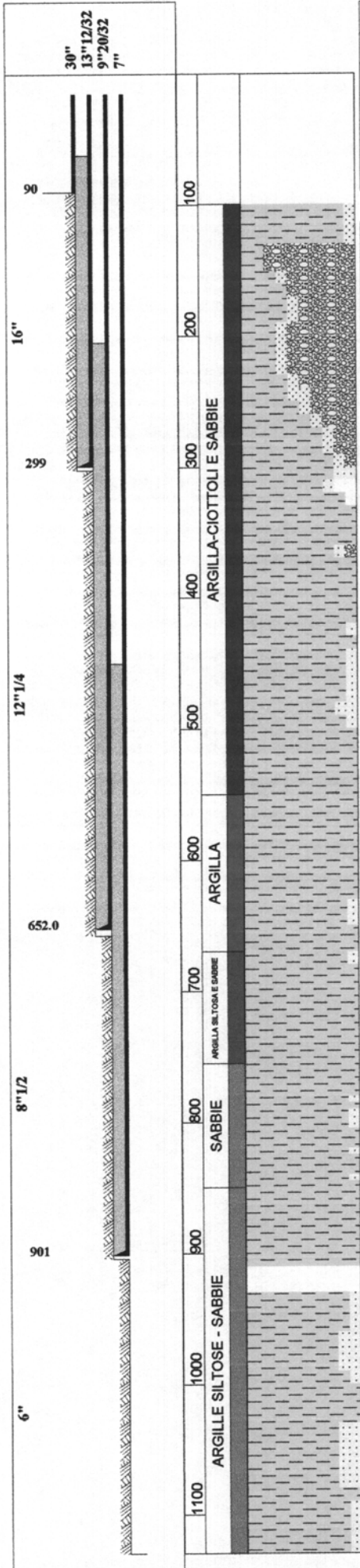


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SEZIONE - III

PROFILO

Profile



Hole		
Dia	from	to
16"	90	302
12"1/4	302	657
8"1/2	657	904
6"	904	1130

Casing & Liner									
Date	Dia	Top	Bottom	1°CMT	DV	2°CMT	LOT	nxCSG	@
05/01/98	30"	15.3	90	0.0		0	0	13.375	299
09/01/98	13"12/32	15.3	299	62		0		9.625	730
12/01/98	9"20/32	15.3	652.0	205.0		0		7.0	1125
09/01/98	7"	15.3	901	450		0			

Formations		
From	to	Name
100.0	550.0	ARGILLA-CIOTTOLI E SABBIE
550.0	670.0	ARGILLA
670.0	755.0	ARGILLA SILTOSA E SABBIE
755.0	850.0	SABBIE
850.0	1130.0	ARGILLE SILTOSE - SABBIE

Age		
From	to	Name
100.0	550.0	PLEISTOCENE
550.0	670.0	PLEISTOCENE-PLIOCENE SUP.
670.0	755.0	PLEISTOCENE-PLIOCENE SUP.
755.0	850.0	PLIOCENE SUP.
850.0	1130.0	PLIOCENE SUP.-MEDIO



Well: JOLE 1



SEZIONE - III

ELENCO OPERAZIONI E RIASSUNTO DELLE FASI

04/01/98	0.0	Arrivo in postazione, sollevato scafo e precarica.
05/01/98	0.0	Precarica, skiddaggio rig e preparativi per C.P. da 30".
06/01/98	0.0	Discesa ed infissione C.P. da 30".
07/01/98	82.0	Ultimato discesa C.P. da 30", montato diverter e assemblato bha con bit n 1.
08/01/98	302.0	Lavato C.P. 30", perforato fase 16" estratto bit e disceso Csg 13 3/8" J55 61# a m 299
09/01/98	302.0	Cementazione csg 133/8", woc, smontaggio diverter, montaggio flangia base, saracinesche e bop stack.
10/01/98	302.0	Montaggio bop, test bop ed assemblaggio bha da 12 1/4" e discesa.
11/01/98	657.0	Perforazione (fase 12 1/4").
12/01/98	657.0	Discesa csg da 9 5/8", cementazione, woc, smontaggio e montaggio bop
13/01/98	734.0	Test bop, assemblato e disceso nuova bha per fase da 8 1/2", fresaggio scarpa segue perforazione.
14/01/98	797.0	Perforato da m 734 a m 756, sospeso per eseguire carota, controllo statico, pozzo scarica, chiuso pozzo, rilevato pressioni, circolato sotto duse per bilanciamento fango, pozzo aperto, short trip in scarpa, eseguito formation integrity test n * 2, ridisceso al fondo e perforato fino a m 797.
15/01/98	904.0	Perforazione da m 797 a m 899, circolazione, short trip in scarpa, ridisceso al fondo, circolato, eseguito survey n*4, perforato fino a m 904, circolazione, estratto in back reaming fino in shoe (652m), circolato, estratto bit e logs Schlumberger.
16/01/98	904.0	Registrazione logs Schlumberger, disceso bit 8 1/2" al fondo per controllo foro, circolato, estratto in back reaming segue registrazione RFT.
17/01/98	904.0	Registrazione RFT e registrazione VSP con Schlumberger.
18/01/98	904.0	Posizionato s.wessel a m 600 x 42" dal centro pozzo per registrare OVSP con esito negativo causa malfunzionamento air-gun. Registrato CMR da m 901 a m 662 e registrato OVSP da m 895 a m 295 in 41 stazioni.
19/01/98	904.0	Disceso CSP, prelevato n * 24 carote di parete, recuperate n * 19, disceso bit n * 3 8 1/2" RR al fondo, circolazione, estratto bit. Sostituito pipe rams, eseguito test e disceso csg 7".
20/01/98	904.0	Circolato, eseguito cementazione a csg 7", woc, smontaggio bop, incuneato, tagliato csg da 7" e montaggio apparecchiatura di sicurezza.
21/01/98	904.0	Test bop, assemblaggio nuova bha e stivata in torre, smontaggio bop per skiddaggio impianto.
22/01/98	904.0	Skiddato impianto, attesa miglioramento condizioni meteo ed eseguito precarica.
23/01/98	904.0	Skiddato impianto, montato bop, flow line e test flangia hydrill.
24/01/98	1071.0	Perforazione (fase da 6").
25/01/98	1130.0	Perforazione fino a m 1130, estrazione bit e logs Schlumberger.
26/01/98	1130.0	Eseguito tappo di cemento e fresaggio dello stesso a m 892

FASE Ø 16"

DA m 90 @ m 302

La fase in esame e' stata perforata con uno scalpello della SECURITY, tipo SS44G
dusi 3 x 16/32" .

La batteria di perforazione risultava cosi' composta: BIT -NB - SHDC 8" 1/4 -
STAB - 1 DC 8" 1/4 - STAB - 7 DC 8" 1/4 - XO - 15 HWDP 5" - DP 5" S135

I parametri di perforazione utilizzati sono stati i seguenti:

<i>WOB</i>	2 - 4 ton
<i>RPM</i>	100 - 120
<i>FR</i>	3150 - 3300 l/min

La velocita' di avanzamento media e' stata di 18.43 metri/ora

Il fango di perforazione aveva le seguenti caratteristiche:

<i>Tipo</i>	FWGE
<i>Densita</i>	1150 gr/litro
<i>Viscosita</i>	52 sec
<i>Salinita'</i>	3.4
	9.5

La litologia attraversata e' stata caratterizzata dalla presenza di ARGILLA
grigia scura, tenera, lavabile con alternanze di CIOTTOLI poligenici,
prevalentemente carbonatici, da subarrotondati a subangolari in
diminuzione verso il basso dell' intervallo e intercalazioni di SABBIA
sublifica, grigio biancastra da media a fine, prevalentemente
subangolare.

Presenza di macrofossili e tracce di Pirite.

(Eta' della formazione : Pleistocene).

FASE Ø 12" 1/4

DA m 302 @ m 657

La fase in esame e' stata perforata con uno scalpello della REED RR, MHP11G dusi 3 x 18/32" .

La batteria di perforazione risultava cosi' composta: BIT N* 2 RR - NB - MDC - STAB - 2 DC 8 1/4" - STAB - 4 DC 8 1/4" - XO - 15 HWDP 5" - DP 5" S 135

I parametri di perforazione utilizzati sono stati i seguenti:

<i>WOB</i>	2 - 5 ton
<i>RPM</i>	120 -125
<i>FR</i>	2630-2770 l/min

La velocita' di avanzamento media e' stata di 24.48 metri/ora

Il fango di perforazione aveva le seguenti caratteristiche:

<i>Tipo</i>	FWGE
<i>Densita</i>	1150 -1170 gr/litro
<i>Viscosita</i>	50 -54 sec
<i>Salinita'</i>	4.0 - 4.4 gr/litro NaCl
<i>pH</i>	9.5 - 10

Litologia : ARGILLA grigia scura,tenera,localmente plastica con rari livelli di SABBIA sublifica grigio biancastra , fine , prevalentemente subangolare.

Da m 450 ARGILLA grigio scura,tenera,lavabile.

Tracce di Pirite, Mica e Foraminiferi.

(Eta' delle formazioni: PLEISTOCENE - PLIOCENE Sup.)

FASE Ø 8"1/2

DA m 657 @ m 904

La fase in esame e' stata perforata con uno scalpello della REED, tipo MHP11G dusi 3 x 16/32"

La batteria di perforazione risultava così composta: BIT N *3 - NB - 1 DC 6 1/2" - STAB - XO - MONEL - XO - STAB - 3 DC 6 1/2" - - XO - 18 HWDP 5" - DP 5" S 135.

I parametri di perforazione utilizzati sono stati i seguenti:

<i>WOB</i>	2 - 5 ton
<i>RPM</i>	120 - 125
<i>FR</i>	2000 - 2010 l/min

La velocità di avanzamento media e' stata di 9.68 metri/ora

Il fango di perforazione aveva le seguenti caratteristiche:

<i>Tipo</i>	FWGE
<i>Densita</i>	1170 -1320 gr/litro
<i>Viscosita</i>	45 sec
<i>Salinita'</i>	3.9 - 4 gr/litro NaCl
<i>pH</i>	9.5 - 11

Litologia : fino a m 748 ARGILLA ,grigia scura,tenera,lavabile, fossilifera a foraminiferi con rari livelli di SABBIA,quarzosa, medio fine a fine,prevalentemente subangolare,grigio biancastra. Tracce di Pirite e Mica.

Da m 748 a m 874 : ARGILLA, grigia scura,fossilifera ad abbondanti foraminiferi e frammenti di macrofossili,tenera,lavabile con frequenti livelli di SABBIA (2-10%),quarzosa,subangolare,subarrotondata, da media a fine,biancastra e localmente grigio chiara. Tracce di Pirite,Mica,Lignite e Glauconite.

Da m 874 a m 904 : prevalenza di ARGILLA ,grigio scura, fossilifera a foraminiferi,tenera,lavabile con rari livelli di SABBIA,quarzosa, subarrotondata,subangolare,medio fine,biancastra. Tracce di Pirite e Glauconite.

Eta' : PLIOCENE sup. medio.

FASE Ø 6"

DA m 904 @ m 1130

La fase in esame e' stata perforata con uno scalpello della DBO, tipo TD13M dusi 3 x 13/32"

La batteria di perforazione risultava cosi' composta: BIT N *4 - NB - XO - 1 DC 4 3/4" - XO - STAB - XO - 2 DC 4 3/4" - XO - STAB - XO - 6 DC 4 3/4" - XO - DP 3 1/2" S

I parametri di perforazione utilizzati sono stati i seguenti:

<i>WOB</i>	1 - 2 ton
<i>RPM</i>	120
<i>FR</i>	1500 l/min

La velocita' di avanzamento media e' stata di 12.86 metri/ora

Il fango di perforazione aveva le seguenti caratteristiche:

<i>Tipo</i>	FWGE
<i>Densita</i>	1350 gr/litro
<i>Viscosita</i>	44 - 46 sec
<i>Salinita'</i>	4.38 gr/litro NaCl
<i>pH</i>	9.5 - 11

Litologia : Prevalenza di ARGILLA ,grigia scura,tenera,lavabile,fossilifera a foraminiferi con intercalazioni di livelli di SABBIA quarzosa, medio fine ,da subangolare a sub arrotondata,grigio biancastra talora passante a sabbia. Tracce di Pirite e Mica e verso il bottom dell' intervallo di Macroforaminiferi e SILTITE marroncina scura , tenera.

Eta' : PLIOCENE superiore.



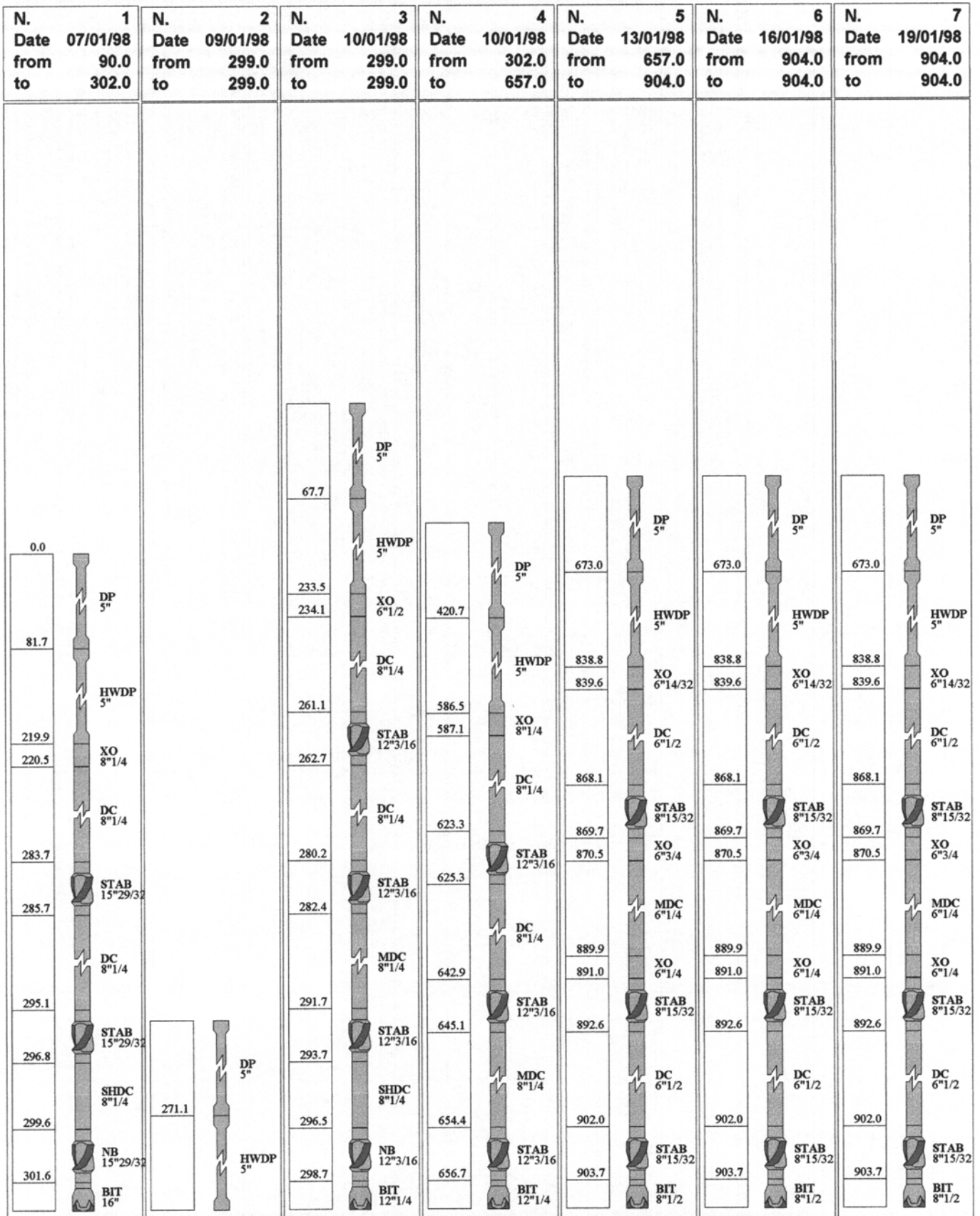
Well: JOLE 1



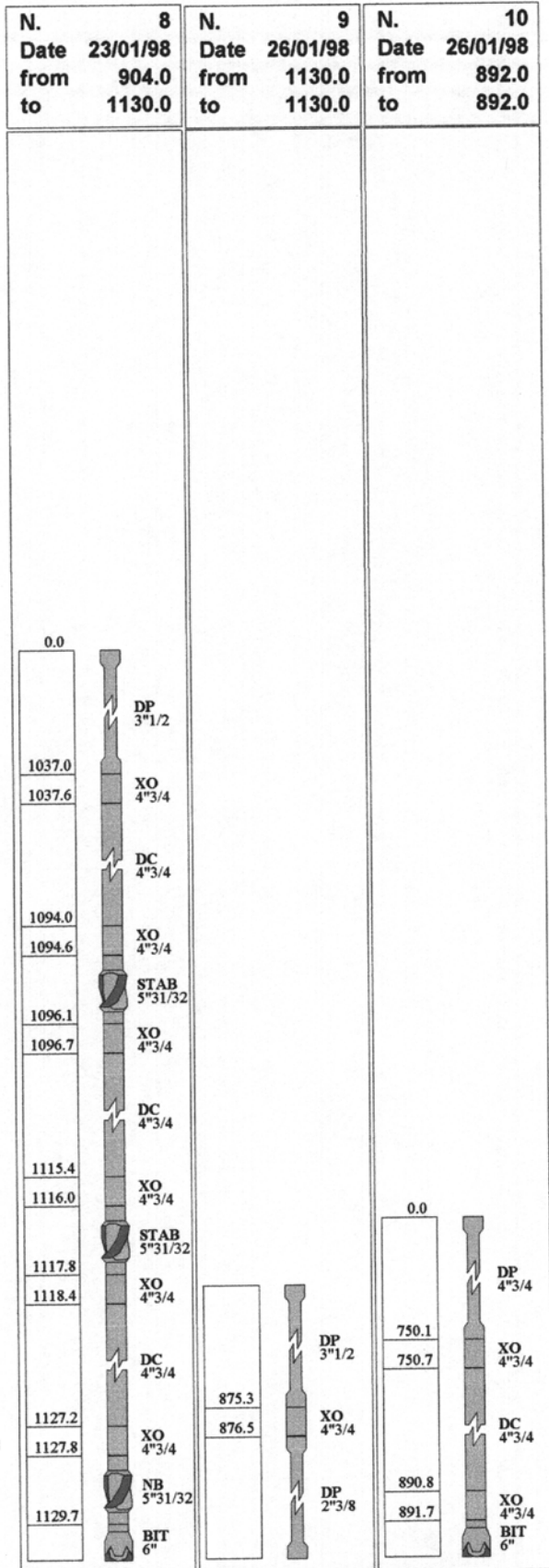
SEZIONE - III

BATTERIE DI PERFORAZIONE

1	07/01/98	90.0	302.0	BIT16"+NB+SHDC+STAB+1DC+STAB+7DC+XO+15HWDP+9DP
2	09/01/98	299.0	299.0	HWDP+30DP
3	10/01/98	299.0	299.0	BIT12"1/4+NB+SHDC+STAB+MDC+STAB+2DC+STAB+1DC+XO+18HWDP+10DP
4	10/01/98	302.0	657.0	BIT12"1/4+STAB+MDC+STAB+2DC+STAB+4DC+XO+18HWDP+7DP
5	13/01/98	657.0	904.0	BIT8"1/2+STAB+1DC+STAB+XO+MDC+XO+STAB+3DC+XO+18HWDP+48DP
6	16/01/98	904.0	904.0	BIT8"1/2+STAB+1DC+STAB+XO+MDC+XO+STAB+3DC+XO+18HWDP+48DP
7	19/01/98	904.0	904.0	BIT8"1/2+STAB+1DC+STAB+XO+MDC+XO+STAB+3DC+XO+18HWDP+48DP



8	23/01/98	904.0	1130.0	BIT6"+NB+XO+1DC+XO+STAB+XO+2DC+XO+STAB+XO+6DC+XO+112DP
9	26/01/98	1130.0	1130.0	DP+XO+94DP
10	26/01/98	892.0	892.0	BIT6"+XO+15DC+XO+80DP





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SEZIONE - III

TABELLA SCALPELLI - BIT COST - BIT MUD DATA

Rock Bits

BIT N. 1U Run 1				BIT N. 2U Run 4				BIT N. 3U Run 5				BIT N. 4 Run 8			
Type	SS44G	Ø	16"	Type	MHP11G	Ø	12"1/4	Type	MHP11G	Ø	8"1/2	Type	TD13 M	Ø	6"
S/N	647592	IADC	135	S/N	MM6481	IADC	117	S/N	DA1222	IADC	117	S/N	7950924	IADC	0
TFA sqin	0.589	Jets	16 16 16	TFA sqin	0.745	Jets	18 18 18	TFA sqin	0.589	Jets	16 16 16	TFA sqin	0.389	Jets	13 13 13
From	90.0	To	302.0	From	302.0	To	657.0	From	657.0	To	904.0	From	904.0	To	1130.0
Drid.Int.	212.0	Hrs	8.4	Drid.Int.	355.0	Hrs	10.5	Drid.Int.	247.0	Hrs	19.9	Drid.Int.	226.0	Hrs	14.8
WOB	2.0	RPM	104	WOB	4.6	RPM	111	WOB	4.3	RPM	118	WOB	1.3	RPM	115
ROP	25.3	Torque	199	ROP	33.7	Torque	619	ROP	12.4	Torque	312	ROP	15.2	Torque	226
WOH	0	0	0	WOH	0	0	0	WOH	0	0	0	WOH	0	0	0
Flow	3104	Pressure	149	Flow	2742	Pressure	102	Flow	2159	Pressure	109	Flow	1483	Pressure	201
JVel	136	HSI	4.1	JVel	95	HSI	3.0	JVel	95	HSI	5.4	JVel	98	HSI	8.5
I 2 O 2 NO L A B 2 G 1 NO TD	I 3 O 3 NO L A B 4 G 1 NO TD	I 3 O 3 WT L A B G 1 NO TD	I 1 O 1 NO L A B X G 1 NO TD												

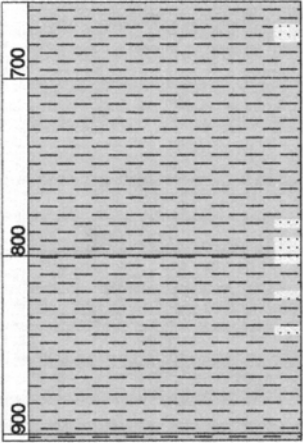
BIT RECORD

N.	Date	Type	Serial	Diam	TFA	In Depth	Out Depth	Drill	Hrs	ROP	WOB	RPM	Flow	Press	Dens	Mud	Lithology	I	O	D	L	B	G	O	R
1U	07/01/98	SS44G	647592	16"	0.589	90.0	302.0	212.0	8.4	25.33	2.0	104	3104	149	1150	FWGE	Clay-Fine Sand-Pebble	2	2	NO	A	2	1	NO	TD
2U	10/01/98	MHP11G	MM6481	12"1/4	0.745	302.0	657.0	355.0	10.5	33.70	4.6	111	2742	102	1164	FWGE-FWPOLS	Clay-Fine Sand-Pebble	3	3	NO	A	4	1	NO	TD
3U	13/01/98	MHP11G	DA1222	8"1/2	0.589	657.0	904.0	247.0	19.9	12.41	4.3	118	2159	109	1264	FWPOLS	Clay-Fine Sand	3	3	WT	A		1	NO	TD
4	24/01/98	TD13 M	7950924	6"	0.389	904.0	1130.0	226.0	14.8	15.24	1.3	115	1483	201	1349	FWPOLS	Fine Sand-Clay	1	1	NO	A	X	1	NO	TD



WELL JOLE 1	LEASE B.C21.AG	RIG PANON	Spud in Date 04/01/98
CONTRACTOR INA-CROSCO	Bit Run N. 5 from 657.0 to 904.0		Printout Date 02/02/98

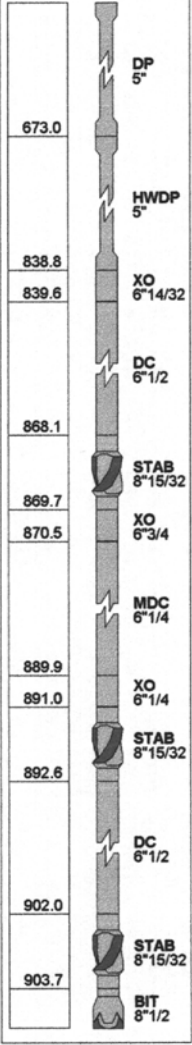
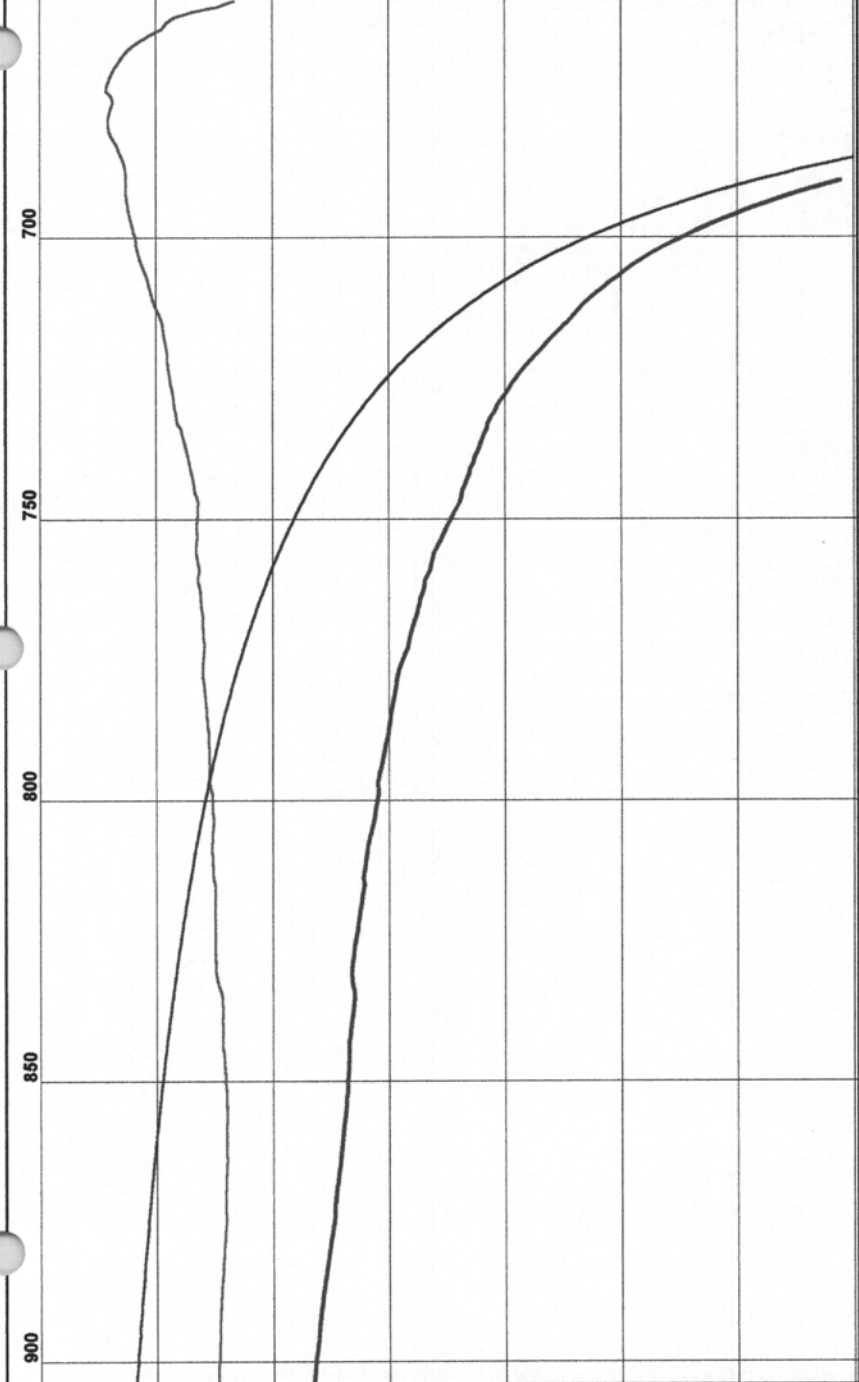
BIT	N.	3U	Run	5
Type	MHP11G	Ø		8"1/2
S/N	DA1222	IADC		117
TFA sqin	0.589	Jets	16	16
From	657.0	To	904.0	
Drid. Int.	247.0	Hrs	19.9	
WOB	4.3	RPM	118	
ROP	12.4	Torque	312	
WOH	0	↑	0	↓
Flow	2159	Pressure	109	
JVel	95	HSI	5.4	
I	3	O	3	D
WT	L	A	B	G
I	O	NO	R	TD



Clay		Fine Sand	
Fluid	Type	FWPOLS	
Density	Filtrate	Sand%	
1320	5	1	
Viscosity	Cake	pH	
45	1	9.5	
VP	Solids%	Pm	
16	15	1.8	
YP	Oil%	Pf/Mf	
8.5	0	0.2	
Gels	Water%	NaCl	
3/8	86	3.8	

Drilling Cost					
Bit Cost	3221 \$	Rig Cost/h	1896 \$	Trip Time h	9
Total Cost \$/m		Operating Cost \$/m		Bit & Trip Cost \$/m	
	100	200	300	400	500
					600
					Break-even 10\$

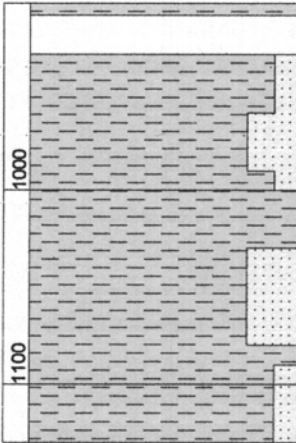
ROP	100	Flow	5000
WOB	10	Pres	200
RPM	200	Dens	2000
		Torq	1000





WELL JOLE 1	LEASE B.C21.AG	RIG PANON	Spud in Date 04/01/98
CONTRACTOR INA-CROSCO	Bit Run N. 8 from 904.0 to 1130.0		Printout Date 03/02/98

BIT	N. 4	Run	8
Type	TD13 M	Ø	6"
S/N	7950924	IADC	0
TFA sqin	0.389	Jets	13 13 13
From	904.0	To	1130.0
Drld. Int.	226.0	Hrs	14.8
WOB	1.3	RPM	115
ROP	15.2	Torque	226
WOH	0	↑	0 ↓
Flow	1483	Pressure	201
JVel	98	HSI	8.5
I	1	O	1
D	NO	L	A
B	X	G	I
O	NO	R	TD

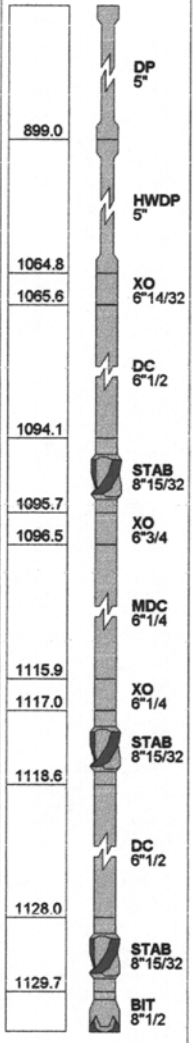
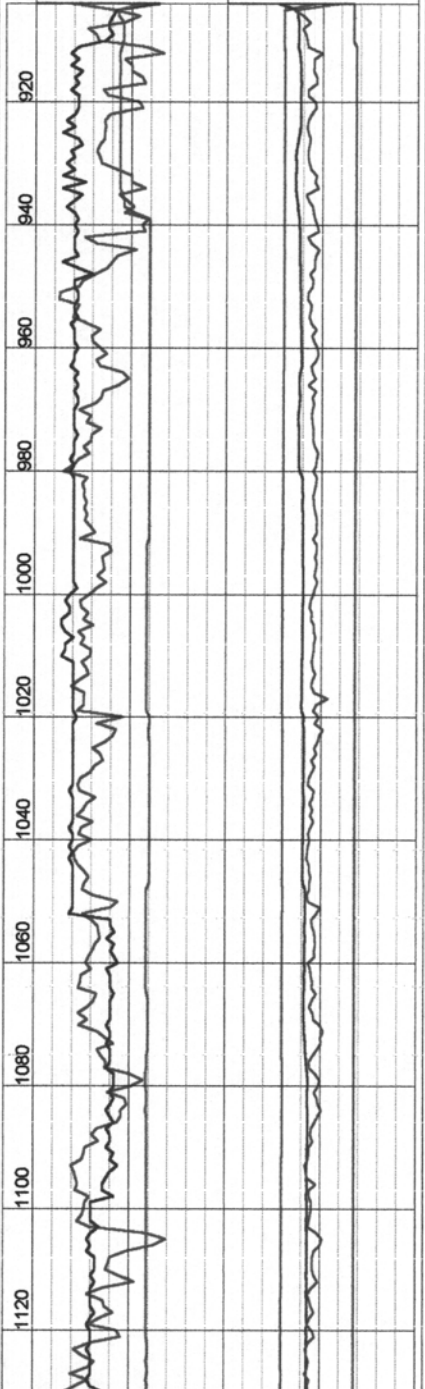
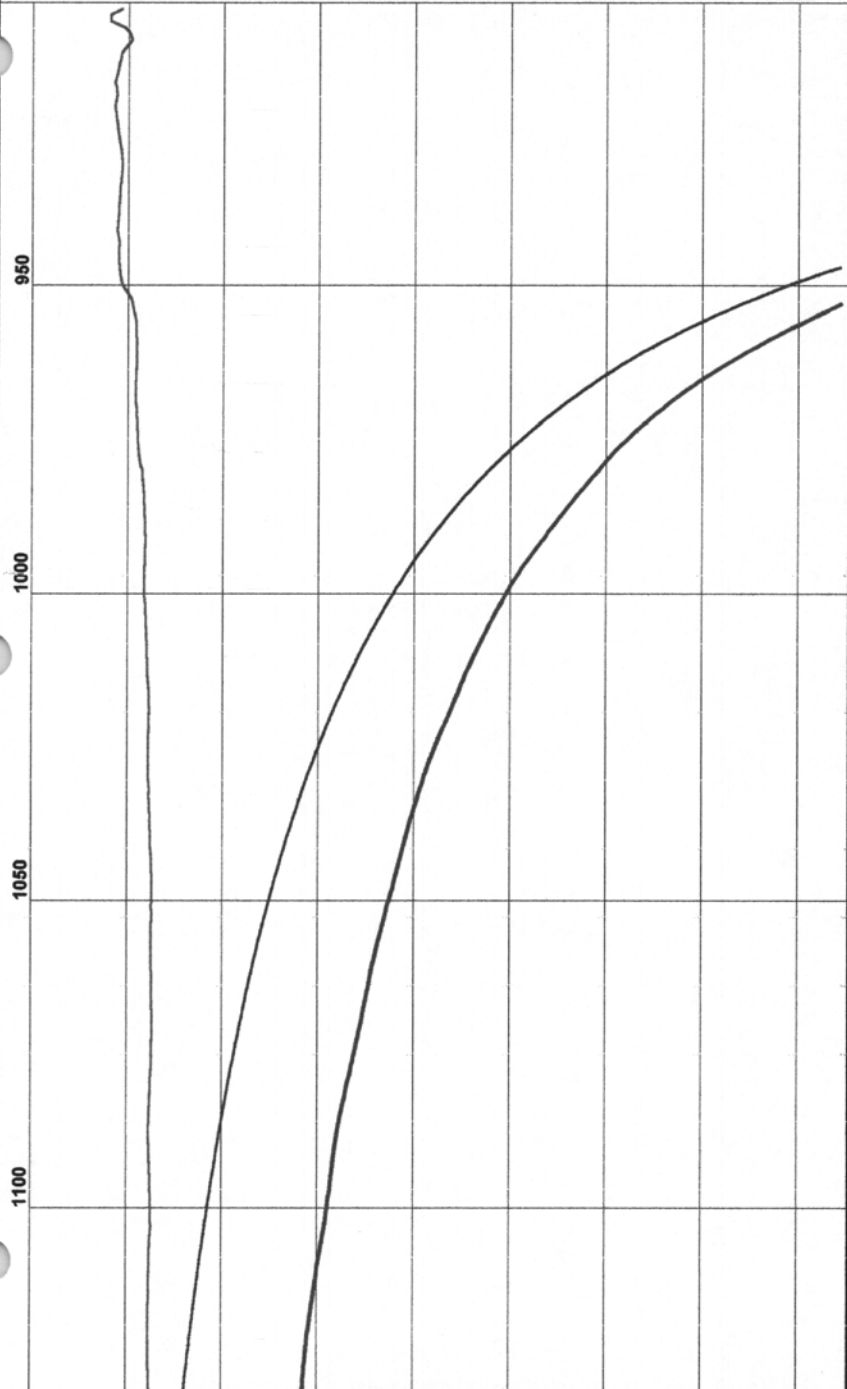


Clay	Fine Sand
Unassigned	

Fluid	Type	FWPOLS	
Density	1350	Filtrate	5.08
		Sand%	0.25
Viscosity	46	Cake	1
		pH	9.5
VP	16	Solids%	16
		Pm	1.3
YP	7.5	Oil%	0
		Pt/Mf	0.25
Gels	1.5-12	Water%	84
		NaCl	4.38

Drilling Cost			
Bit Cost	19178 \$	Rig Cost/h	1896 \$
		Trip Time h	9
Total Cost \$/m	Operating Cost \$/m	Bit & Trip Cost \$/m	Break-even 10\$
100	200	300	400
500	600	700	800

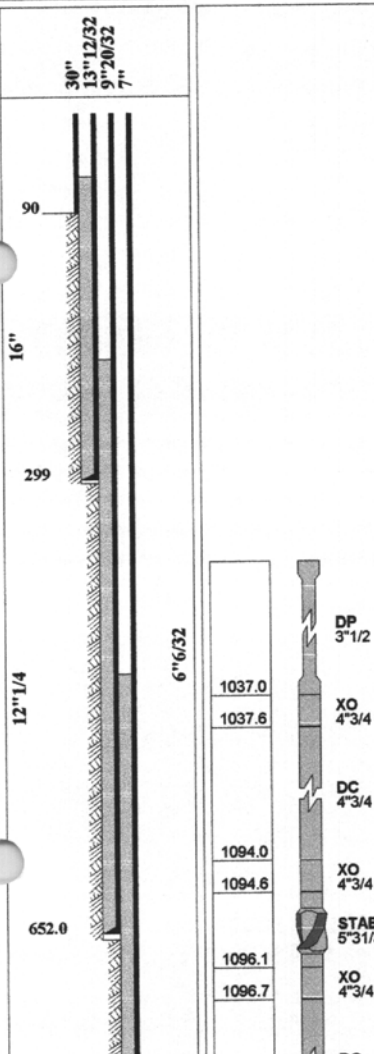
0	ROP	50	0	Flow	5000
0	WOB	5	0	Pres	500
0	RPM	200	0	Dens	2000
			0	Torq	500



WELL JOLE 1	LEASE B.C21.AG	RIG PANON	Spud in Date 04/01/98
CONTRACTOR INA-CROSCO	Analysis from 1100.0 to 1130.0		Printout Date 26/01/98

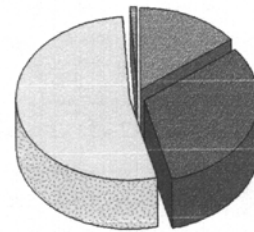
Total depth	: 1130.0 m
Total vertical depth	: 1129.9 m
Hole diameter	: 6"
Mud density	: 1350 g/l
Plastic viscosity	: 16.0 cp
Yield point	: 5.0 g/100cmq
n	: 0.840
k	: 0.053 g/100cmq
Pump output	: 1476 lpm
Pump pressure	: 215 Kg/cmq
Max pump pressure	: 280 Kg/cmq
Horsepower	: 694 HP
Max horsepower	: 4886 HP

PUMPS	Type	Liners	Flow	Press	BIT	N	4	Run	8
1	12 P 160	6.5	3980	280	Type	TD13 M	∅	6"	
2	12 P 160	6.5	3980	280	S/N	7950924	IADC	0	
3					TFA sqin	0.389	Jets	13 13 13	
					From	904.0	To	1130.0	
					Drid Int.	226.0	Hrs	14.8	
					WOB	1.3	RPM	115	
					ROP	15.2	Torque	226	
					WOH	0	↑	0	↓
					Flow	1483	Pressure	201	
					JVel	98	HSI	8.5	
					I	O	D	L	B
					G	O	R		



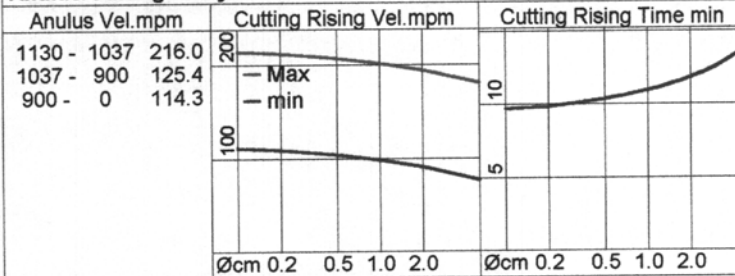
Hydraulic Analysis

		Kg/cmq	%
● Surface		2.1	0.9
DP	104.4		
HWDP	0.0		
DC	18.8		
○ Drill String		123.2	52.9
● Bit		73.5	31.6
● Anulus		34.2	14.7
TOTAL		233.0	Kg/cmq

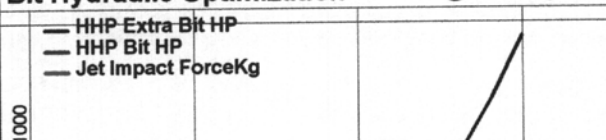


TFA	0.389 sqin	ROP	16.0 m/h	ECD @ TD	1653 g/l
Jet Vel	98 m/s	Cutting Diameter	0.8 cm	ECD @ Shoe	1537 g/l
Jet Imp	331 Kg	Cutting Density	2600 g/l	ECD @ TD (Cutting)	1662 g/l
Jet HP	238 HP	%Ps Cutting @ DC	6.8	ECD @ Shoe (Cutting)	1547 g/l
HSI	8.4 HP/si	%Ps Cutting @ DP	7.3		

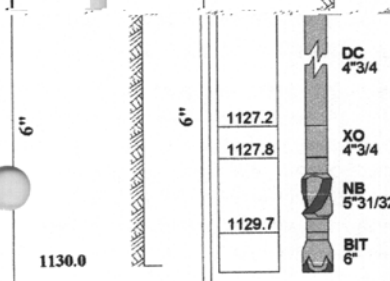
Anulus/Cutting Analysis



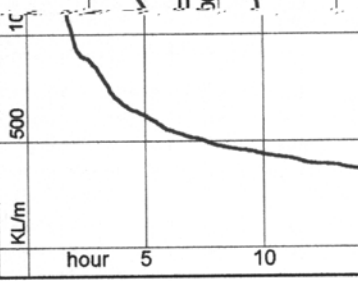
Bit Hydraulic Optimization @ 280 Kg/cmq



Time/Volumes	mc	min
Well	21.6	
String	3.8	3
Anulus	13.9	9
Complete Cycle	17.7	12



	lpm	1000	2000	3000
HYDRAULIC POWER				
Bit @ Loss	185	136	136	Kg/cmq
Optimal Flow Rate	1955	2413	1481	HP
HHP @ Surface	1200	791	721	HP
HHP @ Bit	791	694	736	Kg
Impact Force	694	0.325	0.467	sqin
Recommended TFA	0.325	12.12.12	14.14.15	
Recommended Jets	12.12.12			



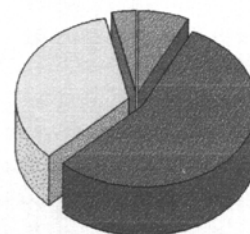
Total depth : 904.0 m
Total vertical depth : 903.9 m
Hole diameter : 8"1/2
Mud density : 1320 g/l
Plastic viscosity : 16.0 cp
Yield point : 8.5 g/100cmq
n : 0.665
k : 0.211 g/100cmq
Pump output : 2159 lpm
Pump pressure : 109 Kg/cmq
Max pump pressure : 280 Kg/cmq
Horsepower : 515 HP
Max horsepower : 4886 HP

PUMPS	Type	Liners	Flow	Press	BIT	N.	Run
1	12 P 160	6.5	3980	280	Type	MHP11G	Ø 8"1/2
2	12 P 160	6.5	3980	280	S/N	DA1222	IADC 117
3					TFA sqin	0.589	Jets 16, 16, 16
					From	657.0	To 904.0
					Drid.Int.	247.0	Hrs 19.9
					WOB	4.3	RPM 118
					ROP	12.4	Torque 312
					WOH	0	0
					Flow	2159	Pressure 109
					JVel	95	HSI 5.4
					I 3 O 3 WT L A B G I NO R TD		

Fluid	Type	FWPOLS
Density	1320	Filtrate 5 Sand% 1
Viscosity	45	Cake 1 pH 9.5
VP	16	Solids% 15 Pm 1.8
YP	8.5	Oil% 0 P/Mf 0.2
Gels	3/8	Water% 86 NaCl 3.8

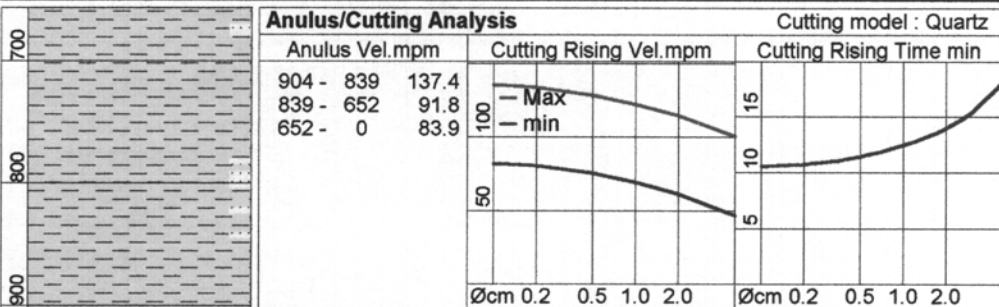
Hydraulic Analysis

	Kg/cmq	%
● Surface	4.2	3.5
DP	32.3	
HWDP	0.1	
DC	9.1	
○ Drill String	41.5	34.2
● Bit	67.1	55.2
● Anulus	8.7	7.1
TOTAL	121.5	Kg/cmq

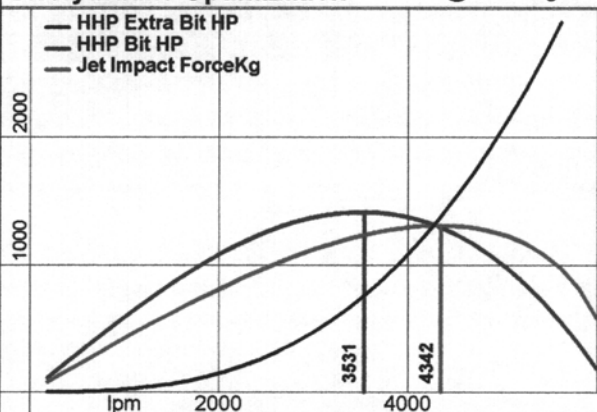


TFA	0.589 sqin	ROP	12.4 m/h	ECD @ TD	1416 g/l
Jet Vel	95 m/s	Cutting Diameter	0.8 cm	ECD @ Shoe	1391 g/l
Jet Imp	457 Kg	Cutting Density	2600 g/l	ECD @ TD (Cutting)	1427 g/l
Jet HP	317 HP	%Ps Cutting @ DC	7.6	ECD @ Shoe (Cutting)	1402 g/l
HSI	5.6 HP/si	%Ps Cutting @ DP	8.2		

Anulus/Cutting Analysis



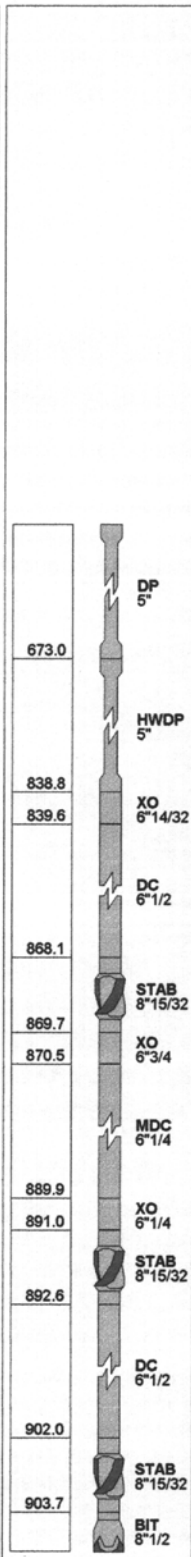
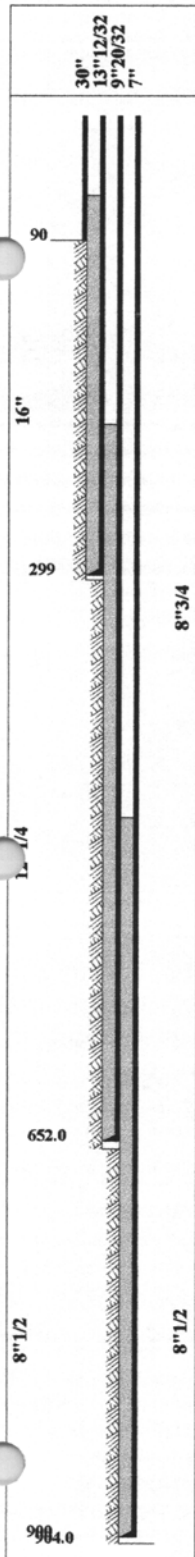
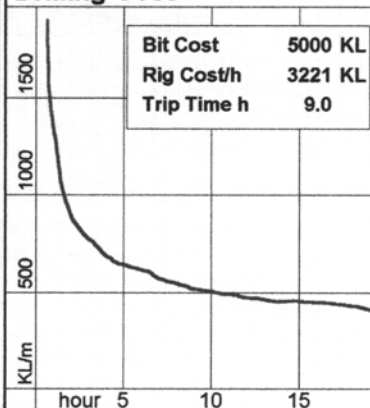
Bit Hydraulic Optimization @ 280 Kg/cmq



	HYDRAULIC POWER	IMPACT FORCE
Bit @ Loss	182	136 Kg/cmq
Optimal Flow Rate	3531	4342 lpm
HHP @ Surface	2167	2666 HP
HHP @ Bit	1412	1292 HP
Impact Force	1232	1307 Kg
Recommended TFA	0.584	0.833 sqin
Recommended Jets	16.16.16	19.19.19

Time/Volumes	mc	min
Well	34.6	
String	7.1	3
Anulus	22.2	10
Complete Cycle	29.3	14
from Shoe	16.8	8

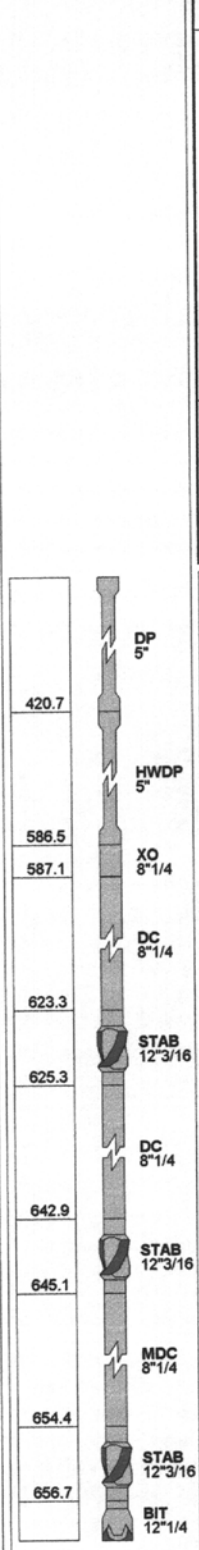
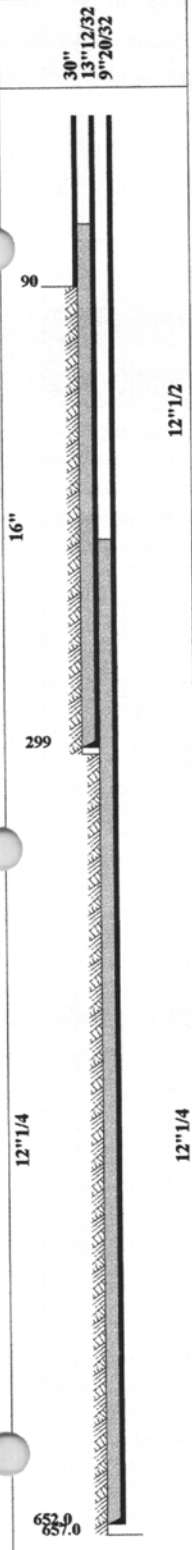
Drilling Cost



WELL JOLE 1	LEASE B.C21.AG	RIG PANON	Spud in Date 04/01/98
CONTRACTOR INA-CROSCO	Analysis from 302.0 to 657.0		Printout Date 23/01/98

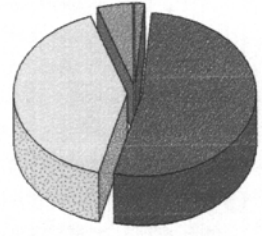
Total depth	: 657.0 m
Total vertical depth	: 657.0 m
Hole diameter	: 12"1/4
Mud density	: 1170 g/l
Plastic viscosity	: 17.0 cp
Yield point	: 7.0 g/100cmq
n	: 1.184
k	: 0.004 g/100cmq
Pump output	: 2742 lpm
Pump pressure	: 102 Kg/cmq
Max pump pressure	: 280 Kg/cmq
Horsepower	: 611 HP
Max horsepower	: 4886 HP

PUMPS	Type	Liners	Flow	Press	BIT	N	2RR	Run	4
1	12 P 160	6.5	3980	280	Type	MHP11G	∅	12"1/4	
2	12 P 160	6.5	3980	280	S/N	MM6481	IADC	117	
3					TFA sqin	0.745	Jets	18 18 18	
					From	302.0	To	657.0	
					Drid.int.	355.0	Hrs	10.5	
					WOB	4.6	RPM	111	
					ROP	33.7	Torque	619	
					WOH	0	↑	0	↓
					Flow	2742	Pressure	102	
					JVel	95	HSI	3.0	
					I 3 O 3 NO L A B 4 G I NO RTD				

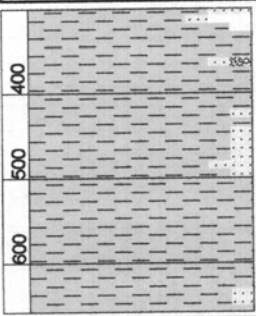


Hydraulic Analysis

		Kg/cmq	%
● Surface		5.8	5.1
DP	36.4		
HWDP	0.1		
DC	9.7		
○ Drill String		46.2	40.7
● Bit		59.9	52.8
● Anulus		1.6	1.4
TOTAL		113.6	Kg/cmq

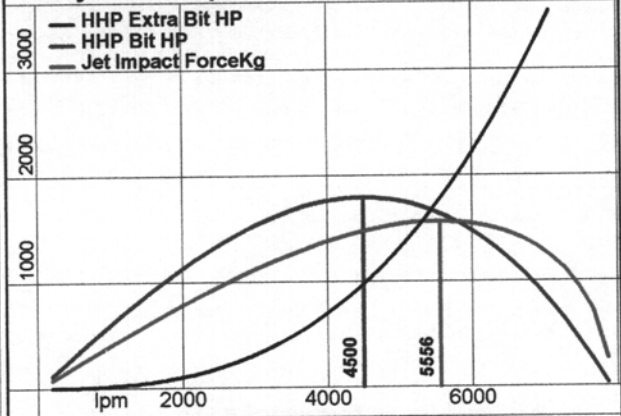


TFA	0.745 sqin	ROP	33.7 m/h	ECD @ TD	1194 g/l
Jet Vel	95 m/s	Cutting Diameter	0.8 cm	ECD @ Shoe	1192 g/l
Jet Imp	516 Kg	Cutting Density	2600 g/l	ECD @ TD (Cutting)	1259 g/l
Jet HP	360 HP	%Ps Cutting @ DC	45.5	ECD @ Shoe (Cutting)	1258 g/l
HSI	3.1 HP/si	%Ps Cutting @ DP	57.0		



Anulus/Cutting Analysis		Cutting model : Quartz	
Anulus Vel.mpm	Cutting Rising Vel.mpm	Cutting Rising Time min	
657 - 587	66.0		
587 - 299	43.6		
299 - 0	41.4		

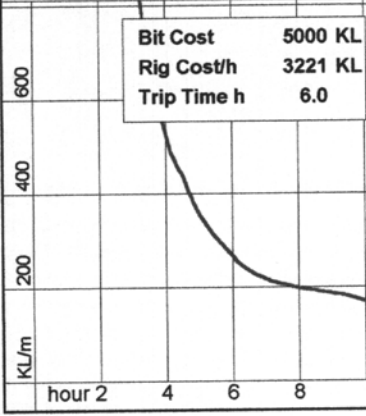
Bit Hydraulic Optimization @ 280 Kg/cmq



	HYDRAULIC POWER	IMPACT FORCE
Bit @ Loss	182	134 Kg/cmq
Optimal Flow Rate	4500	5556 lpm
HHP @ Surface	2763	3411 HP
HHP @ Bit	1793	1638 HP
Impact Force	1476	1567 Kg
Recommended TFA	0.702	1.008 sqin
Recommended Jets	17.17.18	21.21.21

Time/Volumes	mc	min
Well	50.9	
String	4.9	2
Anulus	40.8	15
Complete Cycle	45.7	17
from Shoe	19.8	7

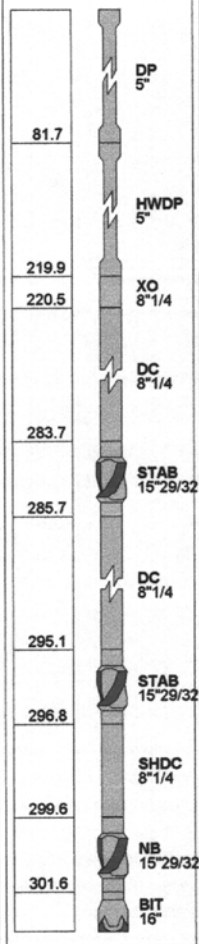
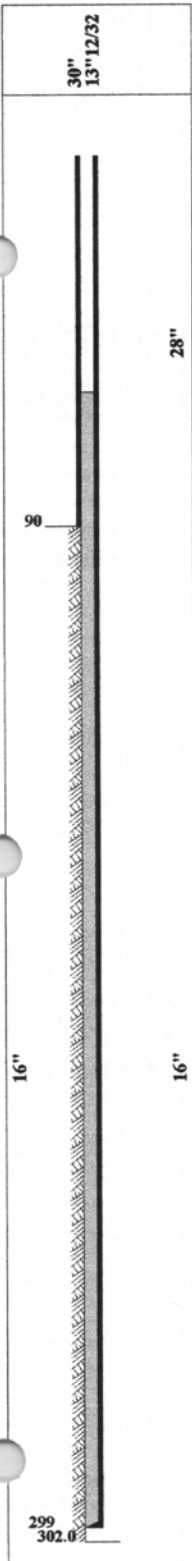
Drilling Cost



WELL	JOLE 1	LEASE	B.C21.AG	RIG	PANON	Spud in Date	04/01/98
CONTRACTOR	INA-CROSCO			Analysis from 90.0 to 302.0		Printout Date	23/01/98

Total depth	: 302.0 m
Total vertical depth	: 302.0 m
Hole diameter	: 16"
Mud density	: 1150 g/l
Plastic viscosity	: 9.0 cp
Yield point	: 11.0 g/100cmq
n	: 0.752
k	: 0.059 g/100cmq
Pump output	: 3104 lpm
Pump pressure	: 149 Kg/cmq
Max pump pressure	: 280 Kg/cmq
Horsepower	: 1012 HP
Max horsepower	: 4886 HP

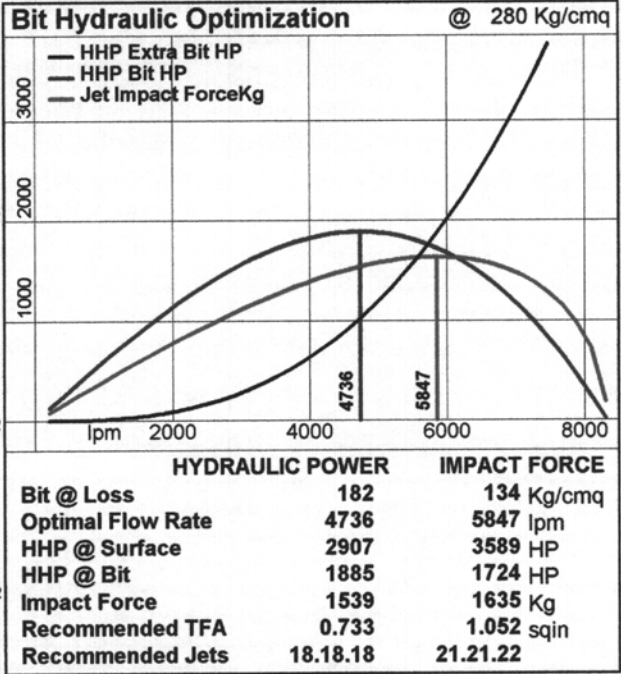
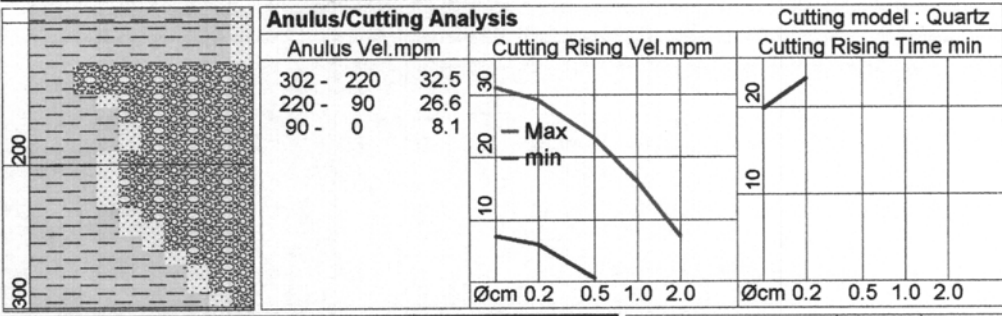
PUMPS	Type	Liners	Flow	Press	BIT	N	1U	Run	1
1	12 P 160	6.5	3980	280	Type	SS44G	Ø		16"
2	12 P 160	6.5	3980	280	S/N	647592	IADC		135
3					TFA sqin	0.589	Jets	16	16
					From	90.0	To		302.0
					Drid. Int.	212.0	Hrs		8.4
					WOB	2.0	RPM		104
					ROP	25.3	Torque		199
					WOH	0	↑	0	↓
					Flow	3104	Pressure		149
					JVel	136	HSI		4.1
					I 2 O 2 NO L A B 2 G 1 NO RTD				



Hydraulic Analysis

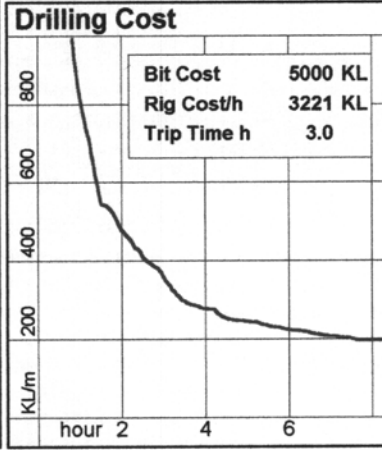
	Kg/cmq	%
● Surface	7.2	4.3
DP	26.7	
HWDP	0.1	
DC	14.0	
○ Drill String	40.8	24.1
● Bit	120.8	71.4
● Anulus	0.4	0.3
TOTAL	169.2	Kg/cmq

TFA	0.589 sqin	ROP	25.3 m/h	ECD @ TD	1165 g/l
Jet Vel	136 m/s	Cutting Diameter	0.8 cm	ECD @ Shoe	1157 g/l
Jet Imp	823 Kg	Cutting Density	2600 g/l	ECD @ TD (Cutting)	1155 g/l
Jet HP	822 HP	%Ps Cutting @ DC	71.7	ECD @ Shoe (Cutting)	1078 g/l
HSI	4.1 HP/si	%Ps Cutting @ DP	-68.4		



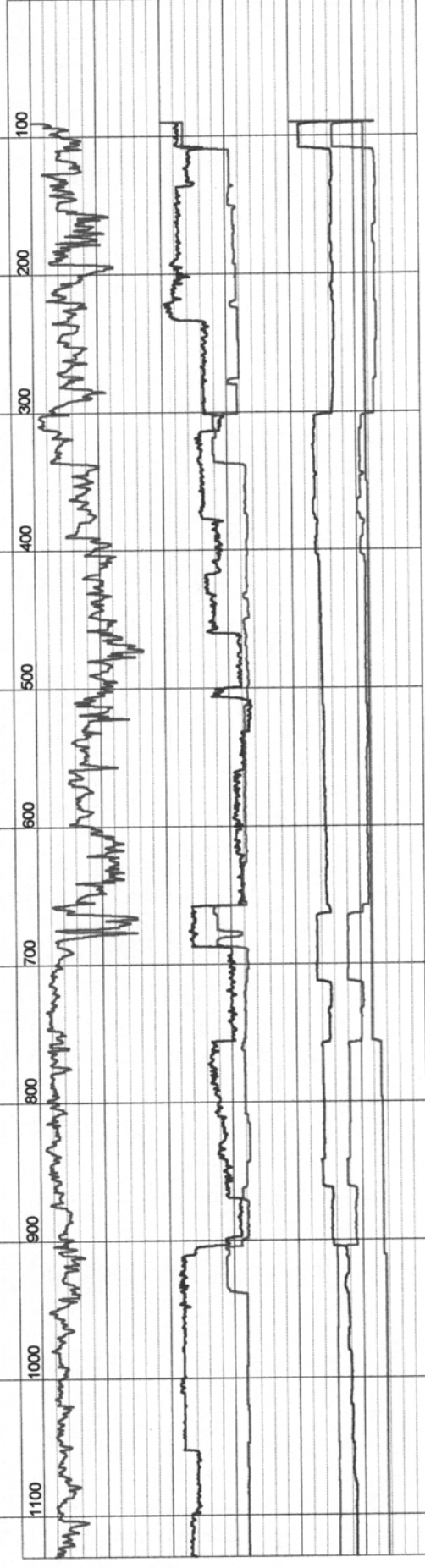
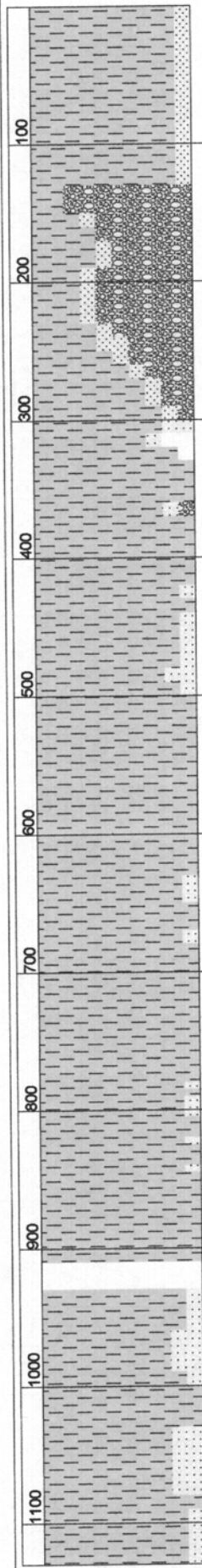
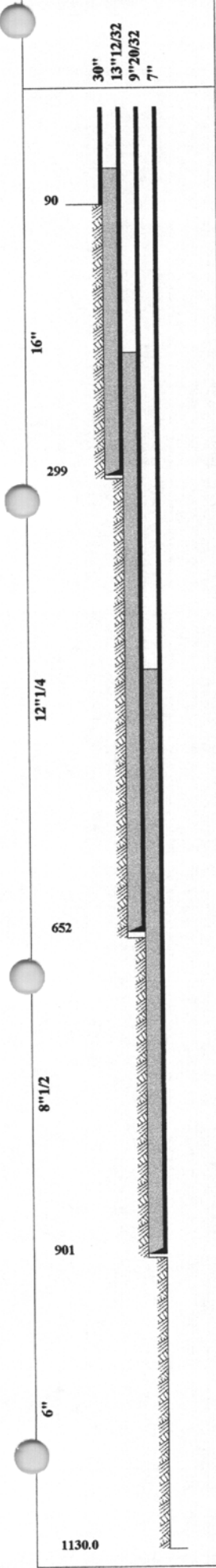
Time/Volumes

	mc	min
Well	63.3	
String	1.7	1
Anulus	57.5	19
Complete Cycle	59.2	19
from Shoe	34.6	11



WELL JOLE 1	LEASE B.C21.AG	RIG PANON	Spud in Date 04/01/98
CONTRACTOR INA-CROSCO	Well Drilling Costs		Printout Date 02/02/98

0	ROP	100	0	WOB	10	0	Flow	5000
0			0			0	Pres	500
0	RPM	200	0	Dens	2000			



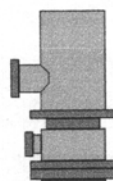
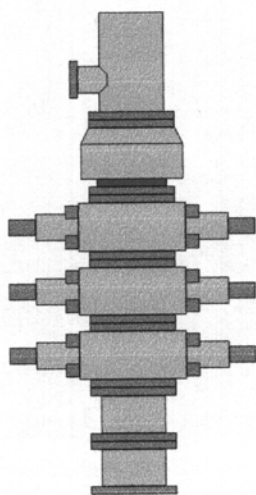
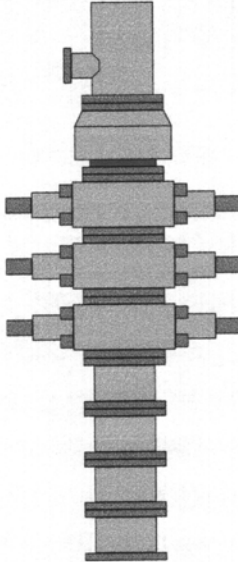
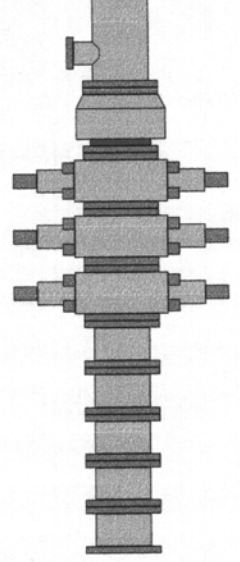


Well: JOLE 1



SEZIONE - III

TESTA POZZO E B.O.P.

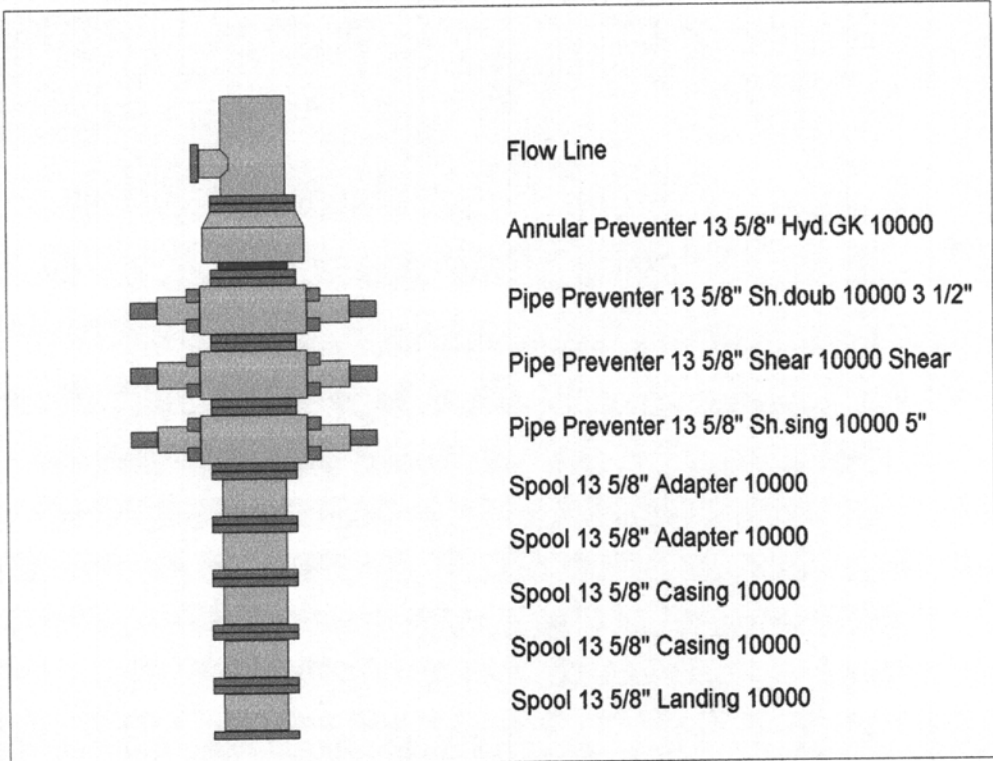
Date	Nominal Diameter	Work Pressure	Date	Nominal Diameter	Work Pressure
04/10/97	29 1/2"	500	09/01/98	13 5/8"	10000
 <p>Flow Line Diverter 29 1/2" Hyd MSP 500 Base Flange 29 1/2" 500</p>			 <p>Flow Line Annular Preventer 13 5/8" Hyd.GK 10000 Pipe Preventer 13 5/8" Sh.doub 10000 5" Pipe Preventer 13 5/8" Shear 10000 Shear Pipe Preventer 13 5/8" Sh.sing 10000 5" Spool 13 5/8" Adapter 10000 Spool 13 5/8" Landing 10000</p>		
Date	Nominal Diameter	Work Pressure	Date	Nominal Diameter	Work Pressure
12/01/98	13 5/8"	10000	20/01/98	13 5/8"	10000
 <p>Flow Line Annular Preventer 13 5/8" Hyd.GK 10000 Pipe Preventer 13 5/8" Sh.doub 10000 5" Pipe Preventer 13 5/8" Shear 10000 Shear Pipe Preventer 13 5/8" Sh.Sing 10000 5" Spool 13 5/8" Adapter 10000 Spool 13 5/8" Adapter 10000 Spool 13 5/8" Casing 10000 Spool 13 5/8" Landing 10000</p>			 <p>Flow Line Annular Preventer 13 5/8" Hyd.GK 10000 Pipe Preventer 13 5/8" Sh.doub 10000 3 1/2" Pipe Preventer 13 5/8" Shear 10000 Shear Pipe Preventer 13 5/8" Sh.sing 10000 5" Spool 13 5/8" Adapter 10000 Spool 13 5/8" Adapter 10000 Spool 13 5/8" Casing 10000 Spool 13 5/8" Casing 10000 Spool 13 5/8" Landing 10000</p>		

JOLE 1

Date 20/01/98

Nominal Diameter 13 5/8"

Work Pressure 10000

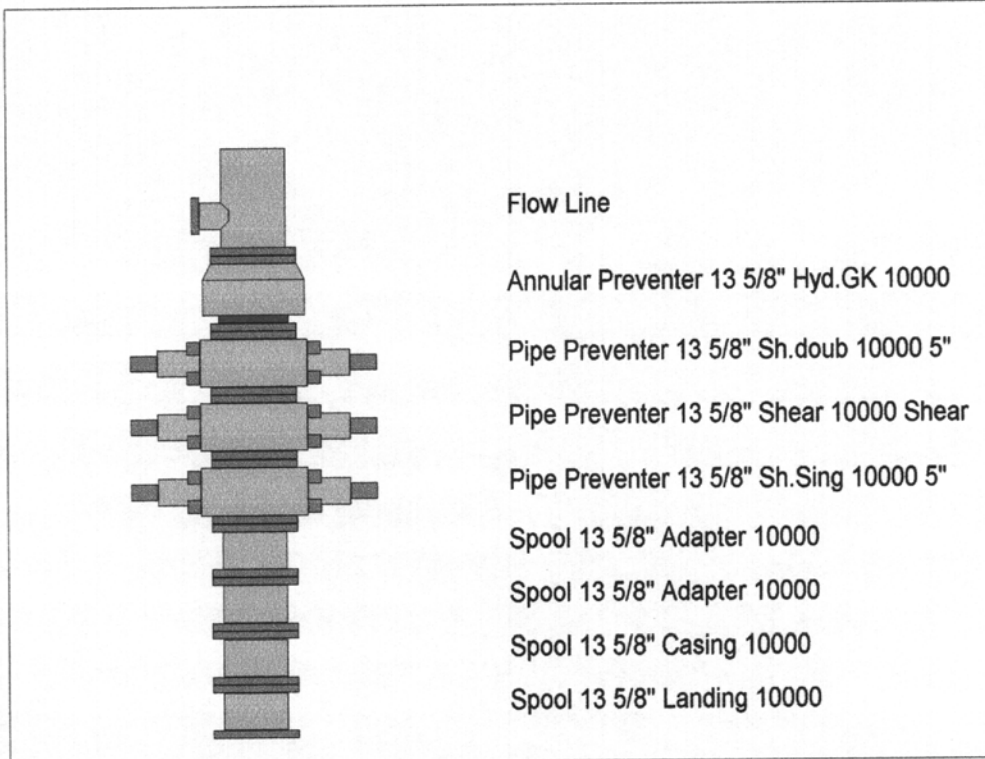


JOLE 1

Date 12/01/98

Nominal Diameter 13 5/8"

Work Pressure 10000

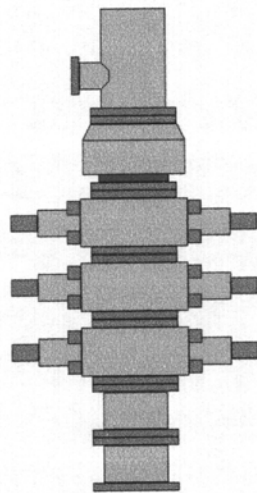


JOLE 1

Date 09/01/98

Nominal Diameter 13 5/8"

Work Pressure 10000



Flow Line

Annular Preventer 13 5/8" Hyd.GK 10000

Pipe Preventer 13 5/8" Sh.doub 10000 5"

Pipe Preventer 13 5/8" Shear 10000 Shear

Pipe Preventer 13 5/8" Sh.sing 10000 5"

Spool 13 5/8" Adapter 10000

Spool 13 5/8" Landing 10000



Well: JOLE 1



SEZIONE - III

FANGO DI PERFORAZIONE

Drilling Fluid

Depth	Type	Dens	Visc	VP	YP	Gels	Filtr	HP/HT	Cake	Solid	Oil	Water	Sand	pH	Pm	Pf	NaCl	Dilut	Ca++
m		g/l	sec	cP	#100sf	#100sf	cc		mm	%	%	%	%		cc	cc	g/l	l/mc	ppm
90	FWGE	1100	55	0	0	0	0	0	0	6	0	94	1	10	0	0	3.4		
302	FWGE	1150	52	9	11	9/26	15	0	1	8	0	92	1	9.5	0.9	0.1/0.5	3.4	0	0
350	FWPOLS	1150	50	12	8.0	4-8	5	0	1	8	0		1	9	1	0.1-0.6	4.5		0.25
657	FWPOLS	1170	54	17	7.0	3-10	4	0	1	10	0		1	9.5	0.8	0.1-0.5	4		0.2
730	FWPOLS	1170	45	14	7.5	2-6	0	1	1.0	9	0		1	11.0	2	0.7-	3.9		Tr
756	FWPOLS	1300	46	16	8	2/6	5	0	1	14	0	86	1	10.5	10.		0		
797	FWPOLS	1320	45	16	8.5	3/8	5	0	1	14	0	86	1	10.5	10.5	0.6	3.8		tr
864	FWPOLS	1320	49	16	8.5	4/15	6	0	1	14	0	86	1	10	2	0.3	3.8		tr
904	FWPOLS	1320	45	16	8.5	3/8	5	0	1	15	0	86	1	9.5	1.8	0.2	3.8		tr
1069	FWPOLS	1350	44	16	5	1.5-5	5.6	0	1	16	0		0.25	9.5	1.4	0.3/	4.38		Tr
1130	FWPOLS	1350	46	16	7.5	1.5-12	5.08	0	1	16	0	84	0.25	9.5	1.3	0.25	4.38		Tr



Well: JOLE 1



SEZIONE - III

TABELLA CASING

Well: JOLE 1

	Riv. 1	Riv. 2	Riv. 3	Riv. 4
	30"	13 3/8"	9 5/8"	7"
tipo	C.P.	casing	casing	casing
da m	15.3	15.3	15.3	15.3
a m	90	299	652	901
lunghezza m	74.7	283.7	636.7	885.7
diametro foro		16"	12 1/4"	8 1/2"
fondo pozzo		302	657	904

Profilo Rivestimento n. 1								
da m	a m.	lungh.	giunti	diam.	grado	lb/ft	filetto	prof.DV
15.3	90	74.7		30	X-52		saldato	

Profilo Rivestimento n. 2								
da m	a m.	lungh.	giunti	diam.	grado	lb/ft	filetto	prof.DV
15.3	299	283.7	23	13 3/8	J55	61	DANT	

Profilo Rivestimento n. 3								
da m	a m.	lungh.	giunti	diam.	grado	lb/ft	filetto	prof.DV
15.3	652	636.7	52	9 5/8	J55	40	DAMS	

Profilo Rivestimento n. 4								
da m	a m.	lungh.	giunti	diam.	grado	lb/ft	filetto	prof.DV
15.3	901	885.7	72	7	L80	29	DAMS	



Well: JOLE 1



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SEZIONE - III

TABELLA CEMENTAZIONI

RIVESTIMENTO 1

diámetro CSG	30"
tipo	C.P.
da m	15.3
a m	90
lunghezza m	74.7
diámetro foro	
fondo pozzo	

IDENTIFICAZIONE

COMPOSIZIONE DELLA MALTA

QUANT.

RIV. 1 Non e` stato cementato perche` battuto a rifiuto

TABELLA CEMENTAZIONI

Well: JOLE 1

RIVESTIMENTO 2

diámetro CSG
tipo
da m
a m
lunghezza m
diámetro foro
fondo pozo m

13 3/8"
casing
15.3
299
283.7
16"
302

IDENTIFICAZIONE

COMPOSIZIONE DELLA MALTA

QUANT.

RIV. 2	Cemt. 1	Stadio 1	Risalita teo. a m 41 (fondo mare)	Malta 1	Cemento Geoterm	24.2 t
					Bentonite 8 %	1936 Kg
					Acqua di mare	25.6 mc
					Densita'	1500 g/l
				Malta 2	Cemento Geoterm	33.4 t
					Acqua di mare	13.3 mc
					Densita'	1980 g/l

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RIVESTIMENTO 3

diámetro CSG 9 5/8"
tipo casing
da m 15.3
a m 652
lunghezza m 636.7
diámetro foro 12 1/4"
fondo pozzo 657

IDENTIFICAZIONE

COMPOSIZIONE DELLA MALTA

QUANT.

RIV. 3	Cemt. 1	Stadio 1	Risalita' teo. a m 200	Malta 1	Cemento Geoterm	24.4 t
					Densita'	1900 g/l

RIVESTIMENTO 4

diámetro CSG
tipo
da m
a m
lunghezza m
diámetro foro
fondo pozo

7"
casing
15.3
901
885.7
8 1/2"
904

COMPOSIZIONE DELLA MALTA

QUANT.

1ZIONE

RIV. 4	Cemt.1	Stadio 1	Risalita' teo. a m 450	Malta 1	Cemento Geoterm Densita'	5.04 t 1500 g/l
					Acqua di mare CFR3 0.5 %	5.16 mc 25.2 Kg
					Halad 344 0.8 % Microblock 40 %	40.32 Kg 2016 l



Well: JOLE 1

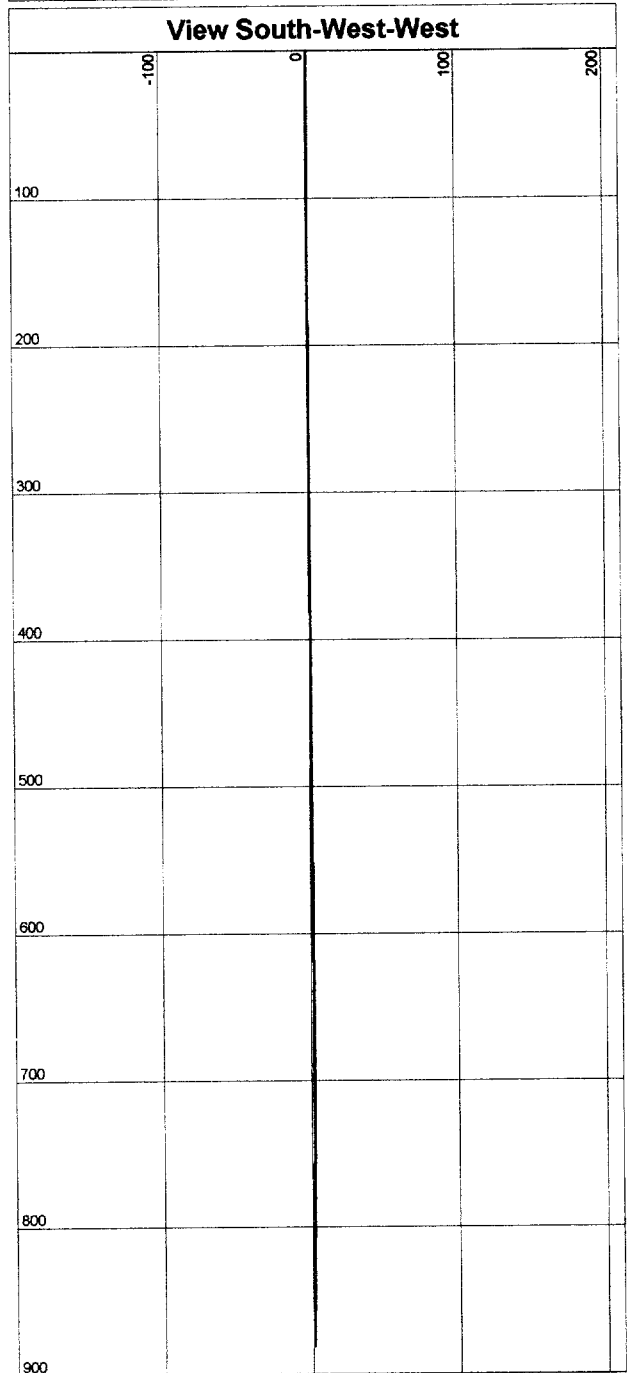
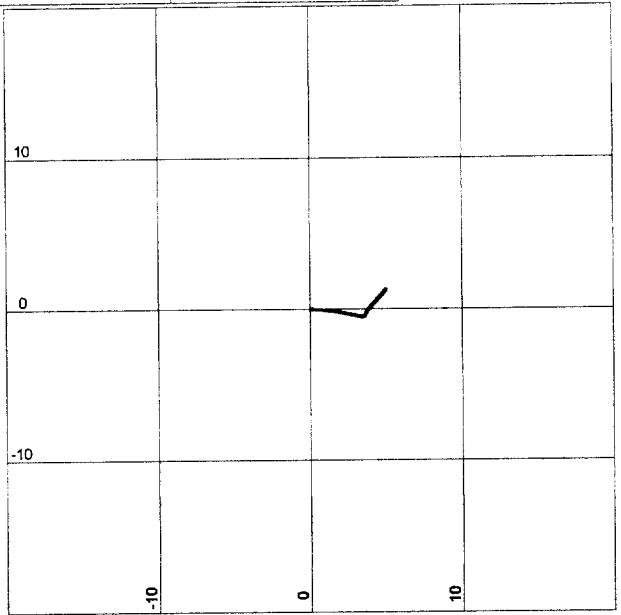


SEZIONE - III

DEVIAZIONI

Deviation

Depth	Vert	Incl°	Dir°	East	North	Dev	DogLeg
453	453.0	0.50	95.0	1.58	-0.14	1.6	0.04
652	652.0	0.50	110.0	3.26	-0.51	3.3	0.02
732	732.0	0.80	14.0	3.72	-0.09	3.7	0.37
881	881.0	0.80	70.0	4.95	1.28	5.1	0.15





Well: JOLE 1



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SEZIONE - III

LOG PARAMETRI DI PERFORAZIONE



Well: JOLE 1



PROBLEMI POZZO

SEZIONE - III

PROBLEMI POZZO

FASE Ø 16" (da m 90 @ m 302)

Durante la perforazione della fase suddetta non si sono verificati problemi che abbiano causato alcuna perdita di tempo.

Nel perforare le zone caratterizzate da CIOTTOLI e SABBIE da m 150 a fine fase, si sono riscontrati 25 mc di assorbimento (fango FWGE D=1150 g/l) .

FASE Ø 12" 1/4 (da m 302 @ m 657)

Per il fresaggio scarpa, cemento e perforazione della fase in oggetto si e' disceso la seguente BHA : BIT - NB - SHDC - STAB - MONEL - STAB - 2 DC 8 1/4 - STAB - 3 DC 8 1/4 - 15 HWDP , dopo aver riscontrato il top scarpa a m 298 si provvedeva al fresaggio della stessa con esito negativo causa elevata Torsione e avanzamento nullo, per cui si decideva per la conseguente estrazione. Dopo aver verificato l' integrita' dei vari Tool della BHA si assemblava nuova BHA cosi' composta : BIT - NB - MONEL - STAB - 2 DC 8 1/4 - STAB - 4 DC 8 1/4 - 15 HWDP.

Dopo aver ridisceso BHA su top scarpa si riprendevano le operazioni di fresaggio con esito positivo.

L' inconveniente sopra esposto ha comportato una perdita di tempo complessiva di ore 7 .

FASE Ø 8"1/2 (da m 657 a m 904)

La fase in oggetto e' stata caratterizzata da talora consistenti manifestazioni gassose iniziate in corrispondenza dell' Obiettivo principale del pozzo (Sabbie di Carassai del Pliocene medio-super.) ; nel corso delle regolari operazioni di perforazione, si decideva di arrestare la stessa a m 756 in presenza di manifestazioni corrispondenti al 12 % di Gas, per l' esecuzione di una carota di fondo con lo scopo di definire le caratteristiche granulometriche del serbatoio.

Dopo aver circolato il fondo (Densita'fango = 1170 g/l) senza riscontrare alcun problema,si arrestava la circolazione e si eseguiva un controllo statico prima di iniziare la manovra di estrazione ; dopo circa 30 min il pozzo iniziava a scaricare per cui si provvedeva all' immediata chiusura rilevando SIDPP = 7 Kg/cm2 SICP = 12 Kg/cm2 ,pompatò Kill Mud D = 1300 g/l e circolato sotto choke ; Press. Iniziale circolaz. = 17 Kg/cm2 - Press. Finale circolaz. = 11 Kg/cm2 ,al termine della circolazione con fango pesante eseguito controllo statico con esito positivo.

Per motivi di sicurezza operativa si decideva per la non esecuzione della carota prevista.

Al fine di determinare con maggior accuratezza il Gradiente di fratturazione e' stato eseguito un secondo "Formation Integrity Test" ,ottenendo un valore di E.M.W. = 1.39 Kg/cm² (F. I. T. n.1 E.M.W. = 1.35 Kg/cm²) e conseguente appesantimento del fango da 1300 a 1320 g/l .

La fase veniva ultimata a m 904 rilevando la presenza di Drilling Gas di notevole entita' (Max 10-11 %) che non ha comunque rappresentato problemi nel corso delle varie operazioni.

Alla profondita' di m 899 si eseguiva un controllo foro in scarpa 9 5/8" con sovrattiri Max di 10 t a m 840 e m 815 .

FASE Ø 6" (da m 904 a m 1130)

Durante la perforazione di questa fase non si e` verificato alcun tipo di problema.



Well: JOLE 1



RAPPORTO FINALE
WELL : JOLE 1

SEZIONE IV

ANALISI DEI TEMPI

- Analisi Tempi totale *TABELLA*

- Analisi dei tempi per Fase *TABELLA*

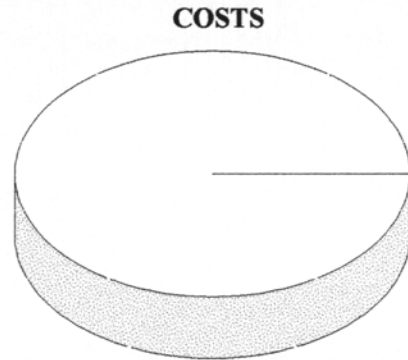
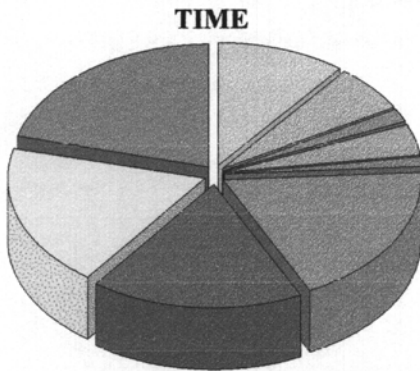


Well: JOLE 1



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ANALISI TEMPI TOTALE



	% Time	% Costs
PERFORAZIONE	20.83	
TUBAGGI_CEMENTAZION	18.80	
FLANGIA APPAR. SICURE	18.70	
PROVE DI PRODUZIONE	4.07	
ATTESE	1.76	
CONDUCTOR PIPE	10.56	

	% Time	% Costs
CAROTAGGIO	0.19	
LOGS ELETTRICI	17.41	
MANIFESTAZIONI ED ERU	1.30	
SOSTE PER RIPARAZIONI	0.19	
SPOSTAMENTO IMPIANTC	6.20	



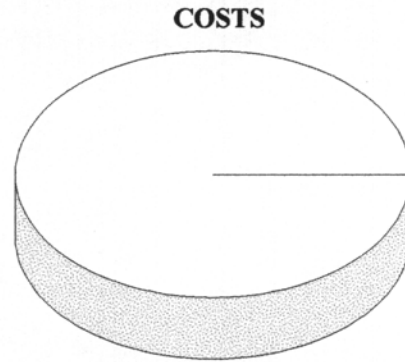
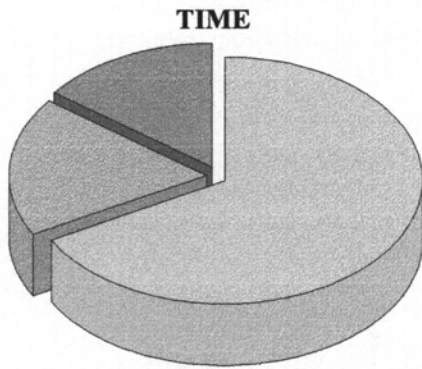
Well: JOLE 1



ANALISI TEMPI PER FASE

JOLE 1

TIME PHASE INITIAL : 04/01/98 @ 0.0 ... 08/01/98 @ 82.0 [KL]

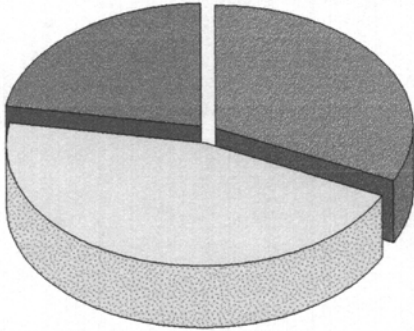


	% Time	% Costs
FLANGIA APPAR. SICURE	14.71	
CONDUCTOR PIPE	67.06	

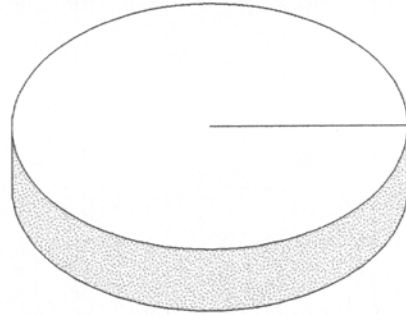
	% Time	% Costs
SPOSTAMENTO IMPIANTO	18.24	

TIME PHASE 16" : 08/01/98 @ 82.0 ... 11/01/98 @ 302.0 [KL]

TIME
















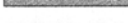








COSTS



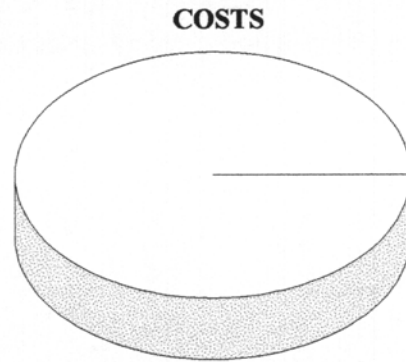
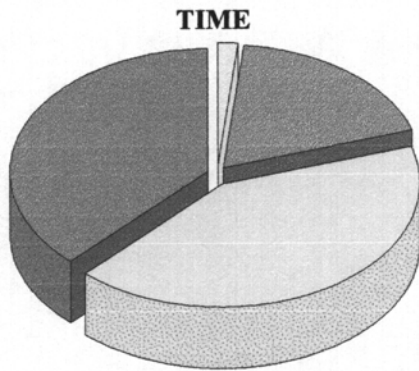
	% Time	% Costs
PERFORAZIONE	22.15	
FLANGIA APPAR. SICURE	32.21	

	% Time	% Costs
TUBAGGI CEMENTAZION	45.64	

Description	Time		Costs		% Time				
	Hrs	%	Cost	%	% Costs				
					%	5	10	15	20
PERFORAZIONE	22.5	37.8							
PERFORAZIONE VERTICALE	14.5	24.4							
CIRCOLAZIONE PER CONDIZIONA	1.5	2.5							
RILEV. DEVIAT. CON SISTEMI STA	2.0	3.4							
ESTRAZIONE IN BACK REAMING	2.0	3.4							
BIT SCARPA-1 DC A GIORNO	1.5	2.5							
1 DC A GIORNO-BIT A GIORNO	1.0	1.7							
TUBAGGI_CEMENTAZIONI	25.0	42.0							
PREPARATIVI PER IL TUBAGGIO	1.0	1.7							
DISCESA CASING	6.0	10.1							
CIRCOLAZIONI INTERM. E FINALI	1.5	2.5							
CEMENTAZIONE	1.5	2.5							
ATTESA PRESA CEMENTO	4.0	6.7							
FRESAGGIO CEMENTO	2.5	4.2							
MANOVRE PER FRESAGGIO CEME	4.5	7.6							
ALTRE OPERAZIONI	4.0	6.7							
FLANGIA APPAR. SICUREZZA	11.0	18.5							
MONTAGGIO INFLANGIATURE/PA	5.0	8.4							
MONTAGGIO BOP	3.0	5.0							
COLLAUDI	3.0	5.0							
SOSTE PER RIPARAZIONI	1.0	1.7							
RIPARAZIONI IMPIANTO	1.0	1.7							
TOTAL	59.5								

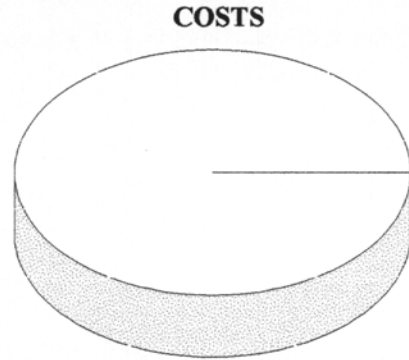
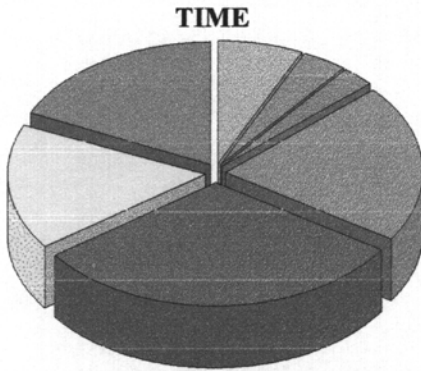
JOLE 1

TIME PHASE 12" 1/4 : 11/01/98 @ 302.0 ... 13/01/98 @ 657.0 [KL]



	% Time	% Costs
PERFORAZIONE	37.82	
FLANGIA APPAR. SICURE	18.49	

	% Time	% Costs
TUBAGGI_CEMENTAZION	42.02	
SOSTE PER RIPARAZIONI	1.68	

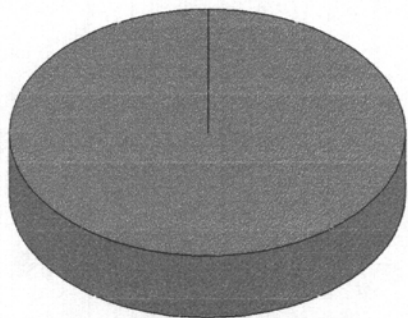


	% Time	% Costs
PERFORAZIONE	18.06	
TUBAGGI CEMENTAZIONE	16.50	
FLANGIA APPAR. SICURE	20.78	
ATTESE	3.69	

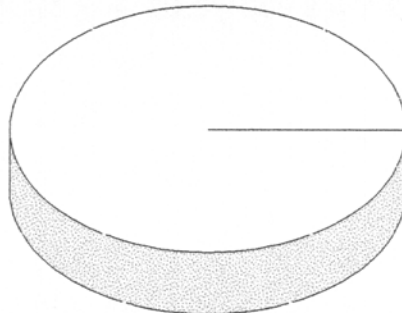
	% Time	% Costs
CAROTAGGIO	0.39	
LOGS ELETTRICI	30.87	
MANIFESTAZIONI ED ERU	2.72	
SPOSTAMENTO IMPIANTO	6.99	

TIME PHASE 6" : 24/01/98 @ 904.0 ... 25/01/98 @ 1071.0 [KL]

TIME



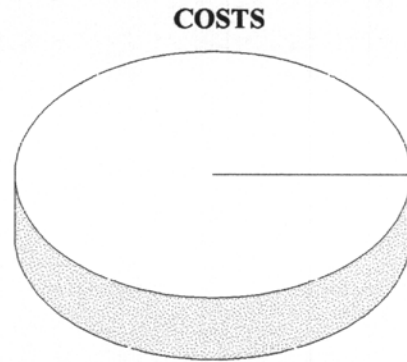
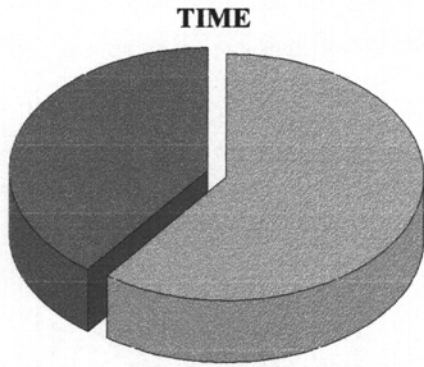
COSTS



	% Time	% Costs
PERFORAZIONE	100.00	

Description	Time		Costs		% Time					
	Hrs	%	Cost	%	% Costs					
					%	5	10	15	20	25
LOGS ELETTRICI	14.5	39.7			[Progress bar]					
REGISTRAZIONE LOG E CAR. DI P	13.5	37.0			[Progress bar]					
R/U E R/D COMPAGNIA SERVIZIO	1.0	2.7			[Progress bar]					
PROVE DI PRODUZIONE	22.0	60.3			[Progress bar]					
CONDIZIONAMENTO FANGO E MA	1.5	4.1			[Progress bar]					
B.P,TAPPI CMT,TAPPI SABBIA E M	12.0	32.9			[Progress bar]					
FRESAGGIO TAPPI E MANOVRE	8.5	23.3			[Progress bar]					
TOTAL	36.5				[Progress bar]					

TIME PHASE TESTING : 25/01/98 @ 1130.0 ... 26/01/98 @ 1130.0 [KL]



	% Time	% Costs
LOGS ELETTRICI	39.73	

	% Time	% Costs
PROVE DI PRODUZIONE	60.27	



Well: JOLE 1



RAPPORTO FINALE
WELL : JOLE 1

SEZIONE V

ANALISI DELLE PRESSIONI

- | | |
|--------------------------------------|-------------|
| - <i>Sigma Log (SCALA 1:10.000)</i> | <i>PLOT</i> |
| - <i>Sigma Log (SCALA 1:1.000)</i> | <i>PLOT</i> |
| - <i>D Exponent (SCALA 1:10.000)</i> | <i>PLOT</i> |
| - <i>D Exponent (SCALA 1:10.000)</i> | <i>PLOT</i> |



Well: JOLE 1



SIGMA LOG (SCALA 1:10.000)

Sulla base di quanto e' emerso nel corso della perforazione del pozzo in oggetto si deduce quanto segue :

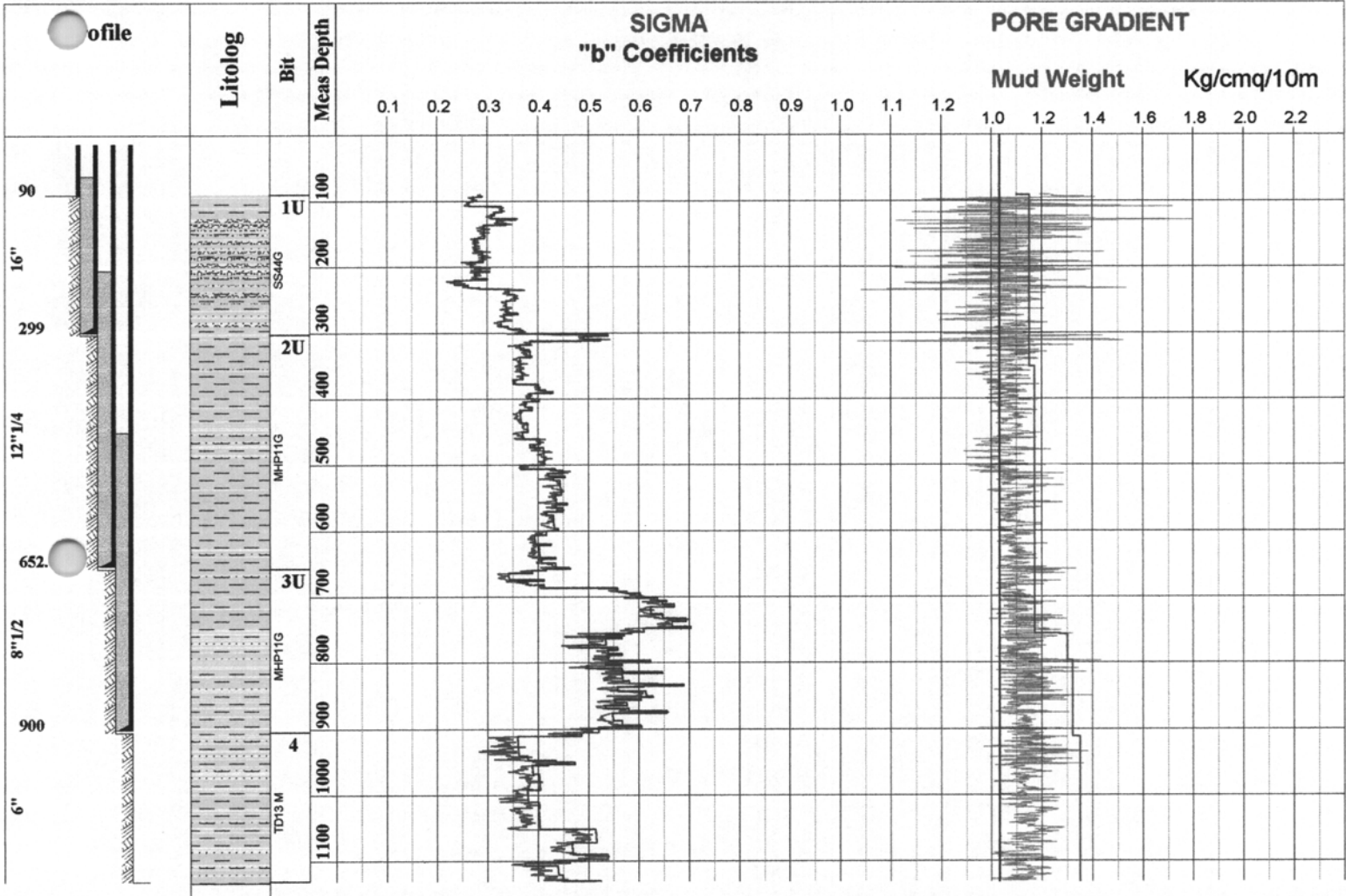
durante la fase da 16" (da m 90 a m 302), perforata con fango tipo FWGE a $D = 1.15 \text{ Kg/l}$ si puo' attribuire al gradiente interstiziale valori compresi tra 1.03 e $1.07 \text{ Kg/cm}^2/10 \text{ m}$ e quindi rientranti nella normalita' ; la litologia attraversata era costituita da Argilla con intercalazioni di Sabbia fino a m 120 con successive alternanze di Ciottoli e Argilla verso il bottom dell' intervallo.

Dall' analisi della curva del Sigma relativa all' intervallo della fase n.2 (da m 302 a m 657) si ha la conferma del mantenimento di valori del gradiente rientranti nella normalita' ; l' intervallo e' stato perforato con l' ausilio di fango FWGE a $D = 1.15 \div 1.17 \text{ Kg/l}$; la litologia prevalente e' stata caratterizzata da Argilla con rari livelli di Sabbia e non si e' riscontrata presenza di manifestazioni significative.

La successiva fase da 8 1/2" (da m 657 a m 904) e' iniziata con fango tipo FWPOLs a $D = 1.17 \text{ Kg/l}$; a m 756 , in presenza di consistenti manifestazioni gassose corrispondenti all' obiettivo del pozzo (Sabbie di Carassai), si arrestava la perforazione per l'esecuzione di una carota di fondo ; al termine della circolazione, durante il controllo statico il pozzo scaricava, per cui si provvedeva all' immediata chiusura e alla circolazione sotto duse con fango $D = 1.3 \text{ Kg/l}$ fino all'espulsione completa del cuscino di gas.

Da quanto sopra esposto, oltre all' analisi dell' elaborazione del Sigma, risulta evidente un sensibile aumento del gradiente dei pori da circa m 750 con valori che con buona approssimazione possiamo considerare intorno a $1.25 \text{ Kg/cm}^2/10 \text{ m}$, la fase si completava incrementando densita' fango = 1.32 Kg/cm^2 senza registrare ulteriori inconvenienti nonostante le successive consistenti manifestazioni.

Nell' ultima fase di perforazione da 6" (da m 904 a m 1130) il fango di tipo FWPOLs e' stato aumentato dopo un leak off test fuori scarpa (E.M.W. 1.8 Kg/l) a 1.35 Kg/l e mantenuto tale fino a fine fase. In perforazione abbiamo avuto un back ground gas costante dello 0.2-0.3 %, senza registrare importanti fenomeni gassosi. La litologia era caratterizzata dalla prevalenza di Argilla con livelli di Sabbia. Durante tutto l'intervallo relativo all'ultima fase il gradiente dei pori si e' mantenuto sui valori di $1.1-1.2 \text{ Kg/cm}^2/10 \text{ m}$ e non si e' registrato nessun problema.

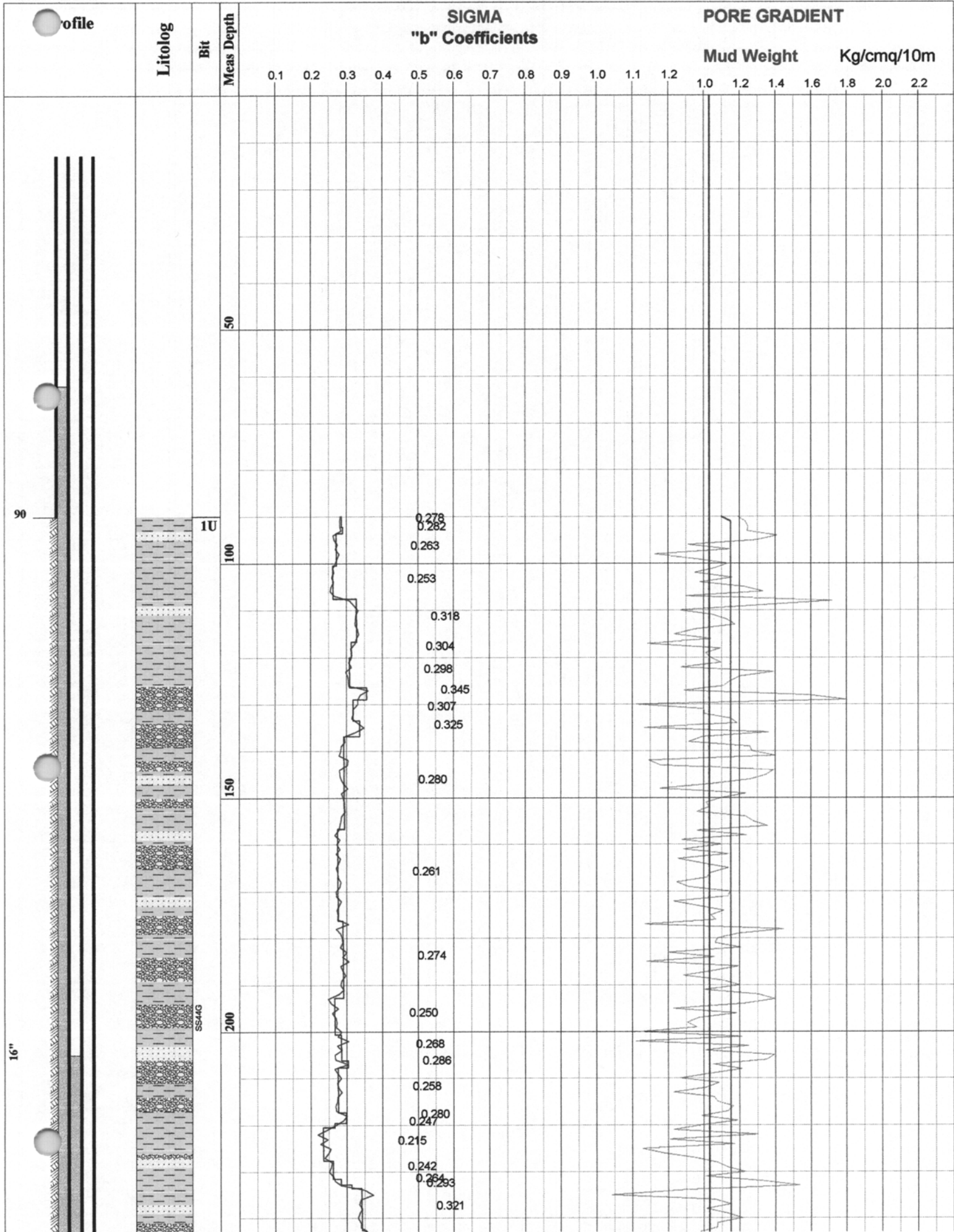


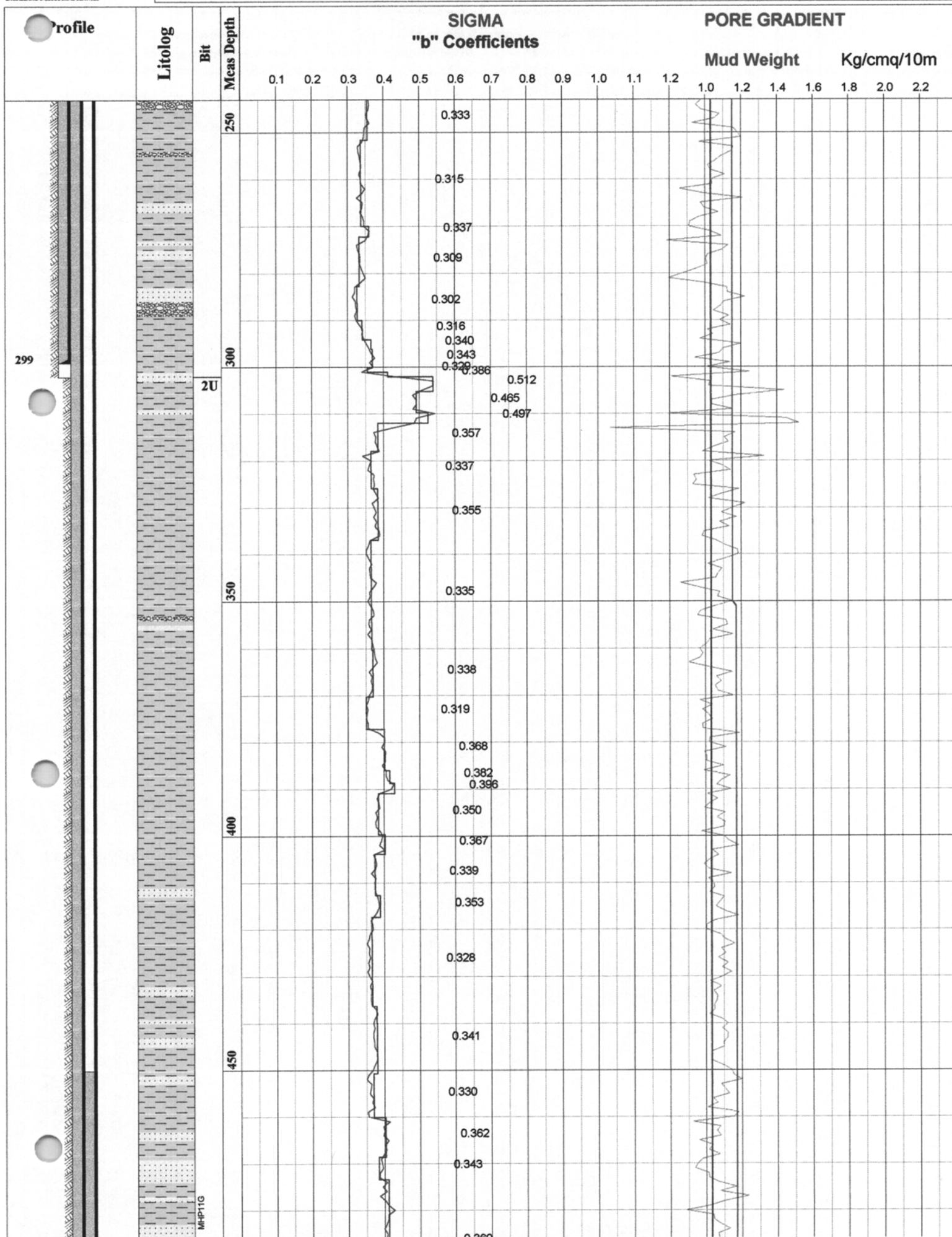


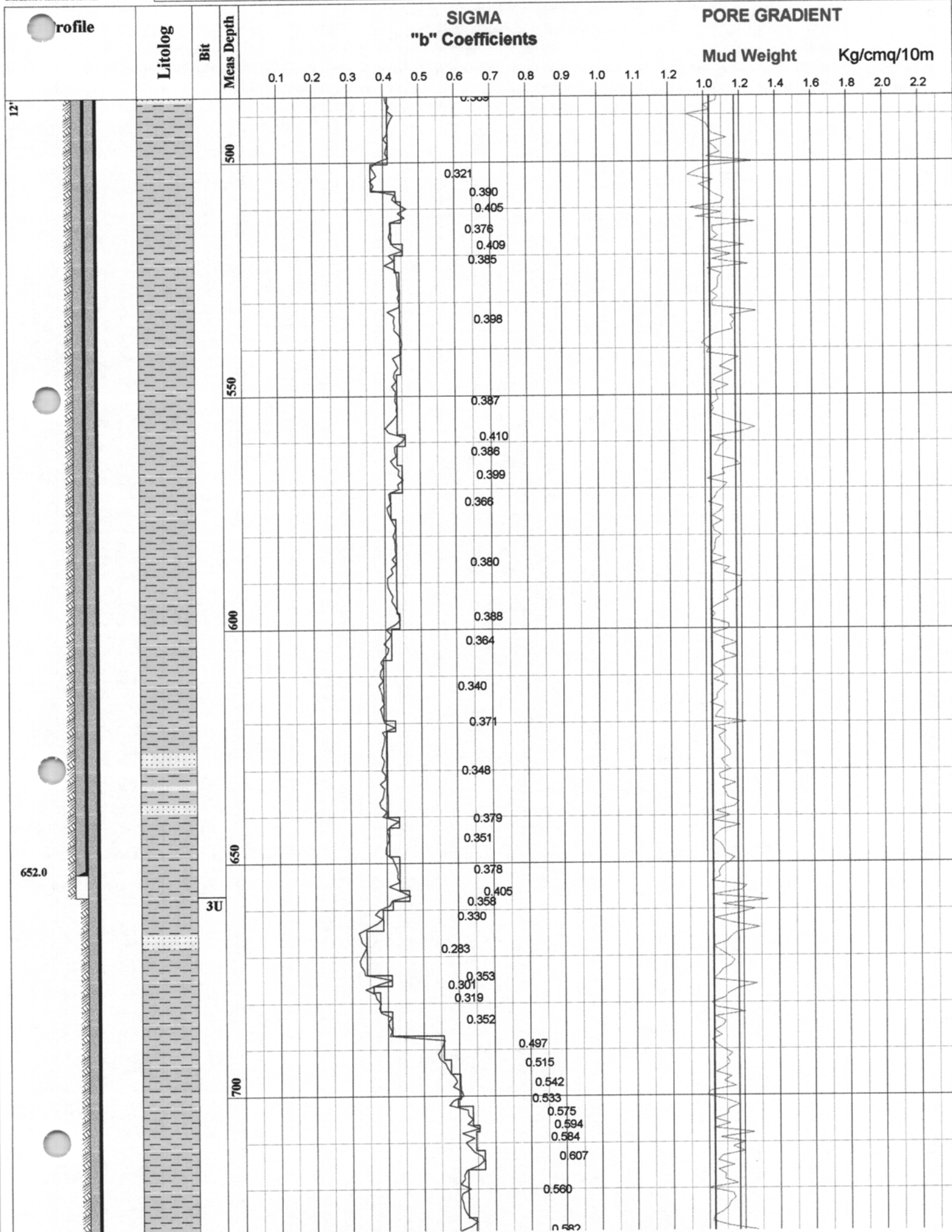
Well: JOLE 1

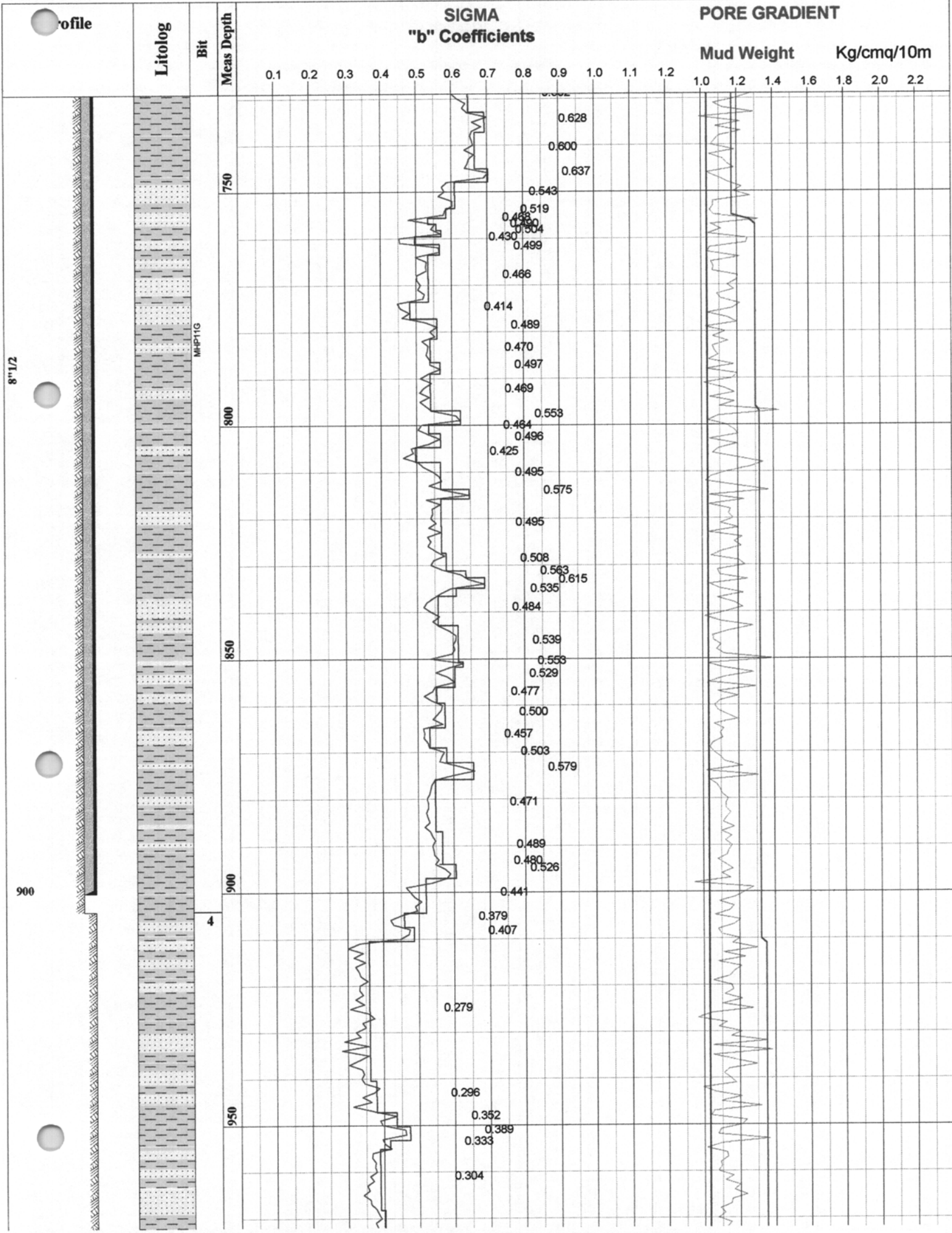


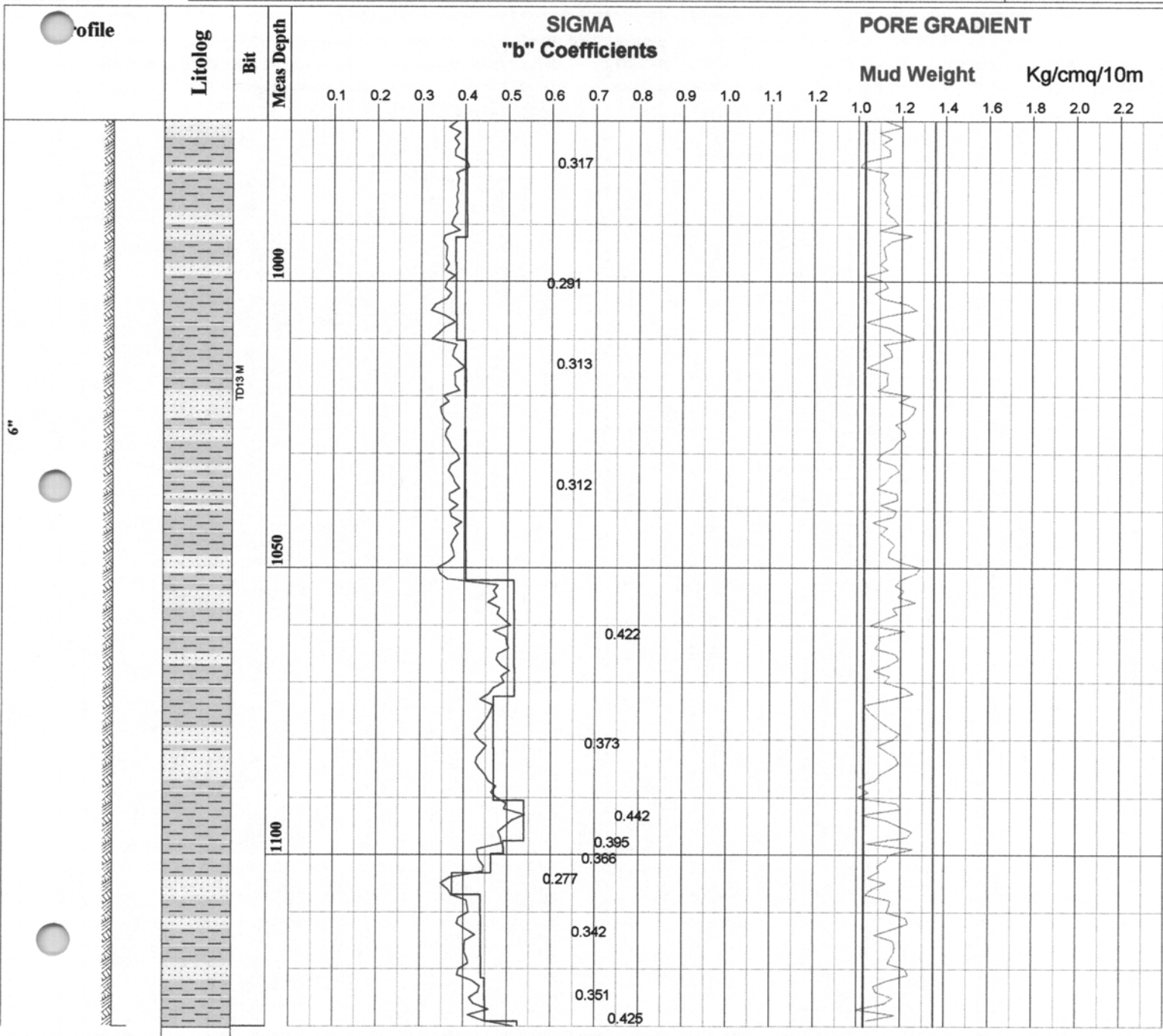
SIGMA LOG (SCALA 1:1.000)











M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	b	Sigma	PoreGrad Kg/cm ² /10m
90.0	90.0	16.00	1.0	35	8.0	1.100	0.278	0.282	1.191
91.0	91.0	16.00	1.3	35	13.3	1.150	0.278	0.281	1.231
92.0	92.0	16.00	1.4	35	15.6	1.150	0.278	0.281	1.246
93.0	93.0	16.00	1.2	35	9.7	1.150	0.282	0.285	1.242
94.0	94.0	16.00	1.1	35	23.8	1.150	0.263	0.263	1.409
95.0	95.0	16.00	1.3	35	28.6	1.150	0.263	0.265	1.294
96.0	96.0	16.00	1.4	35	20.8	1.150	0.263	0.275	0.913
97.0	97.0	16.00	1.2	35	20.0	1.150	0.263	0.269	1.144
98.0	98.0	16.00	1.3	35	14.3	1.150	0.263	0.279	0.724
99.0	99.0	16.00	1.4	35	21.3	1.150	0.263	0.274	0.952
100.0	100.0	16.00	1.3	35	22.7	1.150	0.263	0.270	1.133
101.0	101.0	16.00	1.1	35	25.0	1.150	0.253	0.261	1.062
102.0	102.0	16.00	1.4	34	33.3	1.150	0.253	0.264	0.949
103.0	103.0	16.00	1.3	34	38.5	1.150	0.253	0.259	1.158
104.0	104.0	16.00	1.3	35	30.3	1.150	0.253	0.264	0.979
105.0	105.0	16.00	1.2	35	37.0	1.150	0.253	0.257	1.228
106.0	106.0	16.00	1.1	33	34.5	1.150	0.253	0.255	1.332
107.0	107.0	16.00	1.3	34	25.6	1.150	0.253	0.266	0.899
108.0	108.0	16.00	3.3	33	27.0	1.150	0.318	0.309	1.718
109.0	109.0	16.00	3.2	73	38.5	1.150	0.318	0.321	1.280
110.0	110.0	16.00	2.2	106	18.9	1.150	0.318	0.332	0.865
111.0	111.0	16.00	2.2	106	21.7	1.150	0.318	0.327	1.051
112.0	112.0	16.00	2.1	105	20.8	1.150	0.318	0.325	1.129
113.0	113.0	16.00	2.1	106	21.7	1.150	0.318	0.324	1.173
114.0	114.0	16.00	2.2	105	19.6	1.150	0.318	0.330	0.951
115.0	115.0	16.00	2.3	106	19.6	1.150	0.318	0.334	0.834
116.0	116.0	16.00	2.1	106	19.2	1.150	0.318	0.328	1.040
117.0	117.0	16.00	2.2	106	23.8	1.150	0.304	0.324	0.686
118.0	118.0	16.00	2.1	106	31.3	1.150	0.304	0.312	1.093
119.0	119.0	16.00	2.3	106	34.5	1.150	0.304	0.315	1.010
120.0	120.0	16.00	2.2	106	32.3	1.150	0.304	0.314	1.038
121.0	121.0	16.00	2.1	106	37.0	1.150	0.298	0.307	1.096
122.0	122.0	16.00	2.1	106	29.4	1.150	0.298	0.314	0.871
123.0	123.0	16.00	1.8	106	37.0	1.150	0.298	0.298	1.388
124.0	124.0	16.00	2.0	106	37.0	1.150	0.298	0.304	1.200
125.0	125.0	16.00	2.1	106	38.5	1.150	0.298	0.305	1.148
126.0	126.0	16.00	2.0	106	33.3	1.150	0.298	0.307	1.109
127.0	127.0	16.00	2.1	106	8.1	1.150	0.345	0.361	0.887
128.0	128.0	16.00	2.0	106	12.8	1.150	0.345	0.338	1.588
129.0	129.0	16.00	2.1	106	16.9	1.150	0.345	0.332	1.796
130.0	130.0	16.00	2.2	106	18.5	1.150	0.307	0.332	0.621
131.0	131.0	16.00	2.2	106	26.3	1.150	0.307	0.320	0.998
132.0	132.0	16.00	2.0	106	21.7	1.150	0.307	0.320	1.003
133.0	133.0	16.00	2.1	106	27.8	1.150	0.307	0.315	1.150
134.0	134.0	16.00	2.6	106	25.6	1.150	0.325	0.332	1.185
135.0	135.0	16.00	2.5	106	14.9	1.150	0.325	0.349	0.665
136.0	136.0	16.00	2.3	112	25.0	1.150	0.325	0.326	1.362
137.0	137.0	16.00	1.2	105	18.5	1.150	0.280	0.294	0.992
138.0	138.0	16.00	1.2	105	16.7	1.150	0.280	0.296	0.915
139.0	139.0	16.00	1.2	105	26.3	1.150	0.280	0.285	1.257
140.0	140.0	16.00	1.3	105	31.3	1.150	0.280	0.284	1.268
141.0	141.0	16.00	1.2	105	32.3	1.150	0.280	0.280	1.399
142.0	142.0	16.00	1.3	104	14.3	1.150	0.280	0.305	0.692
143.0	143.0	16.00	1.5	104	20.4	1.150	0.280	0.303	0.756
144.0	144.0	16.00	1.2	104	31.3	1.150	0.280	0.280	1.389
145.0	145.0	16.00	1.3	104	34.5	1.150	0.280	0.282	1.351
146.0	146.0	16.00	1.3	105	30.3	1.150	0.280	0.285	1.262
147.0	147.0	16.00	1.3	104	21.7	1.150	0.280	0.293	1.042
148.0	148.0	16.00	1.5	104	19.6	1.150	0.280	0.304	0.754
149.0	149.0	16.00	1.1	104	20.4	1.150	0.280	0.286	1.235
150.0	150.0	16.00	1.2	105	20.0	1.150	0.280	0.291	1.100
151.0	151.0	16.00	1.2	115	19.2	1.150	0.280	0.294	1.013
152.0	152.0	16.00	1.2	115	19.6	1.150	0.280	0.294	1.030
153.0	153.0	16.00	1.3	111	20.0	1.150	0.280	0.297	0.960
154.0	154.0	16.00	1.4	111	34.5	1.150	0.280	0.286	1.232
155.0	155.0	16.00	1.2	111	27.0	1.150	0.280	0.284	1.276
156.0	156.0	16.00	1.4	111	41.7	1.150	0.280	0.281	1.355
157.0	157.0	16.00	1.5	111	55.6	1.150	0.261	0.278	0.959

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	b	Sigma	PoreGrad Kg/cm ² /10m
160.0	160.0	16.00	1.3	111	52.6	1.150	0.261	0.273	1.100
161.0	161.0	16.00	1.3	111	35.7	1.150	0.261	0.281	0.886
162.0	162.0	16.00	1.1	111	40.0	1.150	0.261	0.271	1.138
163.0	163.0	16.00	1.3	111	33.3	1.150	0.261	0.283	0.854
164.0	164.0	16.00	1.2	111	35.7	1.150	0.261	0.277	0.990
165.0	165.0	16.00	1.2	113	47.6	1.150	0.261	0.271	1.137
166.0	166.0	16.00	1.3	112	45.5	1.150	0.261	0.276	1.036
167.0	167.0	16.00	1.3	112	43.5	1.150	0.261	0.277	1.016
168.0	168.0	16.00	1.3	113	32.3	1.150	0.261	0.284	0.847
169.0	169.0	16.00	1.4	113	41.7	1.150	0.261	0.281	0.914
170.0	170.0	16.00	1.3	113	55.6	1.150	0.261	0.271	1.148
171.0	171.0	16.00	1.2	112	45.5	1.150	0.261	0.272	1.135
172.0	172.0	16.00	1.2	112	25.6	1.150	0.261	0.285	0.830
173.0	173.0	16.00	1.3	112	38.5	1.150	0.261	0.279	0.972
174.0	174.0	16.00	1.3	112	50.0	1.150	0.261	0.273	1.111
175.0	175.0	16.00	1.4	112	50.0	1.150	0.261	0.276	1.039
176.0	176.0	16.00	1.2	112	38.5	1.150	0.261	0.275	1.066
177.0	177.0	16.00	1.5	112	18.5	1.150	0.274	0.306	0.669
178.0	178.0	16.00	1.3	111	52.6	1.150	0.274	0.272	1.445
179.0	179.0	16.00	1.3	112	32.3	1.150	0.274	0.283	1.191
180.0	180.0	16.00	1.2	112	22.2	1.150	0.274	0.288	1.075
181.0	181.0	16.00	1.4	112	29.4	1.150	0.274	0.289	1.062
182.0	182.0	16.00	1.2	112	27.8	1.150	0.274	0.282	1.203
183.0	183.0	16.00	1.3	113	16.4	1.150	0.274	0.301	0.801
184.0	184.0	16.00	1.3	113	25.0	1.150	0.274	0.289	1.058
185.0	185.0	16.00	1.5	113	17.9	1.150	0.274	0.307	0.680
186.0	186.0	16.00	1.2	113	27.0	1.150	0.274	0.283	1.193
187.0	187.0	16.00	1.3	113	24.4	1.150	0.274	0.290	1.053
188.0	188.0	16.00	1.3	113	18.2	1.150	0.274	0.298	0.886
189.0	189.0	16.00	1.2	113	22.7	1.150	0.274	0.287	1.108
190.0	190.0	16.00	1.0	112	18.5	1.150	0.274	0.283	1.199
191.0	191.0	16.00	1.0	112	12.8	1.150	0.274	0.292	1.004
192.0	192.0	16.00	0.8	112	14.5	1.150	0.274	0.278	1.304
193.0	193.0	16.00	0.7	115	50.0	1.150	0.250	0.249	1.396
194.0	194.0	16.00	1.0	115	62.5	1.150	0.250	0.258	1.223
195.0	195.0	16.00	1.6	115	62.5	1.150	0.250	0.277	0.828
196.0	196.0	16.00	1.0	115	55.6	1.150	0.250	0.260	1.183
197.0	197.0	16.00	1.3	115	55.6	1.150	0.250	0.270	0.971
198.0	198.0	16.00	1.3	115	47.6	1.150	0.250	0.273	0.906
199.0	199.0	16.00	1.2	115	45.5	1.150	0.250	0.271	0.960
200.0	200.0	16.00	1.6	115	41.7	1.150	0.250	0.286	0.649
201.0	201.0	16.00	1.2	115	35.7	1.150	0.268	0.276	1.213
202.0	202.0	16.00	2.2	114	38.5	1.150	0.268	0.306	0.618
203.0	203.0	16.00	1.2	115	38.5	1.150	0.268	0.274	1.250
204.0	204.0	16.00	1.5	115	35.7	1.150	0.268	0.287	1.006
205.0	205.0	16.00	1.0	115	37.0	1.150	0.268	0.267	1.392
206.0	206.0	16.00	1.0	115	33.3	1.150	0.268	0.269	1.350
207.0	207.0	16.00	1.6	115	22.2	1.150	0.286	0.303	1.052
208.0	208.0	16.00	0.9	115	30.3	1.150	0.258	0.267	1.213
209.0	209.0	16.00	1.0	115	24.4	1.150	0.258	0.276	1.036
210.0	210.0	16.00	1.1	115	20.4	1.150	0.258	0.285	0.869
211.0	211.0	16.00	0.8	115	17.2	1.150	0.258	0.274	1.085
212.0	212.0	16.00	0.9	115	18.2	1.150	0.258	0.278	1.008
213.0	213.0	16.00	1.0	115	15.2	1.150	0.258	0.287	0.828
214.0	214.0	16.00	0.8	115	15.9	1.150	0.258	0.275	1.057
215.0	215.0	16.00	0.9	115	20.8	1.150	0.258	0.274	1.075
216.0	216.0	16.00	0.9	115	25.6	1.150	0.258	0.270	1.163
217.0	217.0	16.00	0.9	115	23.8	1.150	0.258	0.271	1.135
218.0	218.0	16.00	1.5	115	20.4	1.150	0.280	0.301	0.988
219.0	219.0	16.00	0.9	115	10.8	1.150	0.280	0.291	1.187
220.0	220.0	16.00	0.9	109	25.0	1.150	0.247	0.269	0.984
221.0	221.0	16.00	0.6	106	40.0	1.150	0.215	0.245	0.832
222.0	222.0	16.00	0.2	106	38.5	1.150	0.215	0.219	1.302
223.0	223.0	16.00	0.6	106	35.7	1.150	0.215	0.247	0.807
224.0	224.0	16.00	0.3	109	41.7	1.150	0.215	0.227	1.170
225.0	225.0	16.00	0.7	118	32.3	1.150	0.215	0.255	0.655
226.0	226.0	16.00	0.5	117	23.8	1.150	0.215	0.249	0.777
227.0	227.0	16.00	0.4	117	28.6	1.150	0.215	0.239	0.952

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	b	Sigma	PoreGrad Kg/cm ² /10m
230.0	230.0	16.00	0.6	117	30.3	1.150	0.242	0.251	1.229
231.0	231.0	16.00	0.8	117	27.0	1.150	0.242	0.263	1.010
232.0	232.0	16.00	0.9	117	27.8	1.150	0.264	0.267	1.324
233.0	233.0	16.00	1.3	117	27.8	1.150	0.293	0.285	1.535
234.0	234.0	16.00	3.2	117	23.3	1.150	0.321	0.350	0.892
235.0	235.0	16.00	3.4	117	15.4	1.150	0.321	0.374	0.481
236.0	236.0	16.00	3.2	117	29.4	1.150	0.321	0.340	1.060
237.0	237.0	16.00	3.3	117	35.7	1.150	0.321	0.335	1.150
238.0	238.0	16.00	3.6	117	34.5	1.150	0.321	0.343	1.014
239.0	239.0	16.00	3.3	117	34.5	1.150	0.321	0.336	1.131
240.0	240.0	16.00	3.1	117	34.5	1.150	0.321	0.331	1.212
241.0	241.0	16.00	3.4	117	33.3	1.150	0.321	0.340	1.074
242.0	242.0	16.00	3.3	117	31.3	1.150	0.321	0.340	1.073
243.0	243.0	16.00	3.5	117	22.7	1.150	0.333	0.358	0.976
244.0	244.0	16.00	3.5	117	21.7	1.150	0.333	0.360	0.946
245.0	245.0	16.00	3.4	117	21.3	1.150	0.333	0.358	0.976
246.0	246.0	16.00	3.1	117	20.4	1.150	0.333	0.352	1.079
247.0	247.0	16.00	3.2	117	20.8	1.150	0.333	0.354	1.052
248.0	248.0	16.00	3.3	119	18.9	1.150	0.333	0.362	0.927
249.0	249.0	16.00	3.4	119	27.8	1.150	0.333	0.347	1.157
250.0	250.0	16.00	3.3	119	27.0	1.150	0.333	0.346	1.181
251.0	251.0	16.00	3.1	119	24.4	1.150	0.333	0.345	1.197
252.0	252.0	16.00	3.1	119	27.0	1.150	0.315	0.341	0.965
253.0	253.0	16.00	3.3	119	41.7	1.150	0.315	0.329	1.154
254.0	254.0	16.00	3.2	119	38.5	1.150	0.315	0.330	1.146
255.0	255.0	16.00	3.3	119	37.0	1.150	0.315	0.333	1.089
256.0	256.0	16.00	3.4	119	37.0	1.150	0.315	0.335	1.055
257.0	257.0	16.00	3.4	119	34.5	1.150	0.315	0.338	1.014
258.0	258.0	16.00	3.2	119	31.3	1.150	0.315	0.337	1.030
259.0	259.0	16.00	3.1	119	33.3	1.150	0.315	0.332	1.109
260.0	260.0	16.00	3.3	119	33.3	1.150	0.315	0.337	1.037
261.0	261.0	16.00	3.3	119	33.3	1.150	0.315	0.337	1.039
262.0	262.0	16.00	3.2	119	23.3	1.150	0.315	0.349	0.856
263.0	263.0	16.00	3.4	119	32.3	1.150	0.315	0.340	0.987
264.0	264.0	16.00	3.2	119	41.7	1.150	0.315	0.326	1.208
265.0	265.0	16.00	3.3	119	29.4	1.150	0.315	0.342	0.972
266.0	266.0	16.00	3.3	119	30.3	1.150	0.315	0.340	0.993
267.0	267.0	16.00	3.0	119	28.6	1.150	0.315	0.335	1.073
268.0	268.0	16.00	3.2	119	27.0	1.150	0.315	0.342	0.966
269.0	269.0	16.00	3.3	119	26.3	1.150	0.315	0.346	0.914
270.0	270.0	16.00	3.2	119	24.4	1.150	0.315	0.347	0.908
271.0	271.0	16.00	3.3	119	18.5	1.150	0.337	0.361	1.024
272.0	272.0	16.00	3.3	119	20.4	1.150	0.337	0.357	1.090
273.0	273.0	16.00	3.2	119	22.7	1.150	0.309	0.349	0.783
274.0	274.0	16.00	3.1	119	38.5	1.150	0.309	0.326	1.127
275.0	275.0	16.00	3.2	119	38.5	1.150	0.309	0.328	1.094
276.0	276.0	16.00	3.1	104	27.0	1.150	0.309	0.334	1.011
277.0	277.0	16.00	3.4	102	31.3	1.150	0.309	0.335	1.002
278.0	278.0	16.00	3.1	102	26.3	1.150	0.309	0.334	1.012
279.0	279.0	16.00	3.2	102	25.0	1.150	0.309	0.339	0.949
280.0	280.0	16.00	3.1	116	23.3	1.150	0.309	0.344	0.872
281.0	281.0	16.00	3.1	116	20.4	1.150	0.309	0.350	0.796
282.0	282.0	16.00	3.2	116	30.3	1.150	0.309	0.336	0.992
283.0	283.0	16.00	3.2	115	45.5	1.150	0.302	0.321	1.121
284.0	284.0	16.00	3.2	115	45.5	1.150	0.302	0.321	1.123
285.0	285.0	16.00	3.2	115	55.6	1.150	0.302	0.314	1.221
286.0	286.0	16.00	3.2	115	43.5	1.150	0.302	0.322	1.104
287.0	287.0	16.00	3.2	115	41.7	1.150	0.302	0.323	1.085
288.0	288.0	16.00	3.2	115	38.5	1.150	0.302	0.326	1.046
289.0	289.0	16.00	3.2	115	45.5	1.150	0.302	0.320	1.131
290.0	290.0	16.00	3.3	115	43.5	1.150	0.302	0.324	1.081
291.0	291.0	16.00	3.2	116	32.3	1.150	0.316	0.333	1.141
292.0	292.0	16.00	3.3	116	27.0	1.150	0.316	0.342	1.013
293.0	293.0	16.00	3.1	116	25.0	1.150	0.316	0.341	1.041
294.0	294.0	16.00	3.2	115	23.3	1.150	0.316	0.346	0.972
295.0	295.0	16.00	3.2	116	19.6	1.150	0.340	0.353	1.197
296.0	296.0	16.00	3.2	116	16.7	1.150	0.340	0.360	1.101
297.0	297.0	16.00	3.2	116	14.7	1.150	0.343	0.366	1.076

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	b	Sigma	PoreGrad Kg/cmq/10m
300.0	300.0	16.00	3.3	116	13.9	1.150	0.343	0.372	1.006
301.0	301.0	16.00	3.2	116	27.0	1.150	0.329	0.339	1.246
302.0	302.0	16.00	4.4	88	6.6	1.150	0.386	0.429	0.809
303.0	303.0	12.25	4.7	78	4.5	1.150	0.512	0.539	1.028
304.0	304.0	12.25	4.5	78	4.1	1.150	0.512	0.540	1.020
305.0	305.0	12.25	4.5	78	6.0	1.150	0.512	0.508	1.440
306.0	306.0	12.25	4.3	78	7.6	1.150	0.465	0.481	1.167
307.0	307.0	12.25	4.5	78	7.2	1.150	0.465	0.492	1.033
308.0	308.0	12.25	4.3	78	6.6	1.150	0.465	0.492	1.036
309.0	309.0	12.25	4.5	78	8.1	1.150	0.465	0.483	1.152
310.0	310.0	12.25	4.5	78	4.0	1.150	0.497	0.543	0.793
311.0	311.0	12.25	4.3	78	6.6	1.150	0.497	0.492	1.452
312.0	312.0	12.25	4.4	80	7.6	1.150	0.497	0.487	1.523
313.0	313.0	12.25	4.4	82	18.2	1.150	0.357	0.427	0.467
314.0	314.0	12.25	2.9	82	20.8	1.150	0.357	0.374	1.165
315.0	315.0	12.25	2.9	82	18.9	1.150	0.357	0.378	1.104
316.0	316.0	12.25	2.8	82	18.2	1.150	0.357	0.377	1.127
317.0	317.0	12.25	2.9	82	17.2	1.150	0.357	0.383	1.050
318.0	318.0	12.25	2.8	82	14.5	1.150	0.357	0.388	0.984
319.0	319.0	12.25	2.5	77	29.4	1.150	0.337	0.342	1.327
320.0	320.0	12.25	2.9	77	22.7	1.150	0.337	0.366	1.022
321.0	321.0	12.25	2.7	77	22.2	1.150	0.337	0.360	1.094
322.0	322.0	12.25	2.6	77	22.2	1.150	0.337	0.357	1.138
323.0	323.0	12.25	3.0	77	20.8	1.150	0.337	0.373	0.935
324.0	324.0	12.25	2.8	77	18.5	1.150	0.337	0.372	0.949
325.0	325.0	12.25	2.8	77	17.9	1.150	0.337	0.374	0.929
326.0	326.0	12.25	2.7	77	17.5	1.150	0.355	0.371	1.186
327.0	327.0	12.25	2.9	77	17.2	1.150	0.355	0.379	1.090
328.0	328.0	12.25	3.0	77	16.4	1.150	0.355	0.385	1.018
329.0	329.0	12.25	2.9	77	21.3	1.150	0.355	0.369	1.219
330.0	330.0	12.25	2.9	77	18.9	1.150	0.355	0.374	1.150
331.0	331.0	12.25	2.9	78	17.2	1.150	0.355	0.380	1.089
332.0	332.0	12.25	2.9	79	20.0	1.150	0.355	0.373	1.172
333.0	333.0	12.25	2.8	79	15.9	1.150	0.355	0.381	1.076
334.0	334.0	12.25	2.7	79	16.1	1.150	0.355	0.376	1.132
335.0	335.0	12.25	2.7	79	12.8	1.150	0.355	0.388	0.992
336.0	336.0	12.25	2.8	79	13.5	1.150	0.355	0.389	0.981
337.0	337.0	12.25	2.8	95	27.8	1.150	0.335	0.362	1.060
338.0	338.0	12.25	3.0	124	45.5	1.150	0.335	0.358	1.109
339.0	339.0	12.25	2.9	128	50.0	1.150	0.335	0.352	1.180
340.0	340.0	12.25	2.9	128	50.0	1.150	0.335	0.352	1.181
341.0	341.0	12.25	3.0	128	45.5	1.150	0.335	0.359	1.097
342.0	342.0	12.25	3.1	128	41.7	1.150	0.335	0.366	1.015
343.0	343.0	12.25	2.9	128	41.7	1.150	0.335	0.360	1.089
344.0	344.0	12.25	2.9	128	40.0	1.150	0.335	0.362	1.069
345.0	345.0	12.25	3.0	128	41.7	1.150	0.335	0.363	1.056
346.0	346.0	12.25	3.0	128	29.4	1.150	0.335	0.380	0.860
347.0	347.0	12.25	3.1	127	37.0	1.150	0.335	0.371	0.962
348.0	348.0	12.25	2.9	127	40.0	1.150	0.335	0.361	1.080
349.0	349.0	12.25	3.0	127	41.7	1.150	0.335	0.363	1.067
350.0	350.0	12.25	2.9	127	45.5	1.150	0.335	0.355	1.149
351.0	351.0	12.25	3.1	127	41.7	1.170	0.335	0.364	1.054
352.0	352.0	12.25	3.1	127	35.7	1.170	0.335	0.371	0.971
353.0	353.0	12.25	2.9	127	30.3	1.170	0.335	0.373	0.955
354.0	354.0	12.25	2.9	126	40.0	1.170	0.335	0.359	1.113
355.0	355.0	12.25	3.0	126	43.5	1.170	0.335	0.358	1.122
356.0	356.0	12.25	3.1	127	40.0	1.170	0.335	0.365	1.041
357.0	357.0	12.25	2.8	126	40.0	1.170	0.335	0.356	1.153
358.0	358.0	12.25	3.1	127	38.5	1.170	0.335	0.367	1.023
359.0	359.0	12.25	3.1	127	37.0	1.170	0.335	0.369	1.004
360.0	360.0	12.25	3.0	127	32.3	1.170	0.335	0.373	0.966
361.0	361.0	12.25	3.1	127	33.3	1.170	0.338	0.374	0.984
362.0	362.0	12.25	3.1	127	32.3	1.170	0.338	0.376	0.967
363.0	363.0	12.25	3.0	127	27.0	1.170	0.338	0.381	0.905
364.0	364.0	12.25	3.1	127	35.7	1.170	0.338	0.370	1.027
365.0	365.0	12.25	3.0	126	41.7	1.170	0.338	0.359	1.148
366.0	366.0	12.25	3.2	126	40.0	1.170	0.338	0.368	1.061
367.0	367.0	12.25	3.0	127	37.0	1.170	0.338	0.365	1.086

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	b	Sigma	PoreGrad Kg/cm ² /10m
370.0	370.0	12.25	3.0	126	41.7	1.170	0.338	0.359	1.155
371.0	371.0	12.25	3.0	126	43.5	1.170	0.319	0.357	0.967
372.0	372.0	12.25	2.8	126	43.5	1.170	0.319	0.351	1.036
373.0	373.0	12.25	2.9	126	41.7	1.170	0.319	0.356	0.983
374.0	374.0	12.25	2.9	129	45.5	1.170	0.319	0.353	1.016
375.0	375.0	12.25	2.9	130	47.6	1.170	0.319	0.351	1.036
376.0	376.0	12.25	3.0	130	45.5	1.170	0.319	0.356	0.982
377.0	377.0	12.25	3.0	130	45.5	1.170	0.319	0.356	0.984
378.0	378.0	12.25	4.0	129	43.5	1.170	0.368	0.386	1.186
379.0	379.0	12.25	4.6	129	43.5	1.170	0.368	0.402	1.024
380.0	380.0	12.25	4.1	130	34.5	1.170	0.368	0.402	1.020
381.0	381.0	12.25	3.8	130	34.5	1.170	0.368	0.394	1.112
382.0	382.0	12.25	4.2	130	34.5	1.170	0.368	0.405	0.994
383.0	383.0	12.25	4.1	130	33.3	1.170	0.368	0.404	1.004
384.0	384.0	12.25	4.1	130	33.3	1.170	0.368	0.404	1.006
385.0	385.0	12.25	3.8	130	33.3	1.170	0.368	0.395	1.097
386.0	386.0	12.25	4.1	130	32.3	1.170	0.368	0.406	0.989
387.0	387.0	12.25	4.1	130	32.3	1.170	0.382	0.406	1.134
388.0	388.0	12.25	4.2	130	31.3	1.170	0.382	0.410	1.087
389.0	389.0	12.25	4.3	130	25.0	1.170	0.396	0.427	1.060
390.0	390.0	12.25	4.0	130	24.4	1.170	0.396	0.420	1.139
391.0	391.0	12.25	4.3	129	50.0	1.170	0.350	0.386	1.010
392.0	392.0	12.25	4.0	129	47.6	1.170	0.350	0.381	1.064
393.0	393.0	12.25	4.0	128	43.5	1.170	0.350	0.385	1.020
394.0	394.0	12.25	4.3	128	47.6	1.170	0.350	0.388	0.992
395.0	395.0	12.25	4.3	128	58.8	1.170	0.350	0.377	1.107
396.0	396.0	12.25	4.5	128	58.8	1.170	0.350	0.381	1.061
397.0	397.0	12.25	4.2	128	55.6	1.170	0.350	0.377	1.105
398.0	398.0	12.25	4.0	128	50.0	1.170	0.350	0.377	1.102
399.0	399.0	12.25	4.3	128	45.5	1.170	0.350	0.390	0.975
400.0	400.0	12.25	4.5	129	45.5	1.170	0.367	0.396	1.100
401.0	401.0	12.25	4.3	129	43.5	1.170	0.367	0.393	1.128
402.0	402.0	12.25	4.1	129	43.5	1.170	0.367	0.388	1.181
403.0	403.0	12.25	4.4	129	38.5	1.170	0.367	0.402	1.035
404.0	404.0	12.25	4.2	128	62.5	1.170	0.339	0.371	1.070
405.0	405.0	12.25	4.3	128	58.8	1.170	0.339	0.376	1.017
406.0	406.0	12.25	4.3	128	55.6	1.170	0.339	0.379	0.989
407.0	407.0	12.25	4.2	128	55.6	1.170	0.339	0.376	1.015
408.0	408.0	12.25	3.8	128	58.8	1.170	0.339	0.364	1.142
409.0	409.0	12.25	4.0	128	50.0	1.170	0.339	0.377	1.014
410.0	410.0	12.25	4.1	128	55.6	1.170	0.339	0.374	1.043
411.0	411.0	12.25	4.1	128	55.6	1.170	0.339	0.374	1.045
412.0	412.0	12.25	4.1	128	52.6	1.170	0.339	0.376	1.019
413.0	413.0	12.25	4.2	128	50.0	1.170	0.353	0.382	1.101
414.0	414.0	12.25	4.3	128	50.0	1.170	0.353	0.384	1.078
415.0	415.0	12.25	4.4	128	50.0	1.170	0.353	0.386	1.055
416.0	416.0	12.25	4.2	128	50.0	1.170	0.353	0.381	1.105
417.0	417.0	12.25	3.9	128	50.0	1.170	0.353	0.374	1.180
418.0	418.0	12.25	3.2	128	41.7	1.170	0.328	0.363	1.049
419.0	419.0	12.25	3.3	128	40.0	1.170	0.328	0.368	1.002
420.0	420.0	12.25	3.2	127	37.0	1.170	0.328	0.368	1.000
421.0	421.0	12.25	3.4	128	50.0	1.170	0.328	0.360	1.081
422.0	422.0	12.25	3.4	128	52.6	1.170	0.328	0.357	1.105
423.0	423.0	12.25	3.2	128	52.6	1.170	0.328	0.352	1.160
424.0	424.0	12.25	3.4	128	50.0	1.170	0.328	0.360	1.085
425.0	425.0	12.25	3.4	128	52.6	1.170	0.328	0.357	1.109
426.0	426.0	12.25	3.3	129	45.5	1.170	0.328	0.362	1.068
427.0	427.0	12.25	3.2	128	47.6	1.170	0.328	0.356	1.121
428.0	428.0	12.25	3.4	128	50.0	1.170	0.328	0.359	1.090
429.0	429.0	12.25	3.3	128	52.6	1.170	0.328	0.354	1.140
430.0	430.0	12.25	3.4	128	50.0	1.170	0.328	0.359	1.093
431.0	431.0	12.25	3.3	127	40.0	1.170	0.328	0.367	1.024
432.0	432.0	12.25	3.6	123	52.6	1.170	0.328	0.360	1.085
433.0	433.0	12.25	4.0	123	58.8	1.170	0.328	0.365	1.041
434.0	434.0	12.25	3.7	123	52.6	1.170	0.328	0.363	1.063
435.0	435.0	12.25	3.7	124	52.6	1.170	0.328	0.363	1.061
436.0	436.0	12.25	3.6	129	50.0	1.170	0.328	0.365	1.046
437.0	437.0	12.25	3.8	129	43.5	1.170	0.341	0.377	1.048

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	b	Sigma	PoreGrad Kg/cm ² /10m
440.0	440.0	12.25	3.6	130	45.5	1.170	0.341	0.370	1.119
441.0	441.0	12.25	3.9	130	50.0	1.170	0.341	0.373	1.091
442.0	442.0	12.25	3.8	129	50.0	1.170	0.341	0.370	1.119
443.0	443.0	12.25	3.9	129	52.6	1.170	0.341	0.370	1.120
444.0	444.0	12.25	3.9	129	50.0	1.170	0.341	0.372	1.098
445.0	445.0	12.25	3.7	130	45.5	1.170	0.341	0.372	1.100
446.0	446.0	12.25	3.9	130	43.5	1.170	0.341	0.380	1.031
447.0	447.0	12.25	3.9	131	43.5	1.170	0.341	0.380	1.029
448.0	448.0	12.25	3.8	131	41.7	1.170	0.341	0.380	1.035
449.0	449.0	12.25	3.8	131	47.6	1.170	0.341	0.373	1.098
450.0	450.0	12.25	3.8	125	50.0	1.170	0.341	0.368	1.143
451.0	451.0	12.25	3.8	123	62.5	1.170	0.330	0.356	1.153
452.0	452.0	12.25	3.5	123	58.8	1.170	0.330	0.351	1.197
453.0	453.0	12.25	3.9	123	55.6	1.170	0.330	0.364	1.083
454.0	454.0	12.25	3.9	124	58.8	1.170	0.330	0.362	1.105
455.0	455.0	12.25	3.7	124	55.6	1.170	0.330	0.359	1.127
456.0	456.0	12.25	4.1	124	55.6	1.170	0.330	0.369	1.039
457.0	457.0	12.25	4.0	124	55.6	1.170	0.330	0.367	1.062
458.0	458.0	12.25	3.6	125	40.0	1.170	0.330	0.373	1.007
459.0	459.0	12.25	3.3	125	50.0	1.170	0.330	0.354	1.179
460.0	460.0	12.25	3.7	125	58.8	1.170	0.330	0.357	1.153
461.0	461.0	12.25	5.8	126	50.0	1.170	0.362	0.415	0.926
462.0	462.0	12.25	5.6	127	62.5	1.170	0.362	0.398	1.077
463.0	463.0	12.25	5.9	127	66.7	1.170	0.362	0.400	1.058
464.0	464.0	12.25	5.8	126	66.7	1.170	0.362	0.397	1.080
465.0	465.0	12.25	5.8	126	52.6	1.170	0.362	0.411	0.960
466.0	466.0	12.25	5.7	126	58.8	1.170	0.362	0.402	1.037
467.0	467.0	12.25	5.7	125	55.6	1.170	0.362	0.405	1.013
468.0	468.0	12.25	5.7	125	62.5	1.170	0.362	0.398	1.074
469.0	469.0	12.25	5.9	125	76.9	1.170	0.343	0.390	0.977
470.0	470.0	12.25	5.8	127	71.4	1.170	0.343	0.393	0.952
471.0	471.0	12.25	5.9	127	71.4	1.170	0.343	0.395	0.936
472.0	472.0	12.25	5.9	127	83.3	1.170	0.343	0.387	1.012
473.0	473.0	12.25	5.9	127	83.3	1.170	0.343	0.387	1.013
474.0	474.0	12.25	5.9	127	58.8	1.170	0.369	0.407	1.069
475.0	475.0	12.25	5.7	127	66.7	1.170	0.369	0.395	1.166
476.0	476.0	12.25	5.7	127	55.6	1.170	0.369	0.406	1.077
477.0	477.0	12.25	5.7	127	76.9	1.170	0.369	0.387	1.236
478.0	478.0	12.25	5.9	127	62.5	1.170	0.369	0.403	1.104
479.0	479.0	12.25	5.9	126	52.6	1.170	0.369	0.412	1.022
480.0	480.0	12.25	5.8	127	40.0	1.170	0.369	0.428	0.891
481.0	481.0	12.25	5.8	127	52.6	1.170	0.369	0.411	1.038
482.0	482.0	12.25	5.9	129	55.6	1.170	0.369	0.410	1.042
483.0	483.0	12.25	5.9	127	58.8	1.170	0.369	0.406	1.079
484.0	484.0	12.25	5.6	127	58.8	1.170	0.369	0.400	1.132
485.0	485.0	12.25	5.8	128	55.6	1.170	0.369	0.408	1.066
486.0	486.0	12.25	5.8	127	55.6	1.170	0.369	0.407	1.071
487.0	487.0	12.25	5.8	128	55.6	1.170	0.369	0.408	1.069
488.0	488.0	12.25	5.9	129	50.0	1.170	0.369	0.417	0.995
489.0	489.0	12.25	5.7	129	50.0	1.170	0.369	0.412	1.032
490.0	490.0	12.25	5.9	129	41.7	1.170	0.369	0.428	0.901
491.0	491.0	12.25	5.8	129	45.5	1.170	0.369	0.420	0.967
492.0	492.0	12.25	5.7	128	47.6	1.170	0.369	0.415	1.015
493.0	493.0	12.25	5.9	129	52.6	1.170	0.369	0.413	1.028
494.0	494.0	12.25	5.8	129	52.6	1.170	0.369	0.411	1.046
495.0	495.0	12.25	5.8	130	62.5	1.170	0.369	0.401	1.127
496.0	496.0	12.25	5.9	130	52.6	1.170	0.369	0.413	1.027
497.0	497.0	12.25	5.9	129	55.6	1.170	0.369	0.409	1.060
498.0	498.0	12.25	5.9	129	58.8	1.170	0.369	0.406	1.089
499.0	499.0	12.25	5.9	128	50.0	1.170	0.369	0.415	1.013
500.0	500.0	12.25	4.6	127	52.6	1.170	0.369	0.383	1.276
501.0	501.0	12.25	3.9	127	52.6	1.170	0.321	0.365	1.030
502.0	502.0	12.25	4.5	127	58.8	1.170	0.321	0.374	0.959
503.0	503.0	12.25	4.3	127	47.6	1.170	0.321	0.381	0.908
504.0	504.0	12.25	3.8	128	52.6	1.170	0.321	0.363	1.051
505.0	505.0	12.25	4.2	128	52.6	1.170	0.321	0.373	0.971
506.0	506.0	12.25	3.6	128	43.5	1.170	0.321	0.367	1.020
507.0	507.0	12.25	5.8	128	37.0	1.170	0.390	0.432	1.053

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	b	Sigma	PoreGrad Kg/cmq/10m
510.0	510.0	12.25	6.5	128	29.4	1.170	0.405	0.464	0.915
511.0	511.0	12.25	6.6	128	41.7	1.170	0.405	0.441	1.097
512.0	512.0	12.25	6.5	128	31.3	1.170	0.405	0.460	0.953
513.0	513.0	12.25	6.7	123	58.8	1.170	0.405	0.418	1.283
514.0	514.0	12.25	6.6	122	55.6	1.170	0.376	0.419	1.045
515.0	515.0	12.25	6.6	122	55.6	1.170	0.376	0.419	1.046
516.0	516.0	12.25	6.4	122	55.6	1.170	0.376	0.415	1.077
517.0	517.0	12.25	6.5	122	52.6	1.170	0.376	0.420	1.037
518.0	518.0	12.25	6.6	123	47.6	1.170	0.409	0.429	1.224
519.0	519.0	12.25	6.6	123	33.3	1.170	0.409	0.454	1.033
520.0	520.0	12.25	6.4	123	55.6	1.170	0.385	0.415	1.149
521.0	521.0	12.25	6.6	123	47.6	1.170	0.385	0.429	1.043
522.0	522.0	12.25	6.6	122	71.4	1.170	0.385	0.403	1.244
523.0	523.0	12.25	6.5	122	43.5	1.170	0.385	0.432	1.018
524.0	524.0	12.25	6.4	122	40.0	1.170	0.398	0.436	1.094
525.0	525.0	12.25	6.5	123	40.0	1.170	0.398	0.439	1.075
526.0	526.0	12.25	6.5	123	40.0	1.170	0.398	0.438	1.076
527.0	527.0	12.25	6.4	123	38.5	1.170	0.398	0.439	1.073
528.0	528.0	12.25	6.5	123	37.0	1.170	0.398	0.444	1.037
529.0	529.0	12.25	6.4	123	38.5	1.170	0.398	0.439	1.075
530.0	530.0	12.25	6.4	122	35.7	1.170	0.398	0.443	1.041
531.0	531.0	12.25	6.5	122	37.0	1.170	0.398	0.443	1.045
532.0	532.0	12.25	5.9	123	50.0	1.170	0.398	0.411	1.287
533.0	533.0	12.25	5.9	123	37.0	1.170	0.398	0.430	1.143
534.0	534.0	12.25	6.1	123	41.7	1.170	0.398	0.427	1.169
535.0	535.0	12.25	6.0	123	38.5	1.170	0.398	0.430	1.147
536.0	536.0	12.25	6.0	121	38.5	1.170	0.398	0.429	1.156
537.0	537.0	12.25	5.8	121	29.4	1.170	0.398	0.442	1.054
538.0	538.0	12.25	6.0	123	29.4	1.170	0.398	0.448	1.011
539.0	539.0	12.25	5.9	123	27.0	1.170	0.398	0.452	0.985
540.0	540.0	12.25	6.0	124	30.3	1.170	0.398	0.446	1.025
541.0	541.0	12.25	6.1	123	30.3	1.170	0.398	0.448	1.013
542.0	542.0	12.25	5.9	123	40.0	1.170	0.398	0.424	1.188
543.0	543.0	12.25	6.0	124	37.0	1.170	0.398	0.432	1.131
544.0	544.0	12.25	6.0	123	33.3	1.170	0.398	0.439	1.083
545.0	545.0	12.25	5.9	123	37.0	1.170	0.398	0.429	1.153
546.0	546.0	12.25	5.9	123	38.5	1.170	0.387	0.427	1.093
547.0	547.0	12.25	6.2	123	38.5	1.170	0.387	0.433	1.045
548.0	548.0	12.25	5.8	123	40.0	1.170	0.387	0.422	1.131
549.0	549.0	12.25	6.0	123	37.0	1.170	0.387	0.431	1.061
550.0	550.0	12.25	6.0	122	37.0	1.170	0.387	0.431	1.066
551.0	551.0	12.25	6.1	121	38.5	1.170	0.387	0.430	1.074
552.0	552.0	12.25	6.2	122	37.0	1.170	0.387	0.435	1.036
553.0	553.0	12.25	6.0	123	35.7	1.170	0.387	0.434	1.048
554.0	554.0	12.25	5.9	123	33.3	1.170	0.387	0.436	1.031
555.0	555.0	12.25	6.1	124	41.7	1.170	0.387	0.426	1.105
556.0	556.0	12.25	6.0	123	47.6	1.170	0.387	0.415	1.187
557.0	557.0	12.25	6.2	123	62.5	1.170	0.387	0.402	1.279
558.0	558.0	12.25	6.0	122	47.6	1.170	0.387	0.414	1.192
559.0	559.0	12.25	6.0	123	25.0	1.170	0.410	0.459	1.032
560.0	560.0	12.25	5.5	124	25.0	1.170	0.410	0.446	1.120
561.0	561.0	12.25	5.3	124	30.3	1.170	0.386	0.428	1.081
562.0	562.0	12.25	5.4	122	30.3	1.170	0.386	0.429	1.072
563.0	563.0	12.25	5.8	122	33.3	1.170	0.386	0.432	1.050
564.0	564.0	12.25	5.3	123	35.7	1.170	0.386	0.417	1.164
565.0	565.0	12.25	5.6	123	34.5	1.170	0.399	0.426	1.195
566.0	566.0	12.25	5.3	123	25.0	1.170	0.399	0.440	1.094
567.0	567.0	12.25	5.3	123	25.6	1.170	0.399	0.438	1.107
568.0	568.0	12.25	5.7	123	24.4	1.170	0.399	0.452	1.010
569.0	569.0	12.25	5.5	124	28.6	1.170	0.399	0.437	1.122
570.0	570.0	12.25	5.5	124	27.0	1.170	0.399	0.440	1.096
571.0	571.0	12.25	5.3	123	38.5	1.170	0.366	0.411	1.064
572.0	572.0	12.25	5.4	122	38.5	1.170	0.366	0.413	1.052
573.0	573.0	12.25	5.7	123	40.0	1.170	0.366	0.418	1.018
574.0	574.0	12.25	5.3	123	41.7	1.170	0.366	0.406	1.101
575.0	575.0	12.25	5.6	122	43.5	1.170	0.366	0.410	1.077
576.0	576.0	12.25	5.4	122	37.0	1.170	0.366	0.415	1.039
577.0	577.0	12.25	5.6	121	35.7	1.170	0.380	0.422	1.091

Sigma / Pore Gradient

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	b	Sigma	PoreGrad Kg/cm ² /10m
580.0	580.0	12.25	5.4	123	33.3	1.170	0.380	0.422	1.088
581.0	581.0	12.25	5.5	123	32.3	1.170	0.380	0.427	1.057
582.0	582.0	12.25	5.4	122	30.3	1.170	0.380	0.428	1.050
583.0	583.0	12.25	5.4	122	30.3	1.170	0.380	0.428	1.051
584.0	584.0	12.25	5.7	122	32.3	1.170	0.380	0.431	1.031
585.0	585.0	12.25	5.3	123	33.3	1.170	0.380	0.420	1.110
586.0	586.0	12.25	5.6	123	31.3	1.170	0.380	0.431	1.031
587.0	587.0	12.25	5.3	122	34.5	1.170	0.380	0.417	1.130
588.0	588.0	12.25	5.6	121	35.7	1.170	0.380	0.421	1.101
589.0	589.0	12.25	5.5	122	43.5	1.170	0.380	0.407	1.200
590.0	590.0	12.25	5.4	122	41.7	1.170	0.380	0.407	1.198
591.0	591.0	12.25	5.3	123	40.0	1.170	0.380	0.408	1.194
592.0	592.0	12.25	5.5	122	38.5	1.170	0.380	0.414	1.150
593.0	593.0	12.25	5.3	123	32.3	1.170	0.380	0.421	1.102
594.0	594.0	12.25	5.2	122	32.3	1.170	0.380	0.418	1.124
595.0	595.0	12.25	5.4	122	30.3	1.170	0.380	0.427	1.063
596.0	596.0	12.25	5.7	123	31.3	1.170	0.380	0.433	1.025
597.0	597.0	12.25	5.7	123	29.4	1.170	0.388	0.437	1.050
598.0	598.0	12.25	5.4	123	25.0	1.170	0.388	0.441	1.026
599.0	599.0	12.25	5.9	123	37.0	1.170	0.388	0.426	1.126
600.0	600.0	12.25	5.3	123	43.5	1.170	0.364	0.402	1.128
601.0	601.0	12.25	5.8	123	41.7	1.170	0.364	0.416	1.036
602.0	602.0	12.25	5.8	123	47.6	1.170	0.364	0.407	1.093
603.0	603.0	12.25	5.4	123	50.0	1.170	0.364	0.396	1.171
604.0	604.0	12.25	5.5	122	41.7	1.170	0.364	0.408	1.087
605.0	605.0	12.25	5.4	122	41.7	1.170	0.364	0.406	1.103
606.0	606.0	12.25	5.4	123	50.0	1.170	0.364	0.395	1.174
607.0	607.0	12.25	5.4	124	58.8	1.170	0.340	0.386	1.077
608.0	608.0	12.25	5.4	124	52.6	1.170	0.340	0.393	1.035
609.0	609.0	12.25	5.4	123	58.8	1.170	0.340	0.386	1.081
610.0	610.0	12.25	5.3	124	58.8	1.170	0.340	0.384	1.093
611.0	611.0	12.25	5.7	124	58.8	1.170	0.340	0.392	1.039
612.0	612.0	12.25	5.5	123	66.7	1.170	0.340	0.381	1.117
613.0	613.0	12.25	5.4	123	58.8	1.170	0.340	0.386	1.085
614.0	614.0	12.25	5.6	123	58.8	1.170	0.340	0.390	1.059
615.0	615.0	12.25	5.3	123	52.6	1.170	0.340	0.390	1.059
616.0	616.0	12.25	5.7	124	55.6	1.170	0.340	0.395	1.022
617.0	617.0	12.25	5.7	124	66.7	1.170	0.340	0.385	1.092
618.0	618.0	12.25	5.4	125	55.6	1.170	0.340	0.389	1.062
619.0	619.0	12.25	5.4	124	52.6	1.170	0.340	0.392	1.046
620.0	620.0	12.25	5.6	124	52.6	1.170	0.371	0.396	1.222
621.0	621.0	12.25	6.0	124	38.5	1.170	0.371	0.425	1.038
622.0	622.0	12.25	5.8	124	62.5	1.170	0.348	0.390	1.109
623.0	623.0	12.25	5.8	123	55.6	1.170	0.348	0.397	1.068
624.0	624.0	12.25	5.7	124	55.6	1.170	0.348	0.395	1.079
625.0	625.0	12.25	5.7	124	58.8	1.170	0.348	0.392	1.101
626.0	626.0	12.25	5.7	124	62.5	1.170	0.348	0.388	1.125
627.0	627.0	12.25	5.8	118	62.5	1.170	0.348	0.387	1.131
628.0	628.0	12.25	6.0	119	58.8	1.170	0.348	0.395	1.081
629.0	629.0	12.25	5.7	119	55.6	1.170	0.348	0.392	1.099
630.0	630.0	12.25	5.8	119	62.5	1.170	0.348	0.387	1.130
631.0	631.0	12.25	5.8	119	52.6	1.170	0.348	0.397	1.067
632.0	632.0	12.25	5.9	119	55.6	1.170	0.348	0.396	1.075
633.0	633.0	12.25	5.8	118	66.7	1.170	0.348	0.383	1.159
634.0	634.0	12.25	5.9	116	55.6	1.170	0.348	0.394	1.087
635.0	635.0	12.25	5.9	117	58.8	1.170	0.348	0.392	1.106
636.0	636.0	12.25	5.7	116	55.6	1.170	0.348	0.390	1.114
637.0	637.0	12.25	5.5	118	62.5	1.170	0.348	0.380	1.177
638.0	638.0	12.25	5.9	118	66.7	1.170	0.348	0.385	1.151
639.0	639.0	12.25	5.9	117	50.0	1.170	0.348	0.401	1.048
640.0	640.0	12.25	5.8	116	58.8	1.170	0.348	0.389	1.126
641.0	641.0	12.25	5.8	119	29.4	1.170	0.379	0.434	1.034
642.0	642.0	12.25	5.9	120	43.5	1.170	0.379	0.411	1.180
643.0	643.0	12.25	5.8	119	50.0	1.170	0.351	0.400	1.078
644.0	644.0	12.25	5.9	119	47.6	1.170	0.351	0.405	1.047
645.0	645.0	12.25	5.9	118	45.5	1.170	0.351	0.407	1.033
646.0	646.0	12.25	5.9	118	50.0	1.170	0.351	0.401	1.071
647.0	647.0	12.25	5.6	118	47.6	1.170	0.351	0.398	1.093

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	b	Sigma	PoreGrad Kg/cm ² /10m
650.0	650.0	12.25	5.8	119	35.7	1.170	0.378	0.421	1.120
651.0	651.0	12.25	5.8	119	32.3	1.170	0.378	0.428	1.078
652.0	652.0	12.25	5.8	120	31.3	1.170	0.378	0.430	1.062
653.0	653.0	12.25	5.7	119	30.3	1.170	0.378	0.429	1.068
654.0	654.0	12.25	5.9	120	29.4	1.170	0.378	0.437	1.023
655.0	655.0	12.25	5.6	123	43.5	1.170	0.378	0.405	1.216
656.0	656.0	12.25	5.6	123	27.0	1.170	0.405	0.437	1.188
657.0	657.0	12.25	5.9	122	20.4	1.170	0.405	0.465	1.019
658.0	658.0	8.50	1.9	73	11.4	1.170	0.405	0.413	1.336
659.0	659.0	8.50	2.0	73	13.7	1.170	0.358	0.407	1.083
660.0	660.0	8.50	2.0	72	22.2	1.170	0.358	0.378	1.264
661.0	661.0	8.50	2.0	72	27.8	1.170	0.330	0.366	1.170
662.0	662.0	8.50	2.2	72	22.7	1.170	0.330	0.387	1.039
663.0	663.0	8.50	1.9	72	22.2	1.170	0.330	0.372	1.132
664.0	664.0	8.50	2.1	76	47.6	1.170	0.330	0.346	1.289
665.0	665.0	8.50	1.9	78	71.4	1.170	0.283	0.320	1.160
666.0	666.0	8.50	2.1	78	76.9	1.170	0.283	0.325	1.129
667.0	667.0	8.50	2.2	78	76.9	1.170	0.283	0.329	1.106
668.0	668.0	8.50	2.1	78	52.6	1.170	0.283	0.342	1.028
669.0	669.0	8.50	2.2	78	66.7	1.170	0.283	0.335	1.069
670.0	670.0	8.50	2.1	78	71.4	1.170	0.283	0.328	1.113
671.0	671.0	8.50	1.9	78	66.7	1.170	0.283	0.322	1.147
672.0	672.0	8.50	1.9	78	62.5	1.170	0.283	0.325	1.132
673.0	673.0	8.50	2.1	78	62.5	1.170	0.283	0.334	1.080
674.0	674.0	8.50	1.9	78	47.6	1.170	0.283	0.337	1.061
675.0	675.0	8.50	2.0	78	13.3	1.170	0.353	0.412	1.029
676.0	676.0	8.50	1.7	88	21.7	1.170	0.353	0.371	1.274
677.0	677.0	8.50	2.0	116	76.9	1.170	0.301	0.338	1.165
678.0	678.0	8.50	2.3	116	58.8	1.170	0.319	0.365	1.113
679.0	679.0	8.50	2.0	116	41.7	1.170	0.319	0.368	1.093
680.0	680.0	8.50	2.1	110	34.5	1.170	0.319	0.381	1.017
681.0	681.0	8.50	2.0	85	26.3	1.170	0.319	0.376	1.046
682.0	682.0	8.50	1.8	79	17.9	1.170	0.352	0.382	1.205
683.0	683.0	8.50	2.0	77	13.3	1.170	0.352	0.411	1.036
684.0	684.0	8.50	2.0	77	15.6	1.170	0.352	0.401	1.095
685.0	685.0	8.50	2.0	77	14.9	1.170	0.352	0.404	1.080
686.0	686.0	8.50	2.1	77	14.5	1.170	0.352	0.412	1.033
687.0	687.0	8.50	1.9	86	14.7	1.170	0.352	0.405	1.073
688.0	688.0	8.50	4.9	114	19.2	1.170	0.497	0.559	1.018
689.0	689.0	8.50	5.0	124	22.7	1.170	0.497	0.555	1.044
690.0	690.0	8.50	5.0	125	24.4	1.170	0.497	0.548	1.082
691.0	691.0	8.50	5.0	124	26.3	1.170	0.497	0.540	1.130
692.0	692.0	8.50	5.0	124	25.0	1.170	0.497	0.545	1.102
693.0	693.0	8.50	5.0	124	21.3	1.170	0.515	0.561	1.118
694.0	694.0	8.50	4.7	124	17.9	1.170	0.515	0.566	1.089
695.0	695.0	8.50	4.9	124	17.9	1.170	0.515	0.575	1.039
696.0	696.0	8.50	4.8	124	15.4	1.170	0.542	0.586	1.125
697.0	697.0	8.50	5.0	124	15.6	1.170	0.542	0.594	1.084
698.0	698.0	8.50	4.7	124	15.4	1.170	0.542	0.582	1.152
699.0	699.0	8.50	5.2	125	15.2	1.170	0.542	0.607	1.010
700.0	700.0	8.50	4.9	125	13.0	1.170	0.542	0.611	0.988
701.0	701.0	8.50	4.9	125	16.7	1.170	0.533	0.583	1.099
702.0	702.0	8.50	4.8	125	17.9	1.170	0.533	0.571	1.166
703.0	703.0	8.50	5.2	125	13.2	1.170	0.575	0.623	1.109
704.0	704.0	8.50	5.2	123	12.8	1.170	0.575	0.624	1.103
705.0	705.0	8.50	5.0	123	10.6	1.170	0.575	0.637	1.030
706.0	706.0	8.50	4.8	123	11.1	1.170	0.575	0.622	1.116
707.0	707.0	8.50	5.1	123	9.5	1.170	0.594	0.655	1.033
708.0	708.0	8.50	5.0	123	13.7	1.170	0.584	0.607	1.253
709.0	709.0	8.50	5.0	123	10.3	1.170	0.584	0.640	1.064
710.0	710.0	8.50	4.8	123	11.6	1.170	0.584	0.616	1.201
711.0	711.0	8.50	5.0	123	11.4	1.170	0.584	0.628	1.132
712.0	712.0	8.50	5.0	123	10.3	1.170	0.607	0.640	1.197
713.0	713.0	8.50	5.2	122	9.3	1.170	0.607	0.662	1.073
714.0	714.0	8.50	5.0	121	8.2	1.170	0.607	0.667	1.049
715.0	715.0	8.50	4.9	121	8.9	1.170	0.607	0.651	1.139
716.0	716.0	8.50	5.0	120	11.9	1.170	0.560	0.620	1.049
717.0	717.0	8.50	5.1	121	13.3	1.170	0.560	0.612	1.092

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	b	Sigma	PoreGrad Kg/cm ² /10m
720.0	720.0	8.50	5.0	119	10.9	1.170	0.560	0.629	0.998
721.0	721.0	8.50	5.0	119	13.3	1.170	0.560	0.605	1.131
722.0	722.0	8.50	5.3	120	15.4	1.170	0.560	0.603	1.143
723.0	723.0	8.50	5.0	119	13.0	1.170	0.560	0.608	1.116
724.0	724.0	8.50	4.9	120	12.3	1.170	0.560	0.610	1.105
725.0	725.0	8.50	4.9	120	11.8	1.170	0.560	0.616	1.075
726.0	726.0	8.50	5.0	120	11.4	1.170	0.560	0.625	1.027
727.0	727.0	8.50	5.0	121	9.4	1.170	0.582	0.648	1.020
728.0	728.0	8.50	5.0	120	10.8	1.170	0.582	0.631	1.114
729.0	729.0	8.50	4.9	120	13.3	1.170	0.582	0.601	1.278
730.0	730.0	8.50	4.9	120	11.6	1.170	0.582	0.617	1.193
731.0	731.0	8.50	4.9	120	9.6	1.170	0.582	0.639	1.069
732.0	732.0	8.50	5.1	120	11.2	1.170	0.582	0.630	1.120
733.0	733.0	8.50	5.1	119	9.9	1.170	0.628	0.645	1.293
734.0	734.0	8.50	4.7	121	5.6	1.170	0.628	0.700	0.991
735.0	735.0	8.50	5.1	120	8.9	1.170	0.628	0.658	1.218
736.0	736.0	8.50	5.3	121	8.0	1.170	0.628	0.684	1.080
737.0	737.0	8.50	5.0	120	8.6	1.170	0.628	0.658	1.222
738.0	738.0	8.50	4.9	121	8.7	1.170	0.600	0.653	1.099
739.0	739.0	8.50	5.1	120	9.0	1.170	0.600	0.657	1.075
740.0	740.0	8.50	5.0	120	8.4	1.170	0.600	0.661	1.055
741.0	741.0	8.50	4.7	121	9.1	1.170	0.600	0.637	1.187
742.0	742.0	8.50	4.9	120	7.9	1.170	0.600	0.663	1.045
743.0	743.0	8.50	4.9	121	8.9	1.170	0.600	0.649	1.121
744.0	744.0	8.50	5.0	120	9.5	1.170	0.600	0.645	1.143
745.0	745.0	8.50	5.0	120	10.1	1.170	0.600	0.638	1.183
746.0	746.0	8.50	5.1	120	6.4	1.170	0.637	0.703	1.031
747.0	747.0	8.50	5.3	120	7.5	1.170	0.637	0.690	1.097
748.0	748.0	8.50	5.2	120	16.9	1.170	0.543	0.587	1.151
749.0	749.0	8.50	5.0	120	17.9	1.170	0.543	0.572	1.226
750.0	750.0	8.50	5.0	119	16.4	1.170	0.543	0.581	1.183
751.0	751.0	8.50	5.1	119	20.0	1.170	0.543	0.564	1.273
752.0	752.0	8.50	5.0	120	13.5	1.170	0.543	0.603	1.065
753.0	753.0	8.50	5.0	120	13.5	1.170	0.543	0.603	1.066
754.0	754.0	8.50	5.1	118	16.7	1.170	0.519	0.582	1.047
755.0	755.0	8.50	5.2	117	17.9	1.170	0.519	0.578	1.070
756.0	756.0	8.50	3.4	118	17.5	1.268	0.468	0.480	1.320
757.0	757.0	8.50	3.5	115	8.0	1.300	0.490	0.553	1.052
758.0	758.0	8.50	3.6	116	9.4	1.300	0.490	0.542	1.110
759.0	759.0	8.50	3.8	116	8.1	1.300	0.504	0.570	1.037
760.0	760.0	8.50	3.5	114	22.7	1.300	0.430	0.453	1.259
761.0	761.0	8.50	3.5	114	22.2	1.300	0.430	0.455	1.250
762.0	762.0	8.50	3.4	115	6.8	1.300	0.499	0.563	1.045
763.0	763.0	8.50	3.9	118	9.0	1.300	0.499	0.565	1.035
764.0	764.0	8.50	3.4	118	13.2	1.300	0.466	0.499	1.214
765.0	765.0	8.50	3.5	118	10.2	1.300	0.466	0.529	1.054
766.0	766.0	8.50	3.3	118	9.3	1.300	0.466	0.527	1.066
767.0	767.0	8.50	3.3	118	9.2	1.300	0.466	0.528	1.062
768.0	768.0	8.50	3.3	118	12.0	1.300	0.466	0.501	1.203
769.0	769.0	8.50	3.5	118	13.3	1.300	0.466	0.503	1.196
770.0	770.0	8.50	3.4	118	11.4	1.300	0.466	0.512	1.145
771.0	771.0	8.50	3.3	118	11.5	1.300	0.466	0.505	1.182
772.0	772.0	8.50	3.1	119	8.5	1.300	0.466	0.524	1.086
773.0	773.0	8.50	3.4	119	10.6	1.300	0.466	0.519	1.109
774.0	774.0	8.50	3.3	118	22.2	1.300	0.414	0.447	1.215
775.0	775.0	8.50	3.6	118	23.8	1.300	0.414	0.456	1.171
776.0	776.0	8.50	3.7	118	18.5	1.300	0.414	0.482	1.033
777.0	777.0	8.50	3.3	118	18.9	1.300	0.414	0.460	1.147
778.0	778.0	8.50	3.6	119	11.1	1.300	0.489	0.526	1.195
779.0	779.0	8.50	3.7	119	8.5	1.300	0.489	0.559	1.023
780.0	780.0	8.50	3.3	119	8.3	1.300	0.489	0.538	1.132
781.0	781.0	8.50	3.8	119	9.6	1.300	0.489	0.552	1.061
782.0	782.0	8.50	3.4	119	10.9	1.300	0.470	0.516	1.147
783.0	783.0	8.50	3.6	119	10.3	1.300	0.470	0.533	1.060
784.0	784.0	8.50	3.4	119	9.3	1.300	0.470	0.531	1.070
785.0	785.0	8.50	3.5	119	10.3	1.300	0.470	0.527	1.092
786.0	786.0	8.50	3.3	119	8.3	1.300	0.470	0.538	1.038
787.0	787.0	8.50	3.7	119	10.4	1.300	0.497	0.537	1.179

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	b	Sigma	PoreGrad Kg/cm ² /10m
790.0	790.0	8.50	3.5	119	12.0	1.300	0.469	0.511	1.171
791.0	791.0	8.50	3.9	119	11.0	1.300	0.469	0.542	1.012
792.0	792.0	8.50	3.7	119	12.2	1.300	0.469	0.521	1.123
793.0	793.0	8.50	3.6	119	13.0	1.300	0.469	0.509	1.183
794.0	794.0	8.50	3.6	119	9.9	1.300	0.469	0.536	1.045
795.0	795.0	8.50	3.8	118	14.3	1.300	0.469	0.509	1.182
796.0	796.0	8.50	3.9	119	12.8	1.300	0.469	0.526	1.098
797.0	797.0	8.50	4.0	119	11.0	1.320	0.553	0.543	1.431
798.0	798.0	8.50	4.0	119	6.1	1.320	0.553	0.611	1.091
799.0	799.0	8.50	4.0	119	5.6	1.320	0.553	0.622	1.033
800.0	800.0	8.50	3.9	119	13.9	1.320	0.464	0.514	1.134
801.0	801.0	8.50	3.8	119	14.5	1.320	0.464	0.504	1.182
802.0	802.0	8.50	3.8	119	10.9	1.320	0.496	0.533	1.200
803.0	803.0	8.50	3.8	119	8.1	1.320	0.496	0.564	1.042
804.0	804.0	8.50	4.1	119	12.5	1.320	0.496	0.534	1.195
805.0	805.0	8.50	3.8	119	17.9	1.320	0.425	0.484	1.090
806.0	806.0	8.50	3.9	119	17.5	1.320	0.425	0.491	1.058
807.0	807.0	8.50	3.6	119	20.4	1.320	0.425	0.462	1.201
808.0	808.0	8.50	3.8	118	14.3	1.320	0.495	0.504	1.340
809.0	809.0	8.50	3.8	122	12.8	1.320	0.495	0.518	1.271
810.0	810.0	8.50	3.8	122	9.8	1.320	0.495	0.546	1.133
811.0	811.0	8.50	4.4	122	11.2	1.320	0.495	0.563	1.047
812.0	812.0	8.50	4.1	122	9.3	1.320	0.495	0.569	1.019
813.0	813.0	8.50	4.2	122	13.3	1.320	0.495	0.534	1.192
814.0	814.0	8.50	4.2	122	9.0	1.320	0.575	0.577	1.373
815.0	815.0	8.50	4.1	124	5.1	1.320	0.575	0.645	1.039
816.0	816.0	8.50	4.2	125	14.7	1.320	0.495	0.526	1.233
817.0	817.0	8.50	4.1	125	9.7	1.320	0.495	0.566	1.038
818.0	818.0	8.50	4.2	125	12.7	1.320	0.495	0.542	1.157
819.0	819.0	8.50	4.3	125	13.0	1.320	0.495	0.544	1.147
820.0	820.0	8.50	4.2	125	13.0	1.320	0.495	0.539	1.172
821.0	821.0	8.50	4.3	125	11.9	1.320	0.495	0.553	1.102
822.0	822.0	8.50	4.2	125	13.7	1.320	0.495	0.533	1.201
823.0	823.0	8.50	4.5	125	11.5	1.320	0.495	0.567	1.034
824.0	824.0	8.50	4.3	125	14.9	1.320	0.495	0.529	1.222
825.0	825.0	8.50	4.4	125	14.3	1.320	0.495	0.538	1.177
826.0	826.0	8.50	4.3	125	14.7	1.320	0.495	0.530	1.216
827.0	827.0	8.50	4.3	125	12.0	1.320	0.495	0.551	1.113
828.0	828.0	8.50	4.2	125	9.1	1.320	0.508	0.578	1.047
829.0	829.0	8.50	4.1	125	11.5	1.320	0.508	0.546	1.203
830.0	830.0	8.50	3.9	125	11.1	1.320	0.508	0.539	1.238
831.0	831.0	8.50	3.9	125	8.3	1.320	0.508	0.570	1.084
832.0	832.0	8.50	4.0	125	5.6	1.320	0.563	0.623	1.095
833.0	833.0	8.50	3.9	125	4.6	1.320	0.615	0.643	1.252
834.0	834.0	8.50	4.3	125	4.1	1.320	0.615	0.687	1.038
835.0	835.0	8.50	3.9	125	6.7	1.320	0.535	0.595	1.096
836.0	836.0	8.50	3.9	125	8.5	1.320	0.535	0.568	1.229
837.0	837.0	8.50	3.8	125	9.7	1.320	0.484	0.547	1.082
838.0	838.0	8.50	3.9	125	12.3	1.320	0.484	0.527	1.180
839.0	839.0	8.50	4.2	125	15.6	1.320	0.484	0.518	1.224
840.0	840.0	8.50	3.9	125	11.1	1.320	0.484	0.538	1.128
841.0	841.0	8.50	4.2	125	10.3	1.320	0.484	0.562	1.010
842.0	842.0	8.50	4.5	125	14.1	1.320	0.484	0.543	1.104
843.0	843.0	8.50	4.4	122	11.1	1.320	0.539	0.561	1.282
844.0	844.0	8.50	4.5	120	8.9	1.320	0.539	0.590	1.146
845.0	845.0	8.50	4.5	120	7.6	1.320	0.539	0.609	1.055
846.0	846.0	8.50	4.4	120	7.4	1.320	0.539	0.607	1.061
847.0	847.0	8.50	4.8	120	9.3	1.320	0.539	0.599	1.101
848.0	848.0	8.50	4.5	120	7.9	1.320	0.539	0.604	1.076
849.0	849.0	8.50	4.4	120	8.1	1.320	0.539	0.596	1.118
850.0	850.0	8.50	4.2	120	12.3	1.320	0.539	0.537	1.397
851.0	851.0	8.50	4.5	120	6.5	1.320	0.553	0.628	1.027
852.0	852.0	8.50	4.5	120	9.2	1.320	0.529	0.586	1.120
853.0	853.0	8.50	4.7	120	13.5	1.320	0.529	0.551	1.283
854.0	854.0	8.50	4.3	120	8.3	1.320	0.529	0.586	1.119
855.0	855.0	8.50	4.8	120	8.9	1.320	0.529	0.604	1.033
856.0	856.0	8.50	4.4	120	12.0	1.320	0.529	0.549	1.294
857.0	857.0	8.50	4.8	120	15.4	1.320	0.477	0.541	1.085

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	b	Sigma	PoreGrad Kg/cmq/10m
860.0	860.0	8.50	4.5	120	10.5	1.320	0.500	0.569	1.064
861.0	861.0	8.50	4.4	119	10.3	1.320	0.500	0.565	1.083
862.0	862.0	8.50	4.6	114	11.9	1.320	0.500	0.554	1.135
863.0	863.0	8.50	4.4	113	12.0	1.320	0.500	0.542	1.192
864.0	864.0	8.50	4.6	114	10.3	1.320	0.500	0.570	1.060
865.0	865.0	8.50	4.6	113	16.9	1.320	0.457	0.515	1.115
866.0	866.0	8.50	4.6	114	16.4	1.320	0.457	0.519	1.095
867.0	867.0	8.50	4.4	114	15.4	1.320	0.457	0.517	1.108
868.0	868.0	8.50	4.5	113	14.3	1.320	0.457	0.528	1.055
869.0	869.0	8.50	4.6	114	14.5	1.320	0.457	0.532	1.037
870.0	870.0	8.50	5.6	114	14.7	1.320	0.503	0.574	1.059
871.0	871.0	8.50	5.5	118	15.6	1.320	0.503	0.566	1.094
872.0	872.0	8.50	5.5	122	16.9	1.320	0.503	0.561	1.120
873.0	873.0	8.50	5.5	122	10.8	1.320	0.579	0.615	1.218
874.0	874.0	8.50	5.4	122	7.5	1.320	0.579	0.658	1.018
875.0	875.0	8.50	5.4	122	12.0	1.320	0.579	0.596	1.305
876.0	876.0	8.50	5.6	120	19.6	1.320	0.471	0.547	1.037
877.0	877.0	8.50	5.4	120	19.6	1.320	0.471	0.539	1.075
878.0	878.0	8.50	5.5	121	21.3	1.320	0.471	0.535	1.094
879.0	879.0	8.50	5.6	122	22.7	1.320	0.471	0.532	1.105
880.0	880.0	8.50	5.5	121	23.3	1.320	0.471	0.525	1.139
881.0	881.0	8.50	5.4	121	21.7	1.320	0.471	0.528	1.125
882.0	882.0	8.50	5.5	122	22.7	1.320	0.471	0.528	1.125
883.0	883.0	8.50	5.3	122	22.2	1.320	0.471	0.523	1.151
884.0	884.0	8.50	5.4	121	21.7	1.320	0.471	0.528	1.127
885.0	885.0	8.50	5.5	121	21.7	1.320	0.471	0.532	1.110
886.0	886.0	8.50	5.4	121	23.8	1.320	0.471	0.518	1.172
887.0	887.0	8.50	5.5	121	21.3	1.320	0.471	0.534	1.101
888.0	888.0	8.50	5.5	120	20.0	1.320	0.489	0.539	1.157
889.0	889.0	8.50	5.5	122	18.9	1.320	0.489	0.547	1.121
890.0	890.0	8.50	5.4	122	19.6	1.320	0.489	0.539	1.159
891.0	891.0	8.50	5.4	120	18.5	1.320	0.489	0.543	1.140
892.0	892.0	8.50	5.5	120	18.9	1.320	0.489	0.545	1.131
893.0	893.0	8.50	5.5	122	17.2	1.320	0.489	0.557	1.078
894.0	894.0	8.50	5.6	121	19.2	1.320	0.489	0.548	1.120
895.0	895.0	8.50	5.5	121	14.5	1.320	0.526	0.576	1.163
896.0	896.0	8.50	5.6	122	13.5	1.320	0.526	0.589	1.102
897.0	897.0	8.50	5.5	121	14.1	1.320	0.526	0.579	1.149
898.0	898.0	8.50	4.7	121	14.7	1.320	0.441	0.538	0.944
899.0	899.0	8.50	4.3	114	24.4	1.320	0.441	0.465	1.278
900.0	900.0	8.50	4.4	112	22.2	1.320	0.441	0.476	1.230
901.0	901.0	8.50	4.3	111	18.5	1.320	0.441	0.488	1.177
902.0	902.0	8.50	4.6	111	17.2	1.320	0.441	0.508	1.086
903.0	902.9	8.50	4.5	112	20.0	1.320	0.441	0.490	1.168
904.0	903.9	8.50	3.2	112	9.5	1.320	0.441	0.496	1.143
905.0	904.9	6.00	2.1	86	20.4	1.320	0.379	0.452	1.061
906.0	905.9	6.00	2.0	86	27.0	1.320	0.379	0.421	1.203
907.0	906.9	6.00	1.9	91	23.3	1.320	0.379	0.429	1.167
908.0	907.9	6.00	1.9	91	13.5	1.320	0.407	0.476	1.079
909.0	908.9	6.00	2.0	91	15.6	1.320	0.407	0.472	1.097
910.0	909.9	6.00	1.8	91	16.4	1.320	0.407	0.449	1.200
911.0	910.9	6.00	1.1	89	28.6	1.350	0.279	0.332	1.159
912.0	911.9	6.00	0.9	87	33.3	1.350	0.279	0.301	1.299
913.0	912.9	6.00	1.1	87	23.3	1.350	0.279	0.343	1.111
914.0	913.9	6.00	0.9	88	25.0	1.350	0.279	0.316	1.231
915.0	914.9	6.00	1.2	88	25.0	1.350	0.279	0.349	1.080
916.0	915.9	6.00	1.0	87	27.8	1.350	0.279	0.321	1.209
917.0	916.9	6.00	1.1	87	28.6	1.350	0.279	0.330	1.169
918.0	917.9	6.00	0.9	88	17.5	1.350	0.279	0.336	1.144
919.0	918.9	6.00	1.1	88	18.9	1.350	0.279	0.356	1.052
920.0	919.9	6.00	1.1	88	27.0	1.350	0.279	0.334	1.154
921.0	920.9	6.00	1.1	88	27.8	1.350	0.279	0.332	1.162
922.0	921.9	6.00	1.0	88	19.2	1.350	0.279	0.342	1.115
923.0	922.9	6.00	0.8	88	17.9	1.350	0.279	0.321	1.212
924.0	923.9	6.00	1.0	88	18.2	1.350	0.279	0.346	1.101
925.0	924.9	6.00	0.7	88	17.9	1.350	0.279	0.307	1.276
926.0	925.9	6.00	1.1	88	17.9	1.350	0.279	0.359	1.042
927.0	926.9	6.00	1.2	88	16.7	1.350	0.279	0.375	0.966

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	b	Sigma	PoreGrad Kg/cmq/10m
930.0	929.9	6.00	0.8	88	17.2	1.350	0.279	0.322	1.208
931.0	930.9	6.00	1.0	88	21.3	1.350	0.279	0.335	1.149
932.0	931.9	6.00	0.7	88	25.0	1.350	0.279	0.289	1.353
933.0	932.9	6.00	1.3	88	25.0	1.350	0.279	0.358	1.048
934.0	933.9	6.00	0.7	88	28.6	1.350	0.279	0.283	1.380
935.0	934.9	6.00	1.2	90	21.7	1.350	0.279	0.358	1.049
936.0	935.9	6.00	1.0	92	23.8	1.350	0.279	0.331	1.170
937.0	936.9	6.00	0.8	92	25.6	1.350	0.279	0.303	1.295
938.0	937.9	6.00	1.0	103	23.3	1.350	0.279	0.339	1.136
939.0	938.9	6.00	1.1	119	29.4	1.350	0.279	0.345	1.109
940.0	939.9	6.00	1.0	119	27.8	1.350	0.279	0.337	1.146
941.0	940.9	6.00	1.1	119	28.6	1.350	0.296	0.346	1.176
942.0	941.9	6.00	1.0	119	12.8	1.350	0.296	0.387	0.992
943.0	942.9	6.00	1.0	119	15.9	1.350	0.296	0.372	1.062
944.0	943.9	6.00	1.0	119	26.3	1.350	0.296	0.339	1.207
945.0	944.9	6.00	1.1	119	21.3	1.350	0.296	0.365	1.095
946.0	945.9	6.00	0.7	119	20.0	1.350	0.296	0.314	1.316
947.0	946.9	6.00	1.1	119	18.5	1.350	0.296	0.374	1.054
948.0	947.9	6.00	1.5	119	15.6	1.350	0.352	0.434	1.036
949.0	948.9	6.00	1.0	119	12.3	1.350	0.352	0.389	1.234
950.0	949.9	6.00	1.0	119	11.4	1.350	0.352	0.395	1.209
951.0	950.9	6.00	1.1	119	6.3	1.350	0.389	0.460	1.088
952.0	951.9	6.00	1.1	119	6.1	1.350	0.389	0.463	1.076
953.0	952.9	6.00	1.0	119	11.2	1.350	0.389	0.396	1.363
954.0	953.9	6.00	1.0	119	10.3	1.350	0.333	0.402	1.095
955.0	954.9	6.00	1.1	119	9.8	1.350	0.333	0.421	1.011
956.0	955.9	6.00	0.9	119	13.5	1.350	0.304	0.367	1.124
957.0	956.9	6.00	1.0	119	16.9	1.350	0.304	0.366	1.130
958.0	957.9	6.00	1.0	119	14.7	1.350	0.304	0.376	1.088
959.0	958.9	6.00	1.0	119	14.9	1.350	0.304	0.375	1.093
960.0	959.9	6.00	1.1	119	16.9	1.350	0.304	0.379	1.074
961.0	960.9	6.00	1.0	119	18.5	1.350	0.304	0.360	1.158
962.0	961.9	6.00	1.0	119	15.9	1.350	0.304	0.370	1.114
963.0	962.9	6.00	0.9	119	16.9	1.350	0.304	0.352	1.194
964.0	963.9	6.00	1.1	119	22.7	1.350	0.304	0.359	1.164
965.0	964.9	6.00	1.0	119	24.4	1.350	0.304	0.342	1.236
966.0	965.9	6.00	1.1	119	21.7	1.350	0.304	0.361	1.153
967.0	966.9	6.00	1.0	119	17.5	1.350	0.304	0.363	1.147
968.0	967.9	6.00	1.1	119	17.2	1.350	0.304	0.377	1.086
969.0	968.9	6.00	1.1	119	15.6	1.350	0.317	0.384	1.112
970.0	969.9	6.00	1.0	119	11.5	1.350	0.317	0.392	1.075
971.0	970.9	6.00	1.0	119	14.5	1.350	0.317	0.375	1.148
972.0	971.9	6.00	1.0	119	13.3	1.350	0.317	0.381	1.124
973.0	972.9	6.00	1.0	119	17.2	1.350	0.317	0.363	1.200
974.0	973.9	6.00	1.1	119	14.7	1.350	0.317	0.388	1.096
975.0	974.9	6.00	1.0	119	14.5	1.350	0.317	0.375	1.151
976.0	975.9	6.00	1.0	119	12.5	1.350	0.317	0.385	1.107
977.0	976.9	6.00	1.0	119	14.1	1.350	0.317	0.377	1.144
978.0	977.9	6.00	0.9	119	11.4	1.350	0.317	0.377	1.144
979.0	978.9	6.00	1.0	119	9.7	1.350	0.317	0.404	1.026
980.0	979.9	6.00	0.9	119	7.4	1.350	0.317	0.409	1.007
981.0	980.9	6.00	1.0	119	13.5	1.350	0.317	0.379	1.134
982.0	981.9	6.00	1.0	119	12.3	1.350	0.317	0.386	1.107
983.0	982.9	6.00	1.0	119	12.8	1.350	0.317	0.383	1.120
984.0	983.9	6.00	1.0	119	12.7	1.350	0.317	0.384	1.117
985.0	984.9	6.00	1.0	119	13.3	1.350	0.317	0.380	1.133
986.0	985.9	6.00	1.0	119	12.8	1.350	0.317	0.383	1.122
987.0	986.9	6.00	1.0	119	13.5	1.350	0.317	0.379	1.139
988.0	987.9	6.00	1.0	119	13.0	1.350	0.317	0.381	1.127
989.0	988.9	6.00	1.0	119	14.5	1.350	0.317	0.374	1.161
990.0	989.9	6.00	1.0	119	15.6	1.350	0.317	0.368	1.183
991.0	990.9	6.00	1.0	119	11.8	1.350	0.317	0.388	1.099
992.0	991.9	6.00	1.0	117	19.2	1.350	0.317	0.353	1.247
993.0	992.9	6.00	1.0	117	20.0	1.350	0.291	0.351	1.152
994.0	993.9	6.00	1.0	117	17.5	1.350	0.291	0.359	1.116
995.0	994.9	6.00	1.0	117	17.9	1.350	0.291	0.358	1.122
996.0	995.9	6.00	1.0	117	18.2	1.350	0.291	0.356	1.128
997.0	996.9	6.00	1.0	117	16.4	1.350	0.291	0.363	1.099

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	b	Sigma	PoreGrad Kg/cm ² /10m
1000.0	999.9	6.00	0.9	117	14.1	1.350	0.291	0.359	1.118
1001.0	1000.9	6.00	0.8	117	11.9	1.350	0.291	0.354	1.137
1002.0	1001.9	6.00	0.9	117	12.2	1.350	0.291	0.368	1.078
1003.0	1002.9	6.00	0.9	117	13.9	1.350	0.291	0.360	1.116
1004.0	1003.9	6.00	0.7	117	12.7	1.350	0.291	0.334	1.225
1005.0	1004.9	6.00	0.7	117	15.2	1.350	0.291	0.323	1.268
1006.0	1005.9	6.00	0.8	117	11.5	1.350	0.291	0.356	1.131
1007.0	1006.9	6.00	1.0	117	13.0	1.350	0.291	0.378	1.037
1008.0	1007.9	6.00	0.8	117	12.0	1.350	0.291	0.353	1.146
1009.0	1008.9	6.00	0.8	117	14.7	1.350	0.291	0.340	1.198
1010.0	1009.9	6.00	0.7	117	14.5	1.350	0.291	0.325	1.261
1011.0	1010.9	6.00	1.0	117	12.3	1.350	0.313	0.382	1.118
1012.0	1011.9	6.00	1.0	117	13.5	1.350	0.313	0.375	1.145
1013.0	1012.9	6.00	1.0	117	14.1	1.350	0.313	0.372	1.158
1014.0	1013.9	6.00	1.0	117	11.5	1.350	0.313	0.387	1.098
1015.0	1014.9	6.00	1.0	117	9.6	1.350	0.313	0.400	1.042
1016.0	1015.9	6.00	1.0	117	13.0	1.350	0.313	0.377	1.136
1017.0	1016.9	6.00	1.0	117	12.8	1.350	0.313	0.378	1.133
1018.0	1017.9	6.00	1.0	117	12.8	1.350	0.313	0.378	1.134
1019.0	1018.9	6.00	1.0	117	11.1	1.350	0.313	0.389	1.091
1020.0	1019.9	6.00	1.1	120	23.3	1.350	0.313	0.352	1.241
1021.0	1020.9	6.00	1.0	120	16.1	1.350	0.312	0.364	1.187
1022.0	1021.9	6.00	1.0	119	21.3	1.350	0.312	0.345	1.263
1023.0	1022.9	6.00	1.0	119	20.4	1.350	0.312	0.347	1.253
1024.0	1023.9	6.00	1.0	120	18.5	1.350	0.312	0.354	1.226
1025.0	1024.9	6.00	1.0	120	15.2	1.350	0.312	0.367	1.172
1026.0	1025.9	6.00	1.0	120	17.2	1.350	0.312	0.359	1.209
1027.0	1026.9	6.00	1.0	120	17.9	1.350	0.312	0.356	1.218
1028.0	1027.9	6.00	1.0	120	15.6	1.350	0.312	0.365	1.183
1029.0	1028.9	6.00	1.0	120	14.5	1.350	0.312	0.370	1.162
1030.0	1029.9	6.00	1.0	120	12.0	1.350	0.312	0.383	1.109
1031.0	1030.9	6.00	1.0	120	11.2	1.350	0.312	0.388	1.089
1032.0	1031.9	6.00	0.9	120	11.9	1.350	0.312	0.369	1.168
1033.0	1032.9	6.00	1.0	120	15.9	1.350	0.312	0.363	1.190
1034.0	1033.9	6.00	1.0	120	13.7	1.350	0.312	0.374	1.150
1035.0	1034.9	6.00	1.0	120	12.7	1.350	0.312	0.379	1.127
1036.0	1035.9	6.00	1.0	120	11.1	1.350	0.312	0.389	1.089
1037.0	1036.9	6.00	1.0	120	15.2	1.350	0.312	0.366	1.180
1038.0	1037.9	6.00	0.9	120	12.3	1.350	0.312	0.366	1.182
1039.0	1038.9	6.00	1.0	120	11.6	1.350	0.312	0.385	1.105
1040.0	1039.9	6.00	1.0	120	14.9	1.350	0.312	0.367	1.178
1041.0	1040.9	6.00	0.9	120	11.5	1.350	0.312	0.370	1.164
1042.0	1041.9	6.00	1.0	120	10.3	1.350	0.312	0.394	1.070
1043.0	1042.9	6.00	0.9	120	10.4	1.350	0.312	0.377	1.137
1044.0	1043.9	6.00	1.0	120	11.5	1.350	0.312	0.385	1.105
1045.0	1044.9	6.00	1.0	120	13.0	1.350	0.312	0.376	1.142
1046.0	1045.9	6.00	1.0	120	14.3	1.350	0.312	0.369	1.169
1047.0	1046.9	6.00	1.0	120	13.2	1.350	0.312	0.375	1.147
1048.0	1047.9	6.00	1.0	117	12.5	1.350	0.312	0.377	1.140
1049.0	1048.9	6.00	1.0	117	15.4	1.350	0.312	0.362	1.198
1050.0	1049.9	6.00	1.0	117	21.7	1.350	0.312	0.340	1.287
1051.0	1050.9	6.00	1.0	117	20.0	1.350	0.312	0.345	1.267
1052.0	1051.9	6.00	0.9	117	12.7	1.350	0.312	0.361	1.204
1053.0	1052.9	6.00	2.0	117	14.9	1.350	0.422	0.478	1.171
1054.0	1053.9	6.00	2.0	117	16.7	1.350	0.422	0.468	1.213
1055.0	1054.9	6.00	2.1	117	16.9	1.350	0.422	0.475	1.184
1056.0	1055.9	6.00	1.9	117	17.2	1.350	0.422	0.455	1.264
1057.0	1056.9	6.00	2.1	117	15.9	1.350	0.422	0.482	1.160
1058.0	1057.9	6.00	2.0	117	15.2	1.350	0.422	0.477	1.180
1059.0	1058.9	6.00	2.1	117	14.3	1.350	0.422	0.492	1.120
1060.0	1059.9	6.00	2.2	117	13.5	1.350	0.422	0.507	1.060
1061.0	1060.9	6.00	1.9	117	14.9	1.350	0.422	0.468	1.215
1062.0	1061.9	6.00	2.0	117	12.3	1.350	0.422	0.497	1.103
1063.0	1062.9	6.00	2.0	117	12.2	1.350	0.422	0.498	1.099
1064.0	1063.9	6.00	2.0	117	11.6	1.350	0.422	0.503	1.080
1065.0	1064.9	6.00	2.1	118	16.4	1.350	0.422	0.478	1.174
1066.0	1065.9	6.00	2.0	119	15.6	1.350	0.422	0.474	1.190
1067.0	1066.9	6.00	2.0	119	13.9	1.350	0.422	0.486	1.146

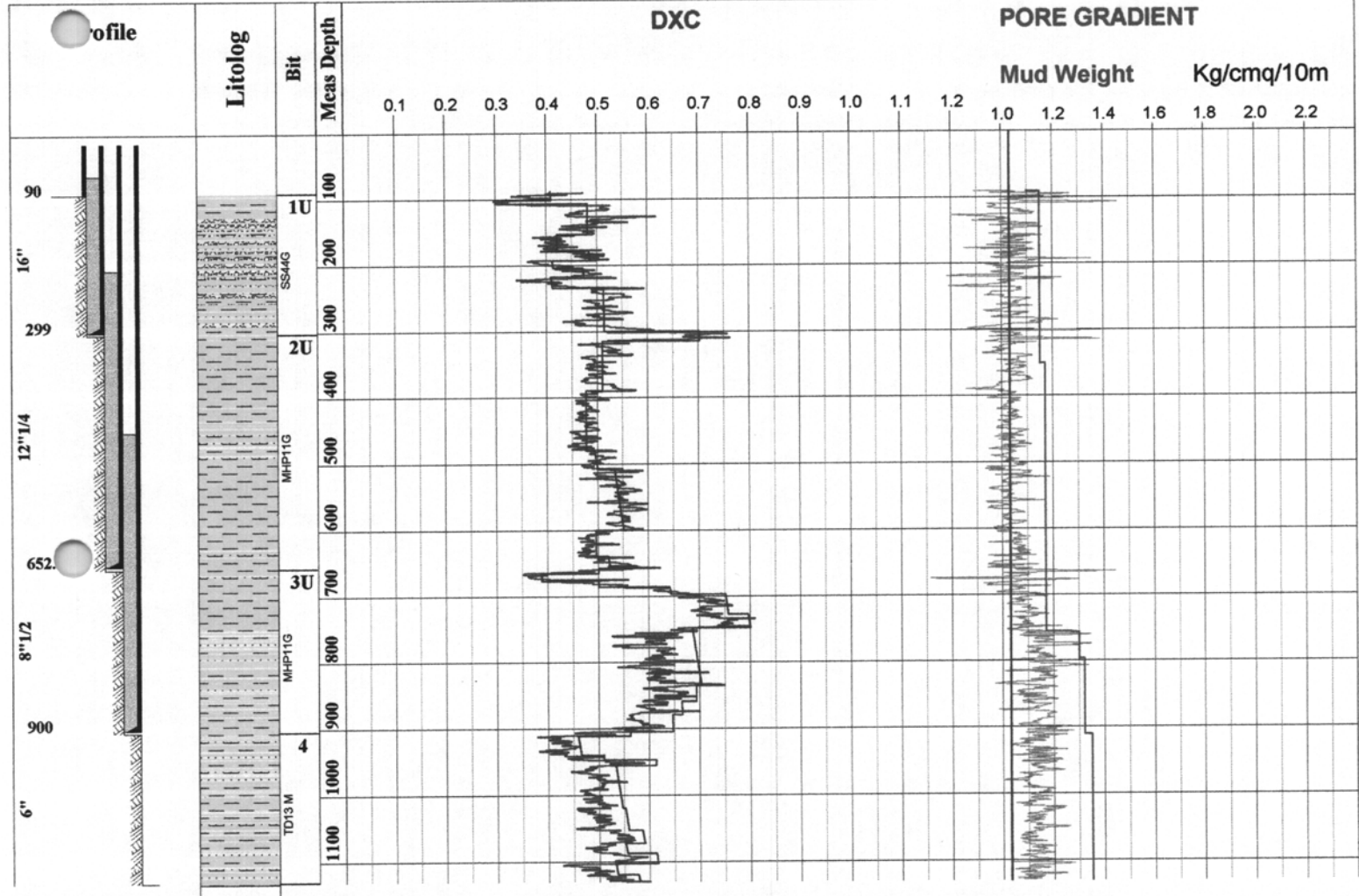
M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	b	Sigma	PoreGrad Kg/cm ² /10m
1070.0	1069.9	6.00	1.9	119	11.8	1.350	0.422	0.492	1.123
1071.0	1070.9	6.00	2.0	119	16.7	1.350	0.422	0.468	1.217
1072.0	1071.9	6.00	2.0	119	18.5	1.350	0.422	0.458	1.255
1073.0	1072.9	6.00	1.9	119	20.8	1.350	0.373	0.437	1.149
1074.0	1073.9	6.00	2.0	119	16.7	1.350	0.373	0.467	1.032
1075.0	1074.9	6.00	2.0	118	17.5	1.350	0.373	0.462	1.055
1076.0	1075.9	6.00	2.0	118	18.9	1.350	0.373	0.455	1.083
1077.0	1076.9	6.00	1.9	118	18.5	1.350	0.373	0.447	1.113
1078.0	1077.9	6.00	2.1	117	25.0	1.350	0.373	0.437	1.151
1079.0	1078.9	6.00	2.1	117	28.6	1.350	0.373	0.425	1.196
1080.0	1079.9	6.00	2.1	117	25.6	1.350	0.373	0.435	1.161
1081.0	1080.9	6.00	2.0	118	19.2	1.350	0.373	0.452	1.093
1082.0	1081.9	6.00	2.1	118	23.8	1.350	0.373	0.442	1.134
1083.0	1082.9	6.00	2.0	118	24.4	1.350	0.373	0.431	1.176
1084.0	1083.9	6.00	1.9	117	22.7	1.350	0.373	0.427	1.190
1085.0	1084.9	6.00	2.0	118	22.7	1.350	0.373	0.437	1.154
1086.0	1085.9	6.00	2.1	118	21.7	1.350	0.373	0.450	1.105
1087.0	1086.9	6.00	1.9	118	16.7	1.350	0.373	0.455	1.083
1088.0	1087.9	6.00	2.0	118	15.2	1.350	0.373	0.474	1.009
1089.0	1088.9	6.00	2.0	118	16.9	1.350	0.373	0.463	1.053
1090.0	1089.9	6.00	1.9	118	13.3	1.350	0.373	0.477	1.001
1091.0	1090.9	6.00	2.1	118	13.2	1.350	0.442	0.498	1.183
1092.0	1091.9	6.00	2.0	118	12.5	1.350	0.442	0.493	1.201
1093.0	1092.9	6.00	2.2	118	9.8	1.350	0.442	0.540	1.023
1094.0	1093.9	6.00	2.0	118	10.5	1.350	0.442	0.511	1.135
1095.0	1094.9	6.00	1.9	118	11.0	1.350	0.442	0.496	1.193
1096.0	1095.9	6.00	1.8	118	11.5	1.350	0.442	0.480	1.251
1097.0	1096.9	6.00	1.8	118	10.9	1.350	0.442	0.485	1.231
1098.0	1097.9	6.00	2.1	118	14.5	1.350	0.395	0.487	1.046
1099.0	1098.9	6.00	1.5	118	13.3	1.350	0.395	0.432	1.256
1100.0	1099.9	6.00	1.5	118	13.2	1.350	0.366	0.433	1.147
1101.0	1100.9	6.00	1.5	118	12.7	1.350	0.366	0.436	1.134
1102.0	1101.9	6.00	1.5	118	11.2	1.350	0.366	0.447	1.094
1103.0	1102.9	6.00	1.7	118	14.7	1.350	0.366	0.445	1.101
1104.0	1103.9	6.00	1.5	118	29.4	1.350	0.277	0.369	1.052
1105.0	1104.9	6.00	1.4	118	34.5	1.350	0.277	0.348	1.132
1106.0	1105.9	6.00	1.5	118	31.3	1.350	0.277	0.364	1.070
1107.0	1106.9	6.00	1.4	118	24.4	1.350	0.277	0.372	1.040
1108.0	1107.9	6.00	1.6	118	20.0	1.350	0.342	0.408	1.153
1109.0	1108.9	6.00	1.6	118	19.6	1.350	0.342	0.409	1.147
1110.0	1109.9	6.00	1.6	118	18.9	1.350	0.342	0.412	1.136
1111.0	1110.9	6.00	1.5	118	22.2	1.350	0.342	0.389	1.223
1112.0	1111.9	6.00	1.6	118	26.3	1.350	0.342	0.386	1.235
1113.0	1112.9	6.00	1.5	118	17.9	1.350	0.342	0.406	1.160
1114.0	1113.9	6.00	1.5	118	13.9	1.350	0.342	0.427	1.081
1115.0	1114.9	6.00	1.5	118	18.2	1.350	0.342	0.404	1.167
1116.0	1115.9	6.00	1.5	118	18.5	1.350	0.342	0.403	1.173
1117.0	1116.9	6.00	1.6	118	20.8	1.350	0.342	0.403	1.170
1118.0	1117.9	6.00	1.5	118	17.2	1.350	0.342	0.408	1.153
1119.0	1118.9	6.00	1.4	118	14.5	1.350	0.342	0.411	1.142
1120.0	1119.9	6.00	1.5	118	21.7	1.350	0.342	0.390	1.222
1121.0	1120.9	6.00	1.5	118	22.7	1.350	0.342	0.386	1.235
1122.0	1121.9	6.00	1.5	119	14.9	1.350	0.351	0.420	1.140
1123.0	1122.9	6.00	1.4	119	10.6	1.350	0.351	0.438	1.075
1124.0	1123.9	6.00	1.5	119	12.7	1.350	0.351	0.435	1.088
1125.0	1124.9	6.00	1.5	118	15.9	1.350	0.351	0.414	1.164
1126.0	1125.9	6.00	1.5	119	14.3	1.350	0.351	0.424	1.129
1127.0	1126.9	6.00	1.5	119	9.7	1.350	0.351	0.459	0.997
1128.0	1127.9	6.00	1.4	118	14.3	1.350	0.351	0.411	1.176
1129.0	1128.9	6.00	1.5	119	11.0	1.350	0.351	0.447	1.043



Well: JOLE 1



D EXPONENT (SCALA 1:10.000)

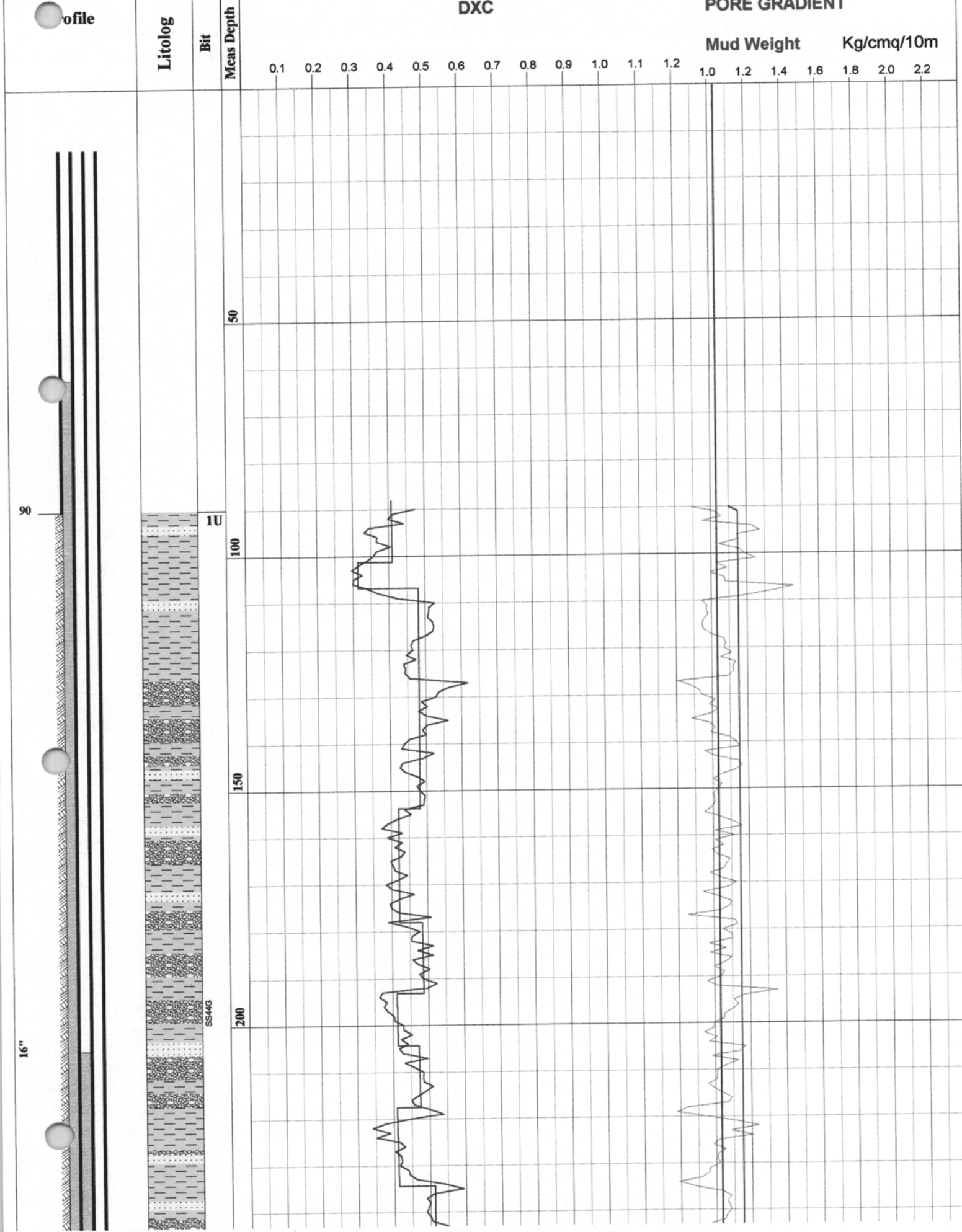


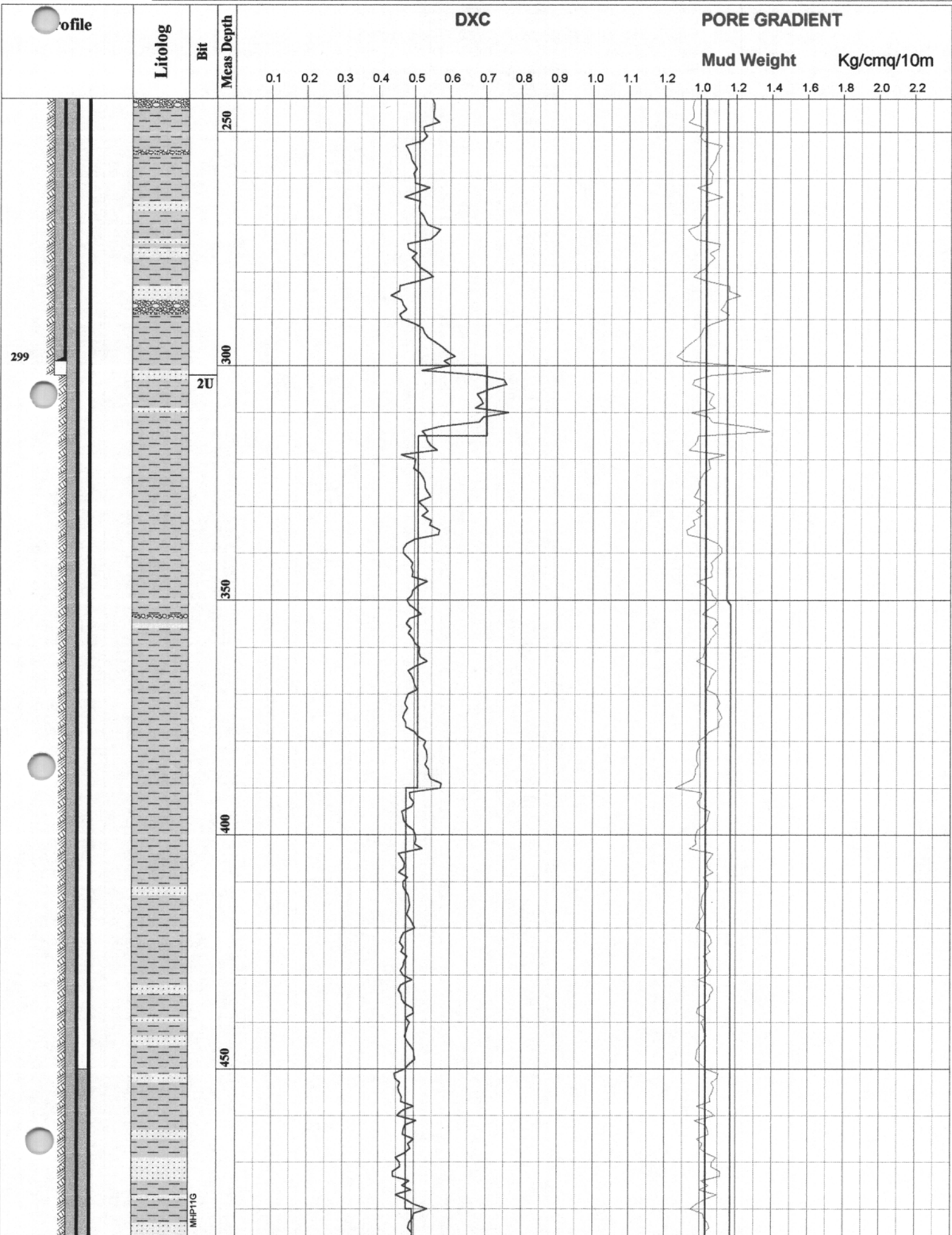


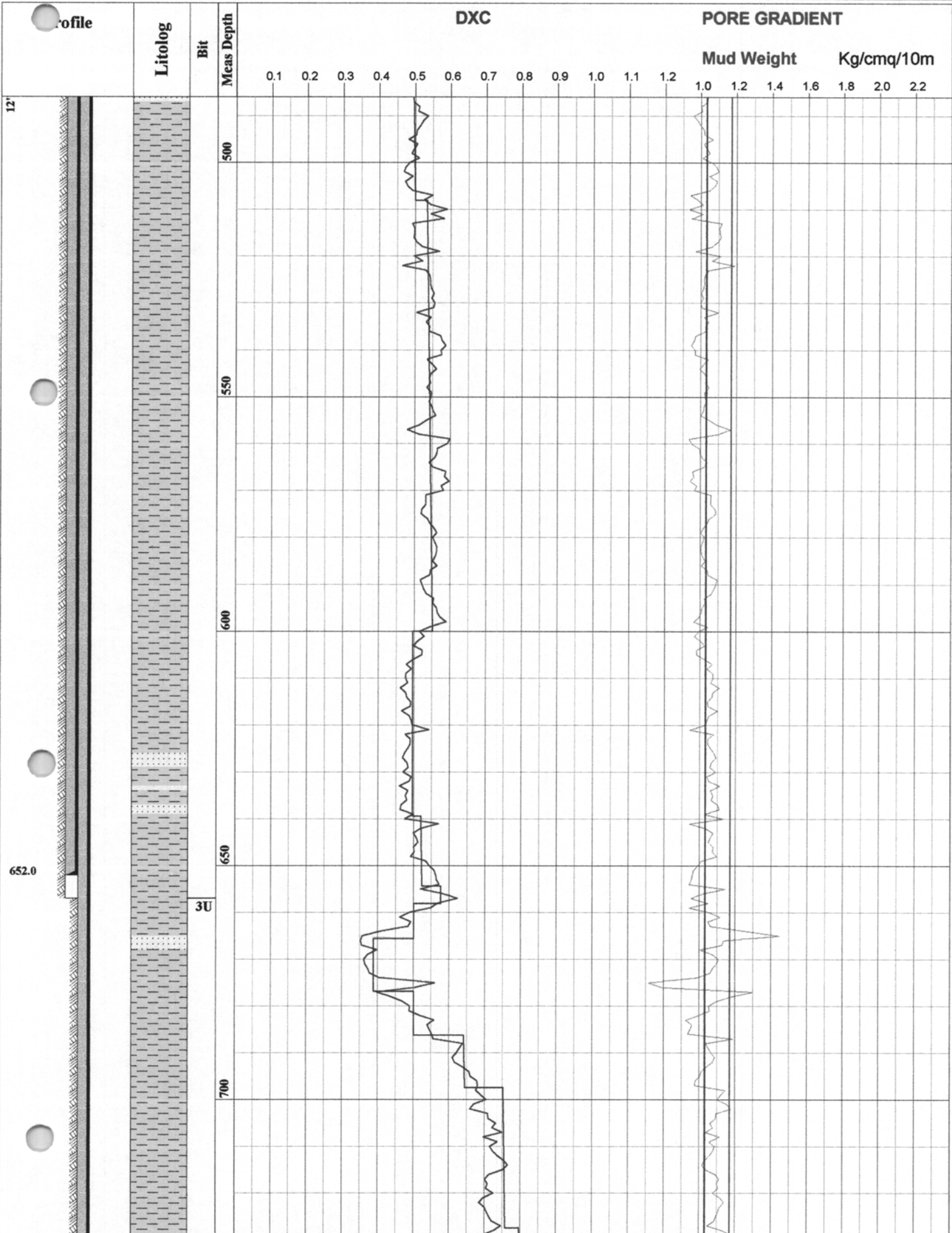
Well: JOLE 1

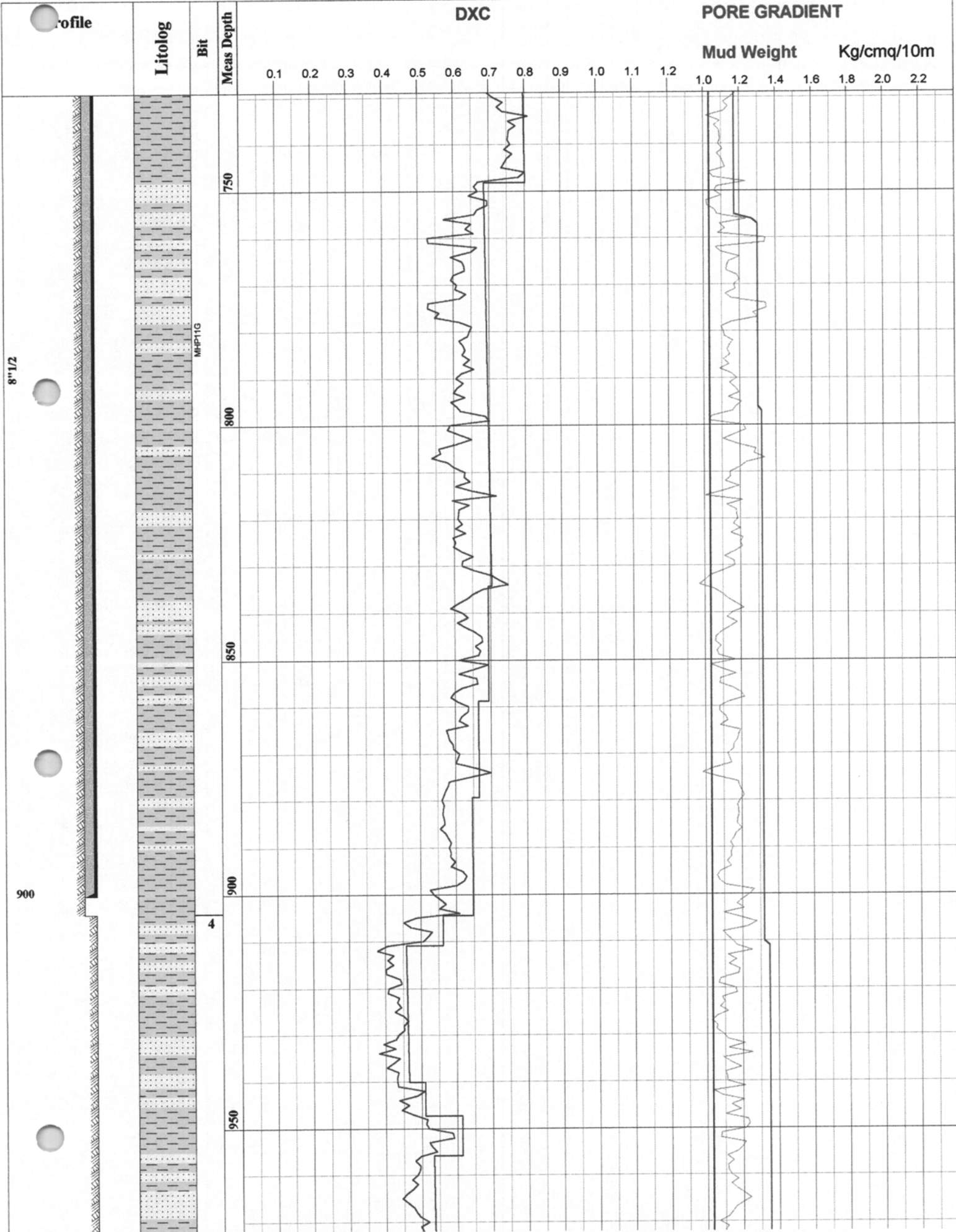


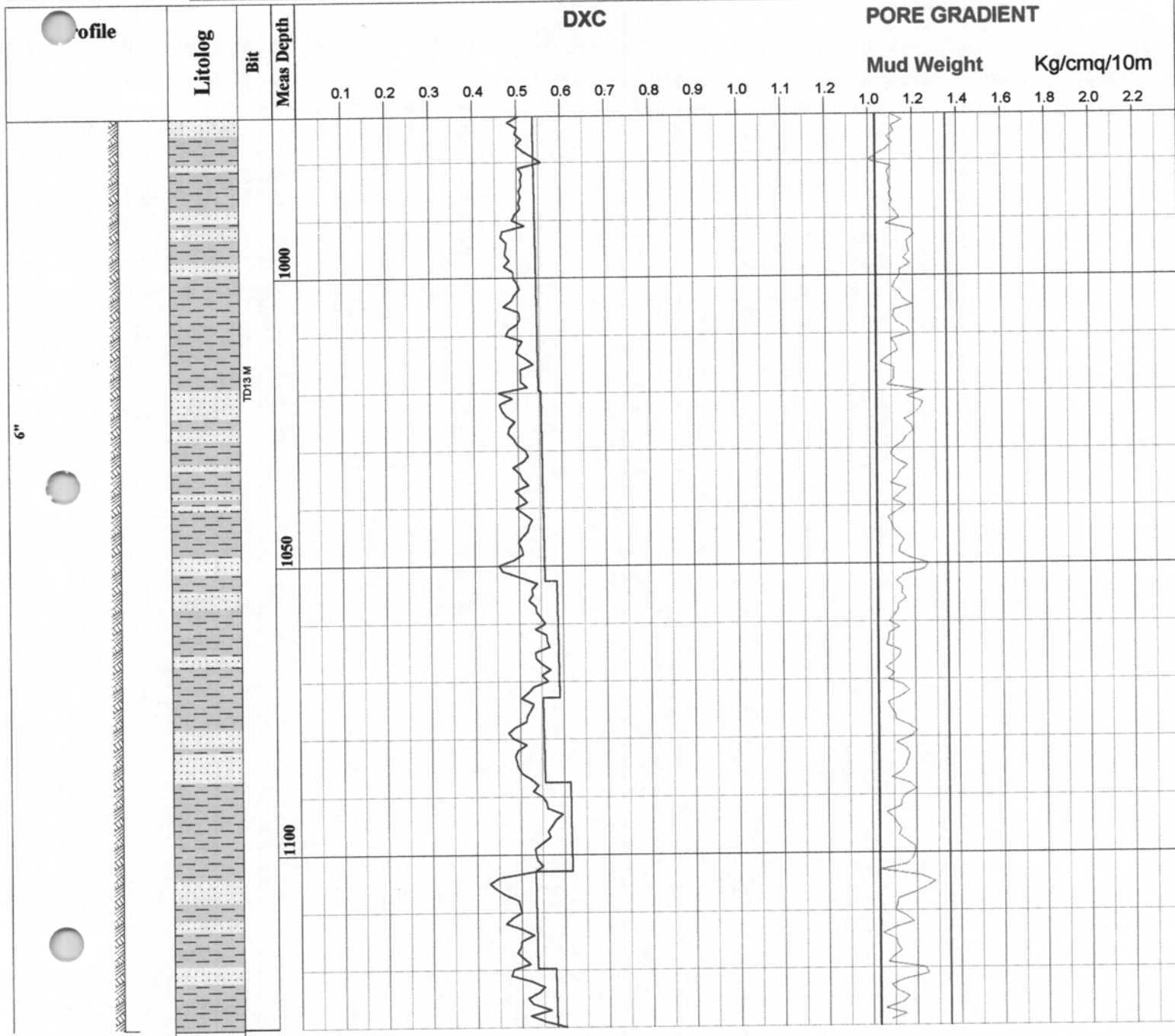
D EXPONENT (SCALA 1:1.000)











M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	DXC	PoreGrad Kg/cm ² /10m
90.0	90.0	16.00	1.0	35	8.0	1.100	0.473	0.889
91.0	91.0	16.00	1.3	35	13.3	1.150	0.413	1.020
92.0	92.0	16.00	1.4	35	15.6	1.150	0.399	1.054
93.0	93.0	16.00	1.2	35	9.7	1.150	0.442	0.953
94.0	94.0	16.00	1.1	35	23.8	1.150	0.344	1.224
95.0	95.0	16.00	1.3	35	28.6	1.150	0.332	1.271
96.0	96.0	16.00	1.4	35	20.8	1.150	0.369	1.145
97.0	97.0	16.00	1.2	35	20.0	1.150	0.366	1.153
98.0	98.0	16.00	1.3	35	14.3	1.150	0.405	1.042
99.0	99.0	16.00	1.4	35	21.3	1.150	0.366	1.153
100.0	100.0	16.00	1.3	35	22.7	1.150	0.356	1.187
101.0	101.0	16.00	1.1	35	25.0	1.150	0.339	1.246
102.0	102.0	16.00	1.4	34	33.3	1.150	0.315	1.025
103.0	103.0	16.00	1.3	34	38.5	1.150	0.297	1.087
104.0	104.0	16.00	1.3	35	30.3	1.150	0.326	0.992
105.0	105.0	16.00	1.2	35	37.0	1.150	0.302	1.072
106.0	106.0	16.00	1.1	33	34.5	1.150	0.300	1.078
107.0	107.0	16.00	1.3	34	25.6	1.150	0.340	1.458
108.0	108.0	16.00	3.3	33	27.0	1.150	0.373	1.331
109.0	109.0	16.00	3.2	73	38.5	1.150	0.424	1.172
110.0	110.0	16.00	2.2	106	18.9	1.150	0.526	0.943
111.0	111.0	16.00	2.2	106	21.7	1.150	0.510	0.973
112.0	112.0	16.00	2.1	105	20.8	1.150	0.511	0.971
113.0	113.0	16.00	2.1	106	21.7	1.150	0.507	0.978
114.0	114.0	16.00	2.2	105	19.6	1.150	0.521	0.953
115.0	115.0	16.00	2.3	106	19.6	1.150	0.525	0.946
116.0	116.0	16.00	2.1	106	19.2	1.150	0.521	0.953
117.0	117.0	16.00	2.2	106	23.8	1.150	0.500	0.993
118.0	118.0	16.00	2.1	106	31.3	1.150	0.466	1.084
119.0	119.0	16.00	2.3	106	34.5	1.150	0.461	1.077
120.0	120.0	16.00	2.2	106	32.3	1.150	0.466	1.066
121.0	121.0	16.00	2.1	106	37.0	1.150	0.447	1.109
122.0	122.0	16.00	2.1	106	29.4	1.150	0.473	1.049
123.0	123.0	16.00	1.8	106	37.0	1.150	0.439	1.131
124.0	124.0	16.00	2.0	106	37.0	1.150	0.445	1.116
125.0	125.0	16.00	2.1	106	38.5	1.150	0.443	1.120
126.0	126.0	16.00	2.0	106	33.3	1.150	0.456	1.087
127.0	127.0	16.00	2.1	106	8.1	1.150	0.618	0.803
128.0	128.0	16.00	2.0	106	12.8	1.150	0.563	0.881
129.0	129.0	16.00	2.1	106	16.9	1.150	0.535	0.927
130.0	130.0	16.00	2.2	106	18.5	1.150	0.528	0.939
131.0	131.0	16.00	2.2	106	26.3	1.150	0.489	1.016
132.0	132.0	16.00	2.0	106	21.7	1.150	0.504	0.984
133.0	133.0	16.00	2.1	106	27.8	1.150	0.480	1.035
134.0	134.0	16.00	2.6	106	25.6	1.150	0.502	0.988
135.0	135.0	16.00	2.5	106	14.9	1.150	0.562	0.883
136.0	136.0	16.00	2.3	112	25.0	1.150	0.503	0.986
137.0	137.0	16.00	1.2	105	18.5	1.150	0.490	1.013
138.0	138.0	16.00	1.2	105	16.7	1.150	0.501	0.991
139.0	139.0	16.00	1.2	105	26.3	1.150	0.453	1.096
140.0	140.0	16.00	1.3	105	31.3	1.150	0.439	1.131
141.0	141.0	16.00	1.2	105	32.3	1.150	0.432	1.150
142.0	142.0	16.00	1.3	104	14.3	1.150	0.521	0.953
143.0	143.0	16.00	1.5	104	20.4	1.150	0.491	1.010
144.0	144.0	16.00	1.2	104	31.3	1.150	0.434	1.144
145.0	145.0	16.00	1.3	104	34.5	1.150	0.428	1.161
146.0	146.0	16.00	1.3	105	30.3	1.150	0.442	1.122
147.0	147.0	16.00	1.3	104	21.7	1.150	0.476	1.042
148.0	148.0	16.00	1.5	104	19.6	1.150	0.496	1.001
149.0	149.0	16.00	1.1	104	20.4	1.150	0.474	1.048
150.0	150.0	16.00	1.2	105	20.0	1.150	0.482	1.030
151.0	151.0	16.00	1.2	115	19.2	1.150	0.495	1.002
152.0	152.0	16.00	1.2	115	19.6	1.150	0.493	1.006
153.0	153.0	16.00	1.3	111	20.0	1.150	0.492	1.008
154.0	154.0	16.00	1.4	111	34.5	1.150	0.438	0.990
155.0	155.0	16.00	1.2	111	27.0	1.150	0.456	0.952
156.0	156.0	16.00	1.4	111	41.7	1.150	0.418	1.038
157.0	157.0	16.00	1.5	111	55.6	1.150	0.390	1.111
158.0	158.0	16.00	1.2	111	58.8	1.150	0.374	1.160
159.0	159.0	16.00	1.3	111	35.7	1.150	0.431	1.008

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	DXC	PoreGrad Kg/cm ² /10m
160.0	160.0	16.00	1.3	111	52.6	1.150	0.390	1.114
161.0	161.0	16.00	1.3	111	35.7	1.150	0.431	1.008
162.0	162.0	16.00	1.1	111	40.0	1.150	0.411	1.057
163.0	163.0	16.00	1.3	111	33.3	1.150	0.438	0.991
164.0	164.0	16.00	1.2	111	35.7	1.150	0.427	1.017
165.0	165.0	16.00	1.2	113	47.6	1.150	0.398	1.090
166.0	166.0	16.00	1.3	112	45.5	1.150	0.406	1.069
167.0	167.0	16.00	1.3	112	43.5	1.150	0.411	1.057
168.0	168.0	16.00	1.3	113	32.3	1.150	0.443	0.979
169.0	169.0	16.00	1.4	113	41.7	1.150	0.420	1.034
170.0	170.0	16.00	1.3	113	55.6	1.150	0.386	1.125
171.0	171.0	16.00	1.2	112	45.5	1.150	0.402	1.079
172.0	172.0	16.00	1.2	112	25.6	1.150	0.462	0.939
173.0	173.0	16.00	1.3	112	38.5	1.150	0.424	1.025
174.0	174.0	16.00	1.3	112	50.0	1.150	0.396	1.097
175.0	175.0	16.00	1.4	112	50.0	1.150	0.399	1.087
176.0	176.0	16.00	1.2	112	38.5	1.150	0.420	1.034
177.0	177.0	16.00	1.5	112	18.5	1.150	0.510	0.852
178.0	178.0	16.00	1.3	111	52.6	1.150	0.390	1.115
179.0	179.0	16.00	1.3	112	32.3	1.150	0.442	1.129
180.0	180.0	16.00	1.2	112	22.2	1.150	0.477	1.047
181.0	181.0	16.00	1.4	112	29.4	1.150	0.456	1.096
182.0	182.0	16.00	1.2	112	27.8	1.150	0.454	1.102
183.0	183.0	16.00	1.3	113	16.4	1.150	0.515	0.971
184.0	184.0	16.00	1.3	113	25.0	1.150	0.470	1.064
185.0	185.0	16.00	1.5	113	17.9	1.150	0.515	0.973
186.0	186.0	16.00	1.2	113	27.0	1.150	0.458	1.094
187.0	187.0	16.00	1.3	113	24.4	1.150	0.473	1.060
188.0	188.0	16.00	1.3	113	18.2	1.150	0.504	0.995
189.0	189.0	16.00	1.2	113	22.7	1.150	0.476	1.054
190.0	190.0	16.00	1.0	112	18.5	1.150	0.486	1.032
191.0	191.0	16.00	1.0	112	12.8	1.150	0.524	0.958
192.0	192.0	16.00	0.8	112	14.5	1.150	0.499	1.007
193.0	193.0	16.00	0.7	115	50.0	1.150	0.372	1.352
194.0	194.0	16.00	1.0	115	62.5	1.150	0.364	1.167
195.0	195.0	16.00	1.6	115	62.5	1.150	0.385	1.104
196.0	196.0	16.00	1.0	115	55.6	1.150	0.376	1.130
197.0	197.0	16.00	1.3	115	55.6	1.150	0.388	1.097
198.0	198.0	16.00	1.3	115	47.6	1.150	0.404	1.053
199.0	199.0	16.00	1.2	115	45.5	1.150	0.405	1.051
200.0	200.0	16.00	1.6	115	41.7	1.150	0.429	0.993
201.0	201.0	16.00	1.2	115	35.7	1.150	0.430	0.990
202.0	202.0	16.00	2.2	114	38.5	1.150	0.454	0.939
203.0	203.0	16.00	1.2	115	38.5	1.150	0.423	1.009
204.0	204.0	16.00	1.5	115	35.7	1.150	0.442	0.965
205.0	205.0	16.00	1.0	115	37.0	1.150	0.418	1.166
206.0	206.0	16.00	1.0	115	33.3	1.150	0.428	1.137
207.0	207.0	16.00	1.6	115	22.2	1.150	0.497	0.981
208.0	208.0	16.00	0.9	115	30.3	1.150	0.433	1.126
209.0	209.0	16.00	1.0	115	24.4	1.150	0.461	1.059
210.0	210.0	16.00	1.1	115	20.4	1.150	0.484	1.008
211.0	211.0	16.00	0.8	115	17.2	1.150	0.484	1.009
212.0	212.0	16.00	0.9	115	18.2	1.150	0.485	1.007
213.0	213.0	16.00	1.0	115	15.2	1.150	0.510	0.959
214.0	214.0	16.00	0.8	115	15.9	1.150	0.492	0.993
215.0	215.0	16.00	0.9	115	20.8	1.150	0.471	1.038
216.0	216.0	16.00	0.9	115	25.6	1.150	0.450	1.087
217.0	217.0	16.00	0.9	115	23.8	1.150	0.458	1.070
218.0	218.0	16.00	1.5	115	20.4	1.150	0.502	0.840
219.0	219.0	16.00	0.9	115	10.8	1.150	0.538	0.784
220.0	220.0	16.00	0.9	109	25.0	1.150	0.447	0.945
221.0	221.0	16.00	0.6	106	40.0	1.150	0.379	1.115
222.0	222.0	16.00	0.2	106	38.5	1.150	0.342	1.236
223.0	223.0	16.00	0.6	106	35.7	1.150	0.390	1.085
224.0	224.0	16.00	0.3	109	41.7	1.150	0.351	1.205
225.0	225.0	16.00	0.7	118	32.3	1.150	0.417	1.015
226.0	226.0	16.00	0.5	117	23.8	1.150	0.431	0.984
227.0	227.0	16.00	0.4	117	28.6	1.150	0.404	1.050
228.0	228.0	16.00	0.8	117	33.3	1.150	0.419	1.011
229.0	229.0	16.00	0.7	117	30.3	1.150	0.423	1.004

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	DXC	PoreGrad Kg/cm ² /10m
230.0	230.0	16.00	0.6	117	30.3	1.150	0.416	1.021
231.0	231.0	16.00	0.8	117	27.0	1.150	0.441	0.964
232.0	232.0	16.00	0.9	117	27.8	1.150	0.444	0.958
233.0	233.0	16.00	1.3	117	27.8	1.150	0.463	0.918
234.0	234.0	16.00	3.2	117	23.3	1.150	0.539	0.789
235.0	235.0	16.00	3.4	117	15.4	1.150	0.593	0.892
236.0	236.0	16.00	3.2	117	29.4	1.150	0.511	1.035
237.0	237.0	16.00	3.3	117	35.7	1.150	0.490	1.079
238.0	238.0	16.00	3.6	117	34.5	1.150	0.500	1.058
239.0	239.0	16.00	3.3	117	34.5	1.150	0.495	1.070
240.0	240.0	16.00	3.1	117	34.5	1.150	0.490	1.079
241.0	241.0	16.00	3.4	117	33.3	1.150	0.501	1.057
242.0	242.0	16.00	3.3	117	31.3	1.150	0.506	1.045
243.0	243.0	16.00	3.5	117	22.7	1.150	0.549	0.965
244.0	244.0	16.00	3.5	117	21.7	1.150	0.554	0.956
245.0	245.0	16.00	3.4	117	21.3	1.150	0.554	0.955
246.0	246.0	16.00	3.1	117	20.4	1.150	0.552	0.958
247.0	247.0	16.00	3.2	117	20.8	1.150	0.552	0.958
248.0	248.0	16.00	3.3	119	18.9	1.150	0.568	0.931
249.0	249.0	16.00	3.4	119	27.8	1.150	0.524	1.010
250.0	250.0	16.00	3.3	119	27.0	1.150	0.526	1.007
251.0	251.0	16.00	3.1	119	24.4	1.150	0.533	0.993
252.0	252.0	16.00	3.1	119	27.0	1.150	0.521	1.016
253.0	253.0	16.00	3.3	119	41.7	1.150	0.474	1.117
254.0	254.0	16.00	3.2	119	38.5	1.150	0.482	1.100
255.0	255.0	16.00	3.3	119	37.0	1.150	0.488	1.085
256.0	256.0	16.00	3.4	119	37.0	1.150	0.490	1.081
257.0	257.0	16.00	3.4	119	34.5	1.150	0.499	1.062
258.0	258.0	16.00	3.2	119	31.3	1.150	0.506	1.046
259.0	259.0	16.00	3.1	119	33.3	1.150	0.496	1.067
260.0	260.0	16.00	3.3	119	33.3	1.150	0.501	1.058
261.0	261.0	16.00	3.3	119	33.3	1.150	0.501	1.058
262.0	262.0	16.00	3.2	119	23.3	1.150	0.541	0.978
263.0	263.0	16.00	3.4	119	32.3	1.150	0.507	1.046
264.0	264.0	16.00	3.2	119	41.7	1.150	0.472	1.122
265.0	265.0	16.00	3.3	119	29.4	1.150	0.516	1.027
266.0	266.0	16.00	3.3	119	30.3	1.150	0.512	1.035
267.0	267.0	16.00	3.0	119	28.6	1.150	0.512	1.034
268.0	268.0	16.00	3.2	119	27.0	1.150	0.523	1.012
269.0	269.0	16.00	3.3	119	26.3	1.150	0.529	1.002
270.0	270.0	16.00	3.2	119	24.4	1.150	0.536	0.989
271.0	271.0	16.00	3.3	119	18.5	1.150	0.571	0.928
272.0	272.0	16.00	3.3	119	20.4	1.150	0.559	0.948
273.0	273.0	16.00	3.2	119	22.7	1.150	0.544	0.974
274.0	274.0	16.00	3.1	119	38.5	1.150	0.480	1.105
275.0	275.0	16.00	3.2	119	38.5	1.150	0.482	1.100
276.0	276.0	16.00	3.1	104	27.0	1.150	0.505	1.048
277.0	277.0	16.00	3.4	102	31.3	1.150	0.492	1.077
278.0	278.0	16.00	3.1	102	26.3	1.150	0.506	1.047
279.0	279.0	16.00	3.2	102	25.0	1.150	0.514	1.030
280.0	280.0	16.00	3.1	116	23.3	1.150	0.536	0.989
281.0	281.0	16.00	3.1	116	20.4	1.150	0.551	0.961
282.0	282.0	16.00	3.2	116	30.3	1.150	0.507	1.046
283.0	283.0	16.00	3.2	115	45.5	1.150	0.458	1.158
284.0	284.0	16.00	3.2	115	45.5	1.150	0.458	1.158
285.0	285.0	16.00	3.2	115	55.6	1.150	0.434	1.222
286.0	286.0	16.00	3.2	115	43.5	1.150	0.463	1.145
287.0	287.0	16.00	3.2	115	41.7	1.150	0.468	1.132
288.0	288.0	16.00	3.2	115	38.5	1.150	0.478	1.110
289.0	289.0	16.00	3.2	115	45.5	1.150	0.458	1.158
290.0	290.0	16.00	3.3	115	43.5	1.150	0.465	1.140
291.0	291.0	16.00	3.2	116	32.3	1.150	0.499	1.061
292.0	292.0	16.00	3.3	116	27.0	1.150	0.523	1.014
293.0	293.0	16.00	3.1	116	25.0	1.150	0.527	1.005
294.0	294.0	16.00	3.2	115	23.3	1.150	0.537	0.987
295.0	295.0	16.00	3.2	116	19.6	1.150	0.559	0.949
296.0	296.0	16.00	3.2	116	16.7	1.150	0.578	0.918
297.0	297.0	16.00	3.2	116	14.7	1.150	0.593	0.895
298.0	298.0	16.00	3.3	116	12.7	1.150	0.613	0.865
299.0	299.0	16.00	3.2	116	16.1	1.150	0.582	0.911

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	DXC	PoreGrad Kg/cm ² /10m
300.0	300.0	16.00	3.3	116	13.9	1.150	0.602	1.203
301.0	301.0	16.00	3.2	116	27.0	1.150	0.520	1.391
302.0	302.0	16.00	4.4	88	6.6	1.150	0.683	1.059
303.0	303.0	12.25	4.7	78	4.5	1.150	0.750	0.965
304.0	304.0	12.25	4.5	78	4.1	1.150	0.758	0.955
305.0	305.0	12.25	4.5	78	6.0	1.150	0.710	1.020
306.0	306.0	12.25	4.3	78	7.6	1.150	0.675	1.073
307.0	307.0	12.25	4.5	78	7.2	1.150	0.685	1.057
308.0	308.0	12.25	4.3	78	6.6	1.150	0.692	1.047
309.0	309.0	12.25	4.5	78	8.1	1.150	0.670	1.081
310.0	310.0	12.25	4.5	78	4.0	1.150	0.763	0.949
311.0	311.0	12.25	4.3	78	6.6	1.150	0.693	1.045
312.0	312.0	12.25	4.4	80	7.6	1.150	0.680	1.065
313.0	313.0	12.25	4.4	82	18.2	1.150	0.571	1.269
314.0	314.0	12.25	2.9	82	20.8	1.150	0.522	1.388
315.0	315.0	12.25	2.9	82	18.9	1.150	0.534	0.986
316.0	316.0	12.25	2.8	82	18.2	1.150	0.536	0.982
317.0	317.0	12.25	2.9	82	17.2	1.150	0.545	0.966
318.0	318.0	12.25	2.8	82	14.5	1.150	0.563	0.934
319.0	319.0	12.25	2.5	77	29.4	1.150	0.463	1.137
320.0	320.0	12.25	2.9	77	22.7	1.150	0.504	1.045
321.0	321.0	12.25	2.7	77	22.2	1.150	0.501	1.049
322.0	322.0	12.25	2.6	77	22.2	1.150	0.499	1.055
323.0	323.0	12.25	3.0	77	20.8	1.150	0.517	1.019
324.0	324.0	12.25	2.8	77	18.5	1.150	0.526	1.001
325.0	325.0	12.25	2.8	77	17.9	1.150	0.530	0.992
326.0	326.0	12.25	2.7	77	17.5	1.150	0.530	0.993
327.0	327.0	12.25	2.9	77	17.2	1.150	0.537	0.980
328.0	328.0	12.25	3.0	77	16.4	1.150	0.546	0.964
329.0	329.0	12.25	2.9	77	21.3	1.150	0.512	1.029
330.0	330.0	12.25	2.9	77	18.9	1.150	0.526	1.000
331.0	331.0	12.25	2.9	78	17.2	1.150	0.539	0.977
332.0	332.0	12.25	2.9	79	20.0	1.150	0.522	1.008
333.0	333.0	12.25	2.8	79	15.9	1.150	0.548	0.961
334.0	334.0	12.25	2.7	79	16.1	1.150	0.543	0.969
335.0	335.0	12.25	2.7	79	12.8	1.150	0.571	0.922
336.0	336.0	12.25	2.8	79	13.5	1.150	0.567	0.928
337.0	337.0	12.25	2.8	95	27.8	1.150	0.502	1.048
338.0	338.0	12.25	3.0	124	45.5	1.150	0.479	1.098
339.0	339.0	12.25	2.9	128	50.0	1.150	0.470	1.121
340.0	340.0	12.25	2.9	128	50.0	1.150	0.470	1.121
341.0	341.0	12.25	3.0	128	45.5	1.150	0.483	1.089
342.0	342.0	12.25	3.1	128	41.7	1.150	0.496	1.061
343.0	343.0	12.25	2.9	128	41.7	1.150	0.492	1.070
344.0	344.0	12.25	2.9	128	40.0	1.150	0.497	1.060
345.0	345.0	12.25	3.0	128	41.7	1.150	0.494	1.065
346.0	346.0	12.25	3.0	128	29.4	1.150	0.536	0.981
347.0	347.0	12.25	3.1	127	37.0	1.150	0.510	1.033
348.0	348.0	12.25	2.9	127	40.0	1.150	0.496	1.062
349.0	349.0	12.25	3.0	127	41.7	1.150	0.493	1.067
350.0	350.0	12.25	2.9	127	45.5	1.150	0.480	1.096
351.0	351.0	12.25	3.1	127	41.7	1.170	0.487	1.081
352.0	352.0	12.25	3.1	127	35.7	1.170	0.505	1.041
353.0	353.0	12.25	2.9	127	30.3	1.170	0.520	1.011
354.0	354.0	12.25	2.9	126	40.0	1.170	0.486	1.082
355.0	355.0	12.25	3.0	126	43.5	1.170	0.479	1.100
356.0	356.0	12.25	3.1	127	40.0	1.170	0.492	1.070
357.0	357.0	12.25	2.8	126	40.0	1.170	0.484	1.087
358.0	358.0	12.25	3.1	127	38.5	1.170	0.496	1.060
359.0	359.0	12.25	3.1	127	37.0	1.170	0.501	1.051
360.0	360.0	12.25	3.0	127	32.3	1.170	0.515	1.021
361.0	361.0	12.25	3.1	127	33.3	1.170	0.514	1.025
362.0	362.0	12.25	3.1	127	32.3	1.170	0.518	1.017
363.0	363.0	12.25	3.0	127	27.0	1.170	0.536	0.981
364.0	364.0	12.25	3.1	127	35.7	1.170	0.505	1.041
365.0	365.0	12.25	3.0	126	41.7	1.170	0.484	1.088
366.0	366.0	12.25	3.2	126	40.0	1.170	0.493	1.068
367.0	367.0	12.25	3.0	127	37.0	1.170	0.499	1.055
368.0	368.0	12.25	3.1	127	37.0	1.170	0.501	1.051
369.0	369.0	12.25	2.9	127	33.3	1.170	0.509	1.034

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	DXC	PoreGrad Kg/cm ² /10m
370.0	370.0	12.25	3.0	126	41.7	1.170	0.484	1.088
371.0	371.0	12.25	3.0	126	43.5	1.170	0.479	1.100
372.0	372.0	12.25	2.8	126	43.5	1.170	0.474	1.110
373.0	373.0	12.25	2.9	126	41.7	1.170	0.481	1.093
374.0	374.0	12.25	2.9	129	45.5	1.170	0.474	1.111
375.0	375.0	12.25	2.9	130	47.6	1.170	0.469	1.122
376.0	376.0	12.25	3.0	130	45.5	1.170	0.477	1.103
377.0	377.0	12.25	3.0	130	45.5	1.170	0.477	1.103
378.0	378.0	12.25	4.0	129	43.5	1.170	0.501	1.050
379.0	379.0	12.25	4.6	129	43.5	1.170	0.511	1.030
380.0	380.0	12.25	4.1	130	34.5	1.170	0.533	0.988
381.0	381.0	12.25	3.8	130	34.5	1.170	0.527	0.999
382.0	382.0	12.25	4.2	130	34.5	1.170	0.535	0.984
383.0	383.0	12.25	4.1	130	33.3	1.170	0.537	0.980
384.0	384.0	12.25	4.1	130	33.3	1.170	0.537	0.980
385.0	385.0	12.25	3.8	130	33.3	1.170	0.531	0.991
386.0	386.0	12.25	4.1	130	32.3	1.170	0.541	0.973
387.0	387.0	12.25	4.1	130	32.3	1.170	0.541	0.973
388.0	388.0	12.25	4.2	130	31.3	1.170	0.547	0.962
389.0	389.0	12.25	4.3	130	25.0	1.170	0.577	0.912
390.0	390.0	12.25	4.0	130	24.4	1.170	0.574	0.858
391.0	391.0	12.25	4.3	129	50.0	1.170	0.489	1.008
392.0	392.0	12.25	4.0	129	47.6	1.170	0.490	1.006
393.0	393.0	12.25	4.0	128	43.5	1.170	0.500	0.985
394.0	394.0	12.25	4.3	128	47.6	1.170	0.494	0.997
395.0	395.0	12.25	4.3	128	58.8	1.170	0.467	1.054
396.0	396.0	12.25	4.5	128	58.8	1.170	0.470	1.047
397.0	397.0	12.25	4.2	128	55.6	1.170	0.473	1.042
398.0	398.0	12.25	4.0	128	50.0	1.170	0.483	1.020
399.0	399.0	12.25	4.3	128	45.5	1.170	0.500	0.986
400.0	400.0	12.25	4.5	129	45.5	1.170	0.504	0.977
401.0	401.0	12.25	4.3	129	43.5	1.170	0.506	0.973
402.0	402.0	12.25	4.1	129	43.5	1.170	0.503	0.980
403.0	403.0	12.25	4.4	129	38.5	1.170	0.523	0.941
404.0	404.0	12.25	4.2	128	62.5	1.170	0.458	1.075
405.0	405.0	12.25	4.3	128	58.8	1.170	0.467	1.054
406.0	406.0	12.25	4.3	128	55.6	1.170	0.474	1.038
407.0	407.0	12.25	4.2	128	55.6	1.170	0.473	1.042
408.0	408.0	12.25	3.8	128	58.8	1.170	0.459	1.073
409.0	409.0	12.25	4.0	128	50.0	1.170	0.483	1.020
410.0	410.0	12.25	4.1	128	55.6	1.170	0.471	1.045
411.0	411.0	12.25	4.1	128	55.6	1.170	0.471	1.045
412.0	412.0	12.25	4.1	128	52.6	1.170	0.478	1.031
413.0	413.0	12.25	4.2	128	50.0	1.170	0.486	1.013
414.0	414.0	12.25	4.3	128	50.0	1.170	0.488	1.010
415.0	415.0	12.25	4.4	128	50.0	1.170	0.489	1.007
416.0	416.0	12.25	4.2	128	50.0	1.170	0.486	1.013
417.0	417.0	12.25	3.9	128	50.0	1.170	0.481	1.024
418.0	418.0	12.25	3.2	128	41.7	1.170	0.490	1.005
419.0	419.0	12.25	3.3	128	40.0	1.170	0.497	0.991
420.0	420.0	12.25	3.2	127	37.0	1.170	0.503	0.979
421.0	421.0	12.25	3.4	128	50.0	1.170	0.472	1.044
422.0	422.0	12.25	3.4	128	52.6	1.170	0.465	1.058
423.0	423.0	12.25	3.2	128	52.6	1.170	0.462	1.067
424.0	424.0	12.25	3.4	128	50.0	1.170	0.472	1.044
425.0	425.0	12.25	3.4	128	52.6	1.170	0.465	1.058
426.0	426.0	12.25	3.3	129	45.5	1.170	0.482	1.021
427.0	427.0	12.25	3.2	128	47.6	1.170	0.474	1.040
428.0	428.0	12.25	3.4	128	50.0	1.170	0.472	1.044
429.0	429.0	12.25	3.3	128	52.6	1.170	0.464	1.062
430.0	430.0	12.25	3.4	128	50.0	1.170	0.472	1.044
431.0	431.0	12.25	3.3	127	40.0	1.170	0.496	0.993
432.0	432.0	12.25	3.6	123	52.6	1.170	0.464	1.061
433.0	433.0	12.25	4.0	123	58.8	1.170	0.457	1.077
434.0	434.0	12.25	3.7	123	52.6	1.170	0.466	1.057
435.0	435.0	12.25	3.7	124	52.6	1.170	0.467	1.054
436.0	436.0	12.25	3.6	129	50.0	1.170	0.476	1.034
437.0	437.0	12.25	3.8	129	43.5	1.170	0.497	0.990
438.0	438.0	12.25	3.9	130	43.5	1.170	0.500	0.985
439.0	439.0	12.25	4.0	130	52.6	1.170	0.478	1.030

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	DXC	PoreGrad Kg/cm ² /10m
440.0	440.0	12.25	3.6	130	45.5	1.170	0.489	1.007
441.0	441.0	12.25	3.9	130	50.0	1.170	0.483	1.020
442.0	442.0	12.25	3.8	129	50.0	1.170	0.480	1.026
443.0	443.0	12.25	3.9	129	52.6	1.170	0.475	1.036
444.0	444.0	12.25	3.9	129	50.0	1.170	0.482	1.022
445.0	445.0	12.25	3.7	130	45.5	1.170	0.491	1.003
446.0	446.0	12.25	3.9	130	43.5	1.170	0.500	0.985
447.0	447.0	12.25	3.9	131	43.5	1.170	0.501	0.983
448.0	448.0	12.25	3.8	131	41.7	1.170	0.505	0.976
449.0	449.0	12.25	3.8	131	47.6	1.170	0.488	1.009
450.0	450.0	12.25	3.8	125	50.0	1.170	0.476	1.034
451.0	451.0	12.25	3.8	123	62.5	1.170	0.447	1.103
452.0	452.0	12.25	3.5	123	58.8	1.170	0.449	1.097
453.0	453.0	12.25	3.9	123	55.6	1.170	0.463	1.064
454.0	454.0	12.25	3.9	124	58.8	1.170	0.457	1.078
455.0	455.0	12.25	3.7	124	55.6	1.170	0.460	1.070
456.0	456.0	12.25	4.1	124	55.6	1.170	0.467	1.054
457.0	457.0	12.25	4.0	124	55.6	1.170	0.465	1.058
458.0	458.0	12.25	3.6	125	40.0	1.170	0.500	0.985
459.0	459.0	12.25	3.3	125	50.0	1.170	0.467	1.055
460.0	460.0	12.25	3.7	125	58.8	1.170	0.454	1.084
461.0	461.0	12.25	5.8	126	50.0	1.170	0.507	0.971
462.0	462.0	12.25	5.6	127	62.5	1.170	0.476	1.034
463.0	463.0	12.25	5.9	127	66.7	1.170	0.472	1.044
464.0	464.0	12.25	5.8	126	66.7	1.170	0.469	1.049
465.0	465.0	12.25	5.8	126	52.6	1.170	0.501	0.984
466.0	466.0	12.25	5.7	126	58.8	1.170	0.485	1.016
467.0	467.0	12.25	5.7	125	55.6	1.170	0.491	1.003
468.0	468.0	12.25	5.7	125	62.5	1.170	0.476	1.035
469.0	469.0	12.25	5.9	125	76.9	1.170	0.451	1.093
470.0	470.0	12.25	5.8	127	71.4	1.170	0.461	1.067
471.0	471.0	12.25	5.9	127	71.4	1.170	0.463	1.065
472.0	472.0	12.25	5.9	127	83.3	1.170	0.442	1.114
473.0	473.0	12.25	5.9	127	83.3	1.170	0.442	1.114
474.0	474.0	12.25	5.9	127	58.8	1.170	0.488	1.009
475.0	475.0	12.25	5.7	127	66.7	1.170	0.469	1.049
476.0	476.0	12.25	5.7	127	55.6	1.170	0.493	0.998
477.0	477.0	12.25	5.7	127	76.9	1.170	0.450	1.093
478.0	478.0	12.25	5.9	127	62.5	1.170	0.480	1.026
479.0	479.0	12.25	5.9	126	52.6	1.170	0.502	0.981
480.0	480.0	12.25	5.8	127	40.0	1.170	0.538	0.948
481.0	481.0	12.25	5.8	127	52.6	1.170	0.502	1.017
482.0	482.0	12.25	5.9	129	55.6	1.170	0.498	1.025
483.0	483.0	12.25	5.9	127	58.8	1.170	0.488	1.046
484.0	484.0	12.25	5.6	127	58.8	1.170	0.484	1.055
485.0	485.0	12.25	5.8	128	55.6	1.170	0.496	1.031
486.0	486.0	12.25	5.8	127	55.6	1.170	0.495	1.034
487.0	487.0	12.25	5.8	128	55.6	1.170	0.496	1.032
488.0	488.0	12.25	5.9	129	50.0	1.170	0.512	1.000
489.0	489.0	12.25	5.7	129	50.0	1.170	0.509	1.005
490.0	490.0	12.25	5.9	129	41.7	1.170	0.536	0.956
491.0	491.0	12.25	5.8	129	45.5	1.170	0.523	0.980
492.0	492.0	12.25	5.7	128	47.6	1.170	0.514	0.996
493.0	493.0	12.25	5.9	129	52.6	1.170	0.505	1.015
494.0	494.0	12.25	5.8	129	52.6	1.170	0.504	1.018
495.0	495.0	12.25	5.8	130	62.5	1.170	0.482	1.064
496.0	496.0	12.25	5.9	130	52.6	1.170	0.506	1.015
497.0	497.0	12.25	5.9	129	55.6	1.170	0.498	1.032
498.0	498.0	12.25	5.9	129	58.8	1.170	0.490	1.048
499.0	499.0	12.25	5.9	128	50.0	1.170	0.511	1.006
500.0	500.0	12.25	4.6	127	52.6	1.170	0.485	1.061
501.0	501.0	12.25	3.9	127	52.6	1.170	0.474	1.086
502.0	502.0	12.25	4.5	127	58.8	1.170	0.469	1.097
503.0	503.0	12.25	4.3	127	47.6	1.170	0.493	1.045
504.0	504.0	12.25	3.8	128	52.6	1.170	0.473	1.089
505.0	505.0	12.25	4.2	128	52.6	1.170	0.480	1.074
506.0	506.0	12.25	3.6	128	43.5	1.170	0.493	1.046
507.0	507.0	12.25	5.8	128	37.0	1.170	0.549	0.939
508.0	508.0	12.25	6.1	128	45.5	1.170	0.526	0.981
509.0	509.0	12.25	6.6	128	41.7	1.170	0.544	1.010

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	DXC	PoreGrad Kg/cm ² /10m
510.0	510.0	12.25	6.5	128	29.4	1.170	0.589	0.933
511.0	511.0	12.25	6.6	128	41.7	1.170	0.544	1.011
512.0	512.0	12.25	6.5	128	31.3	1.170	0.581	0.947
513.0	513.0	12.25	6.7	123	58.8	1.170	0.493	1.116
514.0	514.0	12.25	6.6	122	55.6	1.170	0.499	1.104
515.0	515.0	12.25	6.6	122	55.6	1.170	0.499	1.104
516.0	516.0	12.25	6.4	122	55.6	1.170	0.497	1.110
517.0	517.0	12.25	6.5	122	52.6	1.170	0.505	1.092
518.0	518.0	12.25	6.6	123	47.6	1.170	0.521	1.059
519.0	519.0	12.25	6.6	123	33.3	1.170	0.569	0.970
520.0	520.0	12.25	6.4	123	55.6	1.170	0.498	1.109
521.0	521.0	12.25	6.6	123	47.6	1.170	0.521	1.060
522.0	522.0	12.25	6.6	122	71.4	1.170	0.465	1.187
523.0	523.0	12.25	6.5	122	43.5	1.170	0.531	1.041
524.0	524.0	12.25	6.4	122	40.0	1.170	0.540	1.023
525.0	525.0	12.25	6.5	123	40.0	1.170	0.543	1.019
526.0	526.0	12.25	6.5	123	40.0	1.170	0.543	1.019
527.0	527.0	12.25	6.4	123	38.5	1.170	0.547	1.012
528.0	528.0	12.25	6.5	123	37.0	1.170	0.553	1.001
529.0	529.0	12.25	6.4	123	38.5	1.170	0.547	1.013
530.0	530.0	12.25	6.4	122	35.7	1.170	0.556	0.997
531.0	531.0	12.25	6.5	122	37.0	1.170	0.552	1.004
532.0	532.0	12.25	5.9	123	50.0	1.170	0.505	1.097
533.0	533.0	12.25	5.9	123	37.0	1.170	0.545	1.017
534.0	534.0	12.25	6.1	123	41.7	1.170	0.532	1.042
535.0	535.0	12.25	6.0	123	38.5	1.170	0.541	1.025
536.0	536.0	12.25	6.0	121	38.5	1.170	0.539	1.029
537.0	537.0	12.25	5.8	121	29.4	1.170	0.572	0.971
538.0	538.0	12.25	6.0	123	29.4	1.170	0.577	0.963
539.0	539.0	12.25	5.9	123	27.0	1.170	0.587	0.947
540.0	540.0	12.25	6.0	124	30.3	1.170	0.574	0.968
541.0	541.0	12.25	6.1	123	30.3	1.170	0.574	0.968
542.0	542.0	12.25	5.9	123	40.0	1.170	0.535	1.040
543.0	543.0	12.25	6.0	124	37.0	1.170	0.548	1.017
544.0	544.0	12.25	6.0	123	33.3	1.170	0.560	0.994
545.0	545.0	12.25	5.9	123	37.0	1.170	0.545	1.022
546.0	546.0	12.25	5.9	123	38.5	1.170	0.540	1.032
547.0	547.0	12.25	6.2	123	38.5	1.170	0.544	1.024
548.0	548.0	12.25	5.8	123	40.0	1.170	0.534	1.045
549.0	549.0	12.25	6.0	123	37.0	1.170	0.546	1.021
550.0	550.0	12.25	6.0	122	37.0	1.170	0.545	1.023
551.0	551.0	12.25	6.1	121	38.5	1.170	0.541	1.033
552.0	552.0	12.25	6.2	122	37.0	1.170	0.548	1.019
553.0	553.0	12.25	6.0	123	35.7	1.170	0.551	1.013
554.0	554.0	12.25	5.9	123	33.3	1.170	0.559	1.000
555.0	555.0	12.25	6.1	124	41.7	1.170	0.533	1.048
556.0	556.0	12.25	6.0	123	47.6	1.170	0.513	1.090
557.0	557.0	12.25	6.2	123	62.5	1.170	0.480	1.167
558.0	558.0	12.25	6.0	122	47.6	1.170	0.512	1.093
559.0	559.0	12.25	6.0	123	25.0	1.170	0.598	0.936
560.0	560.0	12.25	5.5	124	25.0	1.170	0.592	0.946
561.0	561.0	12.25	5.3	124	30.3	1.170	0.564	0.994
562.0	562.0	12.25	5.4	122	30.3	1.170	0.563	0.996
563.0	563.0	12.25	5.8	122	33.3	1.170	0.556	1.008
564.0	564.0	12.25	5.3	123	35.7	1.170	0.541	1.037
565.0	565.0	12.25	5.6	123	34.5	1.170	0.550	1.020
566.0	566.0	12.25	5.3	123	25.0	1.170	0.588	0.955
567.0	567.0	12.25	5.3	123	25.6	1.170	0.584	0.961
568.0	568.0	12.25	5.7	123	24.4	1.170	0.597	0.941
569.0	569.0	12.25	5.5	124	28.6	1.170	0.574	0.978
570.0	570.0	12.25	5.5	124	27.0	1.170	0.582	0.967
571.0	571.0	12.25	5.3	123	38.5	1.170	0.532	1.058
572.0	572.0	12.25	5.4	122	38.5	1.170	0.532	1.058
573.0	573.0	12.25	5.7	123	40.0	1.170	0.532	1.058
574.0	574.0	12.25	5.3	123	41.7	1.170	0.521	1.080
575.0	575.0	12.25	5.6	122	43.5	1.170	0.519	1.086
576.0	576.0	12.25	5.4	122	37.0	1.170	0.537	1.049
577.0	577.0	12.25	5.6	121	35.7	1.170	0.543	1.037
578.0	578.0	12.25	5.7	122	33.3	1.170	0.555	1.016
579.0	579.0	12.25	5.4	122	30.3	1.170	0.563	1.002

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	DXC	PoreGrad Kg/cmq/10m
580.0	580.0	12.25	5.4	123	33.3	1.170	0.552	1.023
581.0	581.0	12.25	5.5	123	32.3	1.170	0.557	1.013
582.0	582.0	12.25	5.4	122	30.3	1.170	0.563	1.003
583.0	583.0	12.25	5.4	122	30.3	1.170	0.563	1.003
584.0	584.0	12.25	5.7	122	32.3	1.170	0.559	1.010
585.0	585.0	12.25	5.3	123	33.3	1.170	0.550	1.028
586.0	586.0	12.25	5.6	123	31.3	1.170	0.563	1.004
587.0	587.0	12.25	5.3	122	34.5	1.170	0.545	1.039
588.0	588.0	12.25	5.6	121	35.7	1.170	0.543	1.041
589.0	589.0	12.25	5.5	122	43.5	1.170	0.517	1.094
590.0	590.0	12.25	5.4	122	41.7	1.170	0.522	1.086
591.0	591.0	12.25	5.3	123	40.0	1.170	0.526	1.076
592.0	592.0	12.25	5.5	122	38.5	1.170	0.533	1.062
593.0	593.0	12.25	5.3	123	32.3	1.170	0.554	1.023
594.0	594.0	12.25	5.2	122	32.3	1.170	0.552	1.028
595.0	595.0	12.25	5.4	122	30.3	1.170	0.563	1.008
596.0	596.0	12.25	5.7	123	31.3	1.170	0.565	1.005
597.0	597.0	12.25	5.7	123	29.4	1.170	0.573	0.992
598.0	598.0	12.25	5.4	123	25.0	1.170	0.589	0.964
599.0	599.0	12.25	5.9	123	37.0	1.170	0.545	1.042
600.0	600.0	12.25	5.3	123	43.5	1.170	0.516	0.992
601.0	601.0	12.25	5.8	123	41.7	1.170	0.528	0.968
602.0	602.0	12.25	5.8	123	47.6	1.170	0.511	1.002
603.0	603.0	12.25	5.4	123	50.0	1.170	0.499	1.025
604.0	604.0	12.25	5.5	122	41.7	1.170	0.523	0.978
605.0	605.0	12.25	5.4	122	41.7	1.170	0.522	0.981
606.0	606.0	12.25	5.4	123	50.0	1.170	0.499	1.026
607.0	607.0	12.25	5.4	124	58.8	1.170	0.479	1.069
608.0	608.0	12.25	5.4	124	52.6	1.170	0.493	1.037
609.0	609.0	12.25	5.4	123	58.8	1.170	0.478	1.071
610.0	610.0	12.25	5.3	124	58.8	1.170	0.477	1.072
611.0	611.0	12.25	5.7	124	58.8	1.170	0.483	1.060
612.0	612.0	12.25	5.5	123	66.7	1.170	0.463	1.106
613.0	613.0	12.25	5.4	123	58.8	1.170	0.478	1.071
614.0	614.0	12.25	5.6	123	58.8	1.170	0.480	1.065
615.0	615.0	12.25	5.3	123	52.6	1.170	0.491	1.043
616.0	616.0	12.25	5.7	124	55.6	1.170	0.490	1.044
617.0	617.0	12.25	5.7	124	66.7	1.170	0.466	1.098
618.0	618.0	12.25	5.4	125	55.6	1.170	0.487	1.050
619.0	619.0	12.25	5.4	124	52.6	1.170	0.493	1.038
620.0	620.0	12.25	5.6	124	52.6	1.170	0.496	1.032
621.0	621.0	12.25	6.0	124	38.5	1.170	0.543	0.943
622.0	622.0	12.25	5.8	124	62.5	1.170	0.476	1.076
623.0	623.0	12.25	5.8	123	55.6	1.170	0.490	1.044
624.0	624.0	12.25	5.7	124	55.6	1.170	0.490	1.044
625.0	625.0	12.25	5.7	124	58.8	1.170	0.483	1.061
626.0	626.0	12.25	5.7	124	62.5	1.170	0.475	1.079
627.0	627.0	12.25	5.8	118	62.5	1.170	0.469	1.091
628.0	628.0	12.25	6.0	119	58.8	1.170	0.481	1.065
629.0	629.0	12.25	5.7	119	55.6	1.170	0.485	1.056
630.0	630.0	12.25	5.8	119	62.5	1.170	0.470	1.088
631.0	631.0	12.25	5.8	119	52.6	1.170	0.493	1.038
632.0	632.0	12.25	5.9	119	55.6	1.170	0.487	1.051
633.0	633.0	12.25	5.8	118	66.7	1.170	0.461	1.111
634.0	634.0	12.25	5.9	116	55.6	1.170	0.484	1.058
635.0	635.0	12.25	5.9	117	58.8	1.170	0.477	1.073
636.0	636.0	12.25	5.7	116	55.6	1.170	0.481	1.064
637.0	637.0	12.25	5.5	118	62.5	1.170	0.466	1.100
638.0	638.0	12.25	5.9	118	66.7	1.170	0.462	1.108
639.0	639.0	12.25	5.9	117	50.0	1.170	0.499	1.026
640.0	640.0	12.25	5.8	116	58.8	1.170	0.475	1.130
641.0	641.0	12.25	5.8	119	29.4	1.170	0.570	0.943
642.0	642.0	12.25	5.9	120	43.5	1.170	0.521	1.032
643.0	643.0	12.25	5.8	119	50.0	1.170	0.500	1.075
644.0	644.0	12.25	5.9	119	47.6	1.170	0.508	1.059
645.0	645.0	12.25	5.9	118	45.5	1.170	0.513	1.049
646.0	646.0	12.25	5.9	118	50.0	1.170	0.500	1.076
647.0	647.0	12.25	5.6	118	47.6	1.170	0.502	1.071
648.0	648.0	12.25	5.9	117	52.6	1.170	0.492	1.094
649.0	649.0	12.25	5.8	119	38.5	1.170	0.534	1.008

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	DXC	PoreGrad Kg/cm ² /10m
650.0	650.0	12.25	5.8	119	35.7	1.170	0.544	0.990
651.0	651.0	12.25	5.8	119	32.3	1.170	0.558	0.966
652.0	652.0	12.25	5.8	120	31.3	1.170	0.563	0.958
653.0	653.0	12.25	5.7	119	30.3	1.170	0.564	0.955
654.0	654.0	12.25	5.9	120	29.4	1.170	0.572	0.942
655.0	655.0	12.25	5.6	123	43.5	1.170	0.520	1.142
656.0	656.0	12.25	5.6	123	27.0	1.170	0.582	1.020
657.0	657.0	12.25	5.9	122	20.4	1.170	0.623	0.953
658.0	658.0	8.50	1.9	73	11.4	1.170	0.567	1.047
659.0	659.0	8.50	2.0	73	13.7	1.170	0.549	0.941
660.0	660.0	8.50	2.0	72	22.2	1.170	0.489	1.055
661.0	661.0	8.50	2.0	72	27.8	1.170	0.463	1.116
662.0	662.0	8.50	2.2	72	22.7	1.170	0.493	1.048
663.0	663.0	8.50	1.9	72	22.2	1.170	0.486	1.063
664.0	664.0	8.50	2.1	76	47.6	1.170	0.408	1.267
665.0	665.0	8.50	1.9	78	71.4	1.170	0.357	1.446
666.0	666.0	8.50	2.1	78	76.9	1.170	0.353	1.134
667.0	667.0	8.50	2.2	78	76.9	1.170	0.355	1.127
668.0	668.0	8.50	2.1	78	52.6	1.170	0.399	1.005
669.0	669.0	8.50	2.2	78	66.7	1.170	0.373	1.075
670.0	670.0	8.50	2.1	78	71.4	1.170	0.362	1.106
671.0	671.0	8.50	1.9	78	66.7	1.170	0.365	1.096
672.0	672.0	8.50	1.9	78	62.5	1.170	0.373	1.074
673.0	673.0	8.50	2.1	78	62.5	1.170	0.378	1.060
674.0	674.0	8.50	1.9	78	47.6	1.170	0.405	0.989
675.0	675.0	8.50	2.0	78	13.3	1.170	0.560	0.716
676.0	676.0	8.50	1.7	88	21.7	1.170	0.505	0.794
677.0	677.0	8.50	2.0	116	76.9	1.170	0.398	1.297
678.0	678.0	8.50	2.3	116	58.8	1.170	0.438	1.178
679.0	679.0	8.50	2.0	116	41.7	1.170	0.471	1.096
680.0	680.0	8.50	2.1	110	34.5	1.170	0.491	1.052
681.0	681.0	8.50	2.0	85	26.3	1.170	0.489	1.056
682.0	682.0	8.50	1.8	79	17.9	1.170	0.519	0.995
683.0	683.0	8.50	2.0	77	13.3	1.170	0.558	0.925
684.0	684.0	8.50	2.0	77	15.6	1.170	0.539	0.958
685.0	685.0	8.50	2.0	77	14.9	1.170	0.545	0.948
686.0	686.0	8.50	2.1	77	14.5	1.170	0.552	0.936
687.0	687.0	8.50	1.9	86	14.7	1.170	0.556	1.189
688.0	688.0	8.50	4.9	114	19.2	1.170	0.639	1.035
689.0	689.0	8.50	5.0	124	22.7	1.170	0.630	1.051
690.0	690.0	8.50	5.0	125	24.4	1.170	0.621	1.065
691.0	691.0	8.50	5.0	124	26.3	1.170	0.610	1.086
692.0	692.0	8.50	5.0	124	25.0	1.170	0.617	1.074
693.0	693.0	8.50	5.0	124	21.3	1.170	0.638	1.037
694.0	694.0	8.50	4.7	124	17.9	1.170	0.656	1.010
695.0	695.0	8.50	4.9	124	17.9	1.170	0.660	1.004
696.0	696.0	8.50	4.8	124	15.4	1.170	0.678	0.977
697.0	697.0	8.50	5.0	124	15.6	1.170	0.681	0.974
698.0	698.0	8.50	4.7	124	15.4	1.170	0.676	1.145
699.0	699.0	8.50	5.2	125	15.2	1.170	0.690	1.123
700.0	700.0	8.50	4.9	125	13.0	1.170	0.705	1.100
701.0	701.0	8.50	4.9	125	16.7	1.170	0.671	1.155
702.0	702.0	8.50	4.8	125	17.9	1.170	0.659	1.176
703.0	703.0	8.50	5.2	125	13.2	1.170	0.709	1.093
704.0	704.0	8.50	5.2	123	12.8	1.170	0.711	1.091
705.0	705.0	8.50	5.0	123	10.6	1.170	0.732	1.060
706.0	706.0	8.50	4.8	123	11.1	1.170	0.721	1.076
707.0	707.0	8.50	5.1	123	9.5	1.170	0.749	1.036
708.0	708.0	8.50	5.0	123	13.7	1.170	0.697	1.113
709.0	709.0	8.50	5.0	123	10.3	1.170	0.736	1.055
710.0	710.0	8.50	4.8	123	11.6	1.170	0.715	1.086
711.0	711.0	8.50	5.0	123	11.4	1.170	0.723	1.075
712.0	712.0	8.50	5.0	123	10.3	1.170	0.736	1.056
713.0	713.0	8.50	5.2	122	9.3	1.170	0.754	1.031
714.0	714.0	8.50	5.0	121	8.2	1.170	0.765	1.017
715.0	715.0	8.50	4.9	121	8.9	1.170	0.751	1.036
716.0	716.0	8.50	5.0	120	11.9	1.170	0.713	1.091
717.0	717.0	8.50	5.1	121	13.3	1.170	0.701	1.110
718.0	718.0	8.50	4.9	121	12.2	1.170	0.709	1.098
719.0	719.0	8.50	4.6	120	11.9	1.170	0.704	1.106

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	DXC	PoreGrad Kg/cm ² /10m
720.0	720.0	8.50	5.0	119	10.9	1.170	0.724	1.075
721.0	721.0	8.50	5.0	119	13.3	1.170	0.696	1.119
722.0	722.0	8.50	5.3	120	15.4	1.170	0.684	1.139
723.0	723.0	8.50	5.0	119	13.0	1.170	0.700	1.113
724.0	724.0	8.50	4.9	120	12.3	1.170	0.706	1.105
725.0	725.0	8.50	4.9	120	11.8	1.170	0.712	1.095
726.0	726.0	8.50	5.0	120	11.4	1.170	0.719	1.084
727.0	727.0	8.50	5.0	121	9.4	1.170	0.746	1.046
728.0	728.0	8.50	5.0	120	10.8	1.170	0.727	1.129
729.0	729.0	8.50	4.9	120	13.3	1.170	0.695	1.180
730.0	730.0	8.50	4.9	120	11.6	1.170	0.714	1.150
731.0	731.0	8.50	4.9	120	9.6	1.170	0.740	1.110
732.0	732.0	8.50	5.1	120	11.2	1.170	0.723	1.136
733.0	733.0	8.50	5.1	119	9.9	1.170	0.739	1.112
734.0	734.0	8.50	4.7	121	5.6	1.170	0.809	1.015
735.0	735.0	8.50	5.1	120	8.9	1.170	0.755	1.090
736.0	736.0	8.50	5.3	121	8.0	1.170	0.775	1.061
737.0	737.0	8.50	5.0	120	8.6	1.170	0.757	1.087
738.0	738.0	8.50	4.9	121	8.7	1.170	0.755	1.090
739.0	739.0	8.50	5.1	120	9.0	1.170	0.753	1.092
740.0	740.0	8.50	5.0	120	8.4	1.170	0.760	1.082
741.0	741.0	8.50	4.7	121	9.1	1.170	0.744	1.107
742.0	742.0	8.50	4.9	120	7.9	1.170	0.766	1.075
743.0	743.0	8.50	4.9	121	8.9	1.170	0.751	1.097
744.0	744.0	8.50	5.0	120	9.5	1.170	0.743	1.108
745.0	745.0	8.50	5.0	120	10.1	1.170	0.735	1.121
746.0	746.0	8.50	5.1	120	6.4	1.170	0.801	1.030
747.0	747.0	8.50	5.3	120	7.5	1.170	0.783	1.054
748.0	748.0	8.50	5.2	120	16.9	1.170	0.669	1.233
749.0	749.0	8.50	5.0	120	17.9	1.170	0.658	1.074
750.0	750.0	8.50	5.0	119	16.4	1.170	0.668	1.058
751.0	751.0	8.50	5.1	119	20.0	1.170	0.643	1.099
752.0	752.0	8.50	5.0	120	13.5	1.170	0.696	1.017
753.0	753.0	8.50	5.0	120	13.5	1.170	0.696	1.017
754.0	754.0	8.50	5.1	118	16.7	1.170	0.667	1.061
755.0	755.0	8.50	5.2	117	17.9	1.170	0.658	1.075
756.0	756.0	8.50	3.4	118	17.5	1.268	0.573	1.236
757.0	757.0	8.50	3.5	115	8.0	1.300	0.649	1.091
758.0	758.0	8.50	3.6	116	9.4	1.300	0.634	1.118
759.0	759.0	8.50	3.8	116	8.1	1.300	0.656	1.080
760.0	760.0	8.50	3.5	114	22.7	1.300	0.527	1.345
761.0	761.0	8.50	3.5	114	22.2	1.300	0.530	1.339
762.0	762.0	8.50	3.4	115	6.8	1.300	0.665	1.066
763.0	763.0	8.50	3.9	118	9.0	1.300	0.649	1.094
764.0	764.0	8.50	3.4	118	13.2	1.300	0.592	1.199
765.0	765.0	8.50	3.5	118	10.2	1.300	0.624	1.138
766.0	766.0	8.50	3.3	118	9.3	1.300	0.630	1.127
767.0	767.0	8.50	3.3	118	9.2	1.300	0.631	1.126
768.0	768.0	8.50	3.3	118	12.0	1.300	0.600	1.185
769.0	769.0	8.50	3.5	118	13.3	1.300	0.593	1.199
770.0	770.0	8.50	3.4	118	11.4	1.300	0.609	1.168
771.0	771.0	8.50	3.3	118	11.5	1.300	0.605	1.176
772.0	772.0	8.50	3.1	119	8.5	1.300	0.635	1.120
773.0	773.0	8.50	3.4	119	10.6	1.300	0.618	1.152
774.0	774.0	8.50	3.3	118	22.2	1.300	0.529	1.345
775.0	775.0	8.50	3.6	118	23.8	1.300	0.528	1.349
776.0	776.0	8.50	3.7	118	18.5	1.300	0.560	1.273
777.0	777.0	8.50	3.3	118	18.9	1.300	0.548	1.300
778.0	778.0	8.50	3.6	119	11.1	1.300	0.618	1.154
779.0	779.0	8.50	3.7	119	8.5	1.300	0.651	1.095
780.0	780.0	8.50	3.3	119	8.3	1.300	0.644	1.107
781.0	781.0	8.50	3.8	119	9.6	1.300	0.640	1.115
782.0	782.0	8.50	3.4	119	10.9	1.300	0.615	1.160
783.0	783.0	8.50	3.6	119	10.3	1.300	0.627	1.139
784.0	784.0	8.50	3.4	119	9.3	1.300	0.633	1.129
785.0	785.0	8.50	3.5	119	10.3	1.300	0.624	1.145
786.0	786.0	8.50	3.3	119	8.3	1.300	0.644	1.109
787.0	787.0	8.50	3.7	119	10.4	1.300	0.628	1.138
788.0	788.0	8.50	3.8	119	8.3	1.300	0.657	1.089
789.0	789.0	8.50	3.8	119	11.4	1.300	0.620	1.153

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	DXC	PoreGrad Kg/cm ² /10m
790.0	790.0	8.50	3.5	119	12.0	1.300	0.606	1.181
791.0	791.0	8.50	3.9	119	11.0	1.300	0.626	1.142
792.0	792.0	8.50	3.7	119	12.2	1.300	0.609	1.174
793.0	793.0	8.50	3.6	119	13.0	1.300	0.600	1.194
794.0	794.0	8.50	3.6	119	9.9	1.300	0.631	1.134
795.0	795.0	8.50	3.8	118	14.3	1.300	0.592	1.209
796.0	796.0	8.50	3.9	119	12.8	1.300	0.608	1.178
797.0	797.0	8.50	4.0	119	11.0	1.320	0.619	1.157
798.0	798.0	8.50	4.0	119	6.1	1.320	0.688	1.042
799.0	799.0	8.50	4.0	119	5.6	1.320	0.699	1.026
800.0	800.0	8.50	3.9	119	13.9	1.320	0.590	1.216
801.0	801.0	8.50	3.8	119	14.5	1.320	0.583	1.232
802.0	802.0	8.50	3.8	119	10.9	1.320	0.616	1.165
803.0	803.0	8.50	3.8	119	8.1	1.320	0.649	1.105
804.0	804.0	8.50	4.1	119	12.5	1.320	0.607	1.184
805.0	805.0	8.50	3.8	119	17.9	1.320	0.558	1.286
806.0	806.0	8.50	3.9	119	17.5	1.320	0.563	1.277
807.0	807.0	8.50	3.6	119	20.4	1.320	0.539	1.334
808.0	808.0	8.50	3.8	118	14.3	1.320	0.583	1.233
809.0	809.0	8.50	3.8	122	12.8	1.320	0.600	1.199
810.0	810.0	8.50	3.8	122	9.8	1.320	0.631	1.141
811.0	811.0	8.50	4.4	122	11.2	1.320	0.629	1.145
812.0	812.0	8.50	4.1	122	9.3	1.320	0.645	1.117
813.0	813.0	8.50	4.2	122	13.3	1.320	0.604	1.192
814.0	814.0	8.50	4.2	122	9.0	1.320	0.650	1.108
815.0	815.0	8.50	4.1	124	5.1	1.320	0.717	1.004
816.0	816.0	8.50	4.2	125	14.7	1.320	0.595	1.210
817.0	817.0	8.50	4.1	125	9.7	1.320	0.642	1.123
818.0	818.0	8.50	4.2	125	12.7	1.320	0.613	1.176
819.0	819.0	8.50	4.3	125	13.0	1.320	0.612	1.178
820.0	820.0	8.50	4.2	125	13.0	1.320	0.610	1.183
821.0	821.0	8.50	4.3	125	11.9	1.320	0.622	1.159
822.0	822.0	8.50	4.2	125	13.7	1.320	0.604	1.196
823.0	823.0	8.50	4.5	125	11.5	1.320	0.631	1.144
824.0	824.0	8.50	4.3	125	14.9	1.320	0.596	1.212
825.0	825.0	8.50	4.4	125	14.3	1.320	0.603	1.198
826.0	826.0	8.50	4.3	125	14.7	1.320	0.598	1.209
827.0	827.0	8.50	4.3	125	12.0	1.320	0.621	1.164
828.0	828.0	8.50	4.2	125	9.1	1.320	0.652	1.109
829.0	829.0	8.50	4.1	125	11.5	1.320	0.622	1.163
830.0	830.0	8.50	3.9	125	11.1	1.320	0.621	1.164
831.0	831.0	8.50	3.9	125	8.3	1.320	0.655	1.105
832.0	832.0	8.50	4.0	125	5.6	1.320	0.703	1.030
833.0	833.0	8.50	3.9	125	4.6	1.320	0.724	1.001
834.0	834.0	8.50	4.3	125	4.1	1.320	0.749	0.967
835.0	835.0	8.50	3.9	125	6.7	1.320	0.680	1.050
836.0	836.0	8.50	3.9	125	8.5	1.320	0.653	1.094
837.0	837.0	8.50	3.8	125	9.7	1.320	0.635	1.125
838.0	838.0	8.50	3.9	125	12.3	1.320	0.609	1.172
839.0	839.0	8.50	4.2	125	15.6	1.320	0.588	1.214
840.0	840.0	8.50	3.9	125	11.1	1.320	0.621	1.149
841.0	841.0	8.50	4.2	125	10.3	1.320	0.637	1.121
842.0	842.0	8.50	4.5	125	14.1	1.320	0.607	1.177
843.0	843.0	8.50	4.4	122	11.1	1.320	0.630	1.134
844.0	844.0	8.50	4.5	120	8.9	1.320	0.656	1.089
845.0	845.0	8.50	4.5	120	7.6	1.320	0.675	1.059
846.0	846.0	8.50	4.4	120	7.4	1.320	0.677	1.055
847.0	847.0	8.50	4.8	120	9.3	1.320	0.657	1.087
848.0	848.0	8.50	4.5	120	7.9	1.320	0.671	1.065
849.0	849.0	8.50	4.4	120	8.1	1.320	0.666	1.073
850.0	850.0	8.50	4.2	120	12.3	1.320	0.611	1.169
851.0	851.0	8.50	4.5	120	6.5	1.320	0.694	1.030
852.0	852.0	8.50	4.5	120	9.2	1.320	0.653	1.094
853.0	853.0	8.50	4.7	120	13.5	1.320	0.611	1.170
854.0	854.0	8.50	4.3	120	8.3	1.320	0.660	1.083
855.0	855.0	8.50	4.8	120	8.9	1.320	0.663	1.078
856.0	856.0	8.50	4.4	120	12.0	1.320	0.618	1.155
857.0	857.0	8.50	4.8	120	15.4	1.320	0.597	1.196
858.0	858.0	8.50	4.3	120	15.4	1.320	0.587	1.216
859.0	859.0	8.50	4.4	120	13.2	1.320	0.608	1.127

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	DXC	PoreGrad Kg/cm ² /10m
860.0	860.0	8.50	4.5	120	10.5	1.320	0.637	1.076
861.0	861.0	8.50	4.4	119	10.3	1.320	0.636	1.078
862.0	862.0	8.50	4.6	114	11.9	1.320	0.618	1.109
863.0	863.0	8.50	4.4	113	12.0	1.320	0.611	1.121
864.0	864.0	8.50	4.6	114	10.3	1.320	0.635	1.079
865.0	865.0	8.50	4.6	113	16.9	1.320	0.575	1.192
866.0	866.0	8.50	4.6	114	16.4	1.320	0.580	1.182
867.0	867.0	8.50	4.4	114	15.4	1.320	0.583	1.175
868.0	868.0	8.50	4.5	113	14.3	1.320	0.593	1.155
869.0	869.0	8.50	4.6	114	14.5	1.320	0.594	1.153
870.0	870.0	8.50	5.6	114	14.7	1.320	0.611	1.122
871.0	871.0	8.50	5.5	118	15.6	1.320	0.606	1.131
872.0	872.0	8.50	5.5	122	16.9	1.320	0.600	1.142
873.0	873.0	8.50	5.5	122	10.8	1.320	0.656	1.045
874.0	874.0	8.50	5.4	122	7.5	1.320	0.699	0.981
875.0	875.0	8.50	5.4	122	12.0	1.320	0.640	1.071
876.0	876.0	8.50	5.6	120	19.6	1.320	0.582	1.178
877.0	877.0	8.50	5.4	120	19.6	1.320	0.579	1.184
878.0	878.0	8.50	5.5	121	21.3	1.320	0.571	1.200
879.0	879.0	8.50	5.6	122	22.7	1.320	0.566	1.211
880.0	880.0	8.50	5.5	121	23.3	1.320	0.561	1.188
881.0	881.0	8.50	5.4	121	21.7	1.320	0.567	1.174
882.0	882.0	8.50	5.5	122	22.7	1.320	0.564	1.180
883.0	883.0	8.50	5.3	122	22.2	1.320	0.564	1.181
884.0	884.0	8.50	5.4	121	21.7	1.320	0.567	1.174
885.0	885.0	8.50	5.5	121	21.7	1.320	0.569	1.171
886.0	886.0	8.50	5.4	121	23.8	1.320	0.556	1.198
887.0	887.0	8.50	5.5	121	21.3	1.320	0.571	1.166
888.0	888.0	8.50	5.5	120	20.0	1.320	0.578	1.152
889.0	889.0	8.50	5.5	122	18.9	1.320	0.587	1.134
890.0	890.0	8.50	5.4	122	19.6	1.320	0.581	1.147
891.0	891.0	8.50	5.4	120	18.5	1.320	0.586	1.137
892.0	892.0	8.50	5.5	120	18.9	1.320	0.585	1.138
893.0	893.0	8.50	5.5	122	17.2	1.320	0.598	1.114
894.0	894.0	8.50	5.6	121	19.2	1.320	0.585	1.138
895.0	895.0	8.50	5.5	121	14.5	1.320	0.618	1.077
896.0	896.0	8.50	5.6	122	13.5	1.320	0.630	1.058
897.0	897.0	8.50	5.5	121	14.1	1.320	0.622	1.071
898.0	898.0	8.50	4.7	121	14.7	1.320	0.602	1.107
899.0	899.0	8.50	4.3	114	24.4	1.320	0.527	1.264
900.0	900.0	8.50	4.4	112	22.2	1.320	0.538	1.239
901.0	901.0	8.50	4.3	111	18.5	1.320	0.556	1.198
902.0	902.0	8.50	4.6	111	17.2	1.320	0.571	1.168
903.0	902.9	8.50	4.5	112	20.0	1.320	0.552	1.207
904.0	903.9	8.50	3.2	112	9.5	1.320	0.609	1.095
905.0	904.9	6.00	2.1	86	20.4	1.320	0.488	1.188
906.0	905.9	6.00	2.0	86	27.0	1.320	0.453	1.278
907.0	906.9	6.00	1.9	91	23.3	1.320	0.473	1.226
908.0	907.9	6.00	1.9	91	13.5	1.320	0.532	1.088
909.0	908.9	6.00	2.0	91	15.6	1.320	0.520	1.114
910.0	909.9	6.00	1.8	91	16.4	1.320	0.507	1.142
911.0	910.9	6.00	1.1	89	28.6	1.350	0.406	1.166
912.0	911.9	6.00	0.9	87	33.3	1.350	0.379	1.251
913.0	912.9	6.00	1.1	87	23.3	1.350	0.425	1.117
914.0	913.9	6.00	0.9	88	25.0	1.350	0.408	1.163
915.0	914.9	6.00	1.2	88	25.0	1.350	0.423	1.121
916.0	915.9	6.00	1.0	87	27.8	1.350	0.402	1.181
917.0	916.9	6.00	1.1	87	28.6	1.350	0.404	1.175
918.0	917.9	6.00	0.9	88	17.5	1.350	0.442	1.074
919.0	918.9	6.00	1.1	88	18.9	1.350	0.447	1.064
920.0	919.9	6.00	1.1	88	27.0	1.350	0.411	1.158
921.0	920.9	6.00	1.1	88	27.8	1.350	0.408	1.166
922.0	921.9	6.00	1.0	88	19.2	1.350	0.439	1.084
923.0	922.9	6.00	0.8	88	17.9	1.350	0.434	1.097
924.0	923.9	6.00	1.0	88	18.2	1.350	0.445	1.071
925.0	924.9	6.00	0.7	88	17.9	1.350	0.427	1.116
926.0	925.9	6.00	1.1	88	17.9	1.350	0.452	1.054
927.0	926.9	6.00	1.2	88	16.7	1.350	0.464	1.027
928.0	927.9	6.00	0.9	88	15.9	1.350	0.452	1.056
929.0	928.9	6.00	1.0	88	16.7	1.350	0.453	1.053

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	DXC	PoreGrad Kg/cm ² /10m
930.0	929.9	6.00	0.8	88	17.2	1.350	0.437	1.092
931.0	930.9	6.00	1.0	88	21.3	1.350	0.429	1.113
932.0	931.9	6.00	0.7	88	25.0	1.350	0.395	1.210
933.0	932.9	6.00	1.3	88	25.0	1.350	0.428	1.118
934.0	933.9	6.00	0.7	88	28.6	1.350	0.382	1.251
935.0	934.9	6.00	1.2	90	21.7	1.350	0.440	1.088
936.0	935.9	6.00	1.0	92	23.8	1.350	0.422	1.133
937.0	936.9	6.00	0.8	92	25.6	1.350	0.404	1.187
938.0	937.9	6.00	1.0	103	23.3	1.350	0.436	1.099
939.0	938.9	6.00	1.1	119	29.4	1.350	0.432	1.109
940.0	939.9	6.00	1.0	119	27.8	1.350	0.433	1.108
941.0	940.9	6.00	1.1	119	28.6	1.350	0.435	1.209
942.0	941.9	6.00	1.0	119	12.8	1.350	0.509	1.034
943.0	942.9	6.00	1.0	119	15.9	1.350	0.488	1.079
944.0	943.9	6.00	1.0	119	26.3	1.350	0.438	1.201
945.0	944.9	6.00	1.1	119	21.3	1.350	0.465	1.132
946.0	945.9	6.00	0.7	119	20.0	1.350	0.445	1.184
947.0	946.9	6.00	1.1	119	18.5	1.350	0.479	1.100
948.0	947.9	6.00	1.5	119	15.6	1.350	0.517	1.224
949.0	948.9	6.00	1.0	119	12.3	1.350	0.513	1.233
950.0	949.9	6.00	1.0	119	11.4	1.350	0.521	1.214
951.0	950.9	6.00	1.1	119	6.3	1.350	0.587	1.077
952.0	951.9	6.00	1.1	119	6.1	1.350	0.590	1.071
953.0	952.9	6.00	1.0	119	11.2	1.350	0.522	1.211
954.0	953.9	6.00	1.0	119	10.3	1.350	0.531	1.192
955.0	954.9	6.00	1.1	119	9.8	1.350	0.542	1.166
956.0	955.9	6.00	0.9	119	13.5	1.350	0.497	1.107
957.0	956.9	6.00	1.0	119	16.9	1.350	0.481	1.143
958.0	957.9	6.00	1.0	119	14.7	1.350	0.495	1.111
959.0	958.9	6.00	1.0	119	14.9	1.350	0.494	1.115
960.0	959.9	6.00	1.1	119	16.9	1.350	0.487	1.130
961.0	960.9	6.00	1.0	119	18.5	1.350	0.473	1.166
962.0	961.9	6.00	1.0	119	15.9	1.350	0.488	1.130
963.0	962.9	6.00	0.9	119	16.9	1.350	0.475	1.161
964.0	963.9	6.00	1.1	119	22.7	1.350	0.458	1.204
965.0	964.9	6.00	1.0	119	24.4	1.350	0.446	1.239
966.0	965.9	6.00	1.1	119	21.7	1.350	0.463	1.193
967.0	966.9	6.00	1.0	119	17.5	1.350	0.478	1.155
968.0	967.9	6.00	1.1	119	17.2	1.350	0.486	1.137
969.0	968.9	6.00	1.1	119	15.6	1.350	0.496	1.115
970.0	969.9	6.00	1.0	119	11.5	1.350	0.520	1.064
971.0	970.9	6.00	1.0	119	14.5	1.350	0.497	1.113
972.0	971.9	6.00	1.0	119	13.3	1.350	0.505	1.095
973.0	972.9	6.00	1.0	119	17.2	1.350	0.480	1.154
974.0	973.9	6.00	1.1	119	14.7	1.350	0.502	1.104
975.0	974.9	6.00	1.0	119	14.5	1.350	0.497	1.115
976.0	975.9	6.00	1.0	119	12.5	1.350	0.512	1.083
977.0	976.9	6.00	1.0	119	14.1	1.350	0.500	1.109
978.0	977.9	6.00	0.9	119	11.4	1.350	0.514	1.079
979.0	978.9	6.00	1.0	119	9.7	1.350	0.536	1.034
980.0	979.9	6.00	0.9	119	7.4	1.350	0.556	0.999
981.0	980.9	6.00	1.0	119	13.5	1.350	0.504	1.102
982.0	981.9	6.00	1.0	119	12.3	1.350	0.513	1.083
983.0	982.9	6.00	1.0	119	12.8	1.350	0.509	1.091
984.0	983.9	6.00	1.0	119	12.7	1.350	0.510	1.089
985.0	984.9	6.00	1.0	119	13.3	1.350	0.505	1.101
986.0	985.9	6.00	1.0	119	12.8	1.350	0.509	1.093
987.0	986.9	6.00	1.0	119	13.5	1.350	0.504	1.104
988.0	987.9	6.00	1.0	119	13.0	1.350	0.508	1.096
989.0	988.9	6.00	1.0	119	14.5	1.350	0.497	1.121
990.0	989.9	6.00	1.0	119	15.6	1.350	0.489	1.138
991.0	990.9	6.00	1.0	119	11.8	1.350	0.517	1.077
992.0	991.9	6.00	1.0	117	19.2	1.350	0.467	1.193
993.0	992.9	6.00	1.0	117	20.0	1.350	0.463	1.203
994.0	993.9	6.00	1.0	117	17.5	1.350	0.476	1.171
995.0	994.9	6.00	1.0	117	17.9	1.350	0.475	1.176
996.0	995.9	6.00	1.0	117	18.2	1.350	0.473	1.181
997.0	996.9	6.00	1.0	117	16.4	1.350	0.483	1.156
998.0	997.9	6.00	1.0	117	18.5	1.350	0.471	1.186
999.0	998.9	6.00	1.1	117	16.1	1.350	0.491	1.139

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	DXC	PoreGrad Kg/cm ² /10m
1000.0	999.9	6.00	0.9	117	14.1	1.350	0.491	1.138
1001.0	1000.9	6.00	0.8	117	11.9	1.350	0.500	1.118
1002.0	1001.9	6.00	0.9	117	12.2	1.350	0.505	1.107
1003.0	1002.9	6.00	0.9	117	13.9	1.350	0.493	1.136
1004.0	1003.9	6.00	0.7	117	12.7	1.350	0.486	1.152
1005.0	1004.9	6.00	0.7	117	15.2	1.350	0.469	1.194
1006.0	1005.9	6.00	0.8	117	11.5	1.350	0.504	1.113
1007.0	1006.9	6.00	1.0	117	13.0	1.350	0.506	1.108
1008.0	1007.9	6.00	0.8	117	12.0	1.350	0.499	1.124
1009.0	1008.9	6.00	0.8	117	14.7	1.350	0.480	1.169
1010.0	1009.9	6.00	0.7	117	14.5	1.350	0.473	1.185
1011.0	1010.9	6.00	1.0	117	12.3	1.350	0.511	1.098
1012.0	1011.9	6.00	1.0	117	13.5	1.350	0.502	1.118
1013.0	1012.9	6.00	1.0	117	14.1	1.350	0.498	1.128
1014.0	1013.9	6.00	1.0	117	11.5	1.350	0.518	1.085
1015.0	1014.9	6.00	1.0	117	9.6	1.350	0.536	1.049
1016.0	1015.9	6.00	1.0	117	13.0	1.350	0.506	1.111
1017.0	1016.9	6.00	1.0	117	12.8	1.350	0.507	1.109
1018.0	1017.9	6.00	1.0	117	12.8	1.350	0.507	1.109
1019.0	1018.9	6.00	1.0	117	11.1	1.350	0.521	1.080
1020.0	1019.9	6.00	1.1	120	23.3	1.350	0.457	1.246
1021.0	1020.9	6.00	1.0	120	16.1	1.350	0.487	1.168
1022.0	1021.9	6.00	1.0	119	21.3	1.350	0.459	1.241
1023.0	1022.9	6.00	1.0	119	20.4	1.350	0.463	1.230
1024.0	1023.9	6.00	1.0	120	18.5	1.350	0.474	1.203
1025.0	1024.9	6.00	1.0	120	15.2	1.350	0.493	1.155
1026.0	1025.9	6.00	1.0	120	17.2	1.350	0.481	1.187
1027.0	1026.9	6.00	1.0	120	17.9	1.350	0.477	1.196
1028.0	1027.9	6.00	1.0	120	15.6	1.350	0.490	1.164
1029.0	1028.9	6.00	1.0	120	14.5	1.350	0.498	1.147
1030.0	1029.9	6.00	1.0	120	12.0	1.350	0.516	1.107
1031.0	1030.9	6.00	1.0	120	11.2	1.350	0.523	1.093
1032.0	1031.9	6.00	0.9	120	11.9	1.350	0.510	1.120
1033.0	1032.9	6.00	1.0	120	15.9	1.350	0.489	1.170
1034.0	1033.9	6.00	1.0	120	13.7	1.350	0.503	1.136
1035.0	1034.9	6.00	1.0	120	12.7	1.350	0.511	1.119
1036.0	1035.9	6.00	1.0	120	11.1	1.350	0.524	1.092
1037.0	1036.9	6.00	1.0	120	15.2	1.350	0.493	1.160
1038.0	1037.9	6.00	0.9	120	12.3	1.350	0.507	1.130
1039.0	1038.9	6.00	1.0	120	11.6	1.350	0.519	1.103
1040.0	1039.9	6.00	1.0	120	14.9	1.350	0.495	1.158
1041.0	1040.9	6.00	0.9	120	11.5	1.350	0.514	1.116
1042.0	1041.9	6.00	1.0	120	10.3	1.350	0.531	1.079
1043.0	1042.9	6.00	0.9	120	10.4	1.350	0.523	1.097
1044.0	1043.9	6.00	1.0	120	11.5	1.350	0.521	1.102
1045.0	1044.9	6.00	1.0	120	13.0	1.350	0.509	1.129
1046.0	1045.9	6.00	1.0	120	14.3	1.350	0.499	1.151
1047.0	1046.9	6.00	1.0	120	13.2	1.350	0.507	1.133
1048.0	1047.9	6.00	1.0	117	12.5	1.350	0.510	1.127
1049.0	1048.9	6.00	1.0	117	15.4	1.350	0.489	1.175
1050.0	1049.9	6.00	1.0	117	21.7	1.350	0.455	1.264
1051.0	1050.9	6.00	1.0	117	20.0	1.350	0.463	1.242
1052.0	1051.9	6.00	0.9	117	12.7	1.350	0.502	1.147
1053.0	1052.9	6.00	2.0	117	14.9	1.350	0.541	1.116
1054.0	1053.9	6.00	2.0	117	16.7	1.350	0.529	1.142
1055.0	1054.9	6.00	2.1	117	16.9	1.350	0.531	1.138
1056.0	1055.9	6.00	1.9	117	17.2	1.350	0.521	1.159
1057.0	1056.9	6.00	2.1	117	15.9	1.350	0.538	1.124
1058.0	1057.9	6.00	2.0	117	15.2	1.350	0.539	1.121
1059.0	1058.9	6.00	2.1	117	14.3	1.350	0.549	1.101
1060.0	1059.9	6.00	2.2	117	13.5	1.350	0.559	1.082
1061.0	1060.9	6.00	1.9	117	14.9	1.350	0.537	1.127
1062.0	1061.9	6.00	2.0	117	12.3	1.350	0.561	1.079
1063.0	1062.9	6.00	2.0	117	12.2	1.350	0.563	1.076
1064.0	1063.9	6.00	2.0	117	11.6	1.350	0.568	1.067
1065.0	1064.9	6.00	2.1	118	16.4	1.350	0.535	1.132
1066.0	1065.9	6.00	2.0	119	15.6	1.350	0.538	1.128
1067.0	1066.9	6.00	2.0	119	13.9	1.350	0.550	1.102
1068.0	1067.9	6.00	2.0	119	11.6	1.350	0.570	1.065
1069.0	1068.9	6.00	2.0	119	13.9	1.350	0.550	1.103

M Depth m	V Depth m	Bit Size inches	WOB ton	RPM	ROP m/h	MudWeight g/l	DXC	PoreGrad Kg/cm ² /10m
1070.0	1069.9	6.00	1.9	119	11.8	1.350	0.564	1.076
1071.0	1070.9	6.00	2.0	119	16.7	1.350	0.531	1.144
1072.0	1071.9	6.00	2.0	119	18.5	1.350	0.519	1.170
1073.0	1072.9	6.00	1.9	119	20.8	1.350	0.503	1.132
1074.0	1073.9	6.00	2.0	119	16.7	1.350	0.531	1.073
1075.0	1074.9	6.00	2.0	118	17.5	1.350	0.524	1.087
1076.0	1075.9	6.00	2.0	118	18.9	1.350	0.516	1.104
1077.0	1076.9	6.00	1.9	118	18.5	1.350	0.515	1.108
1078.0	1077.9	6.00	2.1	117	25.0	1.350	0.488	1.168
1079.0	1078.9	6.00	2.1	117	28.6	1.350	0.474	1.205
1080.0	1079.9	6.00	2.1	117	25.6	1.350	0.486	1.176
1081.0	1080.9	6.00	2.0	118	19.2	1.350	0.514	1.111
1082.0	1081.9	6.00	2.1	118	23.8	1.350	0.495	1.155
1083.0	1082.9	6.00	2.0	118	24.4	1.350	0.488	1.170
1084.0	1083.9	6.00	1.9	117	22.7	1.350	0.492	1.163
1085.0	1084.9	6.00	2.0	118	22.7	1.350	0.496	1.153
1086.0	1085.9	6.00	2.1	118	21.7	1.350	0.504	1.134
1087.0	1086.9	6.00	1.9	118	16.7	1.350	0.526	1.088
1088.0	1087.9	6.00	2.0	118	15.2	1.350	0.540	1.171
1089.0	1088.9	6.00	2.0	118	16.9	1.350	0.528	1.198
1090.0	1089.9	6.00	1.9	118	13.3	1.350	0.550	1.150
1091.0	1090.9	6.00	2.1	118	13.2	1.350	0.559	1.132
1092.0	1091.9	6.00	2.0	118	12.5	1.350	0.561	1.129
1093.0	1092.9	6.00	2.2	118	9.8	1.350	0.595	1.064
1094.0	1093.9	6.00	2.0	118	10.5	1.350	0.580	1.093
1095.0	1094.9	6.00	1.9	118	11.0	1.350	0.571	1.110
1096.0	1095.9	6.00	1.8	118	11.5	1.350	0.562	1.129
1097.0	1096.9	6.00	1.8	118	10.9	1.350	0.568	1.117
1098.0	1097.9	6.00	2.1	118	14.5	1.350	0.549	1.156
1099.0	1098.9	6.00	1.5	118	13.3	1.350	0.532	1.192
1100.0	1099.9	6.00	1.5	118	13.2	1.350	0.534	1.190
1101.0	1100.9	6.00	1.5	118	12.7	1.350	0.538	1.181
1102.0	1101.9	6.00	1.5	118	11.2	1.350	0.550	1.155
1103.0	1102.9	6.00	1.7	118	14.7	1.350	0.531	1.034
1104.0	1103.9	6.00	1.5	118	29.4	1.350	0.450	1.221
1105.0	1104.9	6.00	1.4	118	34.5	1.350	0.429	1.281
1106.0	1105.9	6.00	1.5	118	31.3	1.350	0.443	1.240
1107.0	1106.9	6.00	1.4	118	24.4	1.350	0.465	1.183
1108.0	1107.9	6.00	1.6	118	20.0	1.350	0.494	1.113
1109.0	1108.9	6.00	1.6	118	19.6	1.350	0.496	1.109
1110.0	1109.9	6.00	1.6	118	18.9	1.350	0.500	1.100
1111.0	1110.9	6.00	1.5	118	22.2	1.350	0.479	1.150
1112.0	1111.9	6.00	1.6	118	26.3	1.350	0.465	1.184
1113.0	1112.9	6.00	1.5	118	17.9	1.350	0.502	1.099
1114.0	1113.9	6.00	1.5	118	13.9	1.350	0.528	1.045
1115.0	1114.9	6.00	1.5	118	18.2	1.350	0.500	1.104
1116.0	1115.9	6.00	1.5	118	18.5	1.350	0.498	1.108
1117.0	1116.9	6.00	1.6	118	20.8	1.350	0.490	1.127
1118.0	1117.9	6.00	1.5	118	17.2	1.350	0.505	1.093
1119.0	1118.9	6.00	1.4	118	14.5	1.350	0.519	1.065
1120.0	1119.9	6.00	1.5	118	21.7	1.350	0.481	1.237
1121.0	1120.9	6.00	1.5	118	22.7	1.350	0.477	1.249
1122.0	1121.9	6.00	1.5	119	14.9	1.350	0.521	1.143
1123.0	1122.9	6.00	1.4	119	10.6	1.350	0.551	1.081
1124.0	1123.9	6.00	1.5	119	12.7	1.350	0.539	1.107
1125.0	1124.9	6.00	1.5	118	15.9	1.350	0.514	1.160
1126.0	1125.9	6.00	1.5	119	14.3	1.350	0.526	1.134
1127.0	1126.9	6.00	1.5	119	9.7	1.350	0.566	1.054
1128.0	1127.9	6.00	1.4	118	14.3	1.350	0.520	1.148
1129.0	1128.9	6.00	1.5	119	11.0	1.350	0.553	1.079

RAPPORTO FINALE
WELL : JOLE 1

SEZIONE VI

ALLEGATI

- Master Log	PLOT
- Log Manifestazioni	PLOT
- Log Interpretazioni	PLOT
- Log Geologia	PLOT
- Log Parametri di Perforazione	PLOT
- Sigma Log (SCALA 1:10.000)	
- Sigma Log (SCALA 1:1.000)	PLOT
- D Exponent (SCALA 1:10.000)	PLOT
- D Exponent (SCALA 1:10.000)	PLOT
- Supporti magnetici	