

Case No.

476

Application, Transcript,  
Small Exhibits, Etc.

CASE 476: Tide Water dual completion -  
Sarkeys #4, SE NW 26-21S-37E, Drinkard Pool  
(oil from Drinkard, gas from Tubb)

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

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

CASE NO. 476  
ORDER No. R-267

THE APPLICATION OF TIDE WATER  
ASSOCIATED OIL COMPANY FOR AN  
ORDER GRANTING PERMISSION TO DUALY  
COMPLETE AND PRODUCE ITS S. J. SARKEYS,  
WELL NO. 4, LOCATED IN THE SE/4 NW/4 OF  
SECTION 26, TOWNSHIP 21 SOUTH, RANGE 37  
EAST, NMPM, LEA COUNTY, NEW MEXICO,  
IN THE DRINKARD POOL.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on February 17, 1953, at Santa Fe, New Mexico, before the Oil Conservation Commission, hereinafter referred to as the "Commission".

NOW, on this 27<sup>th</sup> day of February, 1953, the Commission a quorum being present, having considered the records and the testimony adduced, and being fully advised in the premises,

FINDS:

(1) That due notice having been given as required by law, the Commission has jurisdiction of the case and the persons and subject matter thereof.

(2) That applicant's S. J. Sarkeys, Well No. 4, SE/4 NW/4 Section 26, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, was completed in May, 1949, as an oil well producing from the Drinkard formation in the open-hole interval 6515-6586, having drilled through the Tubb gas zone at an approximate depth of 6035-6450.

(3) That although recent experiments tend to show that mechanical packers and other devices are ordinarily available for successful dual/multiple completions of oil - gas wells, the Commission is unconvinced of the soundness as a waste-prevention practice, of such dual/multiple completions as a general practice in New Mexico without specific controls over each such project.

IT IS THEREFORE ORDERED: That the applicant herein, Tide Water Associated Oil Company, be, and it hereby is authorized to dually complete and produce its S. J. Sarkeys, Well No. 4, SE/4 NW/4, Section 26, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner that gas from the Tubb formation may be produced through the annular space between the casing and the tubing and oil from the Drinkard formation through the tubing by proper perforations and the installation of a proper packer or packers;

PROVIDED, HOWEVER, That subject well shall be completed, and thereafter produced, in such a manner that there will be no commingling within the well bore, either within or outside the casing of gas, oil and gas, or oil produced from either or both of the separate strata, and,

PROVIDED FURTHER, That said subject well for dual completion and production shall be equipped in such a way that reservoir pressures may be determined separately for each of the two specified strata, and further, be equipped with all necessary connections required to permit recording meters to be installed and used, at any time, as may be required by the Commission or its representatives, in order that natural gas, oil, or oil and gas from each separate stratum may be accurately measured and the gas-oil ratio thereof determined, and,

PROVIDED FURTHER, That the operator applicant shall make any and all tests, including segregation tests, but not excluding other tests and/or determinations at any convenient time and in such manner as deemed necessary by the Commission; the original and all subsequent tests shall be witnessed by representatives of the Commission and by representatives of offset operators, if any there be, at their election, and the results of each test properly attested to by the applicant herein and all witnesses, and shall be filed with the Commission within ten (10) days after the completion of such test, and,

PROVIDED FURTHER, That upon the actual dual completion of such subject well, applicant shall submit to the Commission a diagrammatic sketch of the mechanical installation which was actually used to complete and produce the seal between the strata, and a special report of production, gas/oil ratio and reservoir pressure determination of each producing zone or stratum immediately following completion.

PROVIDED FURTHER, that upon the actual dual completion of such subject well applicant shall submit to the District Office of the Commission in which the subject well is located Form C-103, Form C-104 and Form C-110 outlining the information required on these forms by existing Rules and Regulations.

IT IS FURTHER ORDERED, That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order after proper notice and hearing, the Commission may terminate the authority hereby granted and require applicant or its successors and assigns to limit its activities to regular single-zone production in the interests of conservation.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

*E. L. Mechem*

EDWIN L. MECHEM, Chairman

*E. S. Walker*  
E. S. WALKER, Member

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

S E A L

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE  
STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF  
TIDE WATER ASSOCIATED OIL COMPANY FOR  
AN ORDER GRANTING IT PERMISSION TO DUALY  
COMPLETE S. J. SARKEYS NO. 4 WELL,  
DRINKARD POOL, SE/4 NW/4, SECTION 26,  
TOWNSHIP 21S, RANGE 37E, N.M.P.M.,  
LEA COUNTY, NEW MEXICO

CASE NO: 476

APPLICATION

COMES NOW, Tide Water Associated Oil Company, a Delaware Corporation,  
operating in New Mexico from a field office in Hobbs, and respectfully  
represents to the Oil Conservation Commission of the State of New Mexico  
as follows:

1. That Tide Water Associated Oil Company's S. J. Sarkeys Well No. 4  
located in the SE/4 of the NW/4 of Section 26, Township 21 South, Range 37  
East, N.M.P.M., Drinkard Pool, Lea County, New Mexico, was completed in  
May 1949, as an oil well producing from the Drinkard formation from open  
hole (6515-6586'). Five and one-half inch production casing was set at  
6515' and cemented with 500 sacks. The well drilled through the Tubbs  
gas zone (6035-6450').

2. Applicant represents that it is practical and economically feasible  
to dually complete the S. J. Sarkeys No. 4 well to produce oil from the  
Drinkard formation through the tubing and gas from the Tubbs formation through  
the annular space between the casing and tubing by proper perforations and  
installation of proper packer and well head connections, and in such manner  
that there will be no commingling of fluids between the two reservoirs.

Correction:  
to  
Tubbs  
3. Applicant further represents that the granting of this application  
for permission to produce dually, oil from the Drinkard formation and gas  
from the ~~Blinberry~~ formation is in the interests of conservation and the  
protection of correlative rights.

4. That attached hereto is a plat, marked Exhibit "A", showing the  
location of S. J. Sarkeys No. 4 well, and surrounding wells and leaseholds.

5. That applicant proposes to dually complete said well to produce  
oil from the Drinkard formation through the tubing, and gas through the  
tubing-casing annulus in the following manner:

a. Perforate the 5 1/2" casing from 6135 to 6235 feet opposite  
permeable zones in the Tubbs formation.

b. Set a production type packer below the casing perforations as  
shown on the attached diagramatic sketch marked Exhibit "B".

SUBJECT: IN THE MATTER OF THE APPLICATION  
OF TIDE WATER ASSOCIATED OIL COMPANY  
FOR AN ORDER GRANTING IT PERMISSION  
TO DUALY COMPLETE S. J. SARKEYS NO.  
4, WELL, DRINKARD POOL, SE/4 NW/4,  
SECTION 26, TOWNSHIP 21S, RANGE 37E,  
N.M.P.M., LEA COUNTY, NEW MEXICO

6. That an electric log of said S. J. Sarkeys No. 4 well is attached hereto marked Exhibit "Q".

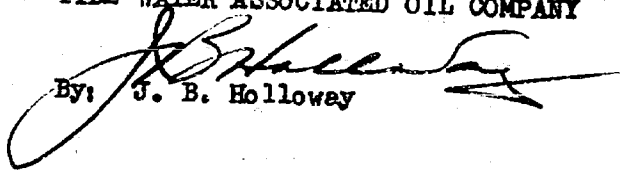
7. That copies of this application and Exhibits have been sent to the operators of all leases adjoining the said S. J. Sarkeys lease of applicant.

WHEREFORE, Applicant requests that this matter be set down for hearing on due notice, and that at such hearing it be authorized to dually complete said well in accordance with the foregoing petition and the rules and regulations of the Commission.

DONE at Houston, Texas, on this the 24th day of December, 1952.

Respectfully submitted

TIDE WATER ASSOCIATED OIL COMPANY

By:  J. B. Holloway

<p>15</p> <p>Midwater Assoc. Oil Co.</p> <p>15644</p> <p>15645</p> <p>15646</p> <p>15647</p> <p>15648</p> <p>15649</p> <p>15650</p> <p>15651</p> <p>15652</p> <p>15653</p> <p>15654</p> <p>15655</p> <p>15656</p> <p>15657</p> <p>15658</p> <p>15659</p> <p>15660</p> <p>15661</p> <p>15662</p> <p>15663</p> <p>15664</p> <p>15665</p> <p>15666</p> <p>15667</p> <p>15668</p> <p>15669</p> <p>15670</p> <p>15671</p> <p>15672</p> <p>15673</p> <p>15674</p> <p>15675</p> <p>15676</p> <p>15677</p> <p>15678</p> <p>15679</p> <p>15680</p> <p>15681</p> <p>15682</p> <p>15683</p> <p>15684</p> <p>15685</p> <p>15686</p> <p>15687</p> <p>15688</p> <p>15689</p> <p>15690</p> <p>15691</p> <p>15692</p> <p>15693</p> <p>15694</p> <p>15695</p> <p>15696</p> <p>15697</p> <p>15698</p> <p>15699</p> <p>15700</p> <p>15701</p> <p>15702</p> <p>15703</p> <p>15704</p> <p>15705</p> <p>15706</p> <p>15707</p> <p>15708</p> <p>15709</p> <p>15710</p> <p>15711</p> <p>15712</p> <p>15713</p> <p>15714</p> <p>15715</p> <p>15716</p> <p>15717</p> <p>15718</p> <p>15719</p> <p>15720</p> <p>15721</p> <p>15722</p> <p>15723</p> <p>15724</p> <p>15725</p> <p>15726</p> <p>15727</p> <p>15728</p> <p>15729</p> <p>15730</p> <p>15731</p> <p>15732</p> <p>15733</p> <p>15734</p> <p>15735</p> <p>15736</p> <p>15737</p> <p>15738</p> <p>15739</p> <p>15740</p> <p>15741</p> <p>15742</p> <p>15743</p> <p>15744</p> <p>15745</p> <p>15746</p> <p>15747</p> <p>15748</p> <p>15749</p> <p>15750</p> <p>15751</p> <p>15752</p> <p>15753</p> <p>15754</p> <p>15755</p> <p>15756</p> <p>15757</p> <p>15758</p> <p>15759</p> <p>15760</p> <p>15761</p> <p>15762</p> <p>15763</p> <p>15764</p> <p>15765</p> <p>15766</p> <p>15767</p> <p>15768</p> <p>15769</p> <p>15770</p> <p>15771</p> <p>15772</p> <p>15773</p> <p>15774</p> <p>15775</p> <p>15776</p> <p>15777</p> <p>15778</p> <p>15779</p> <p>15780</p> <p>15781</p> <p>15782</p> <p>15783</p> <p>15784</p> <p>15785</p> <p>15786</p> <p>15787</p> <p>15788</p> <p>15789</p> <p>15790</p> <p>15791</p> <p>15792</p> <p>15793</p> <p>15794</p> <p>15795</p> <p>15796</p> <p>15797</p> <p>15798</p> <p>15799</p> <p>15800</p> <p>15801</p> <p>15802</p> <p>15803</p> <p>15804</p> <p>15805</p> <p>15806</p> <p>15807</p> <p>15808</p> <p>15809</p> <p>15810</p> <p>15811</p> <p>15812</p> <p>15813</p> <p>15814</p> <p>15815</p> <p>15816</p> <p>15817</p> <p>15818</p> <p>15819</p> <p>15820</p> <p>15821</p> <p>15822</p> <p>15823</p> <p>15824</p> <p>15825</p> <p>15826</p> <p>15827</p> <p>15828</p> <p>15829</p> <p>15830</p> <p>15831</p> <p>15832</p> <p>15833</p> <p>15834</p> <p>15835</p> <p>15836</p> <p>15837</p> <p>15838</p> <p>15839</p> <p>15840</p> <p>15841</p> <p>15842</p> <p>15843</p> <p>15844</p> <p>15845</p> <p>15846</p> <p>15847</p> <p>15848</p> <p>15849</p> <p>15850</p> <p>15851</p> <p>15852</p> <p>15853</p> <p>15854</p> <p>15855</p> <p>15856</p> <p>15857</p> <p>15858</p> <p>15859</p> <p>15860</p> <p>15861</p> <p>15862</p> <p>15863</p> <p>15864</p> <p>15865</p> <p>15866</p> <p>15867</p> <p>15868</p> <p>15869</p> <p>15870</p> <p>15871</p> <p>15872</p> <p>15873</p> <p>15874</p> <p>15875</p> <p>15876</p> <p>15877</p> <p>15878</p> <p>15879</p> <p>15880</p> <p>15881</p> <p>15882</p> <p>15883</p> <p>15884</p> <p>15885</p> <p>15886</p> <p>15887</p> <p>15888</p> <p>15889</p> <p>15890</p> <p>15891</p> <p>15892</p> <p>15893</p> <p>15894</p> <p>15895</p> <p>15896</p> <p>15897</p> <p>15898</p> <p>15899</p> <p>15900</p> <p>15901</p> <p>15902</p> <p>15903</p> <p>15904</p> <p>15905</p> <p>15906</p> <p>15907</p> <p>15908</p> <p>15909</p> <p>15910</p> <p>15911</p> <p>15912</p> <p>15913</p> <p>15914</p> <p>15915</p> <p>15916</p> <p>15917</p> <p>15918</p> <p>15919</p> <p>15920</p> <p>15921</p> <p>15922</p> <p>15923</p> <p>15924</p> <p>15925</p> <p>15926</p> <p>15927</p> <p>15928</p> <p>15929</p> <p>15930</p> <p>15931</p> <p>15932</p> <p>15933</p> <p>15934</p> <p>15935</p> <p>15936</p> <p>15937</p> <p>15938</p> <p>15939</p> <p>15940</p> <p>15941</p> <p>15942</p> <p>15943</p> <p>15944</p> <p>15945</p> <p>15946</p> <p>15947</p> <p>15948</p> <p>15949</p> <p>15950</p> <p>15951</p> <p>15952</p> <p>15953</p> <p>15954</p> <p>15955</p> <p>15956</p> <p>15957</p> <p>15958</p> <p>15959</p> <p>15960</p> <p>15961</p> <p>15962</p> <p>15963</p> <p>15964</p> <p>15965</p> <p>15966</p> <p>15967</p> <p>15968</p> <p>15969</p> <p>15970</p> <p>15971</p> <p>15972</p> <p>15973</p> <p>15974</p> <p>15975</p> <p>15976</p> <p>15977</p> <p>15978</p> <p>15979</p> <p>15980</p> <p>15981</p> <p>15982</p> <p>15983</p> <p>15984</p> <p>15985</p> <p>15986</p> <p>15987</p> <p>15988</p> <p>15989</p> <p>15990</p> <p>15991</p> <p>15992</p> <p>15993</p> <p>15994</p> <p>15995</p> <p>15996</p> <p>15997</p> <p>15998</p> <p>15999</p> <p>16000</p> <p>16001</p> <p>16002</p> <p>16003</p> <p>16004</p> <p>16005</p> <p>16006</p> <p>16007</p> <p>16008</p> <p>16009</p> <p>16010</p> <p>16011</p>
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EUGENE DIETZGEN CO.  
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NO. 340-20 DIETZGEN GRAPH PAPER  
20 X 30 PER INCH

TIDE WATER ASSOC. OIL CO.  
S.J. SARKEYS #4  
GAS ZONE - TUBBS  
OIL ZONE - DRINKARD

DIAGRAMMATIC SKETCH SHOWING  
PROPOSED DUAL GAS-OIL COMPLETION

TUBBS - GAS ZONE

This zone to produce  
through Csg. pfs.  
6135-6235'

Or's side door intake @ 6470'

Baker Model D Production  
Packer @ 6475'

Top Drinkard  
6475'

DRINKARD - OIL ZONE

5 1/2" Csg. @ 6515'

Tbg. @ 6514'

Will produce from open  
hole 6515-6586'

TD 6586'

*Feb. Case*

**TIDE WATER ASSOCIATED OIL COMPANY**

MID-CONTINENT DIVISION  
MELLIE ESPERSON BLDG. POST OFFICE BOX 1404  
HOUSTON 1, TEXAS

Jan. 8th, 1953

*make correction OK*

JAN 12 1953

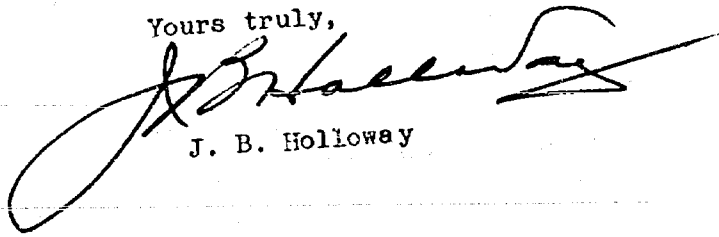
Mr. R. R. Spurrier, Secretary,  
New Mexico Oil Conservation Commission,  
Santa Fe, New Mexico

Dear Mr. Spurrier:

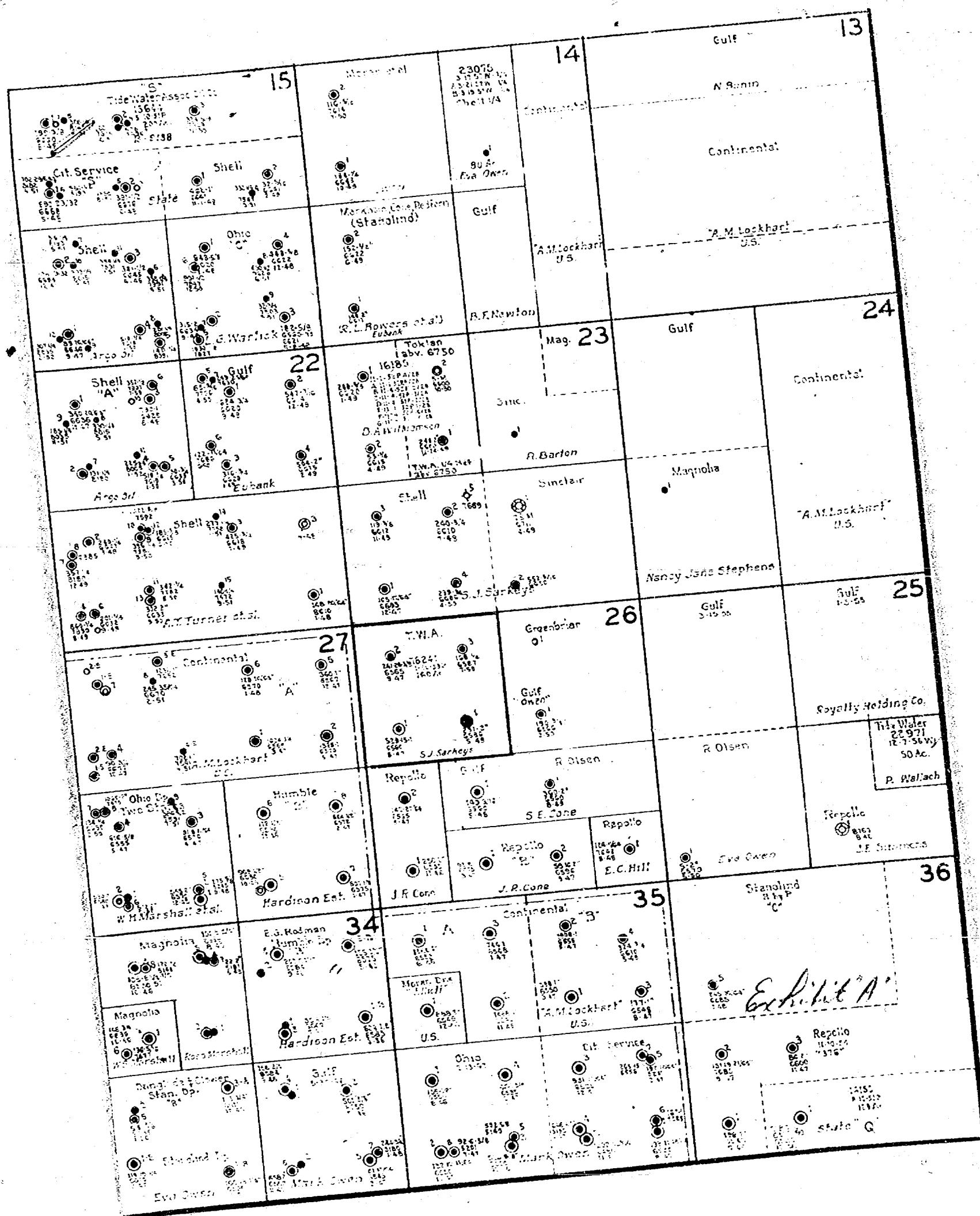
On December 24, 1952 we mailed to you our application to dually complete our S. J. Sarkeys No. 4 well in the Drinkard (oil) formation and the Tubbs (gas) formation. In copying from another application, we inadvertently wrote "Blinebry" in the 3rd paragraph. As every other reference, as well as the exhibits, indicate our wish to complete this well in the Tubbs, we hope this error can be corrected with pen and ink and not require a new application.

With kindest personal regards,

Yours truly,

  
J. B. Holloway



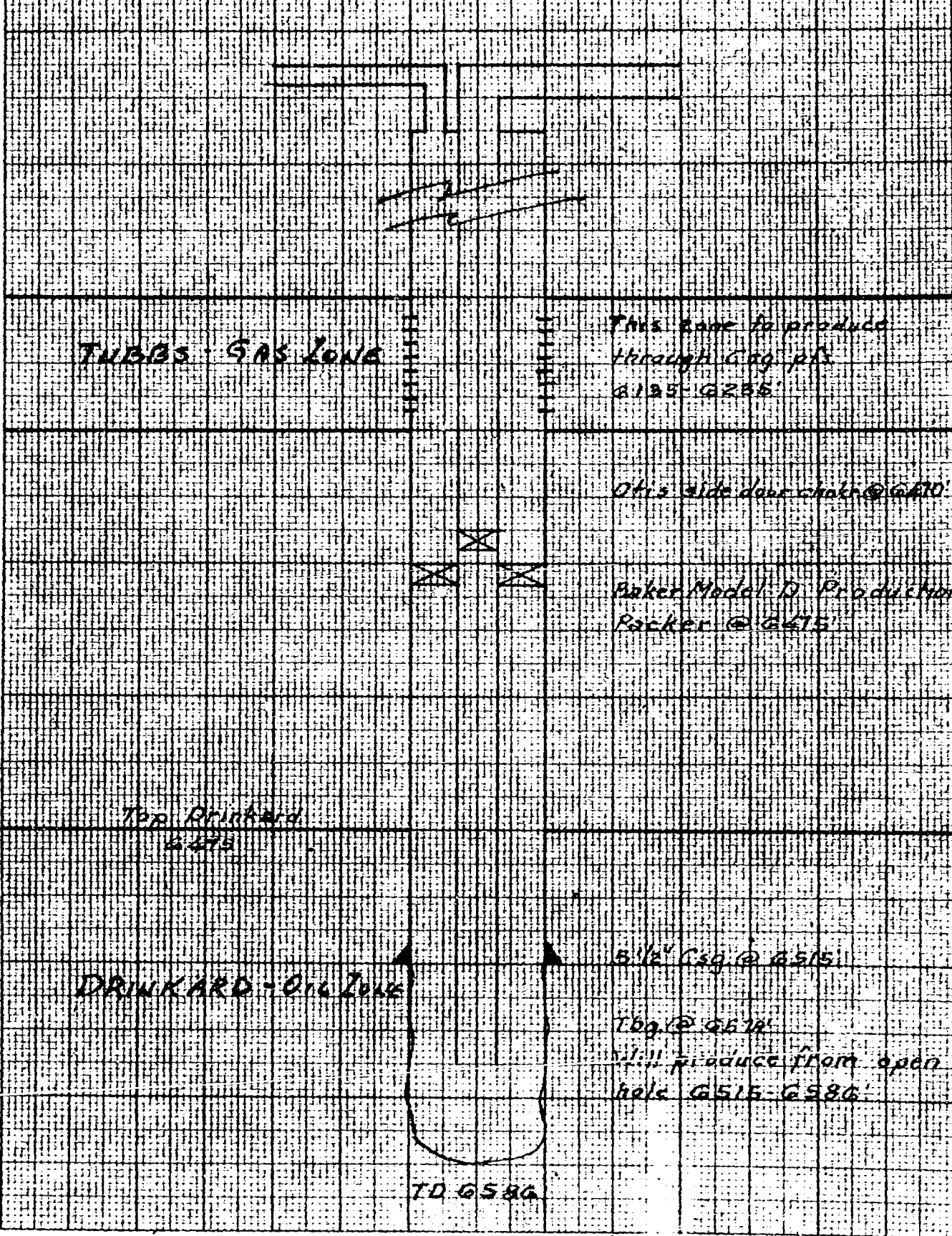


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20 X 30 PER INCH

TIDE WATER ASSOC OIL Co.  
S.J. SANKEYS #4  
GAS ZONE - TUBBS  
OIL ZONE - DRINKARD

DIAGRAMMATIC SKETCH SHOWING  
PROPOSED DUAL GAS-OIL COMPLETION



Well "H" Case 4/6