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Lithostratigraphy of Turonian-Santonian Unit in Sfaya Oil Field Northwest Iraq

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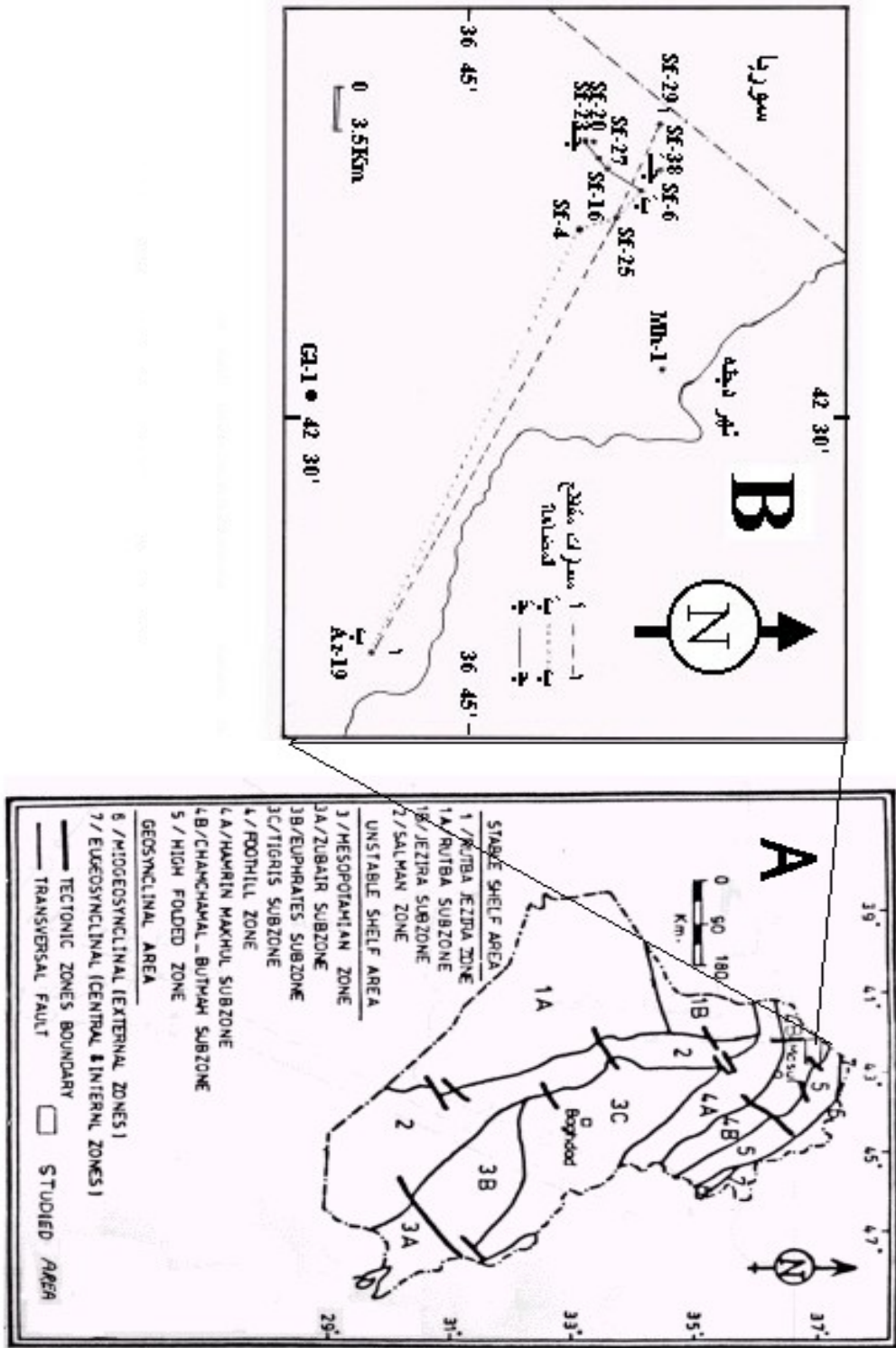
*North Oil Company
Kirkuk*

ABSTRACT

The Stratigraphy and facies analyses of the unknown calcareous conglomerate unit, which has recently been brought up by bore holes in Sfaya oil field at north western Iraq, have been shown that this unit is of “Turonian-Santonian” age. Lithologically, conglomerate and embedded mudstone lenses at the western and central parts of the field represent the unit. On the other hand, it is represented by conglomerate, which is interfingering with lagoonal carbonates at the southeastern parts and by thick typical

lagoonal carbonate facies, which overlay a tongue of conglomerate extending towards Ain-Zala oil field. Stratigraphic and facies analyses have indicated that this unit was deposited in a limited lagoonal environment.

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 ()
)
 (Campanian) (Cenomanian) ()
 (1) (-) (Buday and Jassim, 1987)
 -) (3.5) (11) ()
 (Middle Miocene)
 (20)
 (Az-19)
 (Chatton and Hart, 1961)
 (Chatton, 1962)
 (Wajna)
 :
 (1998) (1991) (NPC , 1986) (1981)



(Buday and Jassim, 1987)

(A) :1

(B)

(Sf-4) (Sf-25)

(Sf-20) (S f-16)

Fecal)

(Allochems)

(Miliolid)

(Pelecypods)

(Pellets

(Intraclasts)

(Lithoclasts)

(Algae)

(Phosphatic Lithoclasts)

(Extraclasts)

:

(Sf-25) (Az-19)

(Subtidal)

(Sf-25) (Az-19)

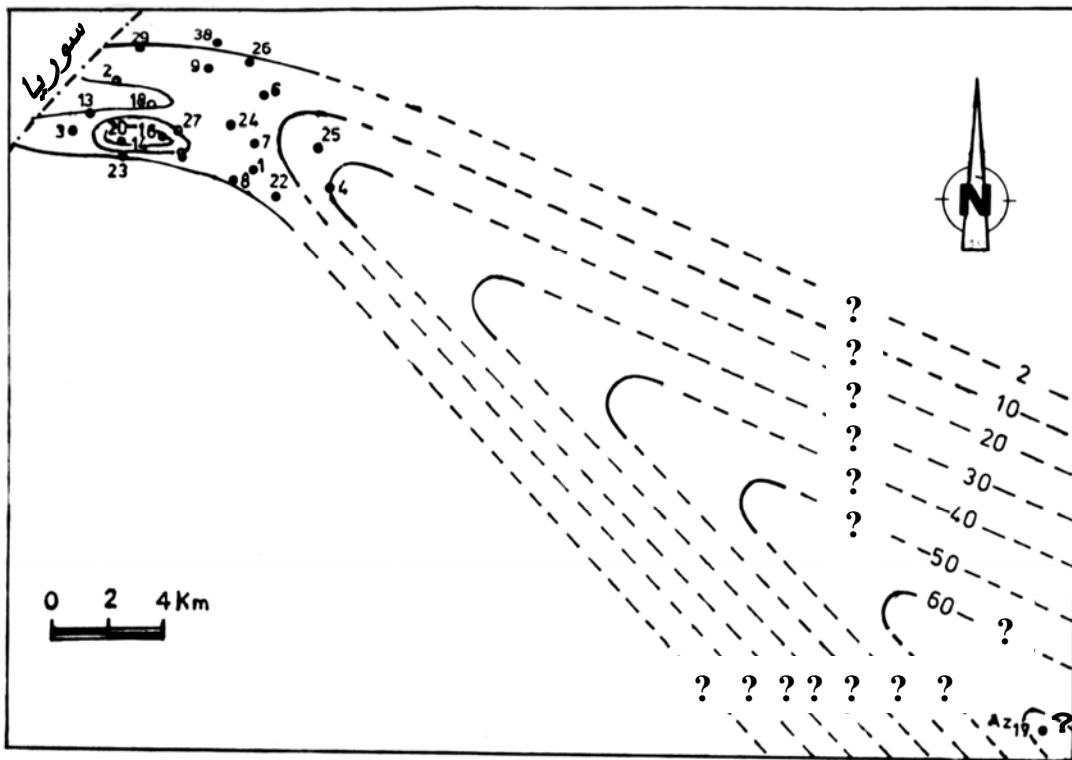
(Lagoon)

Local)

(buildups

(2)

(Az-19)



(Isolith)

:2

(5-1)

(15)

(Sf-16)

(18)

(Sf-4 ; Sf-25)

(72)

(Az-19)

(Gl-1)

(Mh-1)

.(1)

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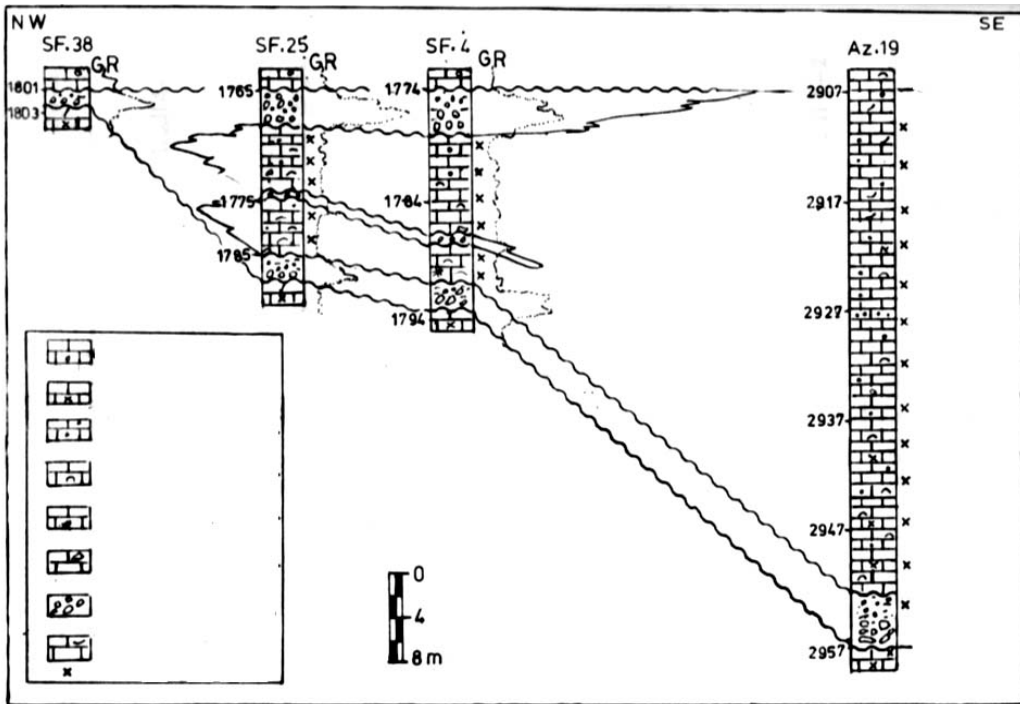
(GR)

.(3)

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.(Az-19)

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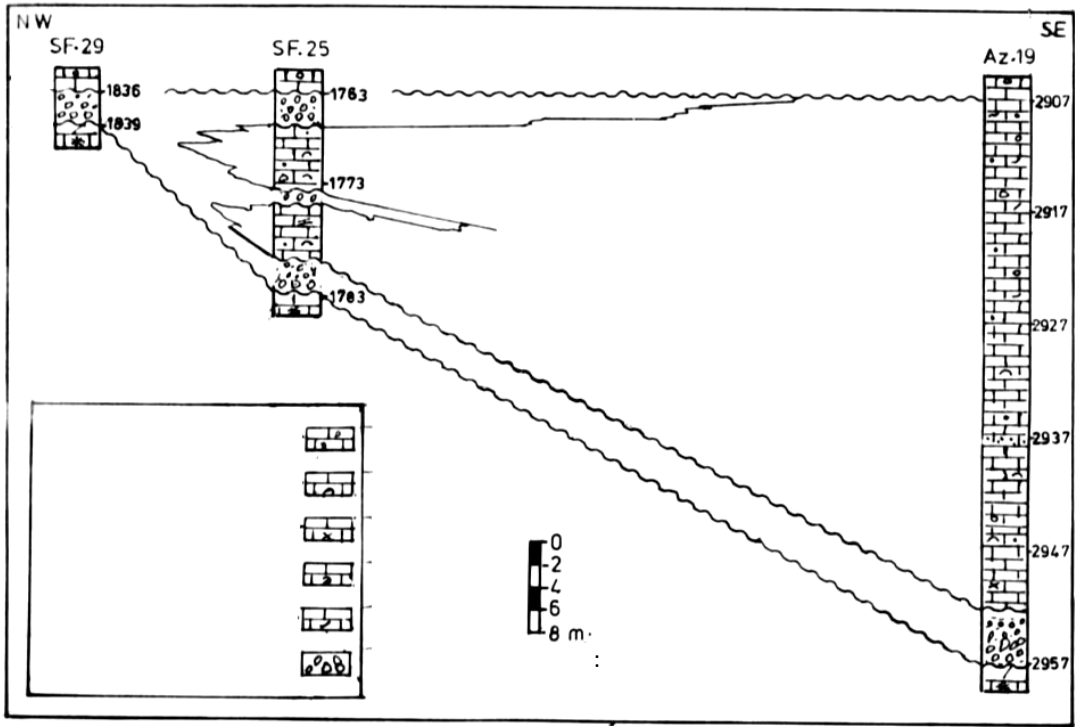
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(GR)

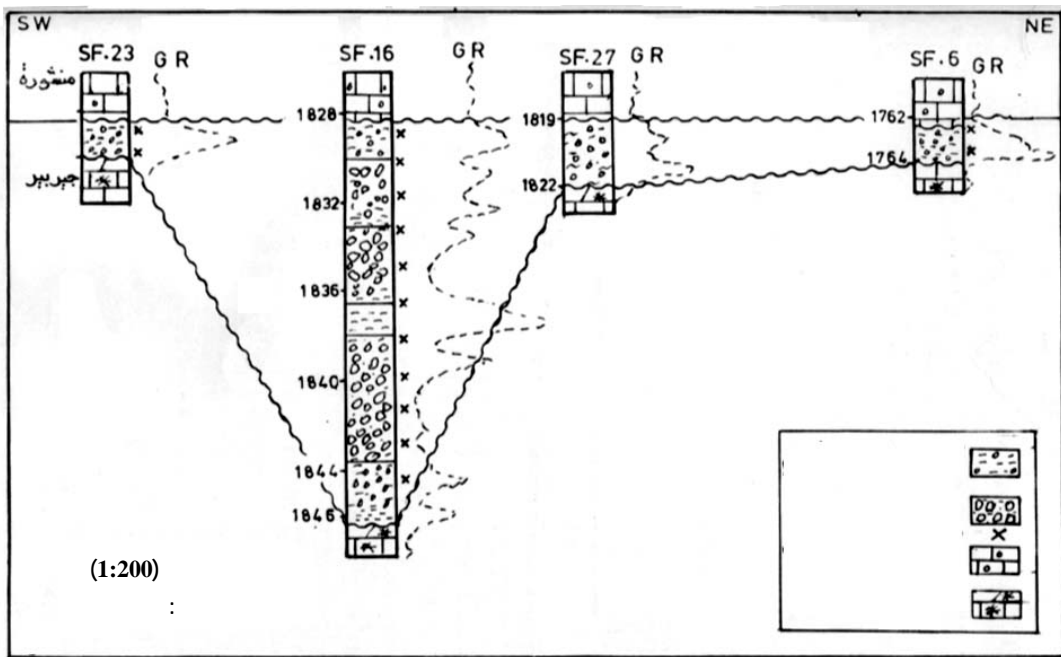
(4,3)

(5)

(Sf-16) (18)



(-) :4



(-) :5

(El-Nakhal, 1988)

(Buday, 1980)

(1)

:1

STABLE SHELF							MIOGEOSYNCLINE AND UNSTABLE SHELF									
		AL-NAKHAL 1988		BUDAY, 1980			Present Work	BUDAY, 1980								
Age	Area	Palestine	Jordan	North East Syria	South Turkey	Saudi Arabia	Ga'ara and khleisia uplifts DeirEz Zor	IRAQ								
								Safia-Ain Zala	Mosul Uplift High Folded	South and Middle	SE-Mosul Uplift Kirkuk	North Eastern				
Senonian	Campanian	JUDEA GROUP	Qatran Formation	Phosphoric Sandstone Formation	PHOSPHORITIC KARABABA FORMATION	Aruma Formation	Absent	Absent or represented by Conglomerate unit	Absent	Absent	Hartha Formation	Absent or included in Shiranish Formation	BALAMBO FORMATION			
	Santonian		JUDEA FORMATION	Derro Red Beds		Absent					Absent			Absent	Absent	Absent
	Coniacian											Absent or thin Judea kometan equivalents				
Turonian	JUDEA FORMATION	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	BALAMBO FORMATION				
Cenomanian													JUDEA FORMATION	Absent	Absent	Absent

(Turonian-Early Campanian)

(-)

(-)

(Lagoon)

(Dunnington, 1956; Bellen *et al.*, 1959; Chatton and Hart, 1961; Chatton, 1962)

(2)

(Ditmar *et al.*, 1971)

(Buday , 1980)

(-)

:2

الدراسة الحالية اعتماداً على الموقع الطبقي	N.P.O. (1986)	Buday (1980)	Chatton (1962)	Chatton & Hart (1961)	Bellen <i>et al.</i> (1959)	الباحث السحنة او التكوين
الكامباني المبكر	الكامباني المبكر	السنوني المتأخر	الكامباني	الكامباني	الكامباني المبكر	سحنة مشورة
السانتوني المتأخر			السانتوني المتأخر			الوحدة الجيرية
التوروني الاوسط الى نهاية الكوينسي				التوروني المبكر		الوحدة الحالية وحدة الدملكات
السينوماني	السينوماني - التوروني المبكر	السينوماني	السينوماني	السينوماني	السينوماني - التوروني المبكر	سحنة الجيربير

(Murriss , 1980) (Saint-marc , 1978)

(Sub Hercynian)

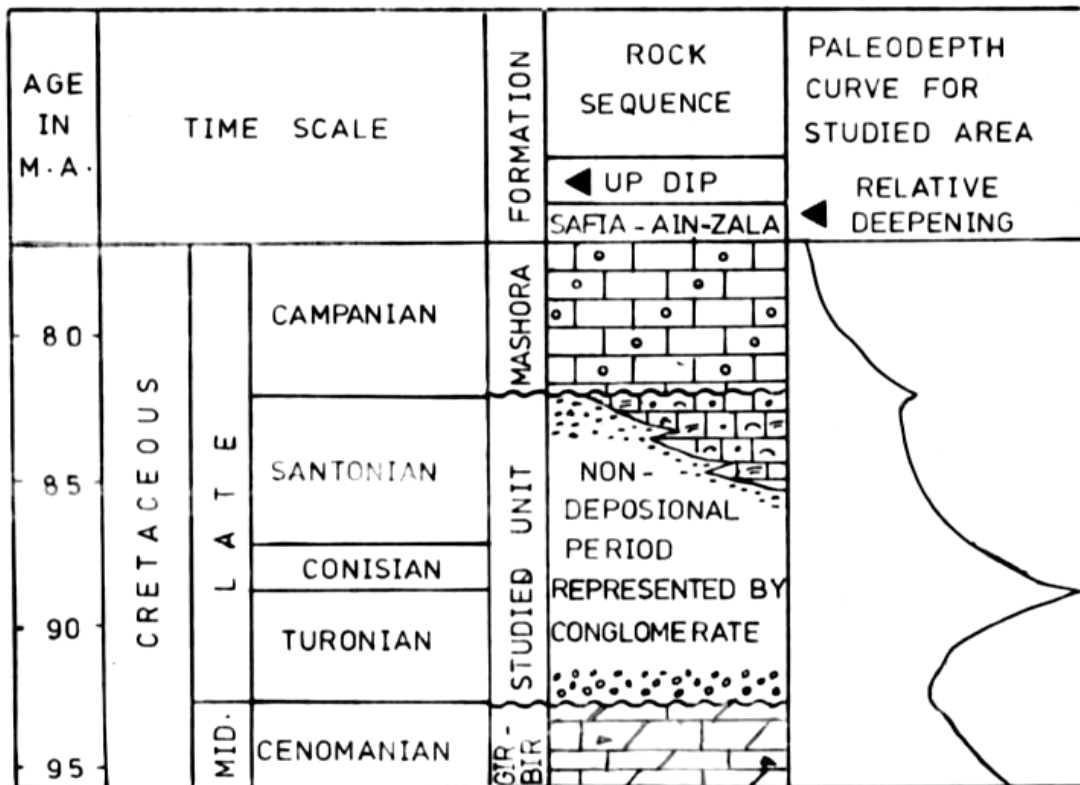
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(6)



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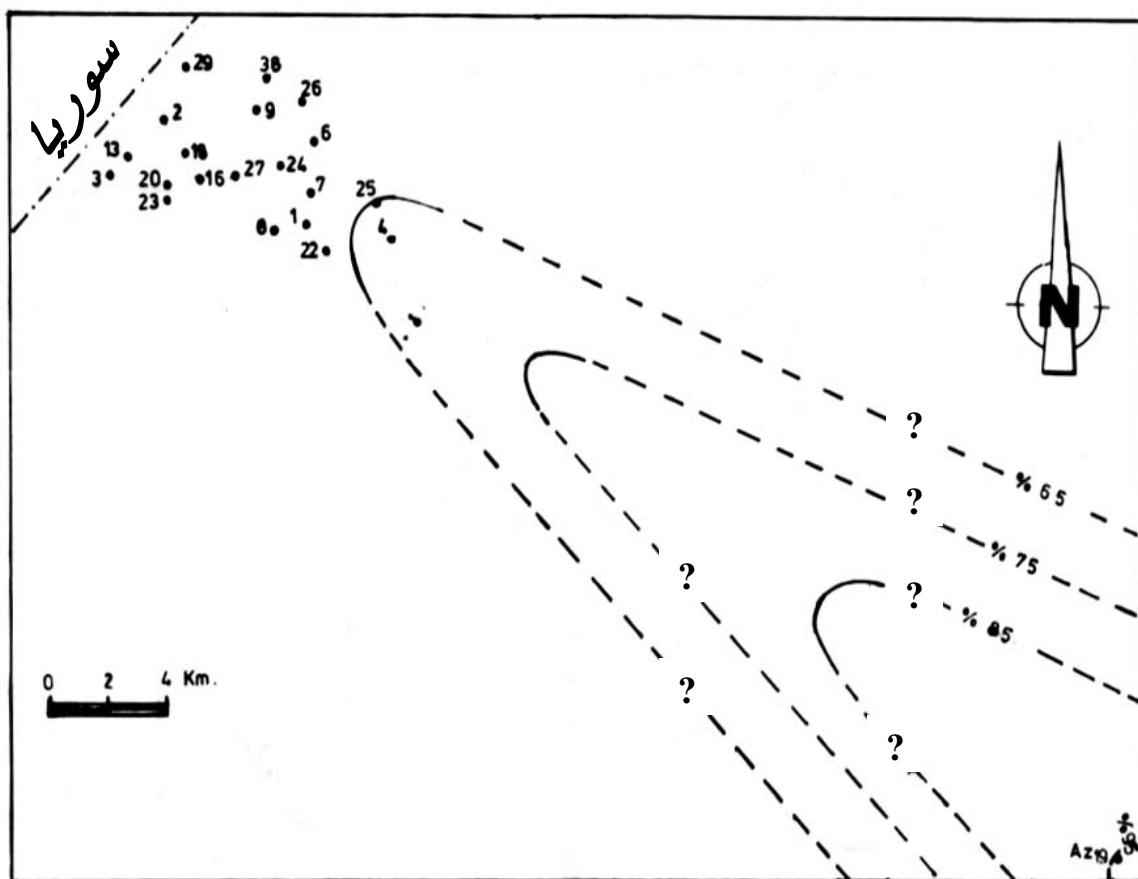
(Chatton and Hart , 1961)

(-)

(Sf-25)

(Az-19)

(7)



(/)

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- .1998
- . 74
- () .1991
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- .1981
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