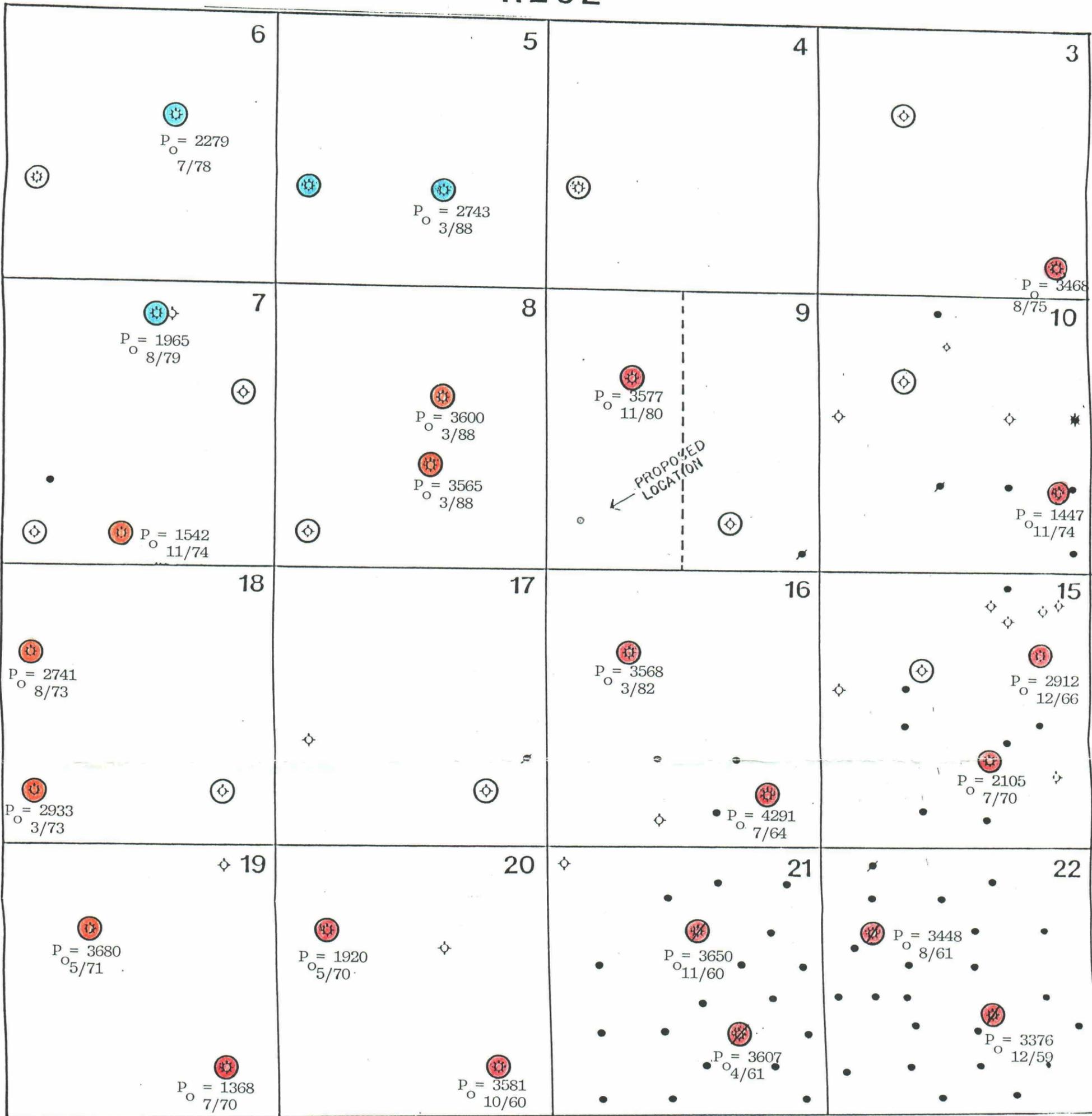


R26E



MOC

MEWBOURNE OIL COMPANY

5 MILE PROSPECT
GIN #1
Section 9-T18S-R26E
Eddy County, New Mexico

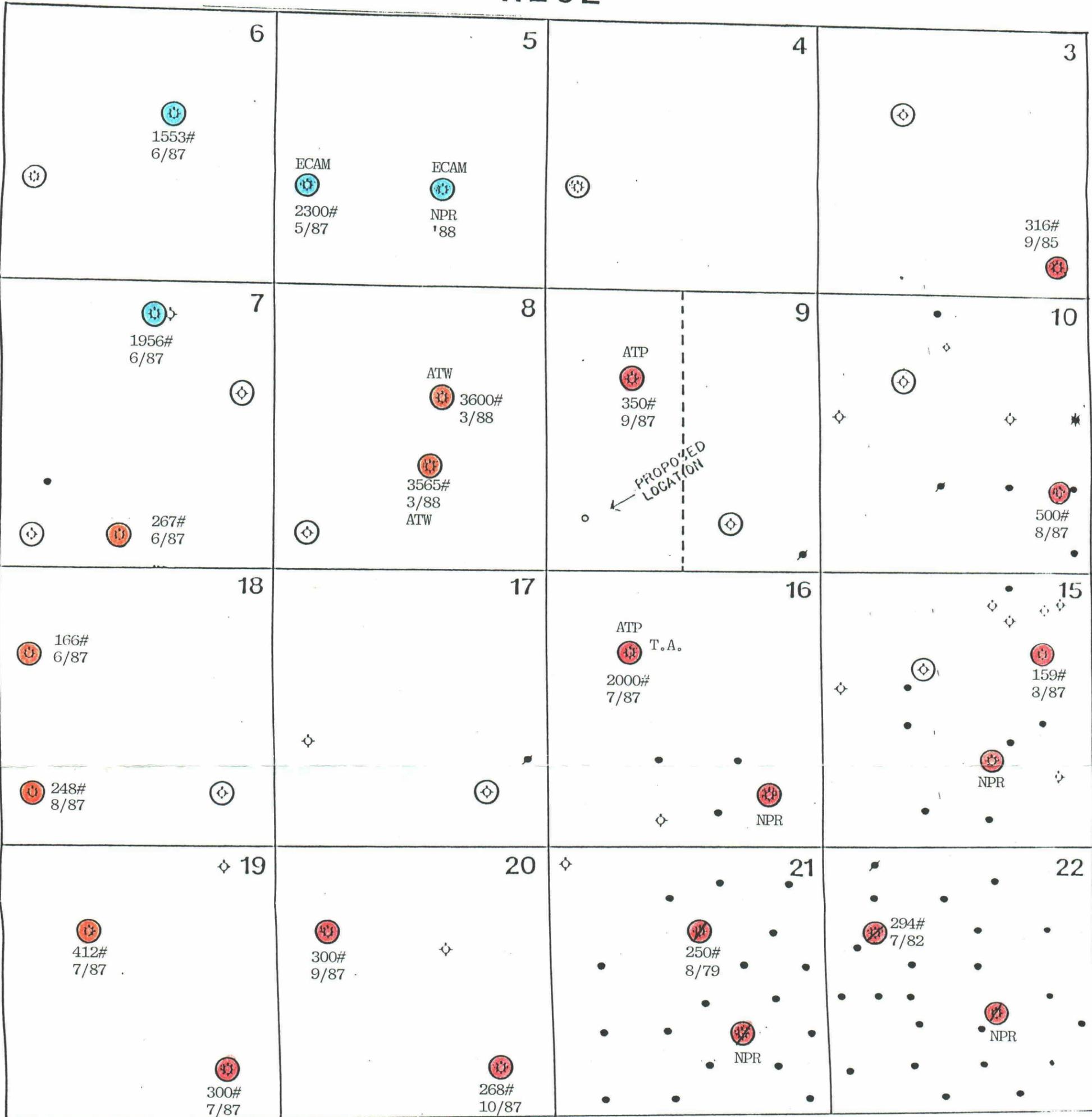
Initial Bottom Hole Pressures
Date

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION

Mewbourne EXHIBIT NO. 10A

CASE NO. 9862

R26E



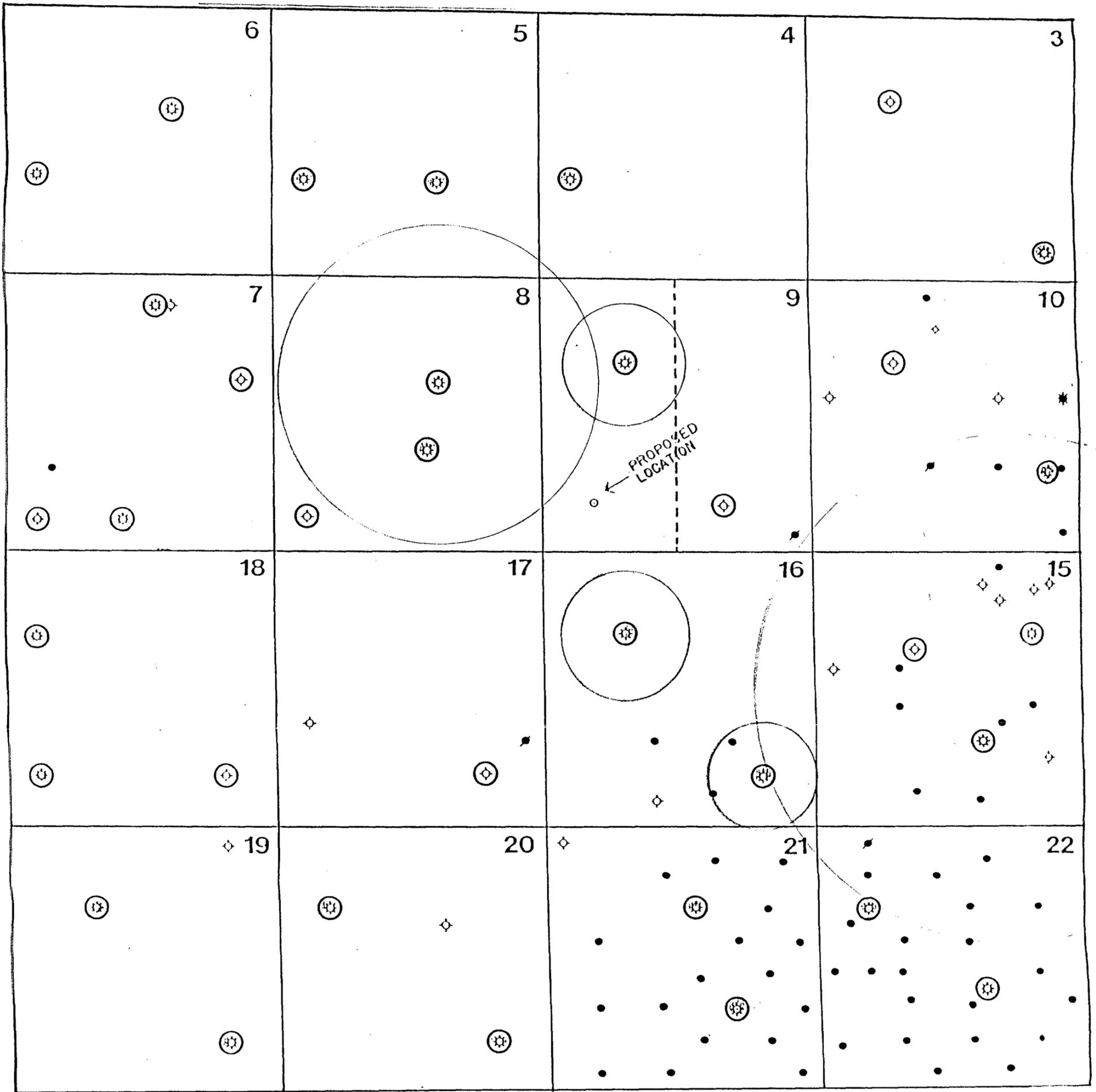
MEWBOURNE OIL COMPANY

- ATW - Atoka Morrow, West ●
- ATP - Atoka Penn ●
- ECAM - Eagle Creek Atoka ●
- NPR - No Pressure Reported ●

BEFORE EXAMINER CATANACH
 OIL CONSERVATION DIVISION
Mewbourne EXHIBIT NO. 10B
 CASE NO. 9862

5 MILE PROSPECT
 GIN #1
 Section 9-T18S-R26E
 Eddy County, New Mexico
 Current or Last Reported Pressures
 Date

R26E



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MEWBOURNE OIL COMPANY

FIVE MILE PROSPECT

Ultimate Drainage for Area Wells

(Assumes Radial Drainage)

FIELD EXAMINER CATANACH
OIL CONSERVATION DIVISION
MEWBOURNE
EXISTING NO. 11
9862

VOLUMETRIC CALCULATIONS

FIVE MILE PROSPECT

Dayton Com. #1
Sec. 16-18S-26E
Atoka Penn

Well Data and Assumptions:

Average Porosity: 8%
Average Water Saturation: 35%
Average Reservoir Height: 10 ft.
 $P_o = 3500$ psi
 $Bg_o = 215$
 $P_a = 200$ psi
 $Bg_a = 12$
Cumulative Production as of 1/89: 258 MMCF
10% Exponential Decline
Expected Ultimate Cum.: 513 MMCF

$$G = (43.56)(\phi)(1-S_w)(Bg_o - Bg_a)(A)(h)$$

$$(A)(h) = \frac{513,000}{(43.56)(.08)(.65)(203)} = 1116 \text{ ac. ft.}$$

A = 112 acres ultimately drained.

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
Newbourn EXHIBIT NO. 12
CASE NO. 9862

VOLUMETRIC CALCULATIONS

FIVE MILE PROSPECT

Marathon State Com. #1
Sec. 16-18S-26E
Atoka Penn

Well Data and Assumptions:

Average Porosity:	8%
Average Water Saturation:	35%
Average Reservoir Height:	10 ft.
$P_o = 3500$ psi	
$Bg_o = 215$	
$P_a = 200$ psi	
$Bg_a = 12$	
Cumulative Production as of 3/89:	389 MMCF
Expected Ultimate Cum.:	389 MMCF

$$G = (43.56)(\emptyset)(1-S_w)(B_{g_o} - B_{g_a})(A)(h)$$

$$(A)(h) = \frac{389,000}{(43.56)(.08)(.65)(203)} = 846 \text{ ac. ft.}$$

A = 85 acres ultimately drained.

VOLUMETRIC CALCULATIONS

FIVE MILE PROSPECT

Chumbley XS Com. #1
Sec. 8-18S-26E
Atoka Morrow, West

Well Data and Assumptions:

Average Porosity:	10%
Average Water Saturation:	35%
Average Reservoir Height:	8 ft.
P_o = 3600 psi	
Bg_o = 220	
P_a = 200 psi	
Bg_a = 12	
Cumulative Production as of 5/89:	1266 MMCF and 500 BC
30% Decline for 1 year and 10% Decline thereafter	
Expected Ultimate Cum.:	3400 MMCF

$$G = (43.56)(\emptyset)(1-S_w)(B_{g_o} - B_{g_a})(A)(h)$$

$$(A)(h) = \frac{3,400,000}{(43.56)(.10)(.65)(208)} = 5773 \text{ ac. ft.}$$

A = 722 acres ultimately drained.

VOLUMETRIC CALCULATIONS

FIVE MILE PROSPECT

Spencer Com #1
Sec. 9-18S-26E
Atoka Penn

Well Data and Assumptions:

Average Porosity:	8%
Average Water Saturation:	35%
Average Reservoir Height:	5 ft.
P_o =	3570 psi
Bg_o =	218
P_a =	200 psi
Bg_a =	12
Cumulative Production as of 1/90:	230 MMCF
Expected Ultimate Cum:	230 MMCF

$$G = (43.56)(\emptyset)(1-S_w)(B_{g_o} - B_{g_a})(A)(h)$$

$$(A)(h) = \frac{230,000}{(43.56)(.08)(.65)(206)} = 493 \text{ ac. ft.}$$

A = 99 acres ultimately drained

VOLUMETRIC CALCULATIONS

FIVE MILE PROSPECT

C. R. Martin #1 and Paul Terry Com. #1
Sec. 15-18S-26E
Atoka Penn

Well Data and Assumptions:

Average Porosity:	10%
Average Water Saturation:	35%
Average Reservoir Height:	20 ft.
$P_o = 3000$ psi	
$Bg_o = 200$	
$P_a = 200$ psi	
$Bg_a = 12$	
Cumulative Production as of 3/89:	19,251 MMCF
10% Exponential Decline	
Expected Ultimate Cum.:	19,750 MMCF

$$G = (43.56)(\emptyset)(1-S_w)(B_{g_o} - B_{g_a})(A)(h)$$

$$(A)(h) = \frac{1,975,000}{(43.56)(.10)(.65)(188)} = 37,103 \text{ ac. ft.}$$

A = 1844 acres ultimately drained.

1989 TOP ALLOWABLE IN ATOKA PENN

FIVE MILE PROSPECT

<u>DATE</u>	<u>TOP ALLOWABLE</u>
1/89	12,673
2/89	6,450
3/89	4,191
4/89	6,013
5/89	7,136
6/89	8,152
7/89	5,430
8/89	9,384
9/89	9,850
10/89	10,189
11/89	7,440
12/89	7,087

1989 Average Top Allowable - 7,833 MCF

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
Newbourne EXHIBIT NO. 13
CASE NO. 9862

PROJECTED PRODUCTION AND DRAINAGE

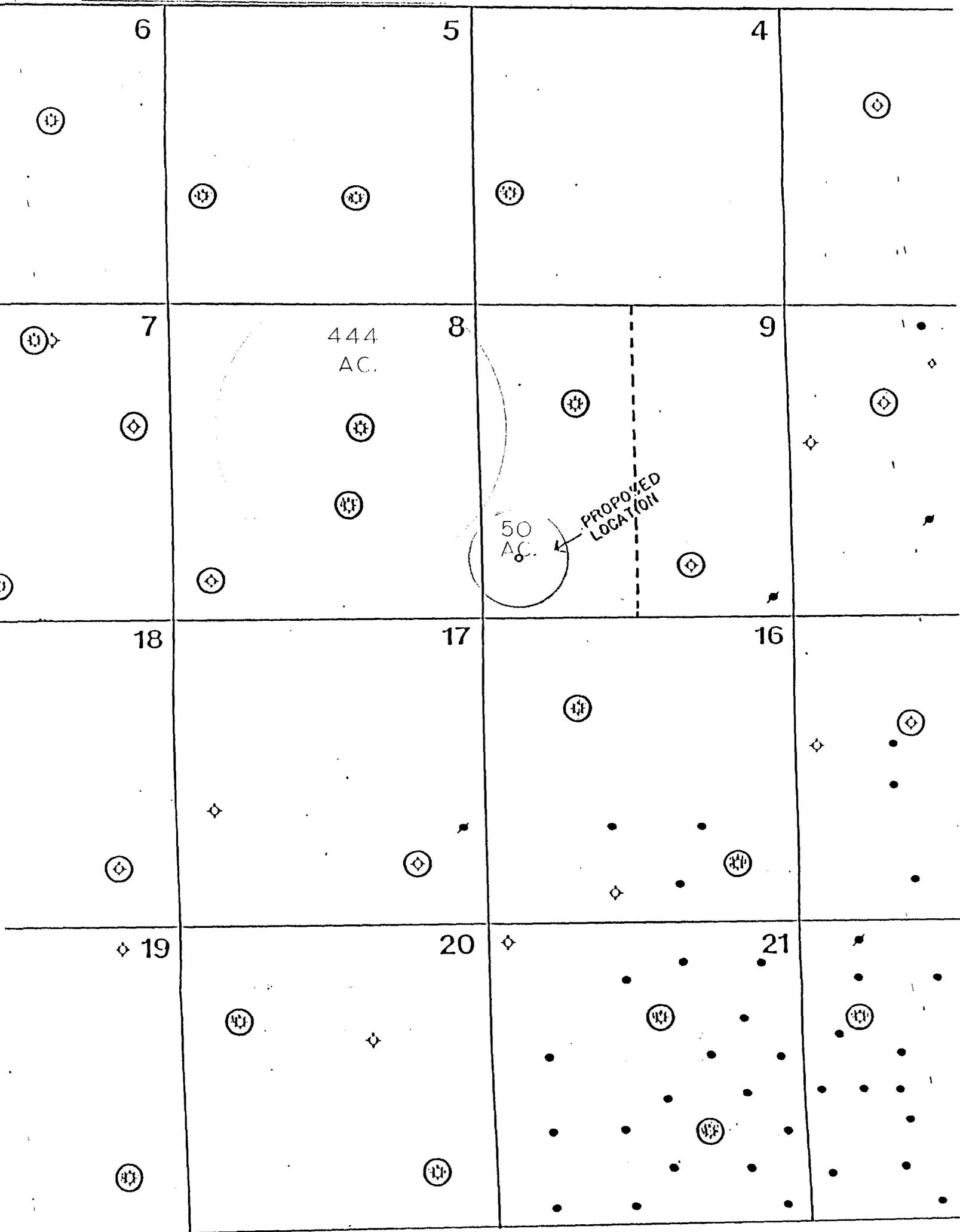
FIVE MILE PROSPECT

	<u>DATE</u>	<u>MMCF</u>	<u>ACRES</u>
Chumbley #1	6/90	1406	298
	1/93	2090	444
	1/94	2270	482
	1/96	2620	556
Gin #1	6/90	1st Production	0
	1/93	235	50
	1/94	329	70
	1/96	517	110

Gin #1 production assumes an average allowable of 7833 MCF/Mo.

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
Newbome EXHIBIT NO. 14
CASE NO. 9862

R26E



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MEWBOURNE OIL COMPANY

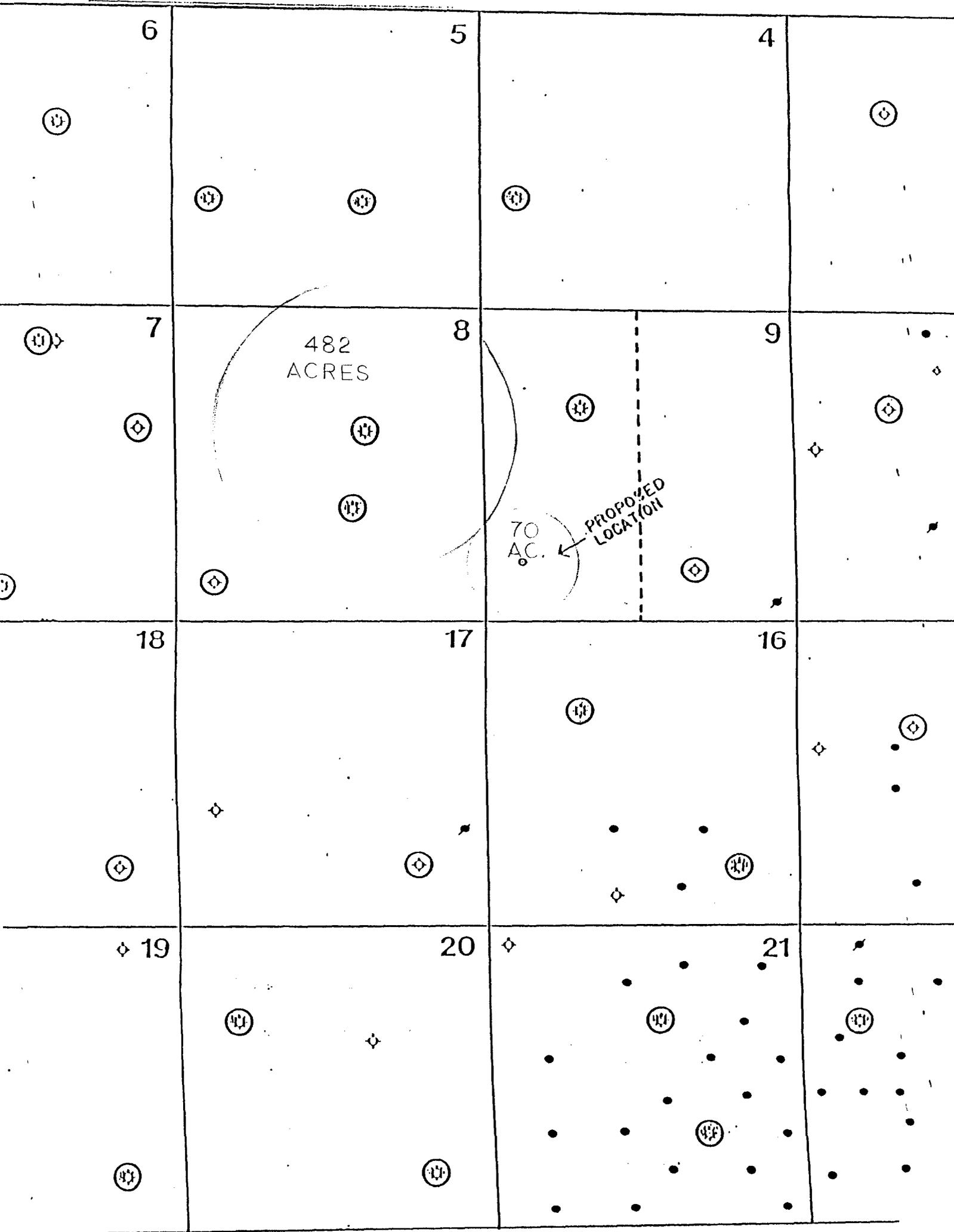
A

FIVE MILE PROSPECT

Drainage Interference
From Offset

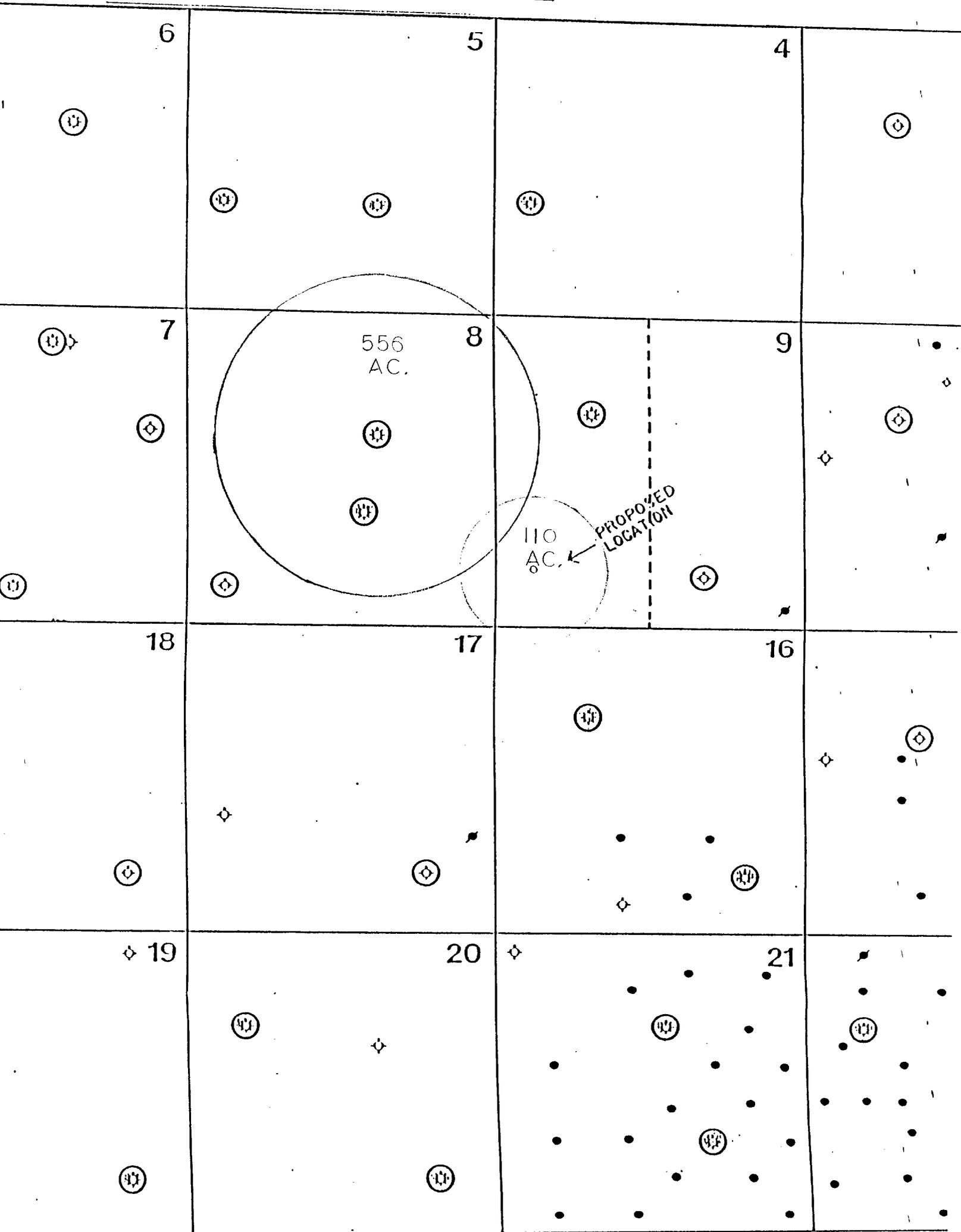
1/93

R26E



	MEWBOURNE OIL COMPANY
B	
FIVE MILE PROSPECT	
Drainage Interference From Offset	
1/94	

R26E



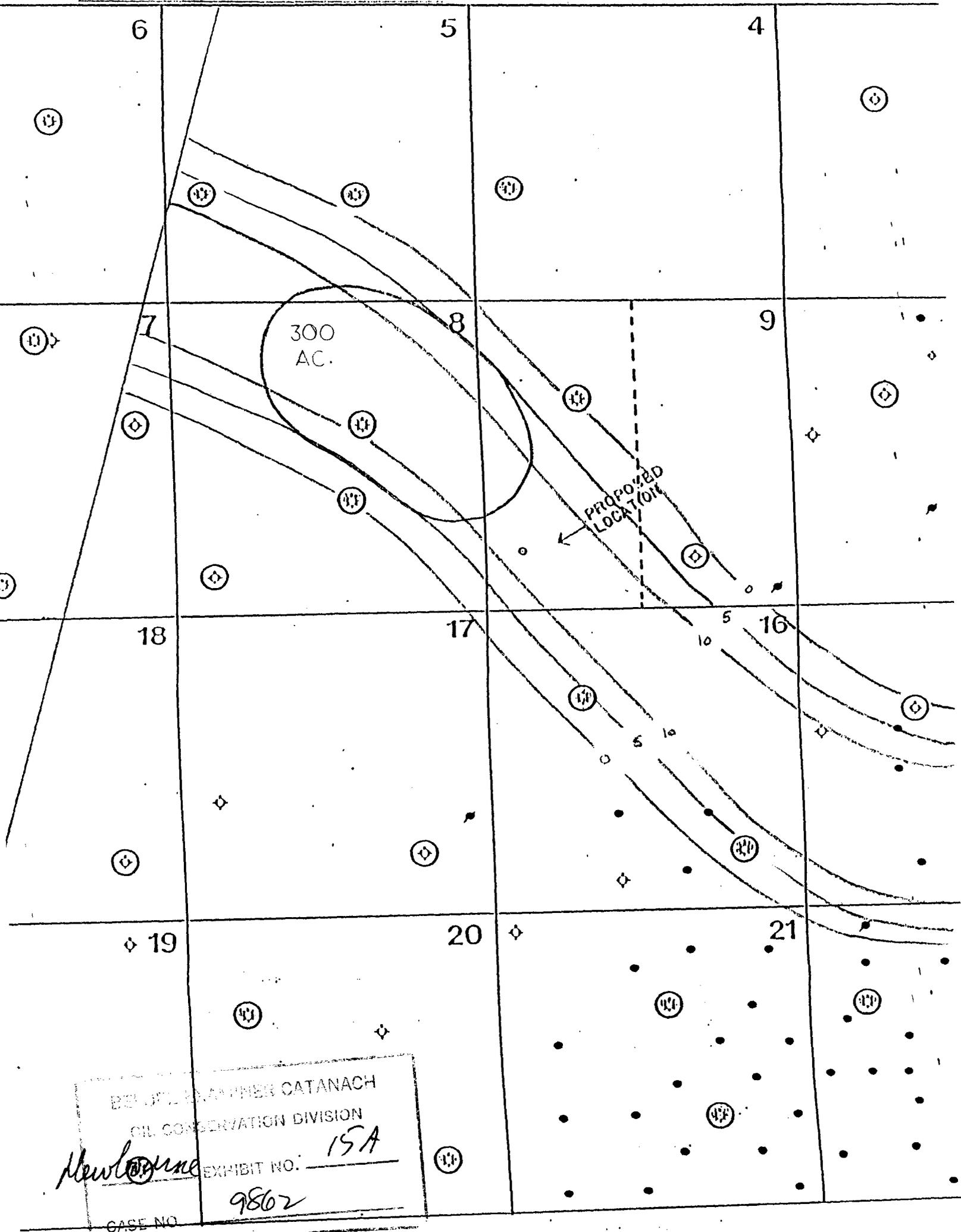
MOC

MEWBOURNE OIL COMPANY

C

FIVE MILE PROSPECT
Drainage Interference
From Offset
1/96

R26E



300
AC.

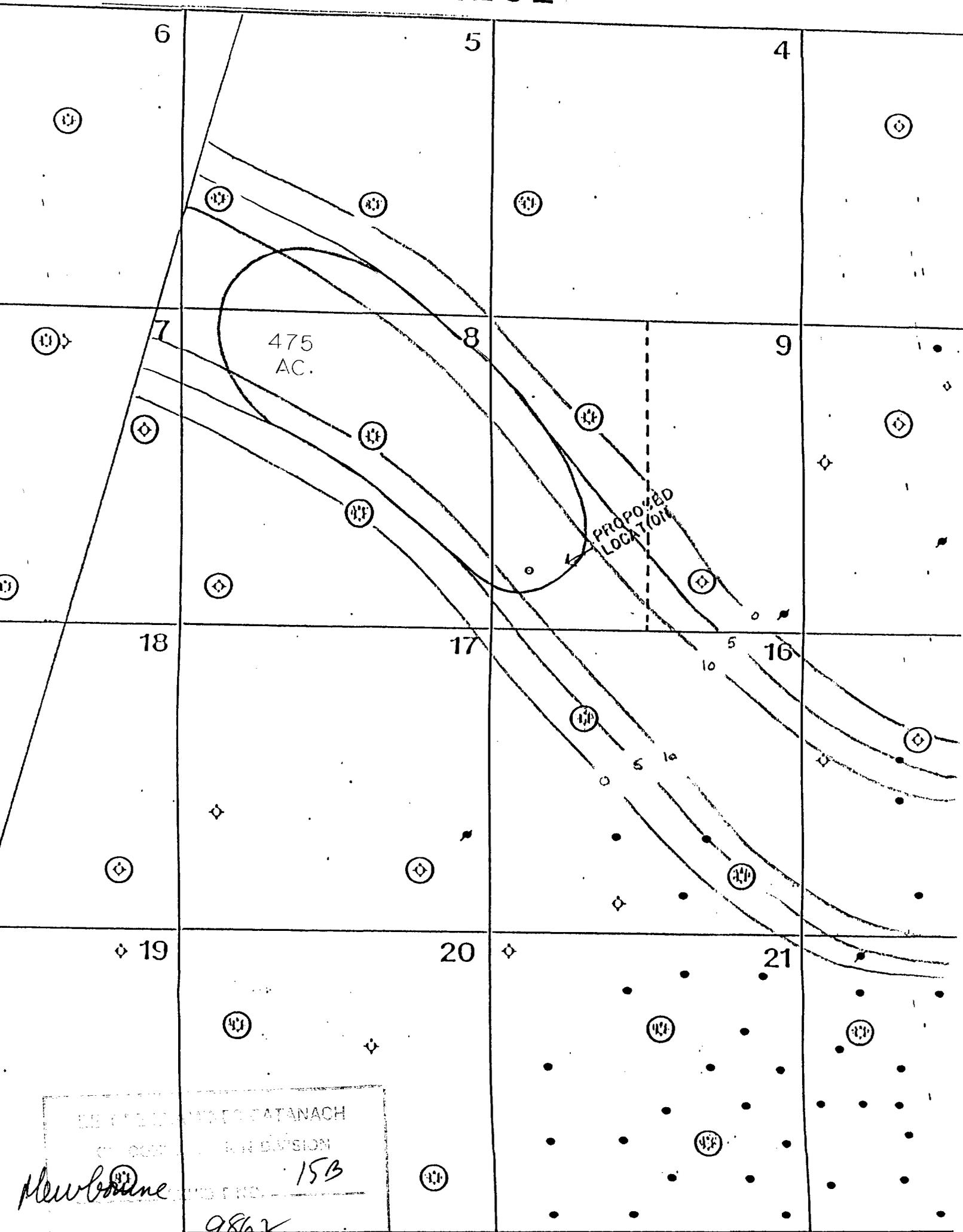
Proposed
Location

BEULAH HANMER CATANACH
OIL CONSERVATION DIVISION
Mewbourne EXHIBIT NO. 15A
CASE NO. 9862

MOC MEWBOURNE OIL COMPANY

A
FIVE MILE PROSPECT
300 Acre Drainage

R26E



REVIEWED BY: WALTER CATANACH
DIVISION: 15B
Mewbourne
9862

MOC	MEWBOURNE OIL COMPANY
B FIVE MILE PROSPECT	
475 Acre Drainage	