Fig.(1): LOCATION MAP OF THE STUDY AREA.



ER4	PER	IOD	EPOCH	AGE	FORMATION	HENBER	ITHOLOS'	RESERVOIT	REMARKS																				
	QUATER	MARY	RECENTS PLEISTOC.				111																						
			PLIOCENE				<u> i i i i</u>																						
						ZEIT		\overline{M}																					
					E MIOCENE	SOUTH GHARIB																							
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2	æ	ш	ω	9	BELAYIM	FEIRAN	۸ <u>۸</u> ۸۸۸		82,3,4 8 85- CI 8C																				
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U				LOWI	NUKHUL	SHOA B		•	A4, A8A, BI,CI,C																				
			EOCENE	L.EO.	THEBES		THE	•	B2																				
Sec.		PAL	PALEOC.	L.EQ.APPL	ESNA	10.000	1117																						
~~~	m		UPPER	· · · ·	SUDR		HHH HHH		h																				
ZOIC		EUUS	LOWER	LATE	MATULLA				828 F4																				
MESOZ		CREIAC		EARLY CRET.	NUBIA FACIES			•	ABA, 85, 6, 7, B8, C2, D6, E1, 28 E6A																				
	PRE	-	CAN	BR	IAN			••••	C2 8 E4																				









































TABLE(1): GEOTHERMAL GRADIENT OF THE STUDY AREA.									
well	geothermal gradient F/100 Ft.			geotherr					
A-2	1.8								
B-1	1.7								
B-4	1.8								
B-3	1.8								
C-4		1.9			3.42				
B6-A		2.2			4.01				
B-7		2.2			3.95				
C-5		1.9			3.396				

TABLE(2):EST						
FORMATION	TOC Wt.%	Ro equation	Ro chart(1)	Ro chart(2)	SUM TTI	
BELAYIM	1.57	<0.2	<0.4	<0.4	0.557	
KAREEM	2.39	<0.2	<0.4	<0.4	0.599	
NUKHUL	0.198	<0.2	0.43	0.5	1.146	

## TABLE(3):ESTIMATED GEOCHEMICAL PARAMETERS FOR B-1 WELL

FORMATION	TOC Wt.%	Ro equation	Ro chart(1)	Ro chart(2)	SUM TTI	
BELAYIM	0.762	<0.2	<0.4	<0.4	0.519	
KAREEM	2.52	<0.2	<0.4	<0.4	0.589	
NUKHUL	2.32	<0.2	<0.4	<0.4	0.892	
THEBES	0.49	<0.2	0.46	0.5	1.747	
ESNA	1.39	<0.2	0.5	0.5	1.556	

TABLE(4):EST	IMATED GEOCHEMIC	AL PARAI	METERS				
	FOR B-4 WI	LL					
FORMATION	TOC Wt.%	Ro equation	Ro chart(1)	Ro chart(2)	SUM TTI		
BELAYIM	1.357	<0.2	<0.4	0.5	1.107		
KAREEM	2.49	<0.2	<0.4	0.5	1.207		
MATULLA	3.49	<0.2	0.56	0.505	1.7		
NUBIA	2.52	<0.2	0.62	0.52	2.24		
TABLE(J).LO	FOR B-3 WELL						
FORMATION	TOC Wt.%	Ro equation	Ro chart(1)	Ro chart(2)	SUM TTI		
BELAYIM	0.765	<0.2	<0.4	<0.4	0.65		
KAREEM	2.31	<0.2	<0.4	0.5	0.897		
NUKHUL	1.34	<0.2	<0.4	0.505	1.412		
THEBES	0.901	<0.2	0.45	0.505	1.542		
ESNA	2.12	<0.2	0.5	0.505	1.591		
TABLE(6):EST	IMATED GEOCHEMIC	AL PARAI	METERS				
	FOR C-4 WELL						
FORMATION	TOC Wt.%	Ro equation	Ro chart(1)	Ro chart(2)	SUM TTI		
BELAYIM	0.601	<0.2	<0.4	<0.4	0.656		
KAREEM	2.13	<0.2	<0.4	0.5	0.938		
NUKHUL	0.75	<0.2	0.45	0.52	1.808		

TABLE(7).ES						
	FOR B6-A WELL					
FORMATION	TOC Wt.%	Ro equation	Ro chart(1)	Ro chart(2)	SUM	ТТІ
BELAYIM	0.62	<0.2	<0.4	0.5		0.224
KAREEM	2.75	<0.2	<0.4	0.5		1.017
THEBES	2.12	<0.2	0.46	0.5		1.254
ESNA	1.87	<0.2	0.52	0.505		1.339
SUDR	2.59	<0.2	0.54	0.505		1.413
MATULLA	2.76	<0.2	0.55	0.508		1.46
NUBIA	2.86	<0.2	0.62	0.52		2.33

## TABLE(8):ESTIMATED GEOCHEMICAL PARAMETERS

	FOR B-7 WI	ELL				
FORMATION	TOC Wt.%	Ro equation	Ro chart(1)	Ro chart(2)	SUM	TTI
SUDR	4.35	<0.2	0.53	0.505		1.514
MATULLA	3.15	<0.2	0.54	0.505		1.585
NUBIA	2.96	<0.2	0.58	0.52		2.021

## TABLE(9):ESTIMATED GEOCHEMICAL PARAMETERS

		CLL					
FORMATION	TOC Wt.%		Ro equation	Ro chart(1)	Ro chart(2)	SUM	TTI
BELAYIM	0.824		<0.2	<0.4	0.5		1.02
KAREEM	1.71		<0.2	0.4	0.505		1.653
NUKHUL	0.714		<0.2	0.48	0.52		1.995

