

CASE 326: Shell Oil Co. application for  
approval of dual completion (gas - oil) of  
Turner No. 5 well, NE SE 22-21S-37E

Case No.

336

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Application, Transcript,  
Small Exhibits, Etc.

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 335 and 336 (Consolidated)  
ORDER NO. R-131

THE APPLICATION OF SHELL OIL  
COMPANY FOR AUTHORITY TO DUALY  
COMPLETE AND PRODUCE ITS SARKEYS  
NO. 2 WELL, NE SW 23-21S-37E, NMPM;  
AND ITS SHELL TURNER NO. 5 WELL,  
NE SE 22-21S-37E, NMPM, AS BLINEBRY  
(GAS) - DRINKARD (OIL) WELLS.

ORDER OF THE COMMISSION

BY THE COMMISSION:

These causes, as consolidated, came on for hearing at 10 o'clock  
a. m. on January 22, 1952, at Santa Fe, New Mexico, before the Oil Conserva-  
tion Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 6th day of March 1952, 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 Com-  
mission has jurisdiction of the case and the persons and subject matter thereof.

(2) That applicant's Sarkeys No. 2 well, NE SW 23-21S-37E, NMPM,  
was completed in July 1948 as an oil well in the Drinkard pay, bottomed at  
6610', and produced from the 6460' - 6610' interval, having drilled through  
the Blinebry gas zone (5555' - 5670').

(3) That applicant's Shell Turner No. 5, in NE SE 22-21S-37E,  
NMPM, was completed in September 1949 as an oil well in the Drinkard pay,  
bottomed at 6612', and produced from the 6450' - 6612' interval, having  
drilled through the Blinebry gas zone (5510' - 5635').

(4) 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 sound-  
ness, 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, effective as of January 22, 1952,  
the applicant herein, Shell Oil Company, be, and it hereby is authorized to  
dually complete and produce (1) its Sarkeys No. 2 Well, NE SW 23-21S-37E,  
NMPM, in the Drinkard pool, Lea County, New Mexico, in such a manner that  
gas from the Blinebry formation may be produced through the annular space  
between the casing and tubing, and oil from the Drinkard formation through  
the tubing; (2) in like manner, its Shell-Turner No. 5 well in NE SE 22-21S-37E,  
NMPM, in the Drinkard pool, Lea County, New Mexico, that gas from the  
Blinebry formation may be produced through the annular space between the  
casing and tubing, and oil from the Drinkard formation through the tubing;

in each case, by proper perforations and packer installations,

PROVIDED, HOWEVER, That each of the subject wells herein shall be completed and thereafter produced in such a manner and way that there will be no commingling within the well-bore between the respective formations either within or outside the casing, of gas, oil, or oil and gas produced from either or both of the separate producing horizons, and,

PROVIDED FURTHER, That each of the subject wells for dual completion and production shall be equipped in such a way that reservoir pressures thereunder may be determined separately for each of the two specified zones of production, and, further, each subject well shall be equipped with all necessary connections which may be 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 for each subject well may be accurately measured or tested and the gas-oil ratio thereof determined, and,

PROVIDED FURTHER, That the applicant/operator shall make any and all tests, including segregation tests but not excluding other tests, at any convenient time, and in such manner as deemed necessary by the Commission; the original and all subsequent tests shall be witnessed by a representative of the Commission and by representatives of offset operators, if any there be, at their election, and the results of each such test for each subject well, properly attested to by the applicant/operator, and all witnesses, shall be filed within 10 days after completion thereof with the Commission in Santa Fe, New Mexico; and

PROVIDED FURTHER, That prior to the time each such subject well is dually completed, the applicant/operator shall furnish the Commission, for its approval, a drawing showing the proposed method and manner of completion, together with an electrical log showing the location and extent, for each subject well, of each separate stratum yielding production, and the vertical footage location of the proposed perforations, and,

PROVIDED FURTHER, That upon the actual dual completion of each such subject well (Sarkeys No. 2, NESW 23-21S-37E, and Shell-Turner No. 5, NESE 22-21S-37E) a plat or diagrammatic sketch of the mechanical installations which were actually used to complete and produce the seal between the strata for each subject well, and a special report of production, gas-oil ratio, and reservoir pressure determination of each producing zone for each subject well, be furnished immediately following completion.

IT IS FURTHER ORDERED, That jurisdiction of Causes No. 335 and 336, as consolidated, is hereby retained by the Commission for such other and further orders as may seem necessary or convenient to it, for the prevention of waste and/or protection of correlative rights; upon failure of applicant or its successors to comply with any requirement of this order, after proper notice and hearing, the Commission may terminate the authority hereby granted for either or both subject wells, and require applicant or its successors and assignees to limit its activities to regular

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Case No. 335 and 336  
Order No. R-131

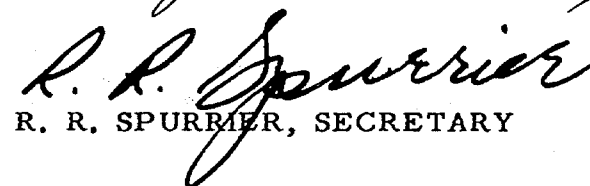
single-zone production in the interest of prevention of waste and/or  
protection of correlative rights.

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

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION



EDWIN L. MECHEM, CHAIRMAN

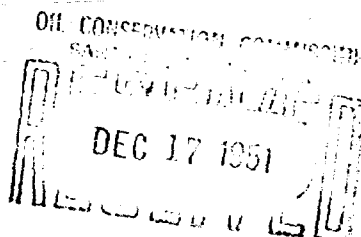
  
GUY SHEPARD, MEMBER  
R. R. SPURRIER, SECRETARY

SEAL



# SHELL OIL COMPANY

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THIS LETTER IS FROM OUR  
FIELD OFFICE

Box 1957  
AT Hobbs, New Mexico

December 14, 1951

Subject: Application to Dually Complete  
Shell Turner 5, Drinkard Field,  
Lea County, New Mexico as a  
Blinebry (Gas)-Drinkard (Oil)  
Well

Oil Conservation Commission  
State of New Mexico  
Santa Fe, New Mexico

Gentlemen:

By means of this application the Shell Oil Company wishes to  
state the following:

- a) That Shell Turner 5, located in the NE/4 of the SE/4 of  
Section 22-21S-37E, was completed in September 1949 at a total depth of  
6612 feet. The appended Exhibit A shows the location of this and all  
other wells on the Turner lease together with the locations of all offset  
wells.
- b) That the said well was completed as an oil well producing  
from the interval 6450 - 6612 feet in the Drinkard formation after having  
been drilled through the Blinebry gas productive interval extending from  
approximately 5510 feet to 5635 feet. These data are depicted on the  
appended Exhibit B.
- c) That the applicant proposes to (1) perforate the 5-1/2-inch  
casing opposite the Blinebry gas-productive horizons and (2) set a Baker  
production packer at approximately 6400 feet and a Cameron anchor-type  
packer at approximately 6390 feet in the 5-1/2-inch casing.
- d) That the applicant proposes to dually complete the said  
well to produce oil from the Drinkard formation through the tubing and  
gas from the Blinebry formation through the 5-1/2-inch casing. The  
manner and method of the proposed dual completion are shown on Exhibit C.
- e) That the granting of this application for permission to  
produce dually oil from the Drinkard formation and gas from the Blinebry  
formation is in the interests of conservation and the protection of  
correlative rights.

*Heard  
Jan 22-52*

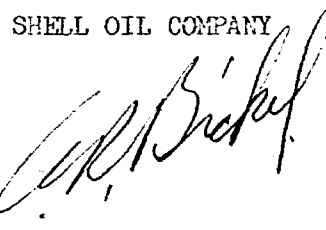
f) That the applicant will do such things as may be required of it by the New Mexico Oil Conservation Commission in the maintenance of separation of production from said two horizons.

g) That the manner and method of the proposed dual completion is mechanically feasible and practical.

Therefore, the Shell Oil Company requests that the Oil Conservation Commission set a certain day upon which this application may be heard and after said hearing to grant permission in order that the applicant may dually complete Turner 5 so that oil from the Drinkard formation may be produced through the tubing and gas from the Blinbry formation through the casing.

Respectfully submitted,

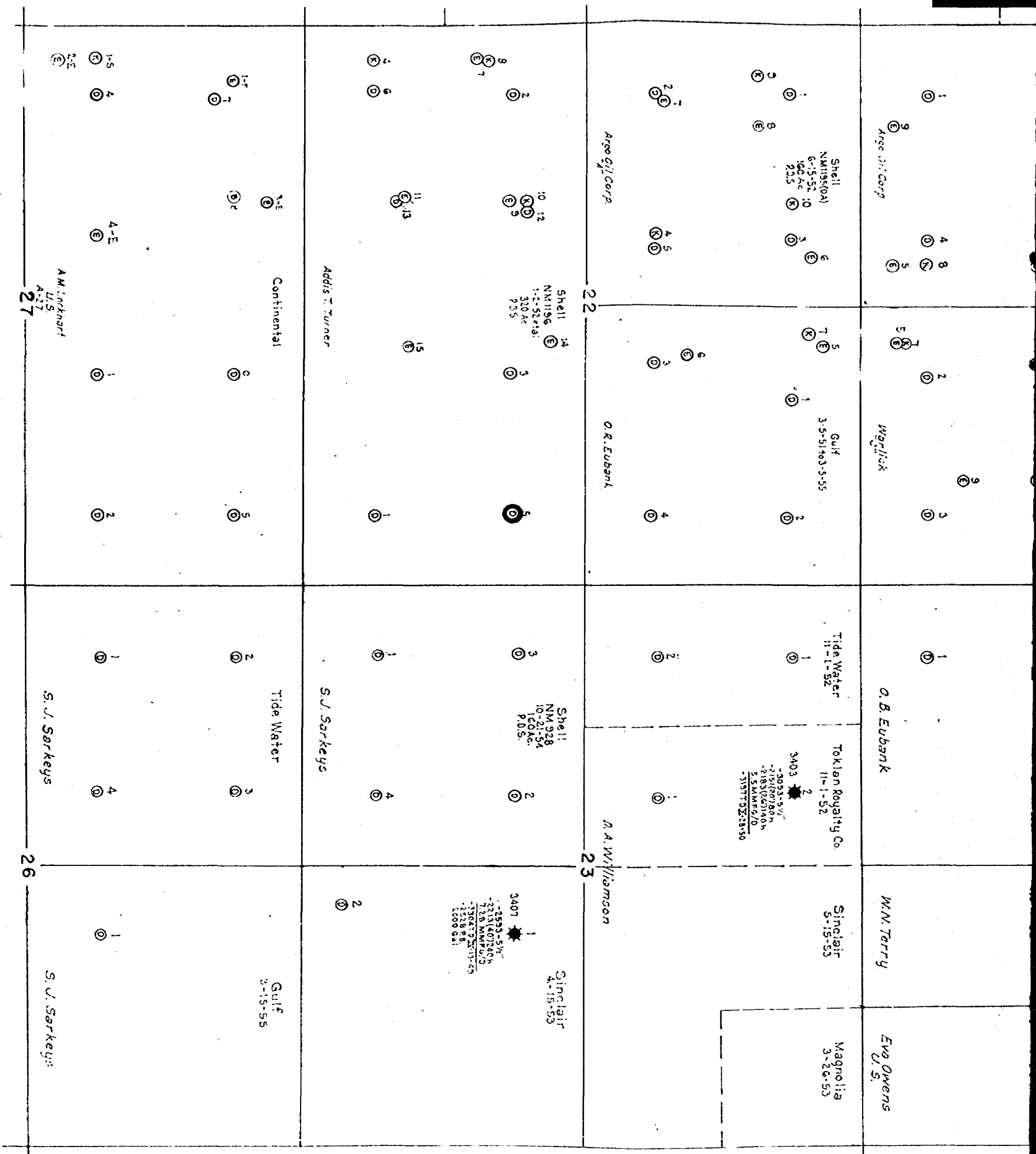
SHELL OIL COMPANY



BY: C. R. Bickel

| State   | Nolan   | Lockhart<br>U.S.  |
|---|---|---|
| <p>Tide Water<br/>6-10-51<br/>P.D.S.</p> <p>1 5<br/>2 4<br/>3</p>   | <p>Moran-Argo<br/>Shell<br/>NM1302, 11-2, 1/4 Int.<br/>3-18-52<br/>P.D.S.</p> <p>2</p>  | <p>Shell<br/>NM1258, 1/4 Int.<br/>4-C-52<br/>P.D.S.</p> <p>Continental<br/>10-18-52</p>   |
| <p>Cities Service<br/>H.B.P.</p> <p>1 4<br/>2 3<br/>3 4<br/>4 5<br/>5 6</p>   | <p>Shell<br/>NM1199<br/>6-2-51<br/>80 AC<br/>P.D.S.</p> <p>1 2<br/>3 4</p>  | <p>J.R. Smith</p>   |
| <p>Shell<br/>NM1350(A)<br/>6-15-52<br/>160 AC<br/>P.D.S.</p> <p>2 10<br/>3 4<br/>5 6<br/>7 8<br/>9 10</p>   | <p>Ohio<br/>1-20-53</p> <p>Markham, Cone &amp; Redfern</p> <p>1 2<br/>3 4<br/>5 6<br/>7 8<br/>9 10</p>  | <p>Gulf<br/>10-11-54</p> <p>W.N. Terry</p> <p>Evo Owens<br/>U.S.</p>  |
| <p>Argo Oil Corp</p> <p>Shell<br/>NM1195(A)<br/>6-15-52<br/>160 AC<br/>P.D.S.</p> <p>1 2<br/>3 4<br/>5 6<br/>7 8<br/>9 10</p>                                 | <p>Gulf<br/>3-5-51, 10-5-53</p> <p>Waglick</p> <p>1 2<br/>3 4<br/>5 6<br/>7 8<br/>9 10</p>  | <p>Tide Water<br/>11-1-52</p> <p>Toklan Royalty Co<br/>11-1-52</p> <p>3403<br/>-3053-5-52<br/>-2151(20)80h<br/>-2183(20)140h<br/>5 MMF2/0<br/>-3197125-50-50</p> <p>Singclair<br/>5-15-53</p> <p>Magnolia<br/>3-24-53</p> |
| <p>Argo Oil Corp</p> <p>Shell<br/>NM1196<br/>1-2-52 et al<br/>320 AC<br/>P.D.S.</p> <p>1 2<br/>3 4<br/>5 6<br/>7 8<br/>9 10<br/>11 12<br/>13 14<br/>15 16</p> | <p>O.R. Eubank</p> <p>Shell<br/>NM1228<br/>10-21-54<br/>160 AC<br/>P.D.S.</p> <p>1 2<br/>3 4<br/>5 6<br/>7 8<br/>9 10<br/>11 12<br/>13 14<br/>15 16</p> | <p>D.A. Williamson</p> <p>3407<br/>-3533-5-52<br/>-2213(40)140h<br/>7.8 MMF2/0<br/>-3197125-50-50<br/>-2228 P4<br/>-2228 P4<br/>-2228 P4</p> <p>Singclair<br/>4-15-53</p> <p>Gulf<br/>2-15-55</p>                         |



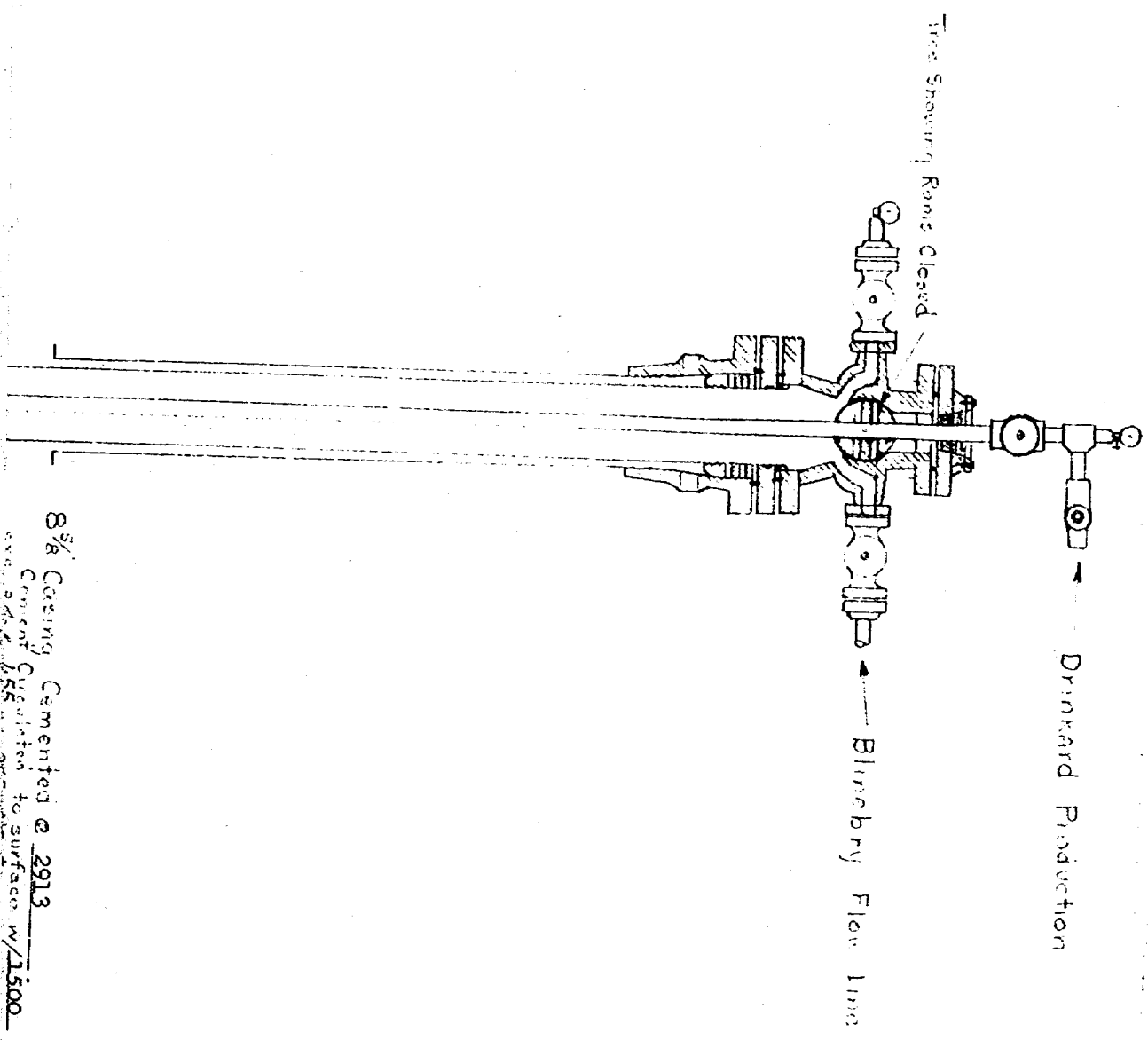


**-LEGEND-**

- Proposed Dual Completion
- Drinkard Well
- Hare Well
- Brunson Well
- Binebry Gas Well

**SHELL OIL COMPANY**  
**DRINKARD FIELD**  
**LEA COUNTY, NEW MEXICO**  
**SCALE: 1"=1000'**

*Exhibit A: To Accompany Application to Dual Complete Shell-Turner 5*

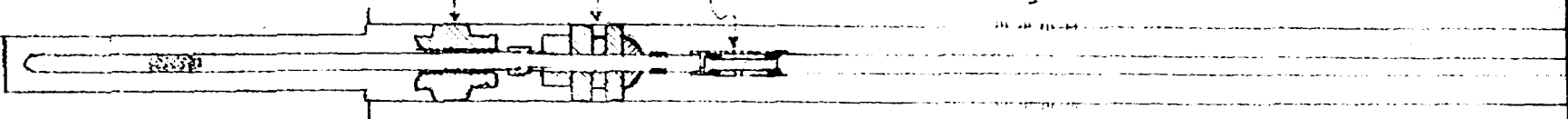


Casing Test Perforations  
w/ 4" 21/2" Hole / Foot  
From 5512 to 5635

One Size Door Choke  
Blacked Off  
@ 6360'

Common Archer Type  
Production Packer  
@ 6390'

Born Model D Retarder  
Production Packer  
set @ 6400'



5 1/2' Casing Cemented @ 6450' w/ 500' set  
Estimated Top Cement 3600'

Tubing Perforations

TD - 6612

Detail of Mechanical Equipment To Be  
Installed In Dually Completed Drinkard And  
Blinberry Wells For Submission To Oil  
Conservation Commission

CASE 337: R. S. Magruder application to  
unitize Lots 1, 2 Sec. 33 W/NE1/4 and SE1/4  
of 33-24S-38E, Lea County