Proje	ect :	C	ORE	J CONSULTANTS INC. DRILLING AT AL DHAID 45 Borehole No. : B	1				WIS wing N))) 4	100 502
Type Casi	ond ng Di	Dic epth	n) (n m) (: Rotory nm) of Drilling Tool : Wire-Line): 15.00): 140	- Dio	Rel. We mond Storted Ended	HQ F on	Lev		: 180 : 11/ : 29/	⁄ 06	/95
LEVEL (m)	Scols STRALA	THICKNESS	STRATA	DESCRIPTION OF STRATA	t.c.r.		۲ 20:0 20:0 20:0 20:0 20:0 20:0 20:0 20:	Blow count	S.P.1.	06PTH (m)	SAM O'O	<u>ع</u> [
		0 0 0 0 0	· • • • • • • •	Compact, brown to dork brown, equidimensional, rough, medium grained slightly sity (<5%). SAND and brownish grey, medium to coarse grained, that and elongated, sub-rounded to sub- angular, rough GRAVEL, well graded. GRAVEL becomes pre dominant. Gravels of upto 70mm in diameter are found at								
· · ·		0 0 0 0		Rock fragments of gobbro are found at 2.50m - 3.50m - weakly cemented sand with gravel often interbedded with thin calcite								
		0 0 0 0		4.00m - Grading Baht brown.WEAKLY CEMENTED SAND WITH GRAVEL. silty. 4.75m - week cementation, often coloite veins are found. 7.50m - gravet fragements of carbanate timestone. These wadi gravet deposits are seemed to be originated as detritiol deposit.								
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DCPTH BELOW HORKERC LEVEL (m)	STRAIA	STRATA	description of strata	<u>ي</u> ×	.ភ្ល័ ៖ 	e L	칠 ×	Riow: count	אַ אַ אַ	YIL (w)	U.D.	Dist	Woter Cripth (m	
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15.00	 	<u>° ° °</u>	And the transformed black.										I	
		[_]	Light whitish brown, fine grained highly weathered, very weak to moderately weak. friable, calcareous MUDSIONE. Recovered as kmps from 15.00m to 16.50m Poor recovery. Small cracks have developed along the bedding planes at some places with potches of black pyrolusite. 16.50m Development of orange brown oridation.			:-	: • • •							
l İ			Recovered as kimps from 15.00m to 16.50m Poor recovery										:	
			Small cracks have developed along the bedding planes at some places with calches of black overdusite.		Ì					16.00			16.10	
	-		16.50m Development of orange brown oxidation	38	7		1			. •	1			
		E=1	Nichty froctured at about 16.80m and Highly froctured at about 16.80m and 18.00m to 18.10m. 18.65m very line grained, smooth.											
	1			∖ J		-	ר			17.10				
		[]	Dork brown. Highly fractured, weakly cemented.sub- rounded, elongated, gravel, CONGLOMERATE is found from 19.00m-19.35m and from 19.60m to 19.80m.											
			19.00m-19.00m 0nd from 19.00m to 19.00m.	`7 .	68		38				2			
	}			<u> </u>						18.40				
		[-]												
	8.00			94	65		43				3			
				ļ!		ŀ				19.35				٥
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		E=]												PACE
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-				100	67		44			· · ·	4			
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				100	66		42	:			5			BOKLHOLL
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BCLC MING	E	STRATA	STRATA SNUBOL	description of strata		5 8	3.5	8	20.0	×	.000	Votue	₩ag €	0,0	Diel. Woler	(m) ndia
OCPTH BELOW WORKING	3 3	6.5	ឝន		÷	<u>کر تر</u> ارارارار		đ		1.1.	Olow.			°	<u> </u>	å
		<u> </u>	1-1-1			للجا لافتيني		Ľ	[[°]]	Ť				Π		
ł				:		100	66			42				·		
	Ĩ		E-1			100	00			1						
	Ĩ	i.60				·						н. С	24.00			
			F							<u>к</u>						
24.6						100		47	- 1				· ·	6		
<u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	¥.			Massive, whitish with accessional brown				2								•
				stoins, weak to moderally weak, moderally weathered CALCAREOUS		<u> </u>		<u>-</u>					25.00			
				Massive, whitish with ocassional brown stains, weak to moderally weak, moderally weathered CALCAREOUS LMESTONE open slickensided joints, often interbedded with elongaled, sub-rounded gravel.opproximate 50%						ļ						
-	l.			sub-rounded grovel.opproximate 50%									н.			
	·H		F	corbonale. 28.80m -friable, highly fractured. very small voids of mm to 1cm in diameter are found. 29.95m - highly weathered to form as	2											
	Ĭ		三日	diameter are found.		100	88		51					'		
			μī													
	ľ		날리	30.00m - small voids are filled with dark brown, silty sand 31.00m-31.40m - highly fractured and ogain at 33.60m 33.90m and at 34.20m.				•		_ [· · [
				31.00m-31.40m - highly froctured and cooling at 33.60m 33.90m and at 34.20m									27.00	ĻĮ		
			는무	35.90-36.15m Grading dark brown.								1				
	Í	Į	臣	-			1					:				
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	1			· · ·		93	91		57					8		:
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E SE	s a S	50		5 %	CORE QUALT	1	Junoo	거 3 3	ĕ ∽			5 E
DCPTH BELOW	STRAIA	Source	description of strata			ş ×	- N -	L	HL430	.0.0	Dist.	Woler Depth (m)
36.20	.20			l an	<u>i li li li li</u> li		6	սիկել		$\left - \right $		
	.4		Whitish, fine grained, moderately weak, moderately weathered CALCAREOUS NUOSTONE	99	82 82	62						
36.60	[]	Ē	n presence of white carbonate along the	33	02	02						
			begding planes. Whitish with occosional brown stains. moderately weak, moderately weakhered.			<u> </u>			37.00			
			L Aslassing LUU STONE DOG MODER									
			open stickensided joints, voids of upto									
	2.1:		présence of corbonate is moré evident.									
	Í.	F-		99	93	74			•	12		
38.75				. 								
			Whitish, very weak, highly weathered and recovered as lumps upto 40.75m. CALCAREOUS MUDSTONE approximate 35-65%]			39.00			
	H		CALCAREOUS MUDSIONE.opproximate 35~65% carbonale.			1					1	
		F	40.75m - Groding weak to moderately									
		F	weck, moderately weathered, fine grained, sub-vertical joints. 41.55m -43.15m - highly weathered to	100	i 1 - k	i 1				13		
			- completely weathered. - 43.15m — completel, moderately weak,			· ·						
			sight weothered.									
			Core quality improving below 43.15m.	ļ					40.75			
			· ·	100	71	28	÷.			14		
	h				'' `				41.55			
	5.70	E-1			25	۲.				15		
	Į	E		100			Ι.		41.95			-
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		E					:					
	1											
		<u>L</u>		100	67	47				16		
								i g				
					:			· .	:			
44.45												
		10	Whitish with occassional brown stains, moderately weak, moderately weathered,									
		I	oppo volds GRAVELLY LIMESTONE	L					44.95			
	H	1÷	Gravels usually elongate, sub- rounded cemented by a white carbonate cement 48.00m- Grading brown,									
	ļ		Highly weathered from 48.70m to 49.0m 49.30m - 50.00m. Competent, which		· 1				1997 - 1997 1997 - 1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1			4/16
			with some brown stoins, moderately week, moderately weithered, horizontal/ sub-horizontal joints.									
	Î :	F	sub-horizontal points.							17		PACE
		1÷	doformiticLIMESTONE. small open voids of maximum 1cm in	91	- 84	71				. 1		a
	4.55		diameter are found. Grovels cemented by a white carbonate				÷					
		ļ	cement.					1				
		臣中										
		1÷	-	<u> </u>]		┝┲┛╣	1		47.50			1
	1	To the second se		100	53	40			48.00	18		Q
	1											
	l)			100	74	58		· .		19		BORFHOLF
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	I				ل <u>ا</u> ــ		<u> </u>	I	50.00	Ļ	إجبا	└───┤

Ap3-158



DCPTH BCLOW WORTHC LEVEL (m)	X.OK	STRATA	STRAFA	description of Strata	× č	<u>xio 3703</u> & č.		ж	Dior count	SPT.	(m) (m)	0,0	Jer .	¥oler
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			•		· ·									
		1.00	•		100	74	58							
	Į.										50.00			
<u>50.00</u>				Whitish/ bluish arey, fine grained.		ļ	1	1						
÷				Whitish/ bluish grey, fine groined, sightly indurated, CALCAREDUS MUDSIONE, very closely spacedjoints obsence of pyrolusite along the bedding planes.									1	-
	ĥ	 		obsence of pyrolusite olong the bedding										•
		1 1 - 1			100	92	8-				:	20	· ,	۰.
		1												
	Ľ										51.70			
	-	· :				<u> </u>	í) -					Π		
					.100	83	56					21		
						<u> </u>	Ι <u>Ι</u>				52.80			
		5.90			ľ						1			
	H													
	ľ													
					100	95	60	ľ				22		. ·
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	L													
							<u> </u>				54.80	$\left - \right $		•
		1												
		:												
55.90									-					
			ŢŦ	Whitish with occasional brown stains,	1									
			1=	Whitish with occosional brown stains, moderately weak, slightly weathered, closed joints with silly brown sond. Elongated, sub-rounded gravel usually cemented by a while corbonate cement. GRAVELLY LIMESTONE.	98	72	66					23		
	Ď	i.45	17	completely source investigation of the completely source of the complet					:	-				
			Ţ	GOVILLET DRESTONE.				÷	1					
57.35			<u> </u>		1 2						:			
				White, fine groined, moderately weak, shahiw weathered CALCAREDUS MUDSIONE.] :					
				offen interbedded with thin gravets of 64.15m and 65.65m -66.15m.		 		┦∶			<u>57.85</u>	┟╌┨		
	Û			64,75m-65.65- Grading pinkish white, socoy texture	100	95	ES		ļ		1	24		
				65.95m-69.55m- Light bluish grey, weak							58.60			
				White, fine grained, moderately weak slightly weathered CALCAREDUS MUDSIONE. often interbedded with thin gravets at 64.15m and65.65m -66.15m. 64.75m-65.65- Grading pinkish white, socov texture 65.95m-69.55m- Light bluish grey, weak to moderately weak. obsence of pyrolusite and white carbonate along the bedding planes.] -						
	Y		<u> </u>											
		•						1	[:]					
	Ú	4.65	<u>t</u>		75	95	60	1	-	· ·	1	25	1	
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					100	93	7				1	26		•
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	ll		<u></u>	<u></u>	<u>.</u> 1	J			L	L	63.85	9l		
				Ap3-159	•						:			

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NCPTH BCLOW WORKING LONL (m) Scale	s Ki	STRATA	DESCRETION OF STRATA	1.c.r.	% <u>5</u> °	s X	50 mil	Yotue	(w) 14430	00.	ي ا	Water Depth {m}
NOR IN LOGIC	ATANTA ATANTA	В.S.	Of Jean Index of Jarvan					յ սեկել	ä	Б	0.9L	2
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				100	93	79						
							2.5	· ·				
- Iñ	· ·			· ·					63.85			
ĺ		F <u>-</u> -		100	90	40			64.15			
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] ·	<u>t</u>										
	Í	F										
				95	92	81	- <u>-</u>			30		
								· .		1		
<u>9.55 </u>										ŀ		
		ΗĪ	Brown, moderately weak, moderately weathered, sub-rounded to sub-angular gravet weakly cemented together.open				1		69.85	<u> </u>		
		1	grovel weakly cemented together open									
	1.25	17	joints GRAVELLY LIMESTONE with occoosisional small valds (Tcm) Presence of corbonate more evident below									
			/I.Um.									
<u> 03.0</u>			Highly fractured at 70.45m.	{								
			Pinkish white, fine grained, moderately weak, moderately weathered CALCAREOUS WUDSTONE.	1								
·			MUDSTONE.	98	93	63				31		
		E			1							
	1.95											
l II] '								1 .			
]	[
12.15				1					72.85		1	
		1	Whitish with occosional brown stains, moderately weak moderately weathered								1	4.5
		무귀	very closely spaced joints, voids]						1		
		ΠĘ	moderately weak, moderately weathered, very closely spaced joints, voids ronging from mm to maximum tom in diameter are found, dolomitic	1 .								
	1.70		/ LIMESIONE. Voids often filled with greenish clay.					· · ·				
	ł		Larstons, Voids often filled with greenish cloy. 72.75m-72.95m - presence of black chert os thin nodules. 73.35-73.65m- Groding	98	\$3	59			· · ·	32		
, <i>.</i>	1	<u><u></u></u>	nighty weothered.					1	1			1.
74.45	 		Pinkish white, fine groines, moderately weak, soopy texture, CALCAREOUS MUDSTONE	4					1	ľ		
ļ	.55	<u>L-</u> _	HEOK SOOLY LEADER, CALCAREOUS									
		1	highly froctured from 77.45m to 78.15m.	1	l	и.,:	Ĵ,	1	75.00	1::	1	I

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	LEVCL (m) WORKING DEPTH BELOW	Stole	STRATA	STRATA	DESCRIPTION OF STRATA	5 8	. ų ×	2.	80°	r count	V. Volue	(w) H1430	0.0	36	Water Depth (m)
	۲¥۶		°.≇	<u> </u>		մեհե	الملط	կի	հոր	8	մորը				<u> </u>
ſ						100	90		90						
								4]			<u>75.50</u>			
						100	100		83			75.85	34		
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	· · .	L.	3.85						1						
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-		ł													÷ .
		'n													
		İ													
		ľ		L		·						78.85			
	<u>3.85</u>	Π		 	Weak, dark brown, highly weathered.			ιμ	L	i					:
1					Weak, dark brown, highly weathered, highly weathered, sandy/cloyey UMESTONE Completely weathered to form silty sand at 81.00m. Poor care recovery.		:								
				루그	of 81.00m.	95 .	83		23			1	36		
					Foor core recovery.	1 1		$\ $							
		Ļ	2.25	=-I)		ļ	ļ	1	<u>ц</u>	:		80.00			
		H		計						÷ .					
		Ľ.				100	64		33				37		
		H		1				•				, :	ļ		
L	81.10						ļL	┓┝	1			81.10	┣	ł	
			:		Brown, moderately weak, moderately weathered, sub-rounded gravels cemented by a dark brown, sity sand. GRAVELLY LIMESTONE with accosional small								38		
		ĥ	.90	-7	by a dark brown, sitty sand. GRAVELLY UNESTINE with percasional small	100	84		67			6.00	ľ		
	82.00			┝╧╤┥	voids 81.70m Completely weatherd to form sity	<u></u>	r-	۱ŀ				81.85			í
ſ				E1	l sond.										
					Whitish, fine grained, moderately weak. CALCAREOUS KUDSTONE, sub-vertical				· .						2
l					joints.										
1		Щ			Highly fractured from 82.90m to 84.85m				· · .			19 10			
					Rock quality improves from 84.85m. Presence of block avrolusite aboa the								39		
					A.S.M. Rock quality improves from 84.85m. Presence of block pyrolusite along the bedding planes Often interbedded with elongated, sub-rounded grovels from 87.10m - 87.85m and 91.45m - 91.90m.	100	59		3				ľ		,
					sub-rounded grovels from 87.10m - 87.85m										
		ľł			GRU ST. Son - St. Son - 90.55m and - Naby weathered from 88.15m - 90.55m and -			ł					1:		
					Highly weathered from 88.15m -90.55m and 92.80m - 93.75m.										
		lh	•							 .		84.85	ŀ		
	1			<u>t</u>			<u> </u> L	٦ŀ	7			<u> </u>		1	
	1.1		6.00									1			
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		10	1.1	L			1			1		87.85	1	1 1	

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BCLOW	(m) Jacobase Mocorde	STRACK STRACK	STATE	DESCRETION OF STRATA	<u>۶</u> ۲		ភ្ល័ <i>ጽ</i>	şi x	Clow count		-то (ш)	0.0 1	0.91	Noter Depth (m)	
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95	<u>5.85</u>]	E=-	}	· · ·		Ŀ				96.70	$\left \cdot \right $	-		
				Whilish with occasional brown stains, moderately weak, slightly weathered,											
			Ę	Whitish with occasional brown stains, moderately weak, slightly weathered, DOLOMTIC LIMESIONE often found with inclusions of sub-rounded gravels.			:		· 2				:		۵
•		2.00											·		8/16
		2.00			93		80 [:] 03	29		•••		47		÷ •	PAGE
	.				50		~ .	1 29				["]		,	2
. 95	3 85		朣			1									
				Whitish, fine grained, weak to moderately weak, CALCAREOUS MUDSTONE Development of black pyrolusite along the bedding planes and sub-vertical						· ·					
ŀ			E	Upvelopment of block pyrolusile glong the bedding plones and sub-vertical											-
			<u> </u>	joints.	·	╁╌					99.70	$\left - \right $		- 	1 0 0
		2.15	` - <u>-</u>										:		о N N
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DCPTH BCLOW WORKING WORKING	No.	STRAKA	STRATA	DESCRETION OF STRATA	» ڭ الىلىلى			×	Blow count	يليليان. ≹ ∡	HLd3Q	a'n	Det Det	Woter Depth (m)
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		, A			98	93		33				49		
104.70	H		L							:				
(<u>U%.7U</u>			1-	Whitish with occasional brown stains,]					. :	ĺ			
	h	1.00		Whitish with occasional brown stains, fine grained, moderately weak, moderately weathered GRAVELLY LIMESTONE.										
	l	1.00	Ī-	GRAVELLY UNESTONE.							· ·			
105.70	Û						╟─┞┑				105.70	╁┦		
	U	1		Whitish, fine grained, moderately weak CALCAREOUS HUDSTONE, slightly weathered. sub-horizontal joints. Absence of block pyrolusite along the bedding planes.	· .						·			
		1.10	F	sub-horizontol joints. Absence of block pyrolusite along the							· ·			
-	h		È	bedding planes.										
106.80	ŀ			Whitish with occasional brown stains										
	ľ		7	Whitish with occasional brown stains moderately weak to weak, joints often infilled with silty sand. 111.70m – Grading more whitish, slightly weathered Voids often filled with alay, moderately weathered to slightly weathered. Rock quaity improves below 117.80m. Gravels are usually elongated, sub- raunded to sub- angular. Gravels cemented by brown sand below 123.35m. Voids upto 30mm in diameter are found. DOLOMINC LIMESTONE.	99	95	55					50		
	-		21	Groding more whitish, slightly weathered					•	- 44 - 14				·
		-	Żţ	weathered to slightly weathered. Rock	1				•	÷				2
			1	Gravels are usually elongated, sub-							· ·			
	,		过	cemented by brown sond below 123.35m.										
	ľ		廿	DOLOMITIC LIMESTONE.							105.70			
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OCPTH BELOW WORKER WORK	STRATA	STRATA	description of strata	15. 8. 8	8.5	R00. %	iow count	بالاليان بي ي	₩ Co Co	50°	Diet.	Voler Depth (m)	
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		31			· · ·				131.85	:	-	1	. 1
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					88	48				58			
				92	65	40				Ň			
123.35		4	Table and the second second						123.35	-			٩
		H.	Light greenish, weak, moderately weathered, sub-rounded gravels cemented togetherby a white carbonate cement, froctured CONGLOMERATE.	100					123.70	59			10/16
	1.25		Froctured CUNGLOMERATE.	100	67	26	:	1		60			PACE
124.60	 		Light acception are think harmonian									· ·	
			Light greenish grey, Winty laminoted, moderately weak, CALCAREOUS MUDSTONE. sub- honzontal joints.						124.90				
													1
	2.00			93	90 -	65				61			0 V V
			· · · · · · · · · · · · · · · · · · ·										
126.60	.40		Light greenish, moderately weak to weak, CONGLOMERAIE, moderately weathered to highly weathered 127.20m- 127.90m- Highly fractured.	63	62	56			126.70				BOREHOLE
LI	Į	<u> </u>	127.20m- 127.90m- Highly fractured	<u> </u>	07		<u> </u>		129.45	12	Ľ.,		

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·			1.20	L'A										
		·												
	128.	20	[]		We State - and a set of the state of the state of	89	62	56						
•]	7,	Whitish green, moderately weathered, moderately weak, open joints Occasional smail voids are found. (Icm in diameter) Highly weathered below 132.cm, 133.0m - 135.70m. Whitish, thinly laminated, fine grained, moderately weak, DOLOMING LIMESTONE with occasional small voids. 135.70m - Highly to completely weathered so as to recover as carbonate lumps, very weak, very poor rock quality.	1								
· · ·				35	Highly weathered below 132.0m, 133.0m -									
			j :	21	fine grained, moderately weak, DOLOMITIC LIMESTONE with accasional				:					n n N h
te de la composition la composition				12	small voids. 135.70m— Highly to completely weathered	100	100	100	:		129.45 129.70	63		
		┢		<mark>لأ</mark> لكا	so os to recover as carbonate lumps. Very weak, very poor rock quality.	<u></u>	- 100				<u>'43.19</u>			1 - L
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	Š	THECHOESS	SITURA	description of strata	28	1.0	8	S X	8	¥ 💈	H1430	ġ	0 PC	Voler Depth (m)
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		1	51								141.52 141.70			
.80			37		100	5	5	h 1	19		141.70	69		
				Whitish, fine grained, moderately weak, CALCAREOUS KUDSTONE, mudstone is more broken up and friable at depths.							1 . 1			
	1			mudstone is more broken up and friable										
·	Į.			ot depths										
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.60			<u>-</u>								144.70			
		· · ·.	19	Whitish grey, moderately weak to weak, intrerbedded with sub-rounded grovels from 145m-145.20m. 147.45m - Whitish, very weak. Presence of carbonate more evident below 147.45m. Rock highly triable and broken into pieces. Rock quality improves from 145.35m to 151.0m. Thin bands of blackish chert at 151.0m. CALCAREOUS LINESIONE. Highly weathered below 151.0m.		i	- ']	h	-		194.70			
			12	from 145m- 145.20m.										
	H		151	147.45m - Whitish, very weak , Presence of carbonate more evident below					-					
;			$-\frac{2}{3}$	147.45m. Rock highly triable and broken					•					
:			21	14S.35m to 151.0m. Thin bonds of	1		· .							
- 1			ᆟ	CALCAREOUS LIMESTONE.	98	7	2	23			2	71		
			51	Fighly weathered below 151.0m.							1			
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DCPTH OCLOW WORKING LEVEL (m)	ýoy.	STRALA	STEALA	description of strata	S. K.	ర్ష న స్త్ర ని	800	or count	SPT # Mark	(w)	U.D.	Water Death (m)
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			12		100	1	1				78	
159.80			封		<u> </u>	l	h.			159.70	┟╌┨	
				Whitish green, very weak, completely weathered to highly weathered CALCAREOUS MUDSTONE Completely weathered from 160.10m- 160.40.								
				NUDSTONE Completely weathered from 160,10m-								
	IN			160.40. Research as heres						l p		
ſ				Recovered as turnos 164.20m- 165.00m - Brown stains are								
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(w) 1000000000000000000000000000000000000	STRATA	STRATA	DESCRIPTION OF STRATA	8. ICR	SC 8	8		tion count	Volte	(m) DCMH	0.0	Diet	Voler Depth (=)	
170.10 	1		Whitish arey, moderately weak GRAVELLY LIMESTORE.slightly weathered.			1]
	1.00		LINESTORE.slightly weothered.							-				
167.10		H												
			Greyish green, weak, fine grained CLAYSTONE with inclusions of sub-rounded	94	87		40					•		
			gravels at 168.80m. 168.95m— Grading whitish grey with											
			Grevish green, weak, fine grained CLATSTONE with inclusions of sub-rounded gravels at 163.80m. 168.95m- Grading whitish grey with increased presence of corbonale. CALCAREQUS MUDSTONE? Presence of thin bands of gravelly Emestone from 169.90m to 170.45m.			:								
			Imestone from 169.90m to 170.45m.					•				5		
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	4.55							•					:	
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	:									:				
171.65		I	Whitish, very weak, highly fractured,			•		:					-	
		Ī	Whitish, very weak, highly fractured, CALCAREOUS LIMESTONE, massive Recovered as lumps of carbonate, friable, poor rack quality. Otten completely weathered to form sity		1									
		E	Often completely weathered to form sity sond.								. :			
		- <u>-</u>	sond. Gravely limestone becomes dominant from 176.70m to 177.70m.	9 9	63		17				: 84		n en Dese	
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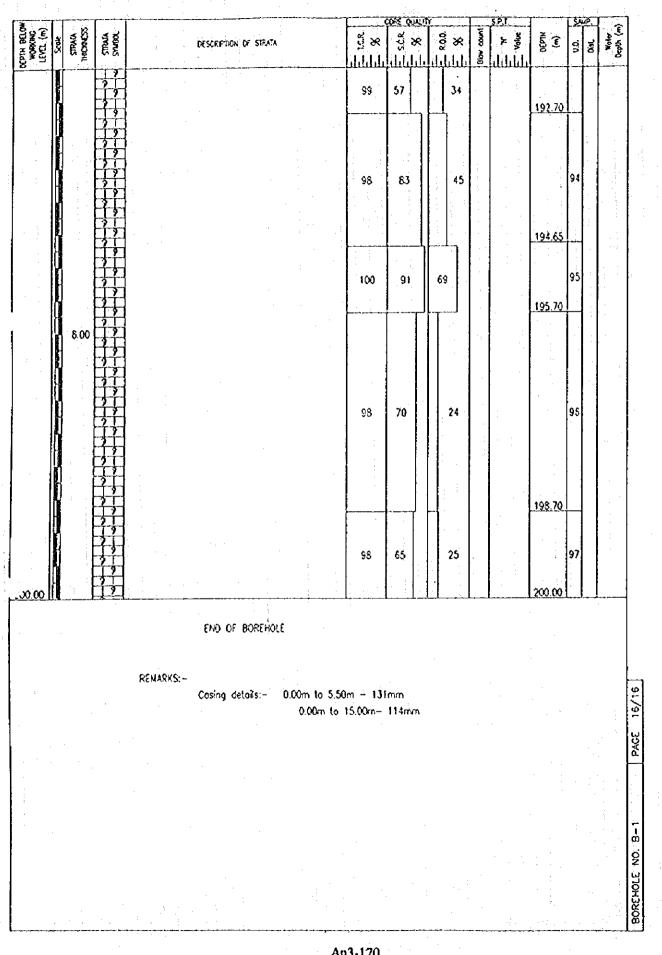
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DEPTH BCLOW WORKING LEVEL (m)	Scole	STRATA TIRCOCSS	STRAKE	DESCRETION OF STRATA	5 X	5 X		-Source	,¥ A	λ (Ψ)	o ro	Water Depth (m)
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	Ì		17		}		1			180.70		
181.00												. ·
			F	Whitish, fine grained, very weak, highly weathered CALCAREOUS MUDSTONE.								
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187.70				Whiteh moderately year to work fine	99	70	22		1		91	
	H		175	Whitish, moderately weak to weak, fine grained CALCAREOUS LINESTONE with occasional thin bands of very weak colcareous mudstone from 195.95m to 196.55m.							.	
			1	coloreous mudstone from 195.95m to								
	ľ		11	Often completely weathered						188.70		
			21	Often completely weathered Grading Fight green belaw 197.55m. Occasional small open voids of maximum tem in diameter ore found.					i			1 :
÷ .			21	Tem in diameter ore found.	100	75	52				92	
			ゴ									
	Ш		21							189.70		:
		4.30	37							i .		
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	ect : (No. : {		DRILLING, ALDHAID, SHJ 45 Borehole No. : 8-	2	· · · ·		no Dra	wing N	o. : E	- 45	03
Meth	od of	boring	: Rotory	-	Rel We	orking	Lev	et (m)	: 154	.00	
			nm) of Drilling Tool : Wire-Line -	- Diar	nond	HQ					
Casi	ng Dep	th (m): 22.50		Storted	on			: 05/		
): 140		Ended	ón			: 20/	'07/	95
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ESE	SCOLE STRATA THICKNE	STRATA	DESCRIPTION OF STRATA	2.8	80 W	2.8	Ŭ ≩	- 0	ОЕРТН (m)	U.0. Dist.	Woler
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		៰៓៰	Brown, fine to coarse SAND and GRAVEL GRAVEL etangated, sub-rounded to						· .		
		៰៓៰	sub-oungular.			i du		a a			
		0 0 0	2.30m- cemented sond interbedded with grovel.				•••				
			2.50m- Whilish cemented by corbonote recovered as lumps. 3.00m- Grading to brown with cemented								
		\circ \circ	pieces.		· .	:					
		၀ို့၀	3.80m-4 cemented wool gravet gravet cemented together by silty sond.								ľ
		° °	šilty sond. 4.50m- Groding dork brown with								
			4.50m – Grading dork brown with ophicitle gravel 5.50m – Grading whitish, sity, presence of corbonate is more						:		
	1	۰° ۵	presence of corbonate is more evident.				•				
		៰៓៰	ENDON.								
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		ه ّه •							7.30		
7.30			Whilish brown, weak, sub- rounded		· .				<u>, , , , , , , , , , , , , , , , , , , </u>		
7.60			gravels, weakly cemented together by white carbonate. CONGLOWERATE.				ļ				
			untern tion around moderately wear								
, N.		╞═╘╡	moderately weathered, very closely spc:ed joints, CALCAREOUS LIMESTONE. atten with inclusions of gravel at	100	100	100			ļ		
:		그녁	7.60m.	1							
	2.40										
		同時		}	 		{.	1.1	9.20	 .	
en en en en en en en en en en en en en e				98	98	83				2	
									10.45	 	

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(W) TJUT SHINGM MOTHERION	STRATA	STRATA	description of Strata	ញាក្រក្រ ភ្លឺ %	ilililil S &		Blow count	n⊓µn⊓ ⊁ ≱≱	(w)	.c.o	Diel	Voler Depth (m)	
10.55	.55		Brown, weak, sub- rounded to sub-ongular gravels, weakly cemented CONGLOMERATE. highly weathered.	98	98	83			10.45		:		
	2.10		Whitish, moderately weak, moderately weathered GRAVELLY LIMESTONE with accasional open voids. Gravels elogent voids, sub- rounded to sub- ongular. Joints infilled with silty sond.	65	δ2 	58			12.20	3			
12.65	4.95		Light brown, highly to completely weathered, very weak to weak CONGLOWERAIL Completely weathered to form as gravel sized fragements at 14.00m to 14.25m and from 15.65m to 15.85m. Gravels weakly cemented together by a white corbonate. Completely weathered from 17.20m to 17.60m.	95 85	67	51			14.25	4		15.50	
17.60				56	31	26			<u>15.85</u> 17.60	6		10.50	
	2.40		Greenish grey, highly to completely weathered MUDSTONE with some inclusions of grovel 18.45m - 20.00m - whitish, fine grained weak, CALCAREOUS MUDSTONE. Black pyrolusite is found along the bedding planes.	49 93	1 71	56			18.05 18.80	7 8			
20.00	1.50		Light brown, weak to moderately weak, fine to medium grained sondy UMESIONE 21.50m- 21.80m - Grading to gravely LMESIONE. Gravels usually elongated, sub- rounded. Small open voids are found at 21.80m.	98	95	94				9			PAGE 2/24
21.80	1.80	3 1 1 1 1 1 1 1	Whitish, fine groined, moderately weak, moderately weathered CALCAREOUS NUDSTONE with accasional black pyrolusite along the bedding planes and sub-vertical joints.	99	89	75			21.15	10			BOREHOLE NO. 8-2
									23.65		L.		8 8

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308		8	125			CORE QUAL		1 E	373	<u> </u>	154		. E
DCPTH BCLO WORKING LEVEL (m)	Scole	STRATA	STRATA	DESCRIPTION OF STRATA		1 y x	0° %	CO.	¥ ×)11030	ġ	DeL	Water Depth (m)
Ę¥≥.		۲ <u>چ</u>	50		: hhibb	փիկվ	بالألبر	1 8	վերը				8
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	Į.		L		99	89	75						
	ĥ									23.65	 		
		1.80	[-]	· · ·			Ĩ						
	K	1.00				100					11	Į	
	H	1.19	F		94	94	89				l		
	K									24.65	L		
24.80						1		1					
• 1			ĿţĹ	Light brown, very weak, highly weathered sondy LIMESTONE. Joints infilled with silly sond. 25.65m — Grading whitish, fine grained moderately weak, moderately weathered. CALCAREOUS LIMESTONE, very closely	· · .			1		-			
		Í í	1 2	Joints infilled with silly sond.									
	K		12	moderately weak, moderately weathered,	. :							:	
	Н		H +	CALCAREOUS LIMESTONE, very closely		L È		1.1	-			· · .	
·	L.		25	spoced joints. 27.65m - Grading brown. 28.95m - Grading whitish. (presence of carbonate) 30.50m - Occasional voids mm in diameter		1						;	
1.1	k	:	21	28.95m - Groong whitish, (presence of carbonate)	96	93	78				12	:	
		ļ	44	30.50m - Occosional voids mm in diameter	· .							1	
			LT 2	32.10m — Becoming more sandy and									
• •			$ \{ \} $	32.10m — Becoming more saridy and gravelly. 32.10m —Grading light greenish.						:			•
			125			•	1	· ·	:	di di			
			廿廿	i			1			27.65			
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	H	<u>۱</u>						1.	1		•		
33.35		 	12										
2	h		°°`0	Dark brown, highly to completely weathered, CRAVELS, sub-rounded and generally clongated in shape. A highly fractured zone.						33 65		1	
1. 1. 1.	ł	1.1	° °	generally elongoted in shope. A highly						·			
	W		° °	J4.30m - 34, 50m - Completely weathered							1:		
			0 0	34.30m - 34. 50m - Completely weathered to form silly sord. 34.60m - Thin nodules of chert is							Ľ		
. :	I.	J. S. S.	00	34.60m - Thin noduces de cheri is found?								I	
			000		00	70	58				117		
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			r1			CORE QUALT	Y		SPT.		54	μP.	 م
DCPTH BELOW WORKING LEVEL (m)	\$ OF	STRUKA NINCORESS	STRATA	DESCRIPTION OF STRATA	2 X		a a a a a a a a a a a a a a a a a a a	Clow count		жаро 0Ср. м	n. O	DieL	Violet Depth (m)
<u>× -</u>		••••••	Ŀ	Light greenish to white, fine groined, weak to moderately weak CALCAREOUS	89	70	58				Ì		
				Weak to moderately weak catchedos INESTONE with accessional open voids. Presence of carbonate more evident below 36.65m. Voids are more frequent below 38.50m. 39.00m - 39.35m - Highly weathered Below 40.00m - voids are obsent. 44.65m - 45.10m - Grading brown and sandy. 45.10m -	95	75			· ·	36.45 36.65	18		
				36.65m. Voids ore more frequent below 38.50m. 39.00m - 39.35m - Highly							ŀ		
]		日	obsent. 44.65m - 45.10m - Grading brown ond sondy. 45.10m -				. :				1. 1.	
				46.90m - 48.30m - Grading brown, fine to					· ·			1	_
1			FT - 1	medium groined. Highly weathered with some grovels from 48.55m to 49.00m.					: '				
				10 00va - Eradiaa wayista jing nyakati	96	δ1	47				19		
1		· · ·		very closely spoced joints. 50.20m – 51.70m – Light brown with occasional brown stains, moderately weak moderately weathered, sub-rounded graves cemented together by white carbonate, DOLOWING UNESTONE 51.70U – 53.551L – Becorriso white line					:	· .			
:			F.T	grovels cemented together by white arrowles DOLOWING UMESIONE						· ·			
		:	E	51.704 - 53.954 - Becoming whitish line grained, weak/moderately weak, slightly				•		39.65			
	A		Ħ	51.70M - 53.95M - Becoming whitish, line grained, weak/moderately weak, slightly weathered.Slightly fractured from 57.10m to 57.65m, small voids from mm to 2cm in diameter are found. Becoming sandy at 60.55m, 60.65m - 52.10m - Brown, smach GRAVEL cemented together by fine chad		<u> </u>	<u> </u>		· ·	39.03	 		
	h		타	sondy of 60.55m, 60.65m - 52.10m - 8rown, sondy of 60.45m, concernented together by time						: -			
	Į			sand.					÷.			:	1
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	DEPTH BELOW WORKING LEVEL (M)	STRAL	THEORESS	STRAFA		DESCRIPTION OF STRATA		i i i i i i i i i i i i i i i i i i i	ជាជាបា ខ្ញុំ %	ililili 3 %	Dior count	ililili I	(m)	n n n	Woter Depth. (m)
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(w) TEVIT	STRATA	STRATA	OCSCRPTICH OF STRATA	1.c.R.	<u>بدہ عمر</u> بر پر	R.0.0.	<u>к</u> Ж	Blow-count	жазо	ο'n	Ciet -	Woter Depth (m)	
- 11	3	5	Dork brown, weak, CONGLOMERATE. Gravels usually sub-rounded and					-					
62.45 62.65	?		Velopooled .	{							2		
		Ľ	Whitish, weak, fine grained CALCAREOUS	96	91	87			1.1		÷.		3 5
			Brown, weak to moderately weak, CONGLOMERATE.	8									
	ų –		Cementation is brown sond and below 65.30m by white corbonate.						63.65				
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	2.9			5							1		
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				95	93	59				33			
. •				30						ŀ			
65.55		Er.											
<u>0.33</u>			White, fine grained, weak to moderately			. :							
ļ		TT-	- weak, CALCANEOUS EMESTONE, often - interbedded with thin bonds of			 			65.95				
		, F	White, fine grained, weak to moderately weak, CALCAREOUS LIMESTONE, often interbedded with thin bands of colcareous mudstone. Becoming gravely below 69.95m.	97	89	65		1		34			
		Í						•	66.65				
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		3			72		34			35			
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	l l												
									71.65				6/24
<u>11 75</u>	 		Whitish brown, weak, CONGLOMERATE	•••••••	 			:		1			ે
	Ô .	00	weakly cemented together by sond.	97	70	70				37	1		PAGE
	Ĵ.	00	Clight bluish chlorite? gravels are found below 72.55m.						77.64			1 A A 4	a
	ļ	00	Whitish brown, weak, CONGLOMERATE, weakly cemented together by sond. often highly fractured Light bluish chlorite? grazels are found below 72.55m. interbedded with thin bands of whitish, gravely limestone at 72.65m - 72.85m with inclusions of thin radules of enterbedded with thin radules of		╏──┤		L ا	:	72.65	' -			
	2.5	000	S with inclusions of thin nodules of Sectors							·			
		00	3									1. J	Ņ
	Ì	00	2										B-2
]	ļ	00	of Whitish, fine grained, weak to		84	57	d.			38			2
74.25		-	 Whitish, fine grained, weak to moderatley weak, slightly weathered CALCAREOUS LINESIONE with accessional thin bands algreenish mudstane. Highly fractured from 78.00m to 78.55m. Rock quality slightly improves from 78.65m. Voids filled with greenish mud below 	Ϋ́		н 1			÷.,			ļ	ы С Г Е
	1,	s	thin bonds ofgreenish mudstone. Highly froctured from 78.00m to 78.65m. Rock										BOREHOLE
		7	Voids filled with greenish mud below				:		75.65				ß
				Ap3-176							•		

	· · · ·	OCPTH BCLOW WORCHC LEVEL (m) Scole	STRACA	STRATA	· · · ·	· · · ·	DESCRP	tion of	STRATA	. :		1c.r. X	ວ <u>ະເ</u> ດຍ ຊື່ ຯ	2	الأليا & قُ	ow count	spt ≭ ³ / ₃	ыс Серчи (m)	5446	Note -	Oepth {m}
		8			80.35m, Becoming 81.65m- 82.95m- grained, Very clos	grav 82.9 Whiti weak.	velly be Sm~ (ish to DOLO	elov 8 CONGL light MITC	0.35m OMERAI brown LIVESTC	IIC LIME fine XNE	STONE.	ևևևև 98	111111 84		57 57			75.65			
				$\begin{array}{c} 2 \\ 1 \\ 3 \\ 3 \\ 1 \\ 3 \\ $	Very clos Becoming 84.75m grained.	ely si grov - 90.	paced vely fa .70m-	joints. om 8 Gradi	4.65m 1 ing whit	la 84.7 Ish, fin	5m. e	100	89		36				39		
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			13.00	2														81.65			
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	Т	1/2				CORE QUILIT		÷	<u>ŞP.t</u>		54	1P.	?
(W) TENET		STRATA	STRUCT	DESCRIPTION OF STRATA	×	\$ 2	800	5	<u>کې</u> خ ارايانان	1400 S	9	Dist	Voter Depth (m)
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			lí\$:		90.65			
20.70		<u></u>					┟──┶			30.00			
			F	1 Light greenish grey, week, the groined shahly weethered MUDSIONE.		1			-				
			<u> </u>	Light greenish grey, weak, fine grained sightly weathered MUDSTONE. Black pyrolusite is found along the bedding planes.									
			<u>-</u>	bedding pienes.									
		1.65	É	1	1	1 - F		- I					
				 The product of the second secon	1	1 . · ·] ·				1
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2.35	1	<u> </u>	Fis	While the events what all about				[.		1 · ···			
		-	口	Whitish, fine grained, weak slightly fractured CALCAREOUS UMESTONE with some gravels, sub-horizontal joints.	1	· ·							
	ľ		╘╛┼	grovels, sub-horizontat joints.									
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CPTN BOLO WORUNG LEVEL (m)	STRATA	STRATA	description of strata	5. X			8		≯ Al) (ш)	UD.	છું	Voter Depth (m)
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	.45	21											
101.45			Whitish, fine groined, weak to moderately weak CALCAREOUS MUDSTONE.	1									
-			moderately weak CALCAREOUS MUDSTONE. Small cracks have developed along the	99	85		23						
		L	Small cracks have developed along the bedding planes which exhibits black pyrolusite.										
			photosne.					1					
				L		ļ	-i			102.65			•
									· .				
	3.20												
										· ·			
				100	63	52					53		
104.65		To	Light whitish, weak, medium to coorse	1				1 :					
			Light whitish, weak, medium to coarse grained sondy UMESTONE. Often thin coloite veins are found. Highly weathered with presence of medium sizes gravelks is found below 105.20m.										:
	H		Highly weathered with presence of medium sizes provelly is found helow 105.20m.				. · ·	1.:					
			106.05m - Grading whitish, fine grained Smott open voids of maximum 1cm in				J	Ľ		105.65			•
	1		Smoll open voids of maximum 1cm in diameter are found				.						
		-	ciometer are found. 107.85m- Gracing light brown with presence of chlorite .				1.	I .		1		:	•
	1		presence of chronice .										
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	ľ		Brown, weak fine to medium grained SANDSTONE, silky texture. 111.00m - Becoming more friable with occasional light greenish chlorite. Often interbedded with mort.	100	72		32				55		
			111.00m - Becoming more frieble with					1		1			
 			occasional light greenish chlorice. Often interbedded with mort.	1 /				1					
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		·····	Whitish, weak, UMESTONE, medium grained, slightly fractured with accosional inclusions of gravel. Grading light brown below 114.00m. Very closely										
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	1		sud-horizontal jaints. Small crocks have developed along the				ľ				:		
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	Ĭ	F	+	spoced joints.						1	123.65		1	1
		Ţ	-	Small inclusions of gravel is found at 124.05m, slightly weathered. 128.20m — Grading light brown. 129.60m— 129.70m — Becoming gravelly				.						
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			Н		نبنية ، تر • • • • • •	Brown, weak, fine to medium grained well-sorted SANDSTONE with occasional thin veins of colcite. Grading gravelly below 159.25m.										
						thin veins of colcite. Cradian acayelly below 159,25m										
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			1			Dark brown, weak, CONGLOMERATE. Elongated, sub-rounded to sub-angular gravels cemneted together by sond. Thin colaite veins are found at 160,80m. Poorly sorted,highly weathered below 160,90m.	í T									
					000	grovels cemneted together by sond.										
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:						Light brown, fine groined, weak, weit-sorted SANDSTONE Often that calcite veins are found. Pink coloured. Micaceous constituients present at 165.40m.	<b>.</b> .			Ľ	1.	1				
			1		 	Often the coicite veins ore found.	98	78	75	I	:		84			
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	.30		Brown, Fine grained, weak, SANDSTONE.				-					
<u>68.55</u>			L opping soried.			:			168.55	$\left  \cdot \right $		
		÷i	Whitish, fine groined, weak, CALCAREOUS LIMESTONE, slightly tractured. Often interbedded with thin bonds of mudstone. (170.50m - 170.95m)									
14			Often interbedded with thin bonds of				÷		·			
1	1	Li el	mudstone (170.50m - 170.95m )									· · · ·
10	2.10	•						·	1		·	
·	2.40			2				:				
<b>I</b>		L d		100	90	45	- F.	ŀ	· ·	86		
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		$\Box \bullet$										
70.95	L		Dark brown fine argined weak to					1				
			Dark brown, fine grained, weak to moderately weak SANDSTONE (micoceous) well-sorted		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -							
	ļ		well-sorted						171 65		ł	
	E E					]	:		171.65	┟╍┙	. •	1
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7 <u>3 75</u>				1.1	-							:
		0	Whitish fine groined, weak, sandy		· · · ·			- -	1			
- if			GRAVELLY UMESTONE.						174.20			
		<b>H</b>	Gravels are usually sub-rounded to sub- ongulor.			<b>,</b> ,				88		
		┝┾╬┦	មក្មេមមុខ	100	100	73	11		174.65	ľ		
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<u>76.10</u>	<b></b> _			100	98	55				89	-	
	.60	0	Dark brown to brown, triable, poorly sorted, weakly cemented GRAVEL Cementation is usually sand. <u>Gravels are rounded to angular in shape.</u>	100	30	55	1.		1 - 1 - E		1	
75.70		ہ ` ہ	Cementation is usually sand.									$(\cdot, \cdot)$
10.10 H		10	Gravels are rounded to angular in shape.	i .	1				ľ,			
	ł		Whitish, fine to medium groined, weak, DOLOMITIC LIVESTONE, 177.85m - Groding	1	<b> </b> .							
	Į		with brown stains. Sub- horizontal			<b>[</b> . ]			<u>,</u>			
		0	joints with occassional thin bands of areanish mind									
·  ĥ			with brown stains, Sub- horizontal joints with occassional thin bonds of greenish mud. 179.80m - Brown stains are rarely present. Highly fractured. 183.25m - Recovered as lumps. 185.00m - Becoming light brown, more and						177.65	<b> </b>		
H	2.30	•	present. Highly froctured.		: .		l	- -				
·			185.00m - Becomina liaht brown, more				[		la de		14	
	1		sondy. 185.85m - Becoming whitish in colour.	1.00	100	76	:		l • •	90		
			123.30m - becoming whitish in colour.	100.		/*	<b> </b> .		1	ľ	3.	
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DEPTH BELOW WORDING LEVEL (m)	Scole-	STRATA -	STRAILA	DESCRIPTION OF STRATA		ž ×	ំខ្ល័ ×		8	Blow count	, , , , , , , , , , , , , , , , , , ,	(w) (w)	C.D.	Depth (m)
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	Î				: . <b> </b>		<b>[</b>		Ŀ		:	186.65		
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187.60			<u> </u>	Light brown, fine to medium grained, weak, well-sorted SANDSTONE.		11		ļ		· .				
	H			weak, well-socied Sanusiane.		100	\$5	95			-		95 95	
	H	1.35				100	53	5,						
	I.	۰.				:					en Serie	±.		
188.95	ľ			Light whitish with some brown stoins										
			E=3	fondotion), weak to moderately weak. fine grained, MUDSTONE Product alloge the bedding planes								189.65		
	ļ			191.75m - Becoming whitish green.Brown shitish green.Brown				∦	┯╢			103.00	<u> </u>	
	h			Light whitish with some brown stoins (oridation), weak to moderately weak, line grained, kUUSIONE Breaks along the bedding planes 191.75m - Becoming whitish green.Brown stains are not found. Highly weathered and recovered as lumps below192.15m. Rock quality improves below 192.65m. Highly fractured at 193.05m. 194.55m- Gravels elongated in shape is seen.										
:	h	3.05		Rock quality improves below 192.65m. Highly fractured at 193.05m.	λ.	100	90	70					95	
		4 <b>.44</b>	E==	194.55m - Gravels elongoted in shape is seen. 194.55m - Brown stoiris are found.										
	k			124.000 - 00040 91040 014 100100								191.25		
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•		<u>L</u> -					ŀ.		195.65			
196.00	<b></b>			l				· ·				
:			Whitish, fine groined, weak CALCAREOUS LIMESTONE Highly weatherd and recovered as lumps.	100	54	22	-			99		
			Highly weatherd and recovered as lumps.									
	h				<u> </u>				196.90			
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00.15										1		
		н • <u>• • • •</u>	Brown, fine to medium grained, weak, poorly sorted SANDSTONE. 201.4Gm - Light greenish brown, weakly cemented GRAVEL. 202.35m - Grading very weak, light greenish in colour. (greenish colour may be due to the presence of chlorite minerals.) Highly weatherd below 202.35m.	95	86	57				ľ		
		******* □ * \$***** ********	201.40m - Light greenish brown, weekly compared GRAVEL									
		<u>منبع الم</u>	202.35m - Grooing very weak, light greenish in colour, (greenish									
		<del>بر</del> . . <del></del> . 	colour may be due to the presence of chlorite minerols.)								1	
	3.05		Highly vealherd below 202.35m				:		201.65			16/24
	5.05				83				1997) 1997 - N.	2		
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						$\frac{1}{2}$	-		202.10			· -
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203.20	[	بيديني والت			1		2					
			Whitish, fine grained, weak to moderately weak DOLOMITIC LIMESTONE, very closely spaced joints.	98	94	76				3		610 10
			very closely spaced joints.		31					$\left  \right $		
	1.80			ана. Ал								2
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]				100	.90	64	<u> </u>		207.65	4		

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		COLORN BOLOW	SIRATA	THICKNESS	STRATA	CESCRPTION OF STRATA	ក្រក្រក្រក ខ្មី %	.ភ្ល័ &	ş x		noor.com	ह है नितिति	(w) 1000		09. 0	Woler Depth (m)
	i .	<u>8505</u>	ľ	<del>.</del> 95		Light greenish brown, weak, medium grained, gravelly SANDSTONE.				-						
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				40	a. 											
		205.45		н 1			100	- 90	64				. 1.			
	•	200.43				Light pinkish brown, line groined, weak. Iominated, Essile, SHALE.	1									
	-					Light pinkish brown, line grained, weak. kominated, fissile, SHALE, Black pyralusite is found along the bedding planes.								:		
			ł					÷			:		207.65		:	
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		210.75						┟╾╧╌┨╴		1			210.65			
						Brown, weak, fine to medium grained well-sorted, SANDSTONE with occasional thin bonds of rose quartz 214.75m - Thin calcite veins are found. Micaceous constituents are found along the minor fracture planes.										
						214.75m - Thin colcite veins are found. Micaceous constituents are found – along										1
						the minor frocture planes. 216.50m - Grading light green.						. •			-	:
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				100	98	96					
1	2.30								219.30		:
				100	100	97			219.65	10	
0.30		0 0 0 0 0 0	Greenish, mossive, weak to moderately weak, CONGLOMERATE. Elongoled, sub-rounded to sub-origutar gravels. Often interbedded with thin bands of mud. Occosional colicite versis are found. Highly fractured at 226.90m, 227.85m - 278.65m, 230.65m - 231.20m and 233.40m - 233.70m.	99	93	79				11	
		0 0 0 0	233.70m.						221.85		
		• • • • • • • • • • • •		98	90	66		•	222.65	12	
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	10.70			100	100	80			224.95	14	
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	DCPTH BELOW WORKING WORKING		DIRCIGESS	STRAFA	DESCRIPTION OF STRATA		LCR.	8	× č.	800 800 800	ow count		(m) (m)	00	С. С	Voler Dealth (an)
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	233.70				Whiteh Can applied whole to								233.80			
					Whitish, fine grained, weak to moderately weak, LIMESTONE with accasional thin bands of coloite and rose quartz are found. 235.40m - 238.80m - Grading light whitish, gravely limestone. Gravels are elangated and sub- rounded in shap rock is cemented by white carbonate 235.80m - Whitish, fine grained, wea moderately weak LIMESTONE with accasional gravets.				]							
					rose quartz are tound. 235.40m -		100		98	84				18		
ł			ļ		grovely limestone. Grovels ore	5. The							234.65	<u>غ</u> ا		
1					rock is cemented by white corbonate	5, 10 <b>6</b>	100	Ĩ	92	23		ľ	l	19		
					moderately weak LIMESTONE with	K (0)			JL .				235.25			
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(w) 1041 54080# 54080#	STRATA THICINESS	STRAFA STUBOL	description of strata	្មិរ្ម័ » ជាជាជា	្តភ្ល័ &	i i i i i i i i i i i i i i i i i i i	Blow-count	≽ ड्रै	τ, C	U.D.	Cist.	Water Depth (m)	
												:	
	2.25			100	65	59							
246.25			Light greenish, weak to moderately weak, mossive, CONGLOMERATIC LINESTONE. Green calour may be due to the presence of chlorite minerals.						246.65	-			
			247. 8m - 249. 25m - Grading white, fine grained, weak to moderately weak CMAESIONE 249.25m - 250.05m - Grading light greenish, conglomeratic limestone.	100	93	86		•		27			
	3.80		greenish, conglomeratic limestoñe.		<u>+</u>				248.08				
				100	<u>90</u>	61				28			
									249,65				
250.05			Light brown, fine grained, weak to moderately weak NARLY LIMESIONE, often interbedded with thin coloite and rose		-								
	2.20		quortz veins.	100	90	90				29			
										4	:		
252.25			Brown to light greenish, fine grained, well-sorted, weak, SANDSTONE without any visible bedding planes.						252.65				
	1.65		visiole bedang plones.	100	95	79				30			*
254.10			1						253.80				)E 20/24
			Whitish, fine grained, weak to moderately weak, massive, MARLY LIMESTONE. 256.90m - 257.10m - Grading tolight greenish in colour with occasional	100	97	84				31			PACE
	2.90		green sn in Colour with occosional inclusions of gravel 260.55m — Becorring light brown, very weak to weak. Highly to completely weathered. Completely weathered and recovered as sandy gravel kelow 260.55m to 261.55m. Highly fractured. Sub- harizontal joints with thin calcite						255.65				8-2
										32			BOREHOLE NO. 6
			Rock quality improves from 264.10m. 266.85m - 267.35m - Becoming grovely .	100	97	34			258.65		-		BOREHC

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	1			100	77	43				1			]
270.50	.50								270.42				
			Light whitish brown, fine grained, thinty lominated, weak, SHALE. Shows fissility along the bedding planes with presence of black pyrolusite.	94	94	67			270.65				
		$\Box \Box$	Shows fissility olong the bedding										1
	1.30	[]	planes with presence of block pyrolusite									÷	
	].	<u>L</u>											
271.80							•						
		L.	Whitish green, fine grained, weak to moderately weak, LIMESTONE sub-horizontal joints.										
		T.	sub-horizontal joints.	100	97	63	1			42			F
	1.35	10										÷.,	
				-			. •					2	
273.15		F.			· · .								
		Ē	Light greenish, highly weathered CONGLOMERATE, weak cementation.										
		000	CONCLUMERATE, weak cementation.		· · ·				273 65			. 1	
	1.30	000											
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274.45	1	<u>ا</u> شترا			· * ·							: -	
		I.	Whitish, thinly laminooted, week	1									
		10	Whitish, thinly laminooted, weak to moderately weak MARLY LIMESTONE, highly fractured. Presence of block pyrolusite along the minor fracture planes.	100	71	22				43		1	
			Presence of block pyrolusite clong the minor fracture plopes									· .	ľ
	2.20			· .									
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			Whitish, fine grained, thinly laminated, weak to moderately weak SHALE, developed a fissility along the										
			SHALE, developed a fissility glong the bedding planes.									1	
		L-1	bedding planes. Presence of black pyrolusite blang the bedding planes.							15		-	
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				100	- 95	76				47			
280.90		[]			,,,					.,,			
		1.	Whitish, fine grained, weak MARLY LAMESTONE, very closely spaced joints. Often interbedded with thin coloite					ν.		j.		-	
	ł	ТĻ	Often interbedded with thin colcite					1 - E					N
		1÷	veins.	ļ	┝╍╍╺┙	┟╌╌┛│			281.60	·		1	ц Ш
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	Ĩ	F.								н. Т.		: :	틷칠
1 15		•		 					282.65				BOREHOLE
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(W) TOATH ALLOW	ŝ	THICONESS	STRATA	DESCRIPTION OF STRATA	58	. 5 %	800	- Souri	Volue	414JO	33	Voter Depth (m)
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84.30			L a		97	92	65					
• • •	И		 	Brown, fine grained, weak, SANDSTONE, well-sorted.		**						
		1 1										:
	Ц	1.50										
1									2 - E			
	Ш		-							285.65		
285.80	ĮĮ.					╎───┤		ĺ				
	Ц	.45	÷	tight greenish, weak highly weathered, CONGLOWERALE, weakly comented, often								
265.25		<u>`</u>		Light greenish, weak highly weathered, CONGLOWERATE, weakly cemented, often interbedded with thin coloite veins.	ł				1			
	Ņ		• [	Whitish, fine grained, weak, MARLY LIMESTONE.	97	65	18				50	
		1 -	1-1-1	Presence of black pyrolusite along the minor fracture planes. 287.85m - 288.30m - Becoming sondy	1							
	Į.			287.85m - 288.30m - Becoming sondy						¹		
			10	287.85m - 288.30m - Becoming sondy limestone. 288.30m - 288.65m - Grading light brown, with presence of gravels. 288.65m - 289.25m - Becoming greenish in colour, highly fractured, weakly cemented CONGLOWERATE 289.25m - 293.35m - Whitish, fine grained, weak, highly fractured MARLY LIMESTONE. 293.35m - Grading brown, thinly lominated, weak, presence of micdoceous constituents.			[			287.40		
				brown, with presence of grovels.				•				
				288.65m - 209.25m - Becoming greenism in colour, highly froctured, weakly	· .					1		
			•	cemented CONGLOMERATE 289.25m - 293.35m	96	59	50				51	
			•	froctured MARLY LIMESTONE				2				
			10	293.35m - Grading brown, Unity Inminoted, weak, presence of micoceous						288.65		
				constituents, 295.25m - 295.90m - Grading gravelly.								
			•	Zab.zom - zab.som - ordoning grovers.						<b>.</b>		
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:			É₽.		100	58	28		· [ ] .		55	
			li-		1			1				
	116		1.1	Light whitish brown, thinly laminoted.	1	+ I		1 1	1	297.65	1 1	. 1

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ACOLO SCOLE	THICHESS	STUDIC	OESCRPTION OF STRATA	រ ភ្ន័ 🗴	ីខ្លី &	8 % 111111	Blow count	¥ ≹≺	14000 (w)	0.0	Diet	Depth (m)
			weak SHALE, shows fissility along the bedding planes. Recovered as lumps below 297.10m.									
	1.65			100	58	28						
97.65			Whiteh with according hown states						297.65		:	5 7
			Whitish with occasional brown stoins, weak to moderately weak, slightly grovely UMESTONE Becoming whitish fine groined, weak, MARLY UMESTONE below 299.0m.	100	100	76			293.70	56		· · ·
	2.35			100	90	65				57		
00.00				-					300.00			

24/24

PAGE

NO. B-2

BOREHOLE

END OF BOREHOLE

REMARKS:-

Approximate 50% waterloss is noted at 26.0m. Cosing details - 0.00m to 30.00m - 114mm.

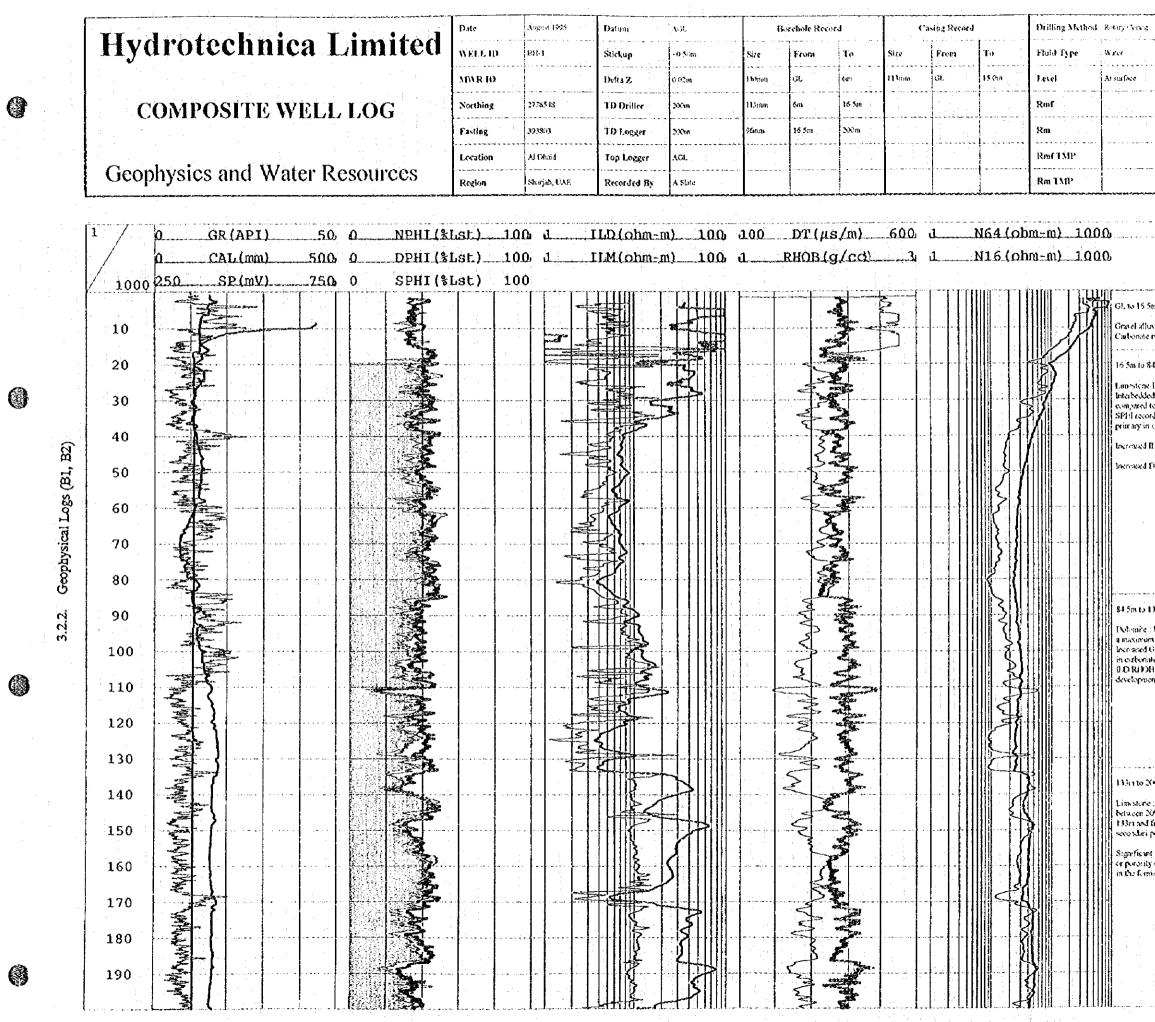
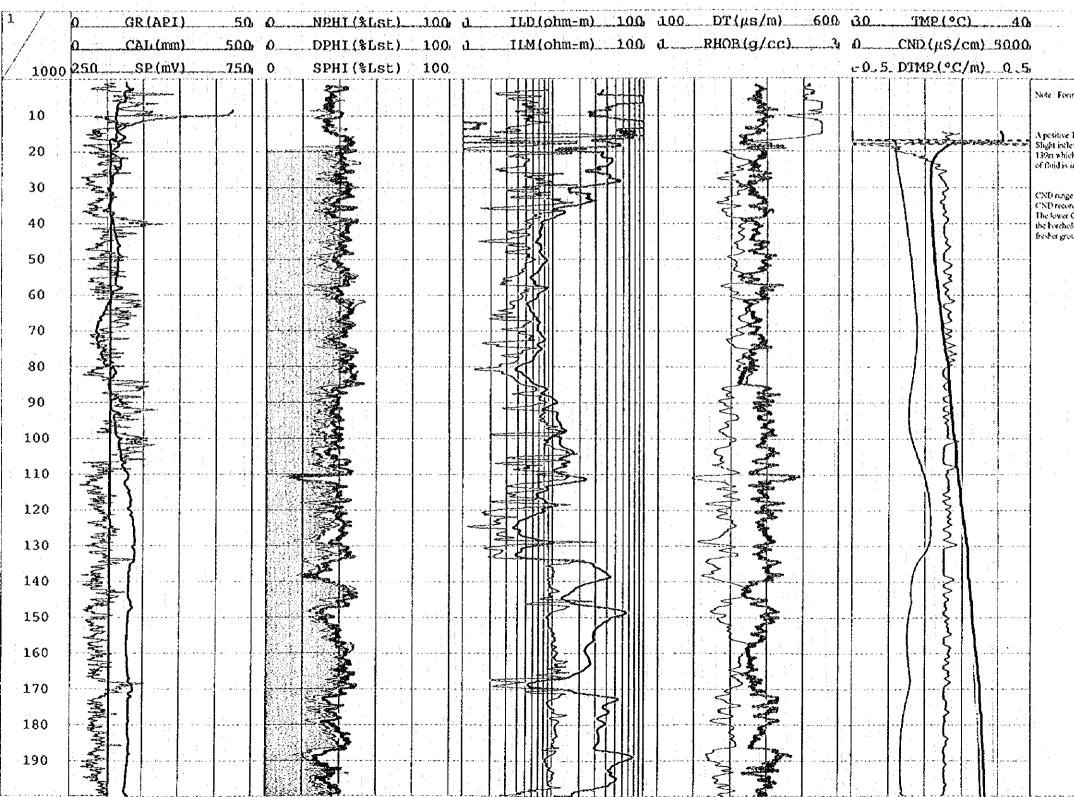


図 4.5.25. 物理検層結果

ę 4

	Logging Schedule	Corrections Applied	i .
	CR CAL, AMENIND DTMP, HVD,	UR concored for Mana	diameter and the
	RHOB DRHO ESD, NPHI LSN 88N.	RIFBA NEBLORDO	e compensated
· • • •	N6 C N46" SP, RM ILD, F458 DF	standorf correction apply connected to 25 %.	cris <b>DI, C</b> NO
	and the second second second second second second second second second second second second second second second		
		Plot No. 1 0	13.2
•			
	Remarks	Interval GL to 200m	
	Openhole logs merged at 15 0m. 2ml	Death	
	logging run recorded after sorface	Depth 1 200m	
	easing removed	Scale 1 1000	
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- • · · -	Remarks	· · · · · · · · · · · · · · · · · · ·	Core
ura i I	OR log suggests this interbedded clayey be	vizons are present	nggazk.
	to alluvium with an average periodity of 35*		12712796
्रत्व :			
olem	ite : GR increases with depth, although act	ivity remains low	
ines NÝH	tone and dolomite interpreted. Dolomite id Il. Porosity averages 474-Lat. ILD range in f	entified by lower DPHI Your 3.9 to 9 ohm-m =	┍ <mark>╷┰</mark> ╋┰╋┰ <mark>┟</mark> ┎
sim	far values to both the DP10 & NP11 indica	ting the porosity is	
gin			utara di arad
) abo	we 35m may represent partially saturated fo	สมสมักก	<u></u>
aho	ve 17m indicates unsatúrated formation		
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	sed GR activity noted between 84 5m and 4 above, although tone B D horizon between		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
t acti	ohm-m, although fow R.D horizon between wity is unlikely to be clay, rather secondary	enrichment of termitien	in an an the state of the second second second second second second second second second second second second s
sedir	pents, Perosity averages 36° dist. Lower po ower DT, SPHI is lower trun DPHI NPHI it	resity leads to increased	- initiani
	ower DE. SPEITIS is wer blun DPER SPEITIN teondary porosity	and the second second second second second second second second second second second second second second second	
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ower	r 1924 II in places suggests à defonitie nutur		
ower Ist a	and 47° elist. Some then clays or mark sugg	ested by GR peaks at	
ower Jost a m 10		ested by GR peaks at	
ower Let : m 14 osig	and 47° (List. Some thin clays or mark sugg 58m and 171 m (The latter is supported by 1 3 between 168m and 1996)	ested by GR peaks at ower H.D., SPHI suggests	
ower Let a m 10 osity orea sted	and 47° Mat. Some thin clays or mark sugg 58m and 171m (The latter is supported by 1	ested by GR peaks at over H.D., SPHI suggests a variation is elay content	
ower list o m 10 osity orea sted	and 47° d.s., Some film clays or marks mays S8m and 171m (The latter is supported by lo 3 between 169m and 199m 6 d in 11,D to 70 ohm m where no signifian	ested by GR peaks at over H.D., SPHI suggests a variation is elay content	
ower list a n 10 osity creat ted	and 47° d.s., Some film clays or marks mays S8m and 171m (The latter is supported by lo 3 between 169m and 199m 6 d in 11,D to 70 ohm m where no signifian	ested by GR peaks at over H.D., SPHI suggests a variation is elay content	
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dijst i on 18 rosity screa	and 47° d.s., Some film clays or marks mays S8m and 171m (The latter is supported by lo y between 169m and 199m) eed in 11,D to 70 ohm m where no signifism	ested by GR peaks at over H.D., SPHI suggests a variation is elay content	
ower Let a m 10 osity orea	and 47° d.s., Some film clays or marks mays S8m and 171m (The latter is supported by lo y between 169m and 199m) eed in 11,D to 70 ohm m where no signifism	ested by GR peaks at over H.D., SPHI suggests a variation is elay content	

	Date	August 1995	Datum	AGE	Ba	rehote Recor	d	Č:	sing Record		Drilling Jothod	Rotin Vorag
Hydrotechnica Limited	WELL ID	BH-1	Stickup	+0.5Gm	Size	Front	To	Size	From	To	Fluid Typ	Water
	MWR ID		Delta Z	0 02m	1 Integra	ol	Grs	113640	હા	15 Om	Level	Atsurface
COMPOSITE WELL LOG	Northing	2778518	TD Driller	200m	113:00	ดกเ	16 5m				Rnif	
	Easting	391803	TD Logger	200m	Xmin	16 Sm	200m				Rm	
	Location	A) Dhuid	Top Logger	AGL							RmfTM	
Geophysics and Water Resources	Region	Shujah, UAE	Recorded By	A Slate							Roi TMP	



⊠ 4.5.25.

物理検層結果

**Corrections** Applied Logging Schedule гаş GR corrected for 86nm diameter and f-8100B & NFHI brechele compensated standerf correction applied to DT, CND corrected to 25°C. OR CAL, EMPICNÓ DEMP, HYO. RHOB DRHOLSD, NEHELSNISSN, NGENIGESE, REMILO, EWS DE Plot No 2 of 3 Interval: GL to 200m Remarks Openhole logs merged at 15 from 204 kyging run recorded after surface casing removed TMP, CNO-D FMP logs Depth 200m recorded in polymer mud filled borehole Scale E1000 Remarks. Core Note: Formation logs described on 1st composite log A positive TMP gradient is recorded in the fluid column reaching a BHF of 37.3 C. Slight inflexions are recorded at 74m, between 101m and 108m and from 130m to -----(1) and this based on the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the s CND range recorded is from 1000 µS cm at the WL to 2150µS cm at 124m. The CND recorded in the fluid column is lower than recorded in the mulpit (3200µS cm) The fower CND values in the borchole suggest dilution by groundwater flowing into the borchole. Lower CND zones close to 74m and 130m would confirm the inflow of fresher groundwater interpreted from the TMP log ĨŦſŦĨŢ ŢĹĹŢ  $\sim$ ., <u>je u je se</u>  $\sim$ aria Mariari gint ginta ...... ~ 4 - 100 Ap3-196

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ſ		Date	August 1993	Datem	Aci	Be	rehole Recor	d	()	istng Record		Drilling Method	Roluny Conng
	Hydrotechnica Limited	WELL ID	Pit-1	Štickup	- (0,5-)m	Size	From	10	Size	Frein	њ	Fluid Type	Water
		MWR ID		Defta Z	0.02m	1.67:001	GL	6m	ઇંગ્રે સંપન્નથ	લ.	Nha	Level	18 3m AGL
	<b>COMPOSITE WELL LOG</b>	Northing	2778543	1D Driller	200al	103ann	6e)	16 5m				Rmf	
		Easting	393893	1D Logger	200in	Убла	16 Sm	209m				Rsn	
		Location	Al Dhaid	Top Logger	AGL							Rmf TMP	
	Geophysics and Water Resources	Region	Sharjad, UAE	Recorded By	A Slee							Rm TMP	
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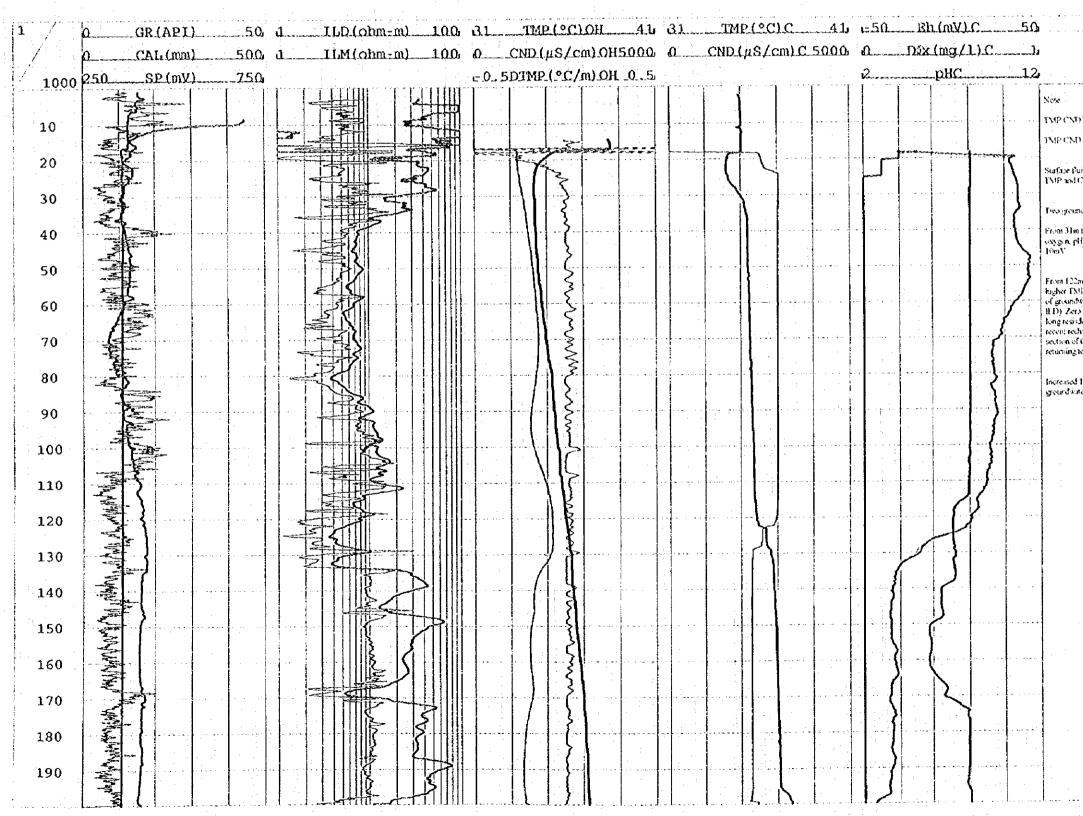
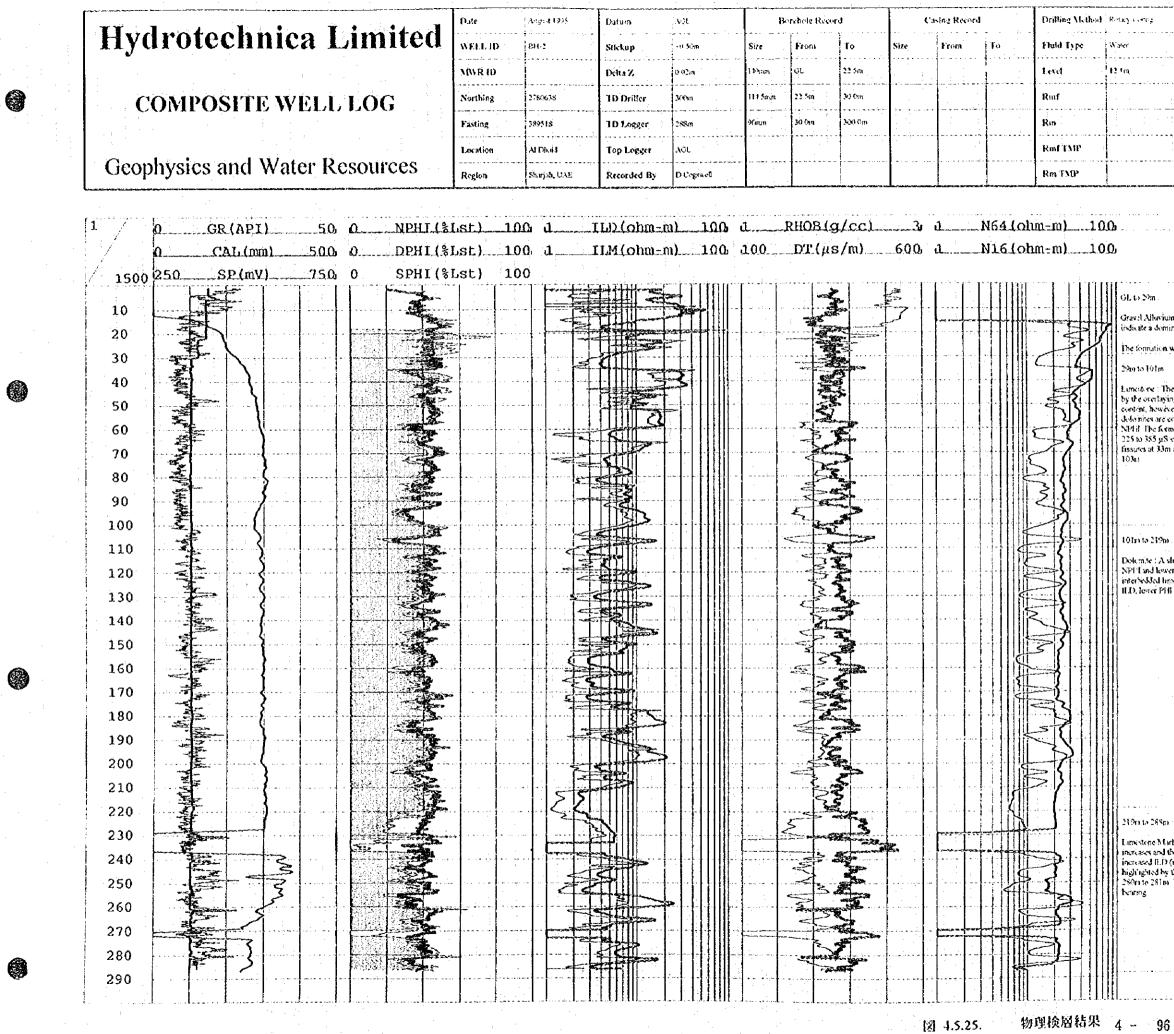


図 4.5.25. 物理検層結果

ų.	Logging Schedule	Corrections Applied	Ì.
:	GR CAL, TMP CND DIMP, HYD, RHOD ORHMASD, NPHILISN SSN, N&4" X16" SP, HALHLD, FWS DT	GR conjected for Ofnun diameter and the BHOB & NPHI birehole compensated, standoff our ection applied to DT, CND corrected to 25%.	
		Plot No 3 of 3	
• •••	Remarks	Interval GL to 2006	
• • • •	Phild logs recorded in FYC casing some	<b>1</b>	
· <b>-</b> · · · ·	37 days after openhole logging and well development	Depth 200m	
	المقادمين الأوام الغار التي الأرجي الفاستين المركبة والمتحر ومدخو ومركبون ويوسر والمحافظ المركب	Scale (1989)	j
	G.I.	WC(mm) Core	2.
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[D]M	POIL recorded in polymer filled openhole		
C re	corded in water filled PVC cased well	I I RASO	
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id inte IND a	real identified from the WE to 31 in with lose nd a slightly oxygenated nature.		
	· · ··		r
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io 122	m - CND averages 3000 µStem Zero dissel	· · · · · · · · · · · · · · · · · · ·	$\overline{)}$
rema	ins constant at § and Eh range of 41(nV to		r
			T
n to 30 P. Intl	0m : Lower CND averaging 2275 µS/cm an exions between 122m and 129m andicate in:	la sita sita sita sita sita sita sita sit	
over li	tion an apparent high priosity internal (Low lved oxygen and Eb averaging -35mV indica		~
lance t	ine of the groundwater in the formation and		
	none of any preservery accurate to the contract of a second second second second second second second second se	no	^
nrge ö the gri	if the aquifer locally, pH is viriable in the up sundwater reaching a minimum of 5.8 before	no	
nrge ö the gri	I the squifer locally pH is viriable in the up	no	<ul> <li></li></ul>
nrge o the gra o the c TMP b	f the aquifer locally pH is variable in the up surdwater reaching a minimum of 5.8 before constant value of 8 before 104m elow 196ni suggest further inflow of	no	141 - 141 - 141
nrge o the gra o the c TMP b	if the aquifer locally, pH is viriable in the up sundwater reaching a minimum of 5.8 before		
nrge o the gra o the c TMP b	f the aquifer locally pH is variable in the up surdwater reaching a minimum of 5.8 before constant value of 8 before 104m elow 196ni suggest further inflow of		
nrge o the gra o the c TMP b	f the aquifer locally pH is variable in the up surdwater reaching a minimum of 5.8 before constant value of 8 before 104m elow 196ni suggest further inflow of		3대 2 2 2 2 11 2524 2
nrge o the gra o the c TMP b	f the aquifer locally pH is variable in the up surdwater reaching a minimum of 5.8 before constant value of 8 before 104m elow 196ni suggest further inflow of		12 2년 2 2 2 2년 2019년 2
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	Hydrotechnica Limited	WELL ID	1281-2	Stickup	(i), <b>5</b> /m	SL/e	From	To	Size	Fren	To	Pluid Type	Water
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	COMPOSITE WELL LOG	Northing	2280638	TD Driller	3-7x/m	LL I Soun	22 Sm	30 0m				Rnsf	
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· · ·		Location	AI David	Top Legger	AGL							Rmf TMP	
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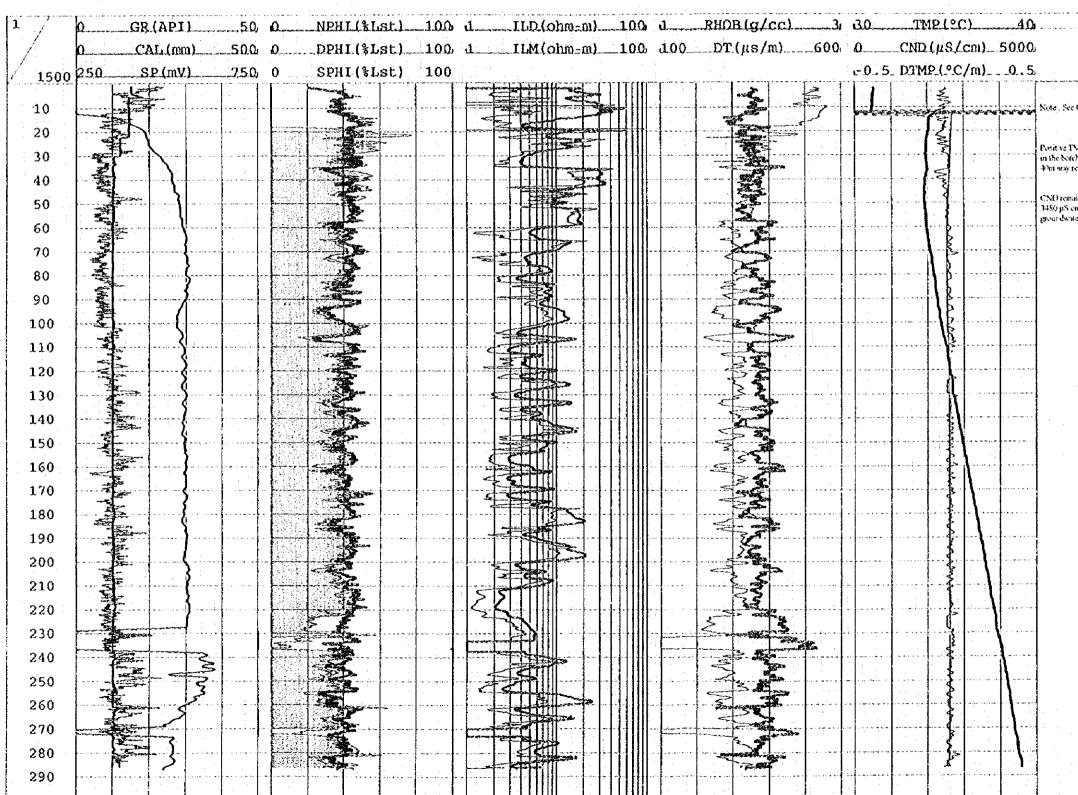
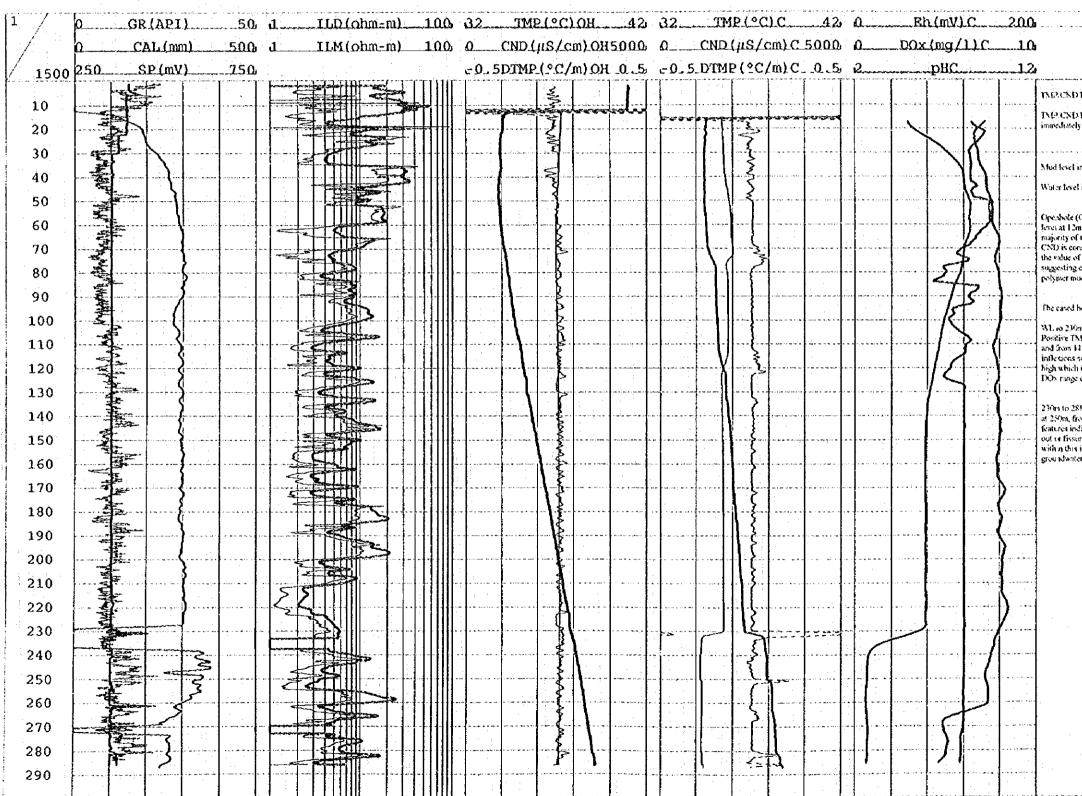


図 4.5.25. 物理検層結果

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	Logging Schedule	Corrections Applied
	GR CM, TMF CND DTMP, HYD RHOD DRIB(15D, NFID LSN 58N, - N6T/N1655P, R.M R.D, FWS DT	OR objected for Mount Junctor and J RHOB & NPHI Direbol, compensator Standoff correction apple 4 to DF, CST concerted to 25 C
		Plot No. 2 9 3
÷		
	Remarks	Interval GL to 300m
	Operatione logs merged at 23 hn and 268	So Depth 2880
	TMP:CND-DTMP recorded in mod- filled openhole	Scale £1500
	Remarks	Core
	site Log No. 1 for remarks on formation	
44	and the first of the standard and the manage	<u> </u>
	Can fairs dian a Dian an Alas in 1987.	
e in	fient from 60m to 288m reaching a [31] deated. A slight negative TNP gradient	t between the mud level and an and an and and and and and and a
ct ø	atlow of groundwater from the near surf	tace securitions
con n	stant at 2550 pStem which is less than i burner DD unline in the burnhole may r	the surface mud pit value of
106	lower CND value in the borehole may r	
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н н 1	Hydrotechnica Limited	WELL ID	E(I-2	Stickup	-19 Sim	Size	From	То	Size	From	Ťð	Fluid Type	Waler
		MAYR ID		Deltă Z	0 02m	1 Initians	GL	22.5m	11246.01	ç <b>i</b> l.	34°418	Level	15 Goin (ASL)
	COMPOSITE WELL LOG	Northing	2780638	ID Driller	300m	114 Saun	22 5m	30 Cm	SO Spun	UH.	288m	Rmf	·
		Fasting	389518	1D Logger	28Sm	96min	30 Cin	3341 Oru				Rm	
· ·		Location	Al Ohaid	Top Logger	AGI.						1	Rmf EMP	
	Geophysics and Water Resources	Region	Sharjah, UAE	Recorded By	D Cegewell							Řn: TMP	



物理検層結果 図 4.5.25.

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13	Logging Schedule	Corrections Applied
······	GR CAL, TMP-END DIVIP, HVO. RHOD DRHO LSD, NPHULSN SSN, N&P N1&SP, RUBED, FWS DT.	GR connected for 20mm diameter at the RHOB & NEHI borehold compense standart correction applied to D.F. C concerted to 25 °C
SL)		
		Plot No 3 of 3
	Remarks	Interval GL to 300m
	HYD logs recorded inside 50 Sinin PYC casing inmediately after well	Depth 288m
	development	Scale 13500
······	G.I.	WC (mm) Core
NDDIM	POII ≤ Recorded in a mud filted openhole.	
NDDIMP Č = Recorded inside 52 Snm PVC casing stely after well development		
ict in OH = 12 10m AGE		百姓。
evel in C = 15 66m AGL		
de (OII) TMP CNDID TMP logs indicate a polymer mu 12m. A positive TMP gradient is recorded for the yof the fluid solumn reaching a BHT of 39 FC. The constant at 2550 pS/cm. This CND value is lower that is of the polymer multiple at the surface (3480 pS cm ing entry of groundwater into the borchole has diluted to must ed hole logs indicate the presence of two water bodies 2006 (CND range of 1700 pS cm to 2000 pS cm is TMP gradient with inflexions between 69m and 77m, m 13m to 122m. Decreases in CND coincide with TM vis suggesting inflow of groundwater. DOs and Eb are uch is related to the air used during well development, nge of 2.9 to 6.4 mg 1. Eh range of 130 to 170 mV. SysSint (CND of 1120 pS cm. TMP inflexions at 230m i, form 254m to 266m and from 280m to 282m. AH indicate inflow of groundwater associated with wishe issured ground. DOs and Eh decrease significantly his interval suggesting a long coileder with single- siter in the formation.		
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