

Case No.

250

Application, Transcript,  
Small Exhibits, Etc.

NO. Case 250 App. of Tidewater Associated -  
ADDR St. 3<sup>rd</sup> No. 3 well, 15-218-37E, Lea County.

DATE

NOTICE OF PUBLICATION  
STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

The State of New Mexico by its Oil Conservation Commission hereby gives notice pursuant to law and the Rules and Regulations of said Commission promulgated thereunder, of the following public hearing to be held January 25, 1951, beginning at 10:00 o'clock A.M. on that day in the City of Santa Fe, New Mexico, in the Capitol.

STATE OF NEW MEXICO TO:

All named parties in the following cases and notice to the public:

Case 249

In the matter of the application of Amerada Petroleum Corporation for a temporary order establishing proration units and uniform spacing of wells for the Bagley-Siluro-Devonian pool, comprising SE $\frac{1}{4}$  Sec. 34; S $\frac{1}{2}$  Sec. 35; SW $\frac{1}{4}$  Sec. 36, all in Township 11 south, Range 33 east, and W $\frac{1}{2}$  Sec. 1; all Sec. 2; E $\frac{1}{2}$  Sec. 3; E $\frac{1}{2}$  Sec. 10; all Sec. 11; W $\frac{1}{2}$  Sec. 12, all in Township 12 south, Range 33 east, Lea County, New Mexico.

Case 250

In the matter of the application of Tidewater Associated Oil Company for the inclusion of its State "S" No. 3 well, located in the NE $\frac{1}{4}$  Section 15, Township 21 south, Range 37 east, Lea County, New Mexico, within a recognized pool upon the basis of evidence to be submitted.

Given under the seal of the Oil Conservation Commission of New Mexico, at Santa Fe, New Mexico, on January 5, 1951.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

SEAL

*Surrie*  
R. R. SPURRIER, SECRETARY

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED  
BY THE OIL CONSERVATION COMMISSION OF  
THE STATE OF NEW MEXICO FOR THE PURPOSE  
OF CONSIDERING:

CASE No. 250  
ORDER No. R-51

IN THE MATTER OF THE APPLICATION OF  
TIDE WATER ASSOCIATED OIL COMPANY  
FOR THE EXTENSION OF THE BRUNSON POOL  
IN LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This matter came on for hearing on January 25, 1951, at Santa Fe, New Mexico, and the Commission having heard the evidence and the argument of counsel, and being duly advised finds:

1. It has jurisdiction of the subject matter and of the interested parties, due notice of this hearing having been given.

2. The following area, to-wit:

N/2 section 15, Township 21 South,  
Range 37 East N. M. P. M., Lea County, New Mexico

is a part of the common reservoir heretofore designated as the Brunson pool, and said pool should be extended so as to embrace the above described lands.

IT IS, THEREFORE, ORDERED:

That the Brunson pool, producing from the Ellenburger formation, is hereby extended to include the N/2 section 15, Township 21 South, Range 37 East.

DONE at Santa Fe, New Mexico on this 29 day of January 1951.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

*Edwin L. Mechem*  
EDWIN L. MECHEM, Chairman

*Guy Shepard*  
GUY SHEPARD, Member

*R. R. Spurrer*  
R. R. SPURRIER, Secretary

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BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION  
OF TIDEWATER ASSOCIATED OIL COM-  
PANY FOR THE EXTENSION OF THE  
BRUNSON POOL IN LEA COUNTY,  
NEW MEXICO.

CASE NO. 250  
ORDER NO. R 51 ✓

O R D E R

This matter came on for hearing on 25 January, 1951, at  
Santa Fe, New Mexico, and the Commission having heard the evidence  
and the argument of counsel, and being duly advised finds:

1. It has jurisdiction of the subject matter and of  
the interested parties, due notice of this hearing having been  
given.

2. The following area, to-wit:

~~SE/4~~; N/2, Section 15, Township  
21 South, Range 37 East, Lea County,  
New Mexico,

is a part of the common reservoir heretofore designated as the  
Brunson Pool, and said pool should be extended so as to embrace  
the above described lands.

IT IS, THEREFORE, ORDERED:

That the Brunson Pool, producing from the Ellenburger  
formation, is hereby extended to include the ~~SE/4~~ and the N/2 of  
Section 15, Township 21 South, Range 37 East.

DONE this 27 day of January, 1951.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

By \_\_\_\_\_  
By \_\_\_\_\_  
By \_\_\_\_\_

1/29

TIDE WATER ASSOCIATED OIL COMPANY

MID-CONTINENT DIVISION

Drawer KK  
Hobbs, New Mexico  
December 20, 1950

Mr. R.R. Spurrier  
Secretary-Director,  
State of New Mexico Oil Conservation Commission  
P.O. Box 871  
Santa Fe, New Mexico

Dear Sir:

In compliance with the New Mexico Oil Conservation Commission order pertaining to extending present pool limits and the establishment of new pools, we are submitting the following information:

On 11-22-50, our company, the Tide Water Associated Oil Company, completed the State "S" #3 well in the Ellenberger formation. This well is located in the N/2 of the N/2 of Section 15, T-21-S, R-37-E. This is approximately three-fourths of a mile from the nearest production in the Brunson Pool, which included wells producing in the Ellenberger formation in this area.

We are submitting the following information in evidence that the subject well is producing from the same productive horizon as are the wells in the Brunson Pool and furthermore is an extension of the Brunson Field.

Exhibit "A": Plat of the Northern portion of the Brunson Field, Lea County, New Mexico. This plat presents the boundaries of the pool and shows the location of our State "S" #3.

Exhibit "B": Geological information pertaining to the subject well and indicating why it should be included in the Brunson Field.

Exhibit "C": A tabulation of information pertaining to the wells which are in the northern portion of the Brunson Field.

Exhibit "D": A tabulation of information pertaining to the drilling and completion of the Tide Water State "S" #3.

We believe the above evidence to prove that the Tide Water State "S" #3 is producing from the Brunson Pool and we ask that it be recognized as such by the New Mexico Oil Conservation Commission.

TIDE WATER ASSOCIATED OIL COMPANY

*John M. Mintz*  
John M. Mintz  
Field Engineer Sr.

W/Hew  
:1.

Exhibit "B"

GEOLOGICAL INFORMATION

It is our opinion that this well is an extension to the Brunson Field for the following reasons:

1. Similarity of sections with (for example) Ohio #5 Warlick "C" (330' FSL and 2310' FEL of Section 15, T-15-S, R-37-E). The Ohio well went from Permian into an eroded surface of Simpson at 7400' (-3973) and from Simpson into another eroded surface of Ellenberger at 7650' (-4223') and into granite at 7815' (-4388').

Similarly, our well went from Permian into an eroded surface at 7430' (-3972), but due to the fact that the granite is 234' higher (7612' or -4154) in our well most of the Simpson had been removed leaving only 40' of detrital Simpson and granite wash before entering an eroded surface of Ellenberger at 7470' (-4012').

The Ellenberger sections in the two wells are identical in lithology, texture and color, being a tan, medium crystalline, granular, sucrosic dolomite with numerous rounded coarse quartz grains.

2. It is evident that both wells are producing from the same reservoir, an eroded Ellenberger, decreasing in thickness to the east to nil as the granite gets higher, and overlain by Simpson shale. As shown by Moran #2 Owens in Section 14, when the Ellenberger has been completely removed, granite wash and granite is entered directly from the Permian.

EXHIBIT "C"  
A TABULATION OF WELL DATA  
NORTHERN PORTION BRUNSON POOL  
Lea County, New Mexico

<u>Company</u>	<u>Lease</u>	<u>Well No.</u>	<u>S.T.R.</u>	<u>Compl. Date</u>	<u>Elev.</u>	<u>Top Pay</u>	<u>Sub-sea Top Pay</u>	<u>Total Depth</u>
Amerada	Hare	4	33-21-37	3-19-47	3459	7900	-4441	7938
		5	33-21-37	5-17-49	3456	7805	-4349	7856
Continental	Lockhart	1	27-21-37	7-10-49	3431	7670	-4239	7782
		2	27-21-37	7-17-50	3432	-	-	7865
	Wantz	1	21-21-37	10-28-48	3459	8100	-4641	8270
		2	21-21-37	12-16-49	3478	8041	-4562	8230
Gulf	Carson	5	33-21-37	2-8-49	3456	7359	-3903	7442
		7	33-21-37	6-21-48	3459	7404	-3945	7644
		8	28-21-37	8-3-49	3435	7565	-4130	7741
		5	28-21-37	2-1-48	3444	7782	-4338	7910
		6	28-21-37	4-17-48	3446	7365	-3919	7500
	King	7	28-21-37	3-6-48	3447	7904	-4457	8063
		10	28-21-37	6-5-48	3456	7865	-4409	8040
		12	28-21-37	3-9-49	3441	7747	-4306	7979
		15	28-21-37	5-13-49	3461	7942	-4481	8146
		17	28-21-37	7-26-49	3466	8021	-4555	8168
		18	28-21-37	9-25-49	3468	8065	-4597	8140
		21	28-21-37	4-1-50	3440	7736	-4296	7935
	Eubanks	5	22-21-37	4-11-50	-	7631	-	7756
		6	22-21-37	6-11-50	3425	7572	-4147	7686
Magnolia	Carson	10	33-21-37	2-24-48	3464	8190	-4726	8216
		13	33-21-37	9-15-47	3461	7596	-4135	7591
		14	33-21-37	12-26-47	3471	8190	-4719	8220
		16	33-21-37	6-7-48	3474	8176	-4702	8220
		17	28-21-37	7-28-48	3461	8112	-4651	8156
		18	28-21-37	10-20-48	3476	8130	-4654	8175
		19	28-21-37	1-22-49	3473	8080	-4607	8173
	Corrigan	2	33-21-37	12-17-47	3462	7310	-3848	7470
		1	33-21-37	4-7-47	3459	7644	-4185	7679
		4	33-21-37	4-29-47	3451	7610	-4159	7662
		7	33-21-37	8-30-47	3449	7430	-3981	7446
Ohio	Marshall	7	27-21-37	4-7-50	3420	7590	-4170	7774
	Warlick	5	15-21-37	7-10-50	3427	7711	-4284	7827
Shell	Argo	5	15-21-37	9-5-50	3429	7785	-4356	8091
		6	22-21-37	7-3-50	3428	7670	-4242	7810
	Turner	7	22-21-37	12-5-49	3430	8095	-4665	8180
		9	22-21-37	3-20-50	3423	7725	-4302	7951
		11	22-21-37	8-1-50	3420	7559	-4139	7782
Stanolind	Corrigan	2	33-21-37	5-26-47	3449	7410	-3961	7452
Tide Water	State "S"	3	15-21-37	11-22-50	3456	7470	-4014	7631

EXHIBIT "D"

Well Data - State "S" #3

Tide Water Associated Oil Company, Brunson Field  
Lea County, New Mexico

Spudded: October 3, 1950  
Completed: November 22, 1950

Pipe Program:

13 3/8" @ 260' w/300 sax cement  
8 5/8" @ 3004' w/2000 Sax cement  
5 1/2" @ 7631' w/500 Sax cement

Perforation Record: 7550' - 7612' w/372 1/2" holes by Lane-Wells

Acid Record: Well would not flow and was acidized with 1000 gallons  
of 15% Mud acid by Dowell, Inc.

Initial Potential: Well flowed 162 barrels oil in 12 hours on a 5/16"  
choke with a Gas-oil ratio of 740/1.

Gravity: 42 degrees API Sulphur Content: None

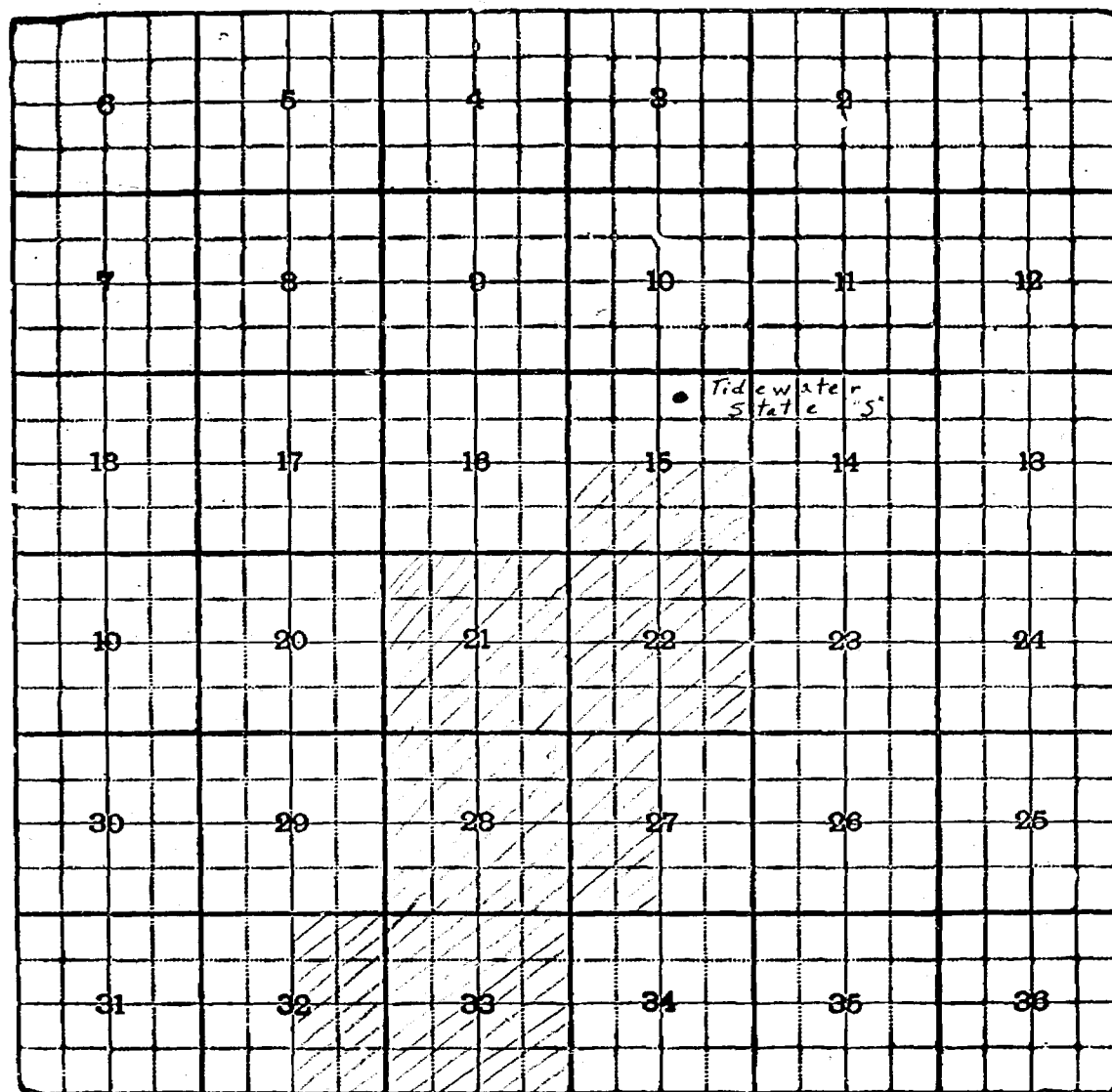
Formation Water: None

Bottom Hole Pressure: 2066 psi @ -4300' after 48 hrs. Shut In Period.

112 0 N 30 N

Township No. T. 21 S of Range No. R. 7 E

New Mexico Principal Meridian.



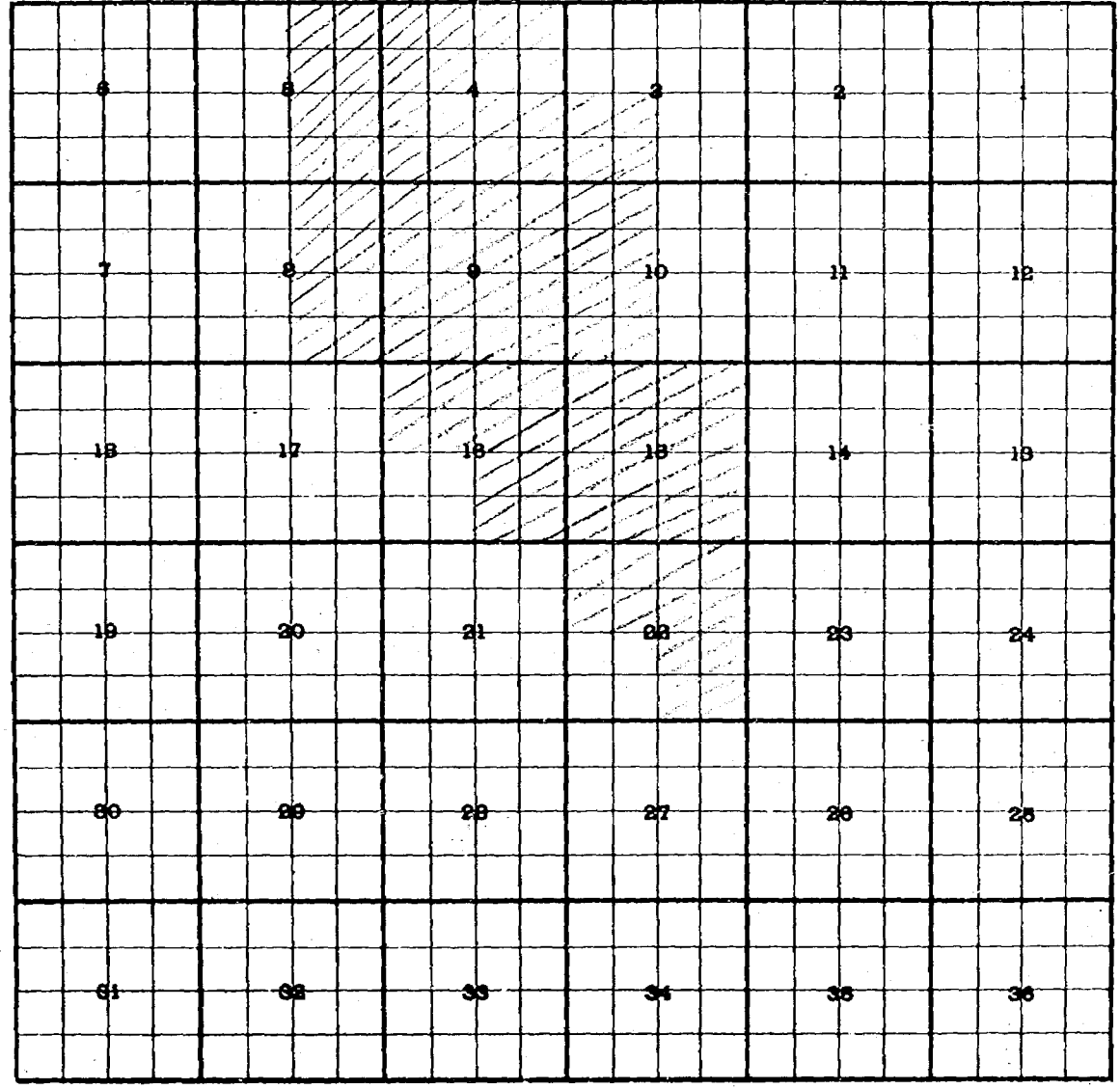
↓  
22 S - R. 7 E

1-5-51

IRVINGSON (1911)

County 28 Pool 37E

TOWNSHIP \_\_\_\_\_ South, RANGE \_\_\_\_\_ East, NEW MEXICO PRINCIPAL MERIDIAN



OK SE/16

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