### RECR-10 Windmill Oil

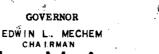
### **OCD Misc. Files**

MESTERN SYMBOLS CLASS OF SERVICE DL=Day Letter This is a fast message NL=Night Letter unless its deferred char-TELEGRA acter is indicated by the I.T=International proper symbol. Letter Telegram The filing time shown in the date line on domestic telegrams is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination LA06 SSC331 RWA112 PD=WUX ROSWELL NMEX 16= 1957 JUL 16 PM 3 24 :R F MONTGOMERY= NMOCC BOX 2045 HOBBS NMEX= MEETING OF COMMITTEE STUDYING PROTECTION HOBBS FRESH CONFERENCE MB/E G MINTON OF LOVINGTON TO DISCUSS MOVEMENT 0F FRESH WATER SANDS. ALSO PLAN TO MAKE WATER ΤN WORK ASSIGNMENTS. NOTIFY YOUR ALTERNATE IF YOU CANNOT ATTEN C L KELLEY PAN AMERICAN PETROLEUM CORP=

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

SYMBOLS CLASS OF SERVICE DL=Day Letter This is a fast message unless its deferred conre NL=Night Letter TELEGRAM acter is indicated 'a the 1201 IT\_International proper symbol. Letter Telegram W. P. MARSHALL, PRESIDENT The filing time shown in the date line on domestic telegrams is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination LAOO SSM257 00 RWA098 PD=WUX ROSWELL NMEX 11 220PMM= PM 1957 JUL 11 RANDALL MONTGOMERY PRORATION MGR **JOIL CONSERVATION COMMISSION** HOBBS NMEX= AT OCC INFORMAL HEARING 7-9-57 IN HOBBS YOUR ORGANIZATION WAS APPOINTED TO SERVE ON COMMITTEE Τ0 STUDY OTHER MEANS TO PREVENT CONTAMINATION FRESH 0F WATER SAN DS AR EA OF HOBBS POOL AND STUDY POSSIBLE Ν TO EL IM NATE CONT MINATION OF FRESH MEANS WATER SANDS MAY HAVE ALREADY OCCURRED PLE AS WHICH ADVISE IMMEDIA TELY OFFICIAL NAME AND AD DR ESS OF YOUR ALTE RNATE WHO AND SERVE ON THIS REPRESENTATIVE HIS WILL AMERICANS OFFICIAL REPRESENTATIVE 15 COMMITTEE PAN THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

CLASS OF SERVICE SIER SYMBOLS DL=Day Letter This is a fast message unless its deferred dhar-NL=Night Letter acter is indicated by the TELEGRAM 1201 LT=<sup>International</sup> Letter Telegram proper symbol. W P MARSHALL PRESIDENT The filing time shown in the date line on domestic telegrams is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at KELLEY WITH ALT ER NATE J W BROWN . BOTH LOCA TED IN ROSWELL 2ND FLOOR PETROLEUM BUILDING OR P O BOX 899 PLEASE ADDRESS MAIL AND WIRES REGARDING THIS COMMITTEE ABOVF T0 ADDRESS= C L KE LL EY PAN AMERICAN PET CORP ROSWELL OFFICE= THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE



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STATE GEOLOGIUST, A.L. PORTER JR. SECRETARY DIRECTOR



#### OIL CONSERVATION COMMISSION

LAND COMMUSSIONER, MURRAY E. MORGAN



P. O. BOX 871. SANTA FE, NEW MEXICO

July 10, 1957

Gentlemen:

The following companies and agencies are hereby appointed as a committee to make a study of fresh water contamination in the Hobbs Area (Hobbs, Bowers and Byers-Queen Pools) and make recommendations as to:

(1) / Any action that may be taken by the Commission in addition to what is presently being done to prevent further contamination;

2) Any corrective measures that may be employed to prevent further spread of present contamination.

Pan American Petroleum Corporation, Chairman Samedan Oil Corporation Shell Oil Company Tidewater Associated Oil Company Continental Oil Company Hobbs City Water Board State Engineer's Office Hobbs Commission Staff

Each company or agency will be called upon by the Chairman to designate a representative to serve on the committee and each representative will be notified of the first meeting date, which will be in the very near future.

The committee is hereby instructed to make a progress report to the Commission not later than thirty days from this date. Your cooperation will be greatly appreciated.

Yours very truly,

A. L. Porter, Jr. Secretary - Director

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#### NEW MEXICO OIL CONSERVATION COMMISSION

P. O. Box 871 Santa Fe, New Mexico

MEMORANDUM TO: All Hobbs Pool Operators:

SUBJECT: Casing Leaks -- Hobbs Pool.

All Hobbs Pool Operators are directed to perform the following tests on all flowing wells in the Hobbs Pool prior to October 1, 1953.

1. Take a Bottom Hole Pressure test after a minimum of 24 Hours shut-in at a datum of -400 and report the result to the Commission office at Hobbs on Form C-124-A (in triplicate).

2. Run a temperature survey to check for possible casing leaks.

3. Test all surface connections for any evidence of casing leaks.

Operators shall report the results of all tests in connection with this directive on Form C-103 and shall submit 2 copies of temperature surveys with the report.

In the event the tests show any evidence of possible casing leak operators shall take immediate steps to perform the necessary remedial work to assure this Commission that any and all oil or gas producing zones in the Hobbs area are confined to their original formation. Details of all remedial work shall be reported on Form C-103 or the appropriate USGS Form if the well is located on Federal land.

In the event any portion of the required tests outlined above have been performed since July 1, 1953 that portion of the required tests may be waived, however, operators shall be sure that appropriate Forms are on file in the Commission Office at Hobbs outlining the tests taken and the results thereof.

> R. R. SPURRIER Director

N. M. Oil and Gas Engineering Committee Hobbs, New Mexico 8-25-53.

#### MINUTES OF THE HOBBS POOL OPERATORS COMMITTEE MEETING AUGUST 25, 1953

The meeting was called to order by the Director who gave a resume of the reason for calling the meeting which pertained to a bradenhead leak in the Hobbs Pool. The Operator affected and offset operators reported on Bottom Hole Pressure and Temperature Surveys made in their wells. The results of which were illustrated by graphs and charts. Each Operator conducting such tests gave an outline of the work that had been done and what they proposed to do in the future.

A letter from Mr. R. R. Spurrier, Director of the New Mexico Oil Conservation Commission, addressed to all Hobbs Pool Operators was distributed. A copy of which is included herewith. Mr. W. B. Macey, Chief Engineer for the Commission, requested that the group outline a standard procedure for running this Temperature Survey. After some discussion the following procedure was adopted and recommended to the Oil Conservation Commission:

I. Well to be in a static condition - Shut-in a minimum of 24 Hours.

- II. The survey instrument will be lowered at a maximum speed not to exceed fifty (50) feet per minute.
- III. <u>Reporting</u>: Plot points every 100 feet (except where an anomaly appears in which case data shall be detailed) on 8 1/2" X 11" 10 X 10 graph paper.

a. For the Ordinate from Zero to 4000': 1" equal 400 Feet (Depth)
b. For the Obscissa from 65° to 100° : 1" equal 5° (Temp.)
c. On right hand side of page plot all casing strings 1" equal 400'.
d. On bottom left hand side record: Company, Lease Name, Well Number, Unit, Section, Township, Range, and Date survey was run.

Attached is a list of those attending the meeting.

Glenn Staley Director

#### HOBBS PCOL OPERATORS August 25, 1953

#### ATTENDANCE RECORD

#### COMPANY

Shell Oil Company The Texas Company Atlantic Refining Company 11 11 Union Oil Company of Calif. Continental Oil Company Ohio Oil Company 89 11 11 Sinclair Oil and Gas Company Sun Oil Company Amerada Petroleum Corporation Ħ 11 Texas-Pacific Coal and Oil Co. Continental Oil Company Humble Oil & Refining Company 11 11 11 11 11 12 ît 22 Skelly Oil Company Standard Oil Company of Texas • Oil Conservation Commission Samedan Oil Corporation • Oil Conservation Commission U. S. Geological Survey Cities Service Oil Company 11 11 11 Samedan Oil Corporation 11 17 12 Stanolind Oil and Gas Company

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Rex C. Cabaniss Paul D. Sweitzer L. C. Hudry J. S. Hutchins R. W. Yarbrough L. B. Curtis Bill Kearley E. Van Vranken John A. Disch C. J. Merryman D. C. Capps W. G. Abbott Paul S. Johnston C. C. Wilson R. S. Dewey K. C. Heald, Jr. M. M. Rogers Max E. Curry Chas F. Dwyer, Jr. W. B. Macey George E. Trimble S. J. Stanley H. A. DuPont H. E. Massey H. Lucchi E. E. Noble Earl Woolwine R. L. Hendrickson

N. M. Oil and Gas Engineering Committee Hobbs, New Mexico 8-26-53.

#### ADDRESS

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					6 <sup>m</sup> 4037/300	9" 2790/500	12" 232/200	20-18-38	1-0	ATLATIC RFG. CO. Grimes Hobbs
· · · · · · · · · · · · · · · · · · ·	12/22/53	7" 1788/1210	8/25/53		5" 3136/300 7" 3997/500 7" 3995/200	7" 1665/300 9" 2740/400 9" 2756/500	10" 220/200 12" 210/200 12" 221/250	29-18-38 29-18-38 29-18-38	5-0 2-G	AMERADA PET. CO. State B State B Sept 11°30 Hobbs State B Sept 6°30 Hobbs
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## HOBES AREA & RELATED POOLS

# CASING LEAKS & LEAKS REPAIRED JULY 1957

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	6/5/57	4 <sup>sr</sup> 3300/2575	3/2/57		0. L/ 6607 ET		An 1202/222	23-18-37		SHELL OIL CO. (Continued)
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Memo No. 20-57

#### NEW MEXICO OIL CONSERVATION COMMISSION P. O. BOX 871 Santa Fe, New Mexico

#### **MEMORANDUM:**

TO: All Operators in the Hobbs, Bowers, and Byers-Queen Pools.
FROM: A. L. Porter, Jr., Secretary-Director
SUBJECT: Protection of Fresh Water Resources.

The Oil Conservation Commission has received a letter from the City Commission of Hobbs, New Mexico, expressing concern over the danger of contamination of the Hobbs municipal water supply as a result of leakage from oil and gas wells in the area.

The City Commission requested this office to call a meeting of all operators in the Hobbs, Bowers, and Byers-Queen Pools for the purpose of determining the most feasible method of protecting the fresh water from contamination.

All operators in the above-named pools are therefore directed to appear at the Office of the Oil Conservation Commission in Hobbs, New Mexico at 10:00 o'clock a.m. on July 9, 1957. Each operator should have at least one representative present who is authorized to speak the policy of his company. Members of the field offices who are familiar with the problem should also be present.

A representative of the State Engineer's Office as well as the members of the Oil Conservation Commission expect to attend the meeting.

All inquiries concerning the meeting should be directed to the Oil Conservation Commission Office in Santa Fe, New Mexico.

#### June 10, 1957

Mr. A. L. Porter State Geologist Box 871 Sente Fe, Nev Merico

Dear Mr. Portor:

The City Cormission at their regular meeting on June 17, 1957, was advised that leakage from oil and gas wells in the Hobbs area was contaminating the water supply of the City of Hobbs, dug either to leakage from the producing wells or from prior contamination.

You will recall that in 1954 the City of Hobbs by Resolution Number 688, requested the Oil Conservation Commission to offectuate orders requiring the cossation of oil and gas leakuge. Such action was taken by the Oil Conservation Commission and citer diligent efforts on the part of the Commission and the oil operators, all wells were tosted and repaired.

By reason of this, it is uncertain whother the present contamlaction is the result of prior loukage, which now remains in the water bearing strate.

The contamination, unless corrected by nigration, will ultimately pollute and destroy the water resources of the City of Hobbs and surrounding area.

The City at this tipe does not have a scientifically correct answer or solution to the problem, and therefore, requests Mr. A. L. Porter

that the Oil Conservation Commission call a meeting to include the Commission, State Engineer, the oil operators of the Hobbs Pool and all other interested parties for the purpose of de-Fool and all other interested withis con-termining the most feasible method of aliminating this contamination, to be held at the Oil Conservation Commission Office in the City of Hobbs at your earliest convenience. The City of Nobbs sincorely approciates your present interest, and your efforts in the past.

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Donald D. Hallam City Attorney

DDH/gg co: Mr. Neal Hanry City Manager

HOBBS, NEW MEXICO

July 16, 1957

Mr. A. L. Porter, Jr., Director Cil Conservation Commission Box 871 Santa Fe, New Mex.

Dear Mr. Porter:

Enclosed you will find a report on the meeting held in Hobbs, New Mexico on July 9, 1957 to consider the protection of fresh water resources.

Yours very truly,

OIL CONSERVATION COMMISSION

R. F. Montgomery Proration Manager

mc encl.

HOBBS, NEW MEXICO

#### THE OIL CONSERVATION COMMISSION MEETING OF JULY 9. 1957

Notice of the meeting was given by MEMORANDUM 20-57 from Mr. A. L. Porter, Jr., Secretary-Director, dated June 21, 1957. The subject of the Memorandum was "Protection of Fresh Water Resources" and directed to all operators in the Hobbs Pool Area. The meeting was called for 10:00 O'Clock A. M. On July 9, 1957 at the Hobbs Office of the OCC. The Memorandum pointed out that the meeting was called at the request of the Hobbs City Commission.

The meeting was called to order by the Director who gave a resume\* of the reason for calling the meeting which pertained to the fresh water contamination northwest of the Hobbs City limits. Shortly after opening the meeting a field trip to inspect the contaminated areas was conducted by Mr. E. J. Fischer, OCC District Engineer. The first stop was at the Dowell plant north of the city. A lighted match was held over a water hose, and when the valve was opened small spurts of gas would burn intermittently. The second stop was made on the Ellison property. A demonstration was made by Mr. Eric Engbrecht, OCC Oil & Gas Inspector, which indicated that the water well had 19.1 feet of fluid including 6.3 feet of 34 gravity oil. This water well is located 1250 feet from the east line and 2380 feet from the north line of Section 30, T-18-S, R-38-E. Stop No. 3 was a disposal pit of Humble Oil and Refining Co. and Stop No. 4 was the Phillips Lake where gas bubbles appeared sporadically on the surface of the water. When the bubble burst a rainbow of oil was observed. This was the last stop of the field trip and the meeting was adjourned until 1:15 P. M.

At 1:15 P. M. the meeting was called to order by Mr. Porter in the Little Theatre of the Hobbs High School, at which time Mr. Porter called on the writer to briefly outline the pollution problem for the benefit of those who were not present at the morning session. This was done. Also it was pointed out that the Commission had been aware of the problem for several years, and that it had diligently discharged its duty to see that all necessary repairs were made by the operators.

The fact that casing leaks did exist was first brought to the attention of the Oil Commission by letter from the Humble Oil and Refining Co. on August 12, 1953. The Director of the OCC called a meeting of Hobbs Pool operators on August 25, 1953, and issued a directive that tests for casing leaks be performed before October 1, 1953. To insure that the operators had found all leaks a second directive was written on March 12, 1954. This directive called for a Commission representative to witness tests on Hobbs Pool area wells.

On March 15, 1954 at a special meeting of the City Council Resolution No. 686 was adopted; this resolution declared that an emergency existed due to casing leaks in wells and requested the Oil Commission to take appropriate action to rectify this condition. As indicated above the Commission had already taken action to rectify this condition.

In August of 1956 a meeting was held by the OGC, at which meeting it was brought to the attention of operators that water contamination existed in Section 30 of T-18-S, R-38-E. Mr. Porter, Director, and Mr. Walker, Commission member, informed the operators that check for casing leaks must continue and that leaking casing would not be tolerated. Mr. Porter directed that a four section block surrounding the contaminated area be rechecked immediately and that a recheck of all

OFC Meeting July 9, 19 -- Page 2

HOBBS, NEW MEXICO

Hobbs area wells be made in the near future. Both orders have been complied with.

During the testing of the Hobbs Pool area from August 1953 to 1957 a total of 52 wells were found to have had leaks. These leaks have been repaired at a known cost of some 400,000 dollars.

After the above summary by this writer Mr. Porter called on the operators for an expression of their views on the matter.

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Lloyd A. Calhoun, member of the Hobbs City Water Board, addressed the chair to make a statement. He stated that the Hobbs Water Board had been keenly aware of the possibilities of contamination of the city aquifer for over 3 years, and had taken steps to provide an adequate and contamination-free water supply for at least the next 20 years. At the Water Board meeting of May 10, 1954 the subject of oil and gas infiltration into the water system was discussed. He further mentioned that a member of the OCC staff had met with the Water Board and City Commission and described the program being then carried out by the CCC.

About the middle of 1954 a majority of the Hobbs Water Board members went to Santa Fe and conferred with Mr. Bliss, State Engineer, and Mr. Irby, Assistant. Both officials were informed of the contamination. These officials were very positive in their assurances that the City wells were not in any immediate danger of contamination. They pointed out that on the basis of exhaustive engineering studies it had been determined that the lateral movement of the water in the Ogallala reservoir was about 22 feet per year. At this time the Water Board made application and received water rights north of the Hobbs Oil Pool for an amount sufficient to support a population of 80,000 within 20 years.

Calhoun stressed his abhorrence to the type of scare headline publicity which had been given by the local newspaper and the wire services. He emphatically assured all of the Cil Company representatives and the CCC that the Hobbs City water system was not in jeopardy, and made a motion that the Hobbs City Council withdraw from the matter.

At this point Mr. Porter called on the City Council for a statement. There were no statements heard from this body.

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Mr. C. F. Taylor representing Gulf Oil Corp. read a prepared statement that pledged their fullest cooperation and would take every reasonable precaution to prevent leaks.

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HOBBS, NEW MEXICO

Mr. J. W. Brown spoke for Pan American Petroleum Corp. and gave a brief summary of the manner in which they were combating corrosion and pledged to continue their observations for leaks.

Mr. Glenn Staley, New Mexico Oil and Gas Engineering Committee, stated that the first casing leaks came to their attention in 1934. The wells in the area were immediately repaired. He further said that the casing would continue to be corroded but that the operators have always been cooperative in repairing leaks.

Sinclair Oil and Gas Company stated that they recognized the problem and would continue their cooperation.

Ohio Oil Co. stated that all of their leaks had been repaired and would continue to cooperate. Shell Oil Co., Continental Oil Co., Gackle Drig. Co., Skelly Oil Co. and Amerada Pet. Corp. all made similar statements.

Mr. Porter called on Mr. Don Ballam, Hobbs City Attorney, for a statement since Mr. Calhoun had put his request that the City withdraw in the form of a motion. Mr. Hallam said that the City's position was still as that stated in his letter to Mr. Porter of June 19, 1957 and the City would not withdraw.

At this point Mr. Porter appointed the following Committee to make a study of fresh water contamination in the Hobbs area and make recommendations as to:

(1) Any action that may be taken by the Commission in addition to what is presently being done to prevent further contamination

(2) Any corrective measures that may be employed to prevent further spread of present contamination

Pan American Pet. Corp., Chairman Samedan Oil Corp. Shell Oil Co. Tidewater Oil Co. Continental Oil Co. City Water Board State Engineer Hobbs OCC Office

A progress report was requested within 30 days.

The meeting was adjourned.

RFM/mc

HOBBS. NEW MEXICO

July 16, 1957

Mr. A. L. Porter, Jr., Director Cil Conservation Commission Box 871 Santa Fe, New Mex.

Dear Mr. Porter:

1.1

Enclosed you will find a report on the meeting held in Hobbs, New Mexico on July 9, 1957 to consider the protection of fresh water resources.

Yours very truly,

OIL CONSERVATION COMMISSION

R. F. Montgomery Proration Manager

mc encl.

HOBBS, NEW MEXICO

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#### OIL CONSERVATION COMMISSION

HOBBS, NEW MEXICO

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RFM/mc

RAVE

COMPANY OR AGENCY

ADDRESS

Narron V. Mankin	NMOCC	Santa Fe, N.H.
<b>B.F.</b> Montgomery	NHOCC	Box 2045 - Hobbs, N.M.
J.W. Bunyan	NKOCC	Box 2045 - Nobbs, N.M.
Dan Nutter	NNOCC	Santa Fe, R.H.
W.J. Cooley	NNCCC	Santa Fo, N.M.
C.M. Rieder	Self	Robbo, R.M.
F.D. Ingholm	:elf	Albuquerque, N.M.
Fric Engbrecht	N H O G C	Box 2045 - Hobbs, N.M.
W.L. Crothers	Inuble	Box 1600 - Midland, Texas
Henry E. Meadows	Humble	Box 1600 - Midland, Texas
H. McCarty	Hurile	Box 2347 - Hobbs, N.M.
B.R. Bevill	Humble	Box 2347 - Hobbs, N.M.
R.G. Tonkin	Humble	Box 2347 - Hobbs, N.H.
Zane Spiegel	State Engineer's Office	Santa Fe, N.K.
W.F. Yost	The Texas Co.	Hobbs, I.M.
H.N. Vade	The Texas Co.	Box 1720 - Pt. Horth, Texas
C.F. Teylor	Culf Cill Corp.	Box 2167 - Hobbs, N.M.
C.F. Teylor N.V. Kestler	Culf Cil Corp. Culf Cil Corp.	Box 2167 - Hobbs, N.M. Box 669 - Roswell, N.M.
N.V. Kestler	Culf Cil Corp.	Roz 669 - Roswell, N.M.
W.V. Kestler O.K. Gilbreth, Jr.	Culf Cil Corp. Gulf Cil Corp.	Box 669 - Roswell, N.M. Box 962 - Roswell, N.M.
N.V. Kestler O.K. Gilbreth, Jr. W.F. Eddington	Gulf Gil Corp. Gulf Gil Corp. Gulf Gil Corp.	Roz 669 - Roswell, N.M. Box 962 - Roswell, N.M. Hobbs, N.M.
W.V. Kestler O.K. Gilbreth, Jr. W.F. Eddington C.M. Bumpass	Gulf Gil Corp. Gulf Gil Corp. Gulf Gil Corp. Gulf Gil Corp.	Box 669 - Roswell, N.M. Box 962 - Roswell, N.M. Hobbs, N.M. Hobbs, N.M.
N.V. Kestler O.K. Gilbreth, Jr. N.R. Eddington C.M. Eumpass Elvis Utg	Gulf Cil Corp. Gulf Cil Corp. Gulf Cil Corp. Gulf Cil Corp. N M O C C	Box 669 - Roswell, N.M. Box 962 - Roswell, N.M. Hobbs, N.M. Hobbs, N.M. Santa Fe, N.M.
N.V. Kestler O.K. Gilbreth, Jr. W.F. Eddington C.M. Bumpass Elvis Utz J.A. Moore	Gulf Gil Corp. Gulf Gil Corp. Gulf Gil Corp. Gulf Gil Corp. N M O C C Continental Gil Co.	Box 669 - Roswell, N.M. Box 962 - Roswell, N.M. Hobbs, N.M. Kobbs, N.M. Santa Fe, N.M. Hoswell, N.M.
N.V. Kestler O.K. Gilbreth, Jr. W.R. Eddington G.M. Bumpass Elvis Utg J.A. Moore E.V. Boynton	Gulf Gil Corp. Gulf Gil Corp. Gulf Gil Corp. Gulf Gil Corp. N M O C G Continental Gil Co. Continental Oil Co.	Box 669 - Roswell, N.M. Box 962 - Roswell, N.M. Hobbs, N.M. Hobbs, N.M. Santa Pe, N.M. Ecswell, N.M. Dox 427 - Hobbs, N.M.

A.R. Ballou Joseph 0. Walton Frs. A.A. Kempita hugh Smith J.D. Hemilton Richard Lee Doak G.L. Staley D.C. Capps J.E. Wooton J.U. Brown M.C. McPhail Relph L. Hendrickson B.L. Elkins J.W. Kontgomery Fred C. Eaker Lent N. Nozey R.B. Leyhe G.W. Putnam R.E. Powers C.C. Selter K.J. Pernard H.P. Shackelford S.E. Cavanauch Jack D. Jones Robert N. Miller H.G. Veberry G.M. Meal

#### Sun Oil Co. Self City Commission Phillips Petroleum Co. Stendard C11 Co; of Texas Standard of Texas N.N. Cil & Cas Eng. Amerada Pet. Corp. T. P. Cosl & Oil Co. Pan American Fetroleum Corp. Pan American Petroleum Corp. Pan American Petroleum Corp. Hobbs, N.M. Shell 011 Co. Shell C41 Co. City of Hobbs Engr. N.M. CA1 & Cas Amen. Samedan Oil Corp. Samedan Cil Corp. Minclair Oil & Cas Co. Sincleir Oil & Cas.Co. Sinclair Cil & Cas Co. Midewater Cil Co. Tidewater Cil Co. Tidewater Cil Co. Tidewater 011 Co. Tidewater Cil Co. Tidevater & Getty 011

Box 2880 - Dallas, Texas Hobbs, N.M. Bobbs, N.M. Box 758 - Hobbs, N.M. Box 397 - Hobbs, N.M. Ein B - Royalty, Texas Hobbs, N.E. Draver D - Momment, W.M. Pox 2037 - Midland, Texas Box 899 - Roswell, N.M. Hobbs, N.M. Eox 1957 - Robbs, N.M. Box 1957 - Hobbs, N.M. City Hell - Hobbs, N.M. Box 1291 - Roswell, N.M. Eox 2137 - Hobbs, N.M. Box 2137 - Hobbs. N.M. Pox 1470 - Midland, Texas. 520 E. Broadway - Hobbs. N.K. 520 E. Broadway - Hobbs, N.M. Box 547 - Hobbs, N.M. Los Angelos, Celif. Box 731 - Julsa, Okla Box 547 - Hobbs, R.M. Eox 1231 - Midland, Texas Hobbs, N.H.

Tom N. Neal
D.H. Trahan
Rex C. Cabaniss
N.B. Oven
J.A. Lore
Ť.Ó. Hobb
E.B. Steward
D.N. Kitley
D.L. Frovince
Lloyd A. Celhoun
Peul S. Johnston
Randall L. Thompson
C.V. Jobs
N.H. Alexander
Frank E. Irby.
Frod H. Hennighausen
James Wright
Reed W. Hower
J.D. Ramey
J.N. Dunlavey
R.J. Christensen
Burtow Veteto
W.G. Abbott
E.F. fotter
D.J. Van Orden
C.T. McClanahan
D.E. Bull

#### Citizen. Shell 011 Co. Shell Cil Co. Shell 011 00. Seil 011 Ce. Ohio 011 Co. Chio 011 Co. Chio Cil Co. Chic 011 00. Board of Water Comm. Gackle Gin-Goo Hobbs Water Board Eobbs Water Board Nater Dept. State Engineer's Office State Engineer's Office State Engineer's Office U.S.C.S. - Ground Water Board Roswell, K.M. Skelly Cil Co. Skelly Cil Co. Magnolia Petroleum Co. Morris E. Antweil Robbs Water Board Cities Service Oil Co. Sunray Mid-Continent 011 Co. Midland, Texas Sunray Mid-Continent Cil Co. Sunray Mid-Continent Cil Co. Midlend, Texas

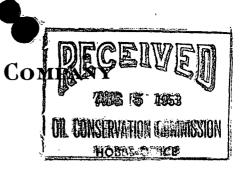
Hobbs, N.N. Hobbs, H.M. Hobbs, N.M. Hobbe, N.K. Mdland, Texas. Robbs, N.M. Midland, Texas Mdland, Texas Hobbs, N.M. City Hall - Hobbs; N.M. Hobbes N.M. Hobbs, N.M. Hobbs, N.M. Hobbs, N.M. Canta Fe, N.M. Posvell, R.M. Rosvell, N.H. Hobbs. N.M. Hobbs, N.K. Hobbs, N.H. Hobbs, N.M. Hobbs, N.M. Hobba, N.M. Hobbs, N.M.

•		and the second
Roy T. Lains	Relliburton	Hobbs, N.M.
Allen D. Jarred	Halliburton	Lubbock, Texas
Vic Jameson	Hobbs Daily News-Sun	Hobbs, N.N.
W.H. Vaughen	Walker Gil Corp.	Hobbs, N.N.
E.J. Fischer	NNCCC.	Hobbs, N.N.
W.S. Snith	NHOCC	Hobbs, N.M.
Mr. & Mrs. V.H. Ellison	Citizen	Hobbs, N.M.
W.D. Girand	Attorney	Hobbs, N.M.

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#### HUMBLE OIL & REFINING

CERCEXARCHMANN AREAN



P. O. Box 2347 Hobbs, New Mexico August 5, 1953

New Mexico Oil Conservation Commission P. O. Box 2045 Hobbs, New Mexico

Gentlemen:

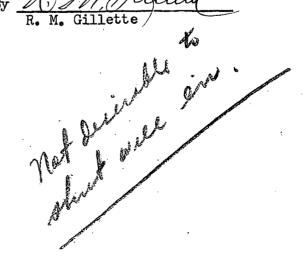
Authority is requested to run approximately 3000 barrels of distress oil which is now flowing, uncontrolled, from the bradenhead on our Federal Bowers "A" A/C l Well #2, Unit J, Section 30, T-18-S, R-38-E, Hobbs Pool. This well is flowing into a pit at an estimated rate of 18 barrels per hour.

We are now moving in a workover rig to kill the well and work same over.

Humble Pipe Line Company is transporter of oil from this lease. Oil produced in excess of current allowable for this well will be charged against the future allowable.

Yours very truly,

HUMBLE OIL & REFINING COMPANY



RMG/jsp

cc: Mr. W. E. Hubbard Mr. J. W. House

#### HUMBLE OIL & REFINING COMPANY

HOUSTON 1, TEXAS P. O. Box 1600

August 12, 1953



New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Attention: Mr. R. R. Spurrier Secretary & Director

#### Gentlemen:

¿ A-238 D50527 (3-53)

On August 2, 1953, we discovered a leak in the cellar of Federal-Bowers "A" No. 2 located on our Federal Bowers lease in the Hobbs Field, Lea County, New Mexico. Flow into the cellar was estimated at one barrel per hour. The cellar was dug out and the annulus between 12-1/2-inch and 9-5/8-inch casing was found to be flowing oil through a 1/2-inch valve on the 12-1/2-inch bradenhead. Flow was estimated at 2.5 barrels per hour.

Federal Bowers A-2 was originally completed in September, 1930, in open hole from the 7-inch casing set at 3960 feet to 4213 feet. The well was re-entered in September, 1947, and holes were located in the 7-inch oil string at 490 and 875 feet. These holes were repaired by perforating the 7-inch oil string at 1500 feet and circulating cement to the surface between the 7-inch and 9-5/8-inch casing. The hole was deepened to 4238 feet and a string of 5-1/2-inch casing was run inside the 7-inch casing set on bottom and cemented with 30 sacks. The 5-1/2-inch casing was perforated from 4010 to 4205 feet. A Baker production packer was set at 3940 feet and the well returned to production. A well completion diagram is attached.

After the cellar was cleaned out, the 5-1/2-inch oil string was tested with 1000 pounds pressure and found to hold pressure satisfactorily. A similar test was also made on the annulus between the 5-1/2-inch and 7-inch casing. This annular space was tested with 1000 pounds and was found to hold pressure satisfactorily.



HUMBLE OIL & REFINING COMPANY

A-238 D50527 (3-53)

HOUSTON 1, TEXAS

On August 5, 1953, a total of 1685 barrels of water was pumped into the producing interval from 4010 to 4205 feet. Injection pressures ranged from 900 to 1600 pounds. The flow on the 1/2-inch valve on the 12-1/2-inch bradenhead had increased to 15.5 barrels of oil per hour. On August 6 after pumping an additional 455 barrels of water into the producing interval, the Baker production packer at 3940 feet was drilled out and a retainer set at 4000 feet. The 5-1/2-inch oil string was perforated at 3976 feet with four shots and a Baker P & T tool was set at 3916 feet. A total of 300 barrels of water was pumped through the perforations at 3976 feet in ten hours. The average injection pressure was 2100 pounds. A temperature survey, Delta log and potential survey were run. A bridge plug was set at 3795 feet and the 5-1/2-inch casing perforated from 3677 to 3678 feet with four shots. A total of 900 barrels of water was injected through perforations from 3677 to 3678 feet. Injection rates ranged from 16 to 60 barrels per hour and injection pressures from 2700 to 3800 pounds. As of August 8, 1953, the oil flow on the bradenhead had increased to 18.5 barrels per hour.

The results of these tests indicate that the oil flow on the 12-1/2-inch bradenhead of Humble Federal Bowers A-2 is not the direct result of a casing leak in Bowers A-2. Humble is now in the process of conducting temperature surveys in its other wells in the area in an effort to locate any possible casing leaks which might serve as a source for the oil flow noted in the bradenhead at Federal Bowers A-2. The characteristics of the oil being produced from the 12-1/2-inch bradenhead at Bowers A-2 indicate that the San Andres is the source of this oil. Humble has contacted offset operators and advised them of the situation at Bowers A-2.

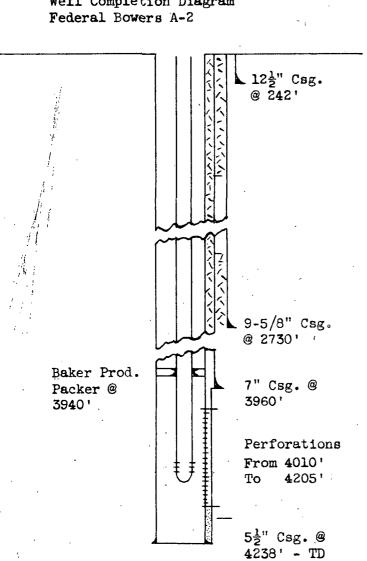
We request that we be issued such tenders as are necessary, covering the oil produced from the bradenhead on this well during the period that it continues to flow; in the meanwhile, Humble will continue diligently its efforts to locate and control the source of the oil now being produced from the 12-1/2-inch bradenhead of the Federal Bowers A-2 well.

Yours very truly,

HUMBLE OIL & RÉFINING COMPANY

By J. W. House

DES:WDM:1s cc: Mr. A. L. Porter Mr. R. S. Dewey-Bldg. P. O. Box 2045 Mr. M. M. Rogers-Hobbs Hobbs, New Mexico



Well Completion Diagram Federal Bowers A-2

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July 26, 1957

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Mr. A. L. Porter, Jr., Director Oil Conservation Commission Box 871 Santa Fe, New Mexico

Dear Mr. Porter:

The first meeting of the committee that you appointed to study the fresh water pollution problem in the Hobbs area was held on July 19, 1957. A list of the committee members is enclosed for your information.

At this meeting Mr. E. G. Minton, Lea County Hydrologist, gave a brief talk on the general geology and hydrology of the area. Mr. Minton stated that from past studies the water moves at about 7 to 9 inches a day, however due to the Cone of Depression (covering about the area of the City Limits of Hobbs) it probably was moving at two to three times this rate. This Cone of Depression is some 25 feet deep and 5 to 6 miles in diameter causing the water to flow towards the center of Hobbs. When asked for suggestions from committee members he put forth the idea of dewatering the contaminated area and reinjecting the treated water. The difficulty of this type of project would be that water wells in the area would go dry. He made an estimate that if the entire saturated section was opened one well could probably produce 800 to 1,000 gals/min. Mr. Minton also stated that water wells had no casing or plug and abandonment requirements.

After Mr. Minton's talk, Mr. Jack Brown, Chairman, proposed methods of conducting the meetings and the following items were decided upon:

- 1. Conduct informally
- 2. Members notify alternates
- 3. Minimum of minutes
- 4. Quorum to be 5 members
- 5. Rule of majority
- 6. No action of member binding on his organization
- 7. No charges to committee
- 8. Only members and alternates attend meetings unless others invited

Mr. Zane Spiegel gave a long talk on the general hydrology of the Hobbs area. Mr. Jack Brown stated that subcommittees would be formed to study specific phases of the problem and the next meeting was called for 9:00 A.M. July 25th at the Hobbs OCC Office. At the second meeting of this committee, July 25th, numerous items were discussed which took most of the day.

It was the concensus of the members that the area of contamination was small in extent, possibly 2 to 5 acres, and that if as much as 300,000 barrels had entered the fresh water aquifer that due to the fact that the oil would ride on top of the water it would be filtered out within one mile. This is not a final answer but to determine in some manner what we were looking at, 300,000 barrels was assumed to be in the aquifer. Due to the dry water sands in the upper portions of the aquifer within one mile distance it would filter out if it was riding on top of the water.

However the committee is going ahead with its studies. The OCC Hobbs Office has been requested to furnish the committee with information on all remedial work completed and other pertinent information.

A subcommittee was formed, Tidewater Chairman, to investigate the feasibility of the committee recommending the manner in which future water wells should be completed. The following organizations were appointed to this subcommittee:

> City Water Board Samedan Oil Co. State Engineer

A second subcommittee was formed, Hobbs OCC Chairman, to determine the location of all water wells in the Hobbs Pool area, and determine all physical characteristics of such wells as to pipe, depth and purity of water. The following organizations were appointed to the subcommittee:

> Shell Oil Co. Continental Oil Co. State Engineer

A third subcommittee was appointed, Samedan Chairman, to investigate contamination of the fresh water aquifer from causes other than oil wells. The following organizations were appointed to this subcommittee:

> Pan American Pet. Corp. City Water Board

The afternoon session was largely taken up by discussing methods of preventing future contamination.

Casing programs and methods the OCC used in checking for leaks was discussed.

Following considerable discussion of preventing future contamination, the committee may recommend the following:

1. That surface pipe set on clamps should be corrected, and that a small diameter pipe be used to vent all surface bradenheads to the atmosphere at all times or install a sensitive gauge.

- Porter-Page 3
  - 2. That quarterly tests by operators be submitted to the OCC with the certification that no leaks were found or if leaks were found a program for correction. One such test each year to be witnessed by the OCC.
  - 3. That packers be installed on all flowing wells and the annular space be filled with sweet oil.
  - The committee meeting was adjourned until 9:00 A.M. August 1, 1957.

Yours very truly,

OIL CONSERVATION COMMISSION

R. F. Montgomery Proration Manager

RFM/mc cc-E. J. Fischer, Engineer OCC, Hobbs encl.

A Summary on the Results of Eliminating Underground Waste and Fresh Mater Contamination in the Hobb Pool Arez. Introduction The recent published reports of oil contaminating the Fresh Water covifers near the City of Hobbs has caused numerous inquires. The most fiequent question 45 ked was how did the oikgeniorate into the water sands? The first answer of course is that the discovery of the Hobbs Pool in 1928 when Hobbs consisted of a General Stores end a Schoolhouse, was the main reason. Without eaning to be fischous by the give slow the Big of the contribution frectors were! 1. The Corrosive natore of

the Hobbs Pool oil. 2. The age of much of the well equipment 3. The type of older equipment 4. The type of well equipment used during Mational emergencies and during severel steel strikes The above items can be attributed to the operator, nature and emergencies. 5. Failure to recogning the problem and reporting to a responsible body. This can be attrebated to both the operator and the various government budies including the City of Hobbs the State Engine and the oil Commission

through out the country Further the bools Pool was the first important oil aservoir found in this entire over, of the Hobbs prol had not been discourd of the sentice of possible that new metics earnow would not be bosed on the del industry but port the tourist industry By 1930 say months ofthe the second well was completed Hobbs was a town of our 12,000 people, Before the end of 1930 our 130 wells were completed and had a rated potential of our 1,000,000 BOPD. This provide " for more oil them M. M. could produce today. Indias somewhat the terrific import the discom of the Hobbs pool bolon the ail wanty and the scomming of M.M.

6. The drilling of rester weeks that penetrated all fresh water agerifers without isolating incontaminated zones from these that were containted The responsibly have lies with those people that have drilled water wells. The above semarks makes it appear that everyone has been remine however that is not the in that the Hobbs pool is one of the clossic oil servoirs of the world, and true conservation under the direction of Mr. Staly had its beginning in this field. Hovermit bodies and engineers from all parts of the country have studied the principals setup for this field that become quide for developing fields

Promitly their are 3:45 poorling wells on the Hobbes structure. These wells have produced serve 153,000,000 bassels of oil Print to 1931 20 wells surface did not such Red Bech Set about 200 feet of Surface pipe Cementing To surface. 95/0 set. 1 95/8 set and commented at about 2750 pest. Then about 4100 feet 7" set a control then 3 inch twoing to about 5'of holdom bolto-Ong cost about \$90,000 By the ond of 1941 265 Hobbs Pool wells were producing. Doing The Bowers development some 85 wells were dilled

"a Jypical casing program was 400' 95/8, 3100' 5/2 • Enough Historical boch ground I The fast that cosing locks shrist was first brought to the attention of the New Metrico del Conservation Commission by letter from the Humble Oil & Rfg Co on A vgent 12, 1953 The Director of the OCC called a meeting of Hooks Pool operates on Hacquist 25, 1953 and Mourd a depicting that tests for asging lease be performed before Oct. 1, 1953 The Auntile Bowers 2 A well produced some 8,000 bbls of Oil from the Surface & Intermete

Braiden I. 2-A 2335'S Hemble Bowers 2310'E St 30 18-38 151/2 /102/20# 121/2 / 242/225 9518 / 2750/650 7/3960/300 5/2/4238/30 Ar Aug 2,1953 Temp Surry indicates leak @ 18 feet, 216 feet, 36 76 feet Pressured up between Tuby + 51/2 + 51/2 + 7" 7+ 95/8 no leak. Celler was dug 5 12 fet + fluid was entering the an open "2" value an Surface csay, The well flowed to pits a 18to 20 BOPH. Total Almelation and produced them surface cry thry Sept 8, 1953 war 8, 212 BO 2 Jo misure that the operations nod found all leaks a ? pocond directing was son on march 12, 1954 to realish all well with a Commission representation to wilness this lat.

On March 15, 1954 at a specing mtg of the City Buril Prestation 110. 686 was adopted, this resolute declaring that an emorgency existed due to leaks in well Cag Time conducting a simong (3). De August of 1956 as militing was hald by the OCC to dilans SE NMy bet this meeting it was brought to the allertion of operators that water Contamination Asistel in Selis 30 of 7105, R-38-E. MA, Porty Rincelor of the OCC and Mr. John Walker member of OCO were present of Mr. Porter inform of the ascratage that all wells much Rochs every "spoist, Mr. Porter made

City would not be tolerated , and directed that a 4 pertin apra be rechecked immidulely, and pet up another complete. accharles for the Hools Porl which was completed and parties This year. During the Testing in The Addos find Poul from Any 535 1957 52 wells were report #400,000 est Cost todate On June 19, 1957 apter the City Council heard soundary Unit and antoningting exposited in our frish water supply a: mity was held between MM. Porter and MM, Hallassi Cisty attoning to aleterning steps to be taken. Mr Porter how been ruforming that no wells and porronthis locking

and as informed mo, Hallon. It was the opinion of the City Governing that The did and this should he pender from the misstigetin, Whe have made investigation and gothered conclusely information and it is now being for aling 5 deterine -

# STATE OF NEW MEXICO

#### Controlling State Agency

#### State Engineer

# General

The laws of 1907 created the office of the State Engineer and provided for his general supervision of the waters of the state including the measurement, appropriation and distribution thereof. The State Engineer has formulated the following regulations which affect water well construction standards.

#### Drilling of Well

No well may be drilled in a declared underground water basin except by a licensed well driller. Before licensed driller may drill a well, he shall ascertain that the land owner has a valid permit for such work. He shall keep a reliable log of each well drilled, showing formations, waterbearing strata, etc.

In general, the casings of irrigation wells penetrating artesian aquifers shall not exceed the following maximum outside diameters: for irrigated areas less than 100 acres in size, 10-3/4 inches; for irrigated areas exceeding 100 acres, 13-3/8 inches.

#### Exploration in Artesian Aquifers

Any person proposing to drill a well or wells for oil, gas or other minerals, or for geological or geophysical prospecting within any area of artesian water supply in any declared underground water basin shall notify the State Engineer of the purpose of proposed exploration, the type of equipment to be used, the location and specifications of the proposed work and the schedule of performance. He shall furnish bond to the State of New Mexico in the sum of \$5,000.00 for the drilling of one well or \$10,000.00 for the drilling of more than one well. Said bond shall be approved by and filed with

- <u>1</u> +

the New Mexico Oil and Gas Commission or the State Engineer. Such drilling shall be undertaken only under permit of the State Engineer.

# Log and Well Records

The well driller shall keep a log of each well drilled, repaired or deepened, making current records as drilling progresses. The well driller shall submit to the Groundwater Supervisor, State Engineer Sub-Office, P. C. Box 810, <sup>R</sup>oswell, New Mexico, in triplicate, on forms supplied by the State Engineer, a complete and properly executed well rocord, not later than ten (10) days after completion of the well. <sup>R</sup>ecords shall be submitted for each artesian or hon-artesian well drilled, repaired, deepened or cleaned.

#### Samples

The well driller shall, when requested by the State Engineer, furnish (in sample bags supplied by the State Engineer) samples of the formations encountered during drilling operations. The method of sampling and the quantities required will be stipulated by the State Engineer.

# Suspension or Revocation of Driller's License

- The State Engineer may, upon notice and hearing, suspend or revoke a water well driller's license if he finds that said well drilled has:
  - (a) intentionally made a material misstatement of facts
    - in his application for a license;
  - (b) intentionally made a material misstatement of facts in a Wall Record report;
  - (c) been found to be incompetent as a well driller;
  - (d) wilfully violated any of the prescribed rules and regulations;
  - (e) failed to submit a Well Record report of well or wells drilled, repaired, or deepened in accordance with the rules and regulations; or
  - (f) wilfully violated any other condition of the bond maintained by him as a prerequisite for such license.

After one year following the date of revocation of a Water Well Driller's license the well driller may make application to the State Engineer for a new license. Appeals from the decision of the State Engineer may be taken to the District Courts of the State in the same manner as now provided for other appeals from action of the State Engineer.

Should the bond be violated, the principal and surveites are liable for damages to the State of New Mexico and any other person who may be injured thereby. In addition, the State Engineer is authorized to recover on behalf of the State of New Mexico a civil penalty in an amount to be determined by the District Court in which the action is tried, but not to exceed \$1,000.00.

#### Construction of Artesian Wells

The casing for artesian wells shall be inspected by the State Engineer or his representative and shall be of proper weight, of good quality, smooth and without pits. The threads shall be in good shape. The threads, if worn or damaged, must be redressed. A casing shoe of standard make shall be used in all instances. In no case shall the outer or watercarrying casing be perforated.

Casing of various sizes shall meet the following minimum A.P.T.

TABLE 7

Outside	:Weight,	lbs. per. for	t: Wall	: Length of	: Threads:	Grade
diameter,	: Pipe :	Pipe and	: thickness,	: coupling,	: per :	of
inches	: only :	couplings	: inches	: inches	: inch 📜 :	casin
		and a second second Second second				
5-1/2	12.84	13.12	.228	6-3/4	. 10 or 8.	F-25
6	14.65		.238	7	10 or 8.	F-25
6-5/8	16.69	17.29	.245	7-1/4	10 or 8	F-25
-7	19.54	20.01	.272	7-1/4	10 or 8	H-40
7-5/8	23.47	24.26	64 <b>- 300</b>	7-1/2	8	H_40
8-5/8		28.13	.304	7-3/4	8	<b>-</b> 40
9-5/8	31.03	32.25	.312	7-3/4	8	H-40
10-3/4	38.88	40.50	· 350	્રેટ્રે 8 ટેટર ટે ખેડલાવે	8	J-55
11-3/4	45.56	46.94	.375	8	8.	J-55
13+3/8	52.74		.380	8	8	J-55

NATER WELL CASING SPECIFICATIONS

- 3 -

After the hole has been drilled to the confining bed overlying the artesian aquifer and the casing has been landed theron, it shall be cemented with oil-well cement. The cementing procedure to be followed depends upon whether the well has been drilled by the cable tool method or by the rotary method.

The following procedure shall be used in the case of a well drilled with cable tools. Two-inch tubing shall be run inside the casing to within two feet of the bottom of the hole. A heavy slurry of oil-well cement and water shall then be pumped or poured through the tubing. During this opera-tion the casing shall be raised from six to fifteen feet from the bottom depending upon the density and stability of the formation immediately above. the confining stream. After the cement has been run, the tubing shall be removed and the casing released or driven to the bottom. The cement shall be allowed to set for seventy-two hours before drilling is resumed. The following table shows minimum amounts of cement to be used in wells drilled with cable tools:

# TABLE 8

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# MINIMUM AMOUNTS OF CEMENT ALLOWED IN CABLE TOOL WELLS

Outside dia of casing,		Minimum of hole,		Minimum s cement to		
OL CADLIE,	*110169	OT HOLE,	Lucieo	Cemento do	DC GOCG	
	<b>6</b>	6-5	/0	r C		
5-1/				<b> </b>		
6-5/	0	8-1		3 <b></b>		
1		9-5	/8	15		
8-5/				. (See <b>15</b>		
10-3/1	4	, 12–1	./2	20	).	
13-3/	8	15-1	/2	20	)	

If a well is drilled by the rotary method, cementing shall proceed as follows: After the casing has been run and landed, the pump shall be started and mud circulation maintained for a time with the casing raised slightly in order to equalize the mud pressure inside and outside of the casing. A heavy slurry of oil-well cement and water is then mixed and poured into the top of the casing. A casing plug of standard make is placed in the casing above the cement. A swedge nipple is then screwed onto the top of the casing and connected to the mud pump. The pump is started and mud slurry is pumped into the casing forcing the cement and casing plug down the casing.

It is advisable to place a length of two by four about six feet long ahead of the plug to act as a guide and keep it from going to the bottom as it is important to retain some of the cement in the casing to insure complete cementing around the shoe. A measuring line is run behind the plug so that the driller may know its location at all times. When the plug reaches a point from five to seven feet above the bottom, the pump should be stopped and the casing lowered to the bottom. The cement must set seventy-two hours before drilling is resumed.

The following table shows the minimum amounts of cement to be used in wells drilled with rotery tools:

#### TABLE 9

#### MINIMUM AMOUNTS OF CEMENT ALLOWED IN ROTARY TOOL WELLS

Outside			<pre># Minimum sacks of : cement to be used</pre>						
of casi	ng, in	ches _	\$ (	ement	to	be	used		
					* •				
5	-1/2 -5/8				10 12	1			
7	-70				12				
	-5/8				15				
10	-3/4				20				
13	-3/8	1.1.1			30		en an		

If any soft unstable formation is encountered below the casings seat a perforated liner may be set. The liner shall extend from a hard seat on the bottom of the hole to a point five to ten feet above the bottom of the casing. If the water-bearing fromation is stable, no liner will be required.

Flowing wells must be equipped with a suitable walve.

## Repair of Artesian Wells

Faulty, leaking ertesian wells sometimes waste more water underground than they deliver at the surface. When leaks in the casing are found below ground and the casing and well are otherwise in good condition, the well may be repaired by relining with a casing which will slip down inside the original casing. The liner shall be set at the bottom of the original casing regardless of the location of the point of leakage. If this were not done, any new leaks developing below the relined section could not be repaired.

A packer of standard make approved by the State Engineer shall be used in all well repairs. It shall be installed on the bottom of the first or lowest joint of the liner and shall be set immediately above the casing shoe of the original casing. Homemade packers will not be permitted.

The following table shows the recommended sizes of liners to be used if the walls of the original casing are comparatively smooth. All dimensions are in inches.

#### TABLE 10

### RECOMMENDED LINER SIZES

#### in inches

	Original	casing	si ze				Recom	mende	d lin	er si	L Ze	
Outside	diameter	t Ins	ide	diame	ter	4	. Ou	itside	dian	eter		
6+	5/8	المتولى المراجع والمواجع	6,	135	· . ·				4-1/2			
	5/8	ور مع ور مارد المرد. ور مع ور مارد مارد مارد	8.					, <b>1</b>	7		·	
1 - E.	3/4		10.					م ت د د د	8-5/8	( ·		
	3/8	ي. در در دوره در دار	12.						0-3/4			
				-4					<b>0-</b> 2/4			7

The removal of any of the original casing in an artesian well to be relined is prohibited.

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Where it is found necessary to set large surface pipe for the installation of a turbine pump, the following procedure shall be followed. The surface pipe shall be driven to the desired depth outside the original casing after which the original casing shall be cut off with casing cutters at a point approximately ten feet above the bottom of the new pipe. The original casing shall not be removed until the new pipe has been landed. A lead seal shall then be driven between the original casing and the new surface pipe to make the joint watertight.

#### Plugging of Artesian Wells

If an artesian well is to be replaced by a new well, the owner shall file a \$1,000 bond with the State Engineer to insure the proper plugging of the well to be abandoned, and such well shall be plugged immediately following the completion of the new well. If the old well is plugged before the drilling of the new well, however, such plugging bond will not be required, and the work shall be done under the supervision of the State Engineer or his representatives who shall designate the amount of cement to be used and the depths at which cement plugs shall be set. Plugging expense shall be borne by the owner, or may be borne by the conservancy district, if one has been organized to do and finance such work.

Two approved procedures of plugging are recognized-the hydraulic method and the spudding method.

In the hydraulic method, 2 inch tubing is run into the well to a point at or near the bottom where the first cement plug is to be set. Clay mud mixed into a slurry weighing from 12 to 15 pounds per gallon is pumped through this tubing until all flow of water is shut off and the mud slurry coming out of the top of the well is of same consistency as that pumped into the well. Oil well cement is then mixed with water to the same or a slightly heavier consistency than the mud slurry and is either pumped through or poured into the tubing, either method being acceptable.

Men the specified amount of cement for the first plug has been run into the well, the tubing is raised to the point where the next cement plug is to be poured. Cement plugs shall thus be set in the impermeable strate between each artesian water-bearing formation and above the uppermost artesian water-bearing formation. The depth at which each cement plug shall be set and the amount of cement to be used in each plug shall be determined by the State Engineer or his representative. When this has been done, the tubing is removed from the well and the hole filled to the top with heavy mud.

In the spudding method, the hole is filled with fine gravel to the point where the first cement plug is to be set, the gravel being poured in slowly so as not to bridge the hole. Oil well cement and water are then mixed and poured through two-inch tubing on top of the gravel. The tubing is then plugged and additional gravel poured to fill the well to the next, plug location. The process is repeated until all necessary cement plugs have been set. The hole is then filled to the surface with soil, gravel, or mud.

# Specifications for Oil, Cas, Mineral and Test Wells

All test, exploratory or producing mineral wells shall be so constructed, maintained and operated that each water shall be confined to the aquifer in which it is encountered. All test or exploratory wells penetrating artesian aquifers shall be cased. The casing shall be subject to inspection of the State Engineer of his representative and shall be of proper weight, of good quality, smooth and without pits. The threads shall be in

- 7 -

good condition. If worn or damaged, the threads must be redressed. A casing shoe of standard make shall be used in all instances.

Casing of various sizes shall meet the minimum A.P.I. specifications set forth in "Construction of Artesian Wells".

The surface string of pipe must be bonded to the confining bed overlying the artesian equifer by the method described in "Construction of Artesian Wells", using sufficient neat cement to effectively seal off the aquifer and protect it from contamination. The cement shall be allowed to set for a period of not less than seventy-two hours. The amount of cement to be used shall be stipulated by a representative of the State Engineer or the Oil Conservation Commission.

The second (oil-cerrying) string of casing shall be set through the artesian aquifer and landed into the formation underlying the artesian aquifer after the aquifer has been mudded off by a mud slurry weighing at least twelve pounds per gallon. The second string shall be properly cemented between the shoe of the inside casing and the bottom of the surface string by the method described in "Construction of Artesian Wells" applying to rotary equipment. Not less than 150 per cent of the calculated amount of cement required to fill the space between the inside casing and the drilled hole below the base of the surface casing shall be used. The cement shall be allowed to set for a period of not less than seventy-two hours. A test shall then be made of the adequacy of the scaling off of the artesian water by the pressure or baller method in the presence of a representative of the State Engineer or the Oil Conservation Commission.

Shot holes for geophysical emploration shall not penetrate closer than twenty-five feet above any known artesian aquifer.

In the event that the test well is to be abandoned, the State Engineer and the Oil and Gas Inspector shall be notified and such well shall be plugged in compliance with the specifications of the Oil Conservation Commission or the State Engineer and in such manner that waters will be permanently confined to the aquifers in which they were encountered.

# Specifications for Non-Artesian Wells

The State Engineer has not adopted any general specifications for non-artesian or shallow wells. Any specific requirements and provisions which may be made are set forth in the permit which he approves for the drilling, repair, deepening or cleaning of such well. It is desirable that each well be constructed so as to leave an opening for measuring line to be run in between the outside casing and the pump housing in order that the water level in the well may be measured at any time. If desired for sanitary purposes a removable plug may be provided for such opening.

# Abandoned Wells-Waste of Water

Any artesian well which has been abandoned for more than four years, from which any water right has been forfeited, which is found to be wasting water may be summarily plugged without notice to the owner by the State Engineer, his representative, or the Artesian Conservancy District within which the well is located.

The State Engineer or the Artesian Conservancy District may require the owner of any artesian well currently in use which is found to be leaking or wasting water to repair or correct the same in a satisfactory manner. If, after proper notification, the owner fails or refuses within ten days to abate the nuisance, the officials having jurisdiction may do whatever is necessary and proper to prevent such waste and the cost thereof shall be in lien against the land, provided that claim of lien is filed with the County Clerk within five days after the repairs or corrections are completed.

# HOBBS OFFICE OCC

Roswell, New Mexico August 5, 1957 AM 10:13

MEMORANDUM

TO: A. L. Porter, Jr., Director, Oil Conservation Commission
FROM: Committee Studying Fresh Water Contamination in the Hobbs Pool Area.

SUBJECT: Progress Report.

This Committee was appointed and its assignment made at the general meeting called by the Oil Conservation Commission on July 9, 1957. At that time a progress report was requested within 30 days. This is that progress report.

The Committee met for the first time in Hobbs, New Mexico, on July 19, 1957, and subsequently on July 25, 1957, and August 1, 1957. All of the organizations and companies appointed to the Committee had representatives present at each meeting.

It is the consensus of the Committee that their assignment as a whole is approximately 50% completed and that their work will be completed with a final report prepared by the first week of September, 1957.

The principal items discussed during the three committee meetings were as follows:

E. G. Minton and Zane Spiegel.

St Eno 1. Pondun

Cont

2. The exhibits prepared by Mr. J. W. Runyan and presented at the general meeting held on July 9, 1957.

Introduction on the subject was furnished by Messrs.

The physical characteristics of the Ogallala formation

and the movement of water through this aquifer.

occ City 3. Apparent contaminated conditions which exist in the Ogallala formation northwest of the City of Hobbs.

Progress Report Cont'd

-2-

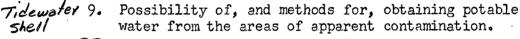
Pon am 4. Feasibility of eliminating or removing the apparent Cont. contamination.

2 wlsst

- city 5. The possibility of contamination of the Hobbs City water supply by migration from the area of apparent contamination. So may wells to watch for friend
- 6. Possible contamination of the fresh water by sources other than oil or gas wells such as sewage, waste oil Sandon and acid, open storm sewer ditches, gas plant waste water, refuse, and oil held in earthen pits.

Tidewater 7. Possible need for rules and regulations governing the drilling, completion and abandonment of water Shell . wells in the Hobbs pool area.

57 E 2 8. Establishment of an observation water well program to detect any new contamination and observe the movement, Convers if any, from the area to the northwest of the City of Hobbs.



Methods of determining the existence of defective casing in oil and gas wells. exhibit

Programing of bradenhead pressure tests on oil and . yearly sum to apopt gas wells in the Hobbs Pool area.

Jedansky 12. Sunda

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Method of repairing oil well casing found to be defective.

During the course of the above discussion, the need for

subcommittees was indicated and three were appointed at the meeting

on July 25.

Subcommittee to locate and gather data on all water 1. wells in the Hobbs Pool area.

> Oil Conservation Commission - Chairman Continental Oil Company State Engineer's Office Shell Oil Company

This subcommittee made a progress report on August 1, indicating that their assignment was approximately 35% completed

and expected to complete their assignment within three weeks.

Make findings short & as many as possible voury this conthink of. behips, opinions, this mutual sto.

Progress Report Cont'd

-3-

2. Subcommittee to study water well completion and abandonment practices in the Hobbs Pool area.

Tidewater Oil Company - Chairman City Water Board State Engineer's Office Samedan Oil Corporation

This subcommittee made a progress report on August 1, indicating that their assignment was completed.

3. Subcommittee to study possibilities of fresh water contamination through the disposal of waste products.

Samedan Oil Corporation - Chairman Pan American Petroleum Corporation City Water Board

This subcommittee made a progress report on August 1,

indicating that their assignment was 75% completed and should complete their assignment within one week.

For the Committee

J. W. Brown Acting Chairman

Copies to: Official Members and Alternates

# HEGORID DESTING OF COMMITTER STUDYING PROTECTION OF HONDO FRECH MATER SANDS MORPO, N.M. 12XICO JULY 25, 1957

The second posting of the Consittee Studying Protoction of Nobbo Fresh Mater Sands was hold in the OSC Conference Room in Nobbs, New Mexico on July 25, 1957. Official representatives present and

taking part in the meting were as follows:

J. W. Brown, Acting Chairman Pen American Petroleum Corporation

Continental Oil Company

Continental Oil Company

Hobbs City Water Board

Services Oil Correction

State Incincer's Office

State Suginoor's Office

Tidemator Oll Company. Tidemater Oil Company

Shell Oil Company Shell Oil Cospany

R. C. Landen, Alternate R. J. Francis, Alternate

W. G. Abbott, Alternate

R. F. Montgomory, Member B. J. Fischer, Alternate

R. S. Layhe, Alternate

R. C. Cabanies, Alternate J. M. Montgombry, Alternate

Zane Spiegel, Member R. L. Borton, Alternate

N. P. Shackleford, Kenher R. E. Biller, Alternate

Others present:

Eric Ingbrocht J. W. Runyan New Mexico Oll Conservation Commission New Mexico Oll Conservation Considerion

New Mexico Oll Concervation Completion

New Mexico Oil Concervation Commission

The Meeting was called to order at 9:00 a.m. by Mr. J. W.

Brown, Acting Chairmon.

The ontire casting was devoted to the discussion of elimination of contamination which may already onlet and possible action to prevent future contamination. During the discussion three sub-consistees were appointed.

- 1. Subcondition to gather data on all existing water wells located in the horizontal limits of the Robbe Fool.
- 2. Subcoundated to county drilling and completion prostieses for future water wells is the Hobbs Pool Area.
- 3. Subcomittee to study possibilities of contentfation by disposal of waste materials in the Nothe Pool Area.

It was agreed that the most secting of the consister would be held in the Oil Conservation Completion Conference floor in Hobbe, at 9:00 c.m., August 1, 1957. In the monthus, subconsistence would meet.

The meeting was adjourned at 3:15 p.m.

J. U. Brown Acting Cheirman

# THIRD INSTING OF COMMITTER STUDYING PROTECTION OF HOBES, NEW MAXICO AUGUST 1, 1957

The third meeting of the Committee Studying Protection of Hobbs Fresh Water Sands was hold in the OCC Conference Room in Hobbs, New Mexico on August 1, 1957. Official representatives present and taking pert in the meeting were as follows:

J. W. Brown, Acting Chairman Pan American Petroleun Corporation R. C. Lanner, Alternate Continental Oil Company R. J. Francis. Alternate Continental Oil Company W. G. Abbott, Alternate. Hobbs City Water Board R. F. Montgomery, Member New Mexico Oil Conservation Commission E. J. Fischer, Alternate New Mexico Oil Conservation Commission G. W. Putman, Member Semedan Oil Corporation R. E. Layhe, Altornate Samedan Oil Corporation J. W. Montgomery, Alternate - Shell Oil Company-R. L. Borton, Alternate State Engineer's Office

H. P. Shackleford, Member Tidewater Oil Company Others present:

Bric Engbrecht J. W. Runyan New Mexico Oil Conservation Commission

The Meeting was called to order at 9:00 a.m. by J. W. Brown, Acting Chairman.

Reports were heard from the three sub-committees appointed at the meeting on July 25.

Proparation of the progress report and the final report were

discussed. A sub-constitute was designated to prepare the progress report.

# The meeting was adjourned at 11:55 a.m.

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J. V. Brown Acting Chairman

### FOURTH MEETING OF COMMITTEE STUDYING PROTECTION OF HOBBS FRESH WATER SAND: HOBBS, NEW MEXICO AUJUST 8. 1957

The fourth meeting of the Committee Studying Protection

of Hobbs Fresh water Sands was held in the OCC Conference Room

in Hobbs, New Mexico, on August 8, 1957. Official representatives present and taking part in the meeting were as follows:

J. W. Brown, Acting Chairman Pan American Petroleum Corporation

B. J. Francis, Alternate Continental 011 Company

R. F. Montgomery, Member New Mexico 011 Conservation Commission C. W. Futman, Member Samedan Oil Corporation

J. W. Montgomery, Alternate Shell 011 Company

R. L. Borton, Alternate

H. P. Shackleford, Member Tidewater Oil Company

Others present:

Lric Engbrecht New Mexico Oil Conservation Commission J. W. Runyan New/Mexico Oil Conservation Commission

State Engineer's Office

The meeting was called to order at 9:15 a.m. by J. W. Brown, Acting Chairman.

Reports were heard from the two sub-committees which had not completed their assignments;

Final discussion was held on several items which had not been completed at previous meetinge.

Considerable discussion was devoted to the preparation of the Committee's final report. Assignments were made to the various organizations and companies to commence drafting the final report.

The next meeting was scheduled to be held at 9:00

a.m. in the OCC Conference Room in Hobbs on August 22.

The meeting was adjourned at 11:30 a.m.

J. W. Brown Acting Chairman

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# ECHARTERS FUELD AND PROTECTION OF MODES FLECT VATUR GAUDS HOSES, NEW MEXICO AUCHIST 22, 1957

# The fifth meeting of the Constitues Studying Protection

Fon American Petroleun Corporation

New Mexico Gil Conserva tion Commission

Ker Nerico Oil Conservation Condision

Continental 011 Cospany.

Separation 011 Corporation

Sarte Envincer's Office -

Pidemitor Oil Company

Shall Oil Compeny Shall Gil Compeny

of Hobbs Presh Unter Sends was held in the DES Conference Room in Hobbs, New Mexico, on August 22, 1957. Official representatives present and taking part in the moting were as follows:

J. W. Brown, Acting Cheirman

H. J. Francia, Alternate

A. F. Montgomery, Monter

E. J. Pischor, Alternato

R. E. Layho, Altornate

R. C. Cobuntse, Alternate J. V. Hontgomery, Alternate

H. L. Borton, Alternate

H. P. Shneldeford, Hombor

Othere present:

Aris Engbrecht J. W. Runyan

The mosting use called to order at 9:15 a.s. by J. W. Brown,

nating Chairman.

Reports were heard from the two sub-consistees which hed not completed their ausigments.

Major portion of the neeting was devoted to the proparation

of the Committee's final report. Draft copies of items to be included in the final report were reviewed in detail by the Committee. . . The past mosting was scheduled to be held at 9:00 a.m. in

the OCS Conference Room in Hobbs of Coptershor 5, 1957. á. Ane seating was adjourned at 9:45 p.m.

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J. W. Brown Acting Chaircan

CONSTITUTES STUDYING PROTECTION OF NORES FRESH WATER SANDS -HORDS, NEW MAKING JULY 19, 1957 19

A meeting of the Committee Studying Protection of Robbs Presh Water Sands was held in the OCC Conference floom in Nobbs, New Maxico on July 19, 1957. Official representatives present and taking part in the meeting were as follows: J. W. Brown, Acting Chairman Pan American Petroleum Corporation R. C. Lannen, Alternate Continental Oil Company E. V. Boynton, Altornate Continental Oil Company L. A. Calhoun, Member Hobbs City Hator Board W. G. Abbott, Alternate Hobbs City Water Board, R. F. Nontgomery, Merher Now Mexico Oil Conservation Commission E. J. Fischer, Alternate New Mexico 011 Conservation Commission C. E. Layne, Alternate Samedan Oil Corporation W. E. Owon, Member Shell Oil Company R. C. Cabaniss, Alternate Shell Oil Company Zane Spiegel, Homber State Engineor's Office R. L. Borton, Alternate State Ingineerts Office H. P. Shackalford, Hender Tidewator Oil Company R. N. Hiller, Alternote Tidewater Oll Company Others present Bric Engbrecht New Merico Oll Conservation Commission J. H. Runyan New Maxico Oil Conservation Commission G. Hirschfeld New Morico 011 and Gas Engineering Connittee 23

The Meeting was called to order at 1:30 p.m. by Mr. J. W. Brown, Acting Chairman. Mr. E. G. Minton from Lovington, New Moxico, was guest speaker and spoke on the novement of water in the fresh water sands. Afterwards, the Committee discussed possible means to prevent spread of contamination in the fresh water sands and eliminate the contamination which may have already occurred. No conclusion was reached.

It was agreed that the next meeting of the Committee would be held in the OCC Conference Room in Hobbs, at 9 c.m. July 25, 1957. The meeting was adjourned at A:10 p.m.

J. W. Brown Acting Chairman

Casing Leak Survey Spring 1955 for Hobbin area, Hobles Fool Wells = 293 Bowers Fool Wells = 51 Byers- Julen Mar = 3 Hobbs Drinkard = 1 Temporarily abd = 5 Total Welly = 3.53 Wells not yet tested = 24. Stelley = 2 overleaded John yetes = 3. Sinclair = 1 werloched Pau- American = 18 digging out cellars Wells that were exempted = 16 due to mechanical condition of well is and leaks repaired and cut circulated to swyface, etc. Leaks found = 6 Hazardou situations repaired = 1 - Shell Sarger well had fresh water flowing out of surface x entermediate annulus % wells tested = 353 = 93% % wells ufleaks = 6 = 1.7% all leaks found in west and north west end of fields

#### HORES FIELD TOUR

We will loave the CCC Office at Broadway and Coleman streets and preceed down Broadway east to the first step light (Grimes street). Turn left (north) up Grimes past the second light at Grimes and Sanger, North to the intersection of Grimes and Lovington highway. Turn left on the Lovington highway, go one block and turn left eato the dirt read across the railroad tracks and turn into the Dowell Inc. yard and procoed down along the left (east) side of the buildings.

The water well that supplies Dewell's water is an your left in iown costion. To the east approximately 2000 feet is Hobbs City Water well Mo.13. This City water well is approximately 1770 feet from an oil well to the couth, 2100 feet from the Municipal dump to the Northoact and 1800 feet from the colsest oil well to the Morth. We will attempt to show that gas is in the Dewell well by lighting the gas. If the gas volume is too small to show Possibly we can small; it emitting from the water hydrants.

From Dowell we will pressed woot on dist road to Mr. Ellison's place where we will attempt to show that oil is present in the water woll. Mr. Engbrecht with the COC, will conduct this part of the field brip.

We will then preceed West and then South to Show an open oil pit. This pit is a water and waste oil bush pit.

From hore please follow the 1935 blue and white Chowrolet through the field. Some of the losse reade are ready so please travel slow.

We will point out a large waste (formation) water pit which will be on your right. We will not stop but you will be able to see it as you drive down the read.

Frem here we go to the right (west) of the gecoline plant and proceed around in back (couth side) of the plant to show another large wante water pit. We will step here in order that you may see the gas bubbled rising to the surface. You will note that as each bubble broaks on the surface it leaves a slight trace of pil. To the cast of this spot there is contamination of a private water well. You can't coe it but also to the east the City of Hobbs has an open water water pit.

This concludes the tour and if you will please fellow the blue and white Chevrolet we will return to toura.

The main reason for this tour is to show that there are other things causing contamination of the fresh water besides looks in oil wolls. The degree to which they contaminate the fresh water is of course, impossible to determine.

Thank you for your cooperation.

#### CIL CONSERVATION COMUSSION -

E. J. Fischer . Engineer District I 1 1 2946

# COMMITTEE STUDYING PROTECTION OF HOBBI FRESH WATER SANDS

Pan American Petroleum Corporation

C. L. Kelley, Chairman, Box 699, Roswell, New Maxico

J. W. Brown, Alternate, Box 899, Roswell, New Mexico

Continental Oil Company

R. L. Adams, Momber, 825 Petroleum Building, Roswell, New Mexico P. T. Elliot, Alternate, Box 427, Hobbs, New Mexico

Robbs City Water Board

L. A. Calhoun, Member, Box 456, Hobbs, New Mexico

W. G. Abbot, Alternate, Box 1142, Hobbs, New Mexico

New Mexico Oil Conservation Commission

R. F. Montgomery, Member, Box 2045, Hebbs, New Mexico

E. J. Fischer, Alternate, Box 2045, Hobbs, New Mexico

Samedan 011 Corporation

G. W. Putman, Member, Box 2137, Hobbs, New Mexico

C. E. Layhe, Alternate, Box 2137, Hobbs, New Mexico

Shell Oil Company

W. E. Oven, Hember, Box 1957, Hobbs, New Mexico R. C. Cabaniss, Alternate, Box 1957, Hobbs, New Mexico

State Engineer's Office.

Zane Spiegel, Member, Box 1079, Santa Pe, New Mexico H. L. Borton, Alternate, Bon 810, Roswell, New Mexico

Tidewater Oil Company

H. P. Shackelford, Eember, Box 547, Hobbs, New Mexico

R. N. Miller, Alternate, Box 547, Hobbs, New Maxico

Randy There are (about) 20 wells which have surface casing set short of the Red Beds Hny well with 190' of casing or more is set in to the red Bels. Rule of thumb "eye ball" method 190' is the nearest point between Red. Beds and Surface, Range from Surface's 220' to 190' to T. R.B. J.W.R.

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New Mexico Office of the State Engineer

Page 1 of 1

# New Mexico Office of the State Engineer Water Right Summary

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WELL / SURFACE DATA REPORT 02/28/2005         (acre ft per annum)       (quarters are diversion Owner         233       STK       1.54       BOGLE FARMS       Well Number       (quarters are source are source)         234       STK       1.34       BOGLE FARMS       RA 08233       RA 08234       Source	re: (First) (Last) ´ C Non-Domestic C Domestic Surface Data Report Vater Column Report Vater Column Report	Township:       17S       Range:       29E       Sections:	New Mexico Office of the State Engineer New Mexico Office of the State Engineer Well Reports and Downloads
<b>1=NW 2=NE 3=SW 4=SE)</b> <b>biggest to smallest</b> <b>Tws Rng Sec q q q</b> 17S 29E 22 1 1 17S 29E 32	● All		Page 1 of 1

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2/28/2005



The New Mexico Office of the State Engineer

# WATERS - Purpose of Use Codes (Water Administration Technical Engineering Resource System)

Last Modified: 8/02/2001

	PURPOSE OF USE CODES
<u>Use</u> <u>Code</u>	Description
AGR	AGRICULTURE OTHER THAN IRRIGATION
BPW	BRINE PRODUCTION WELL
COM	COMMERCIAL
CON	CONSTRUCTION
CPS	CATHODIC PROTECTION WELL
DAI	DAIRY OPERATION
DEW	DEWATERING WELL
DOM	72-12-1 DOMESTIC ONE HOUSEHOLD
EXP	EXPLORATION
FCD	FLOOD CONTROL
FGP	FISH AND GAME PROPOGATION
FPO	FEED PEN OPERATION
HWY	HIGHWAY CONSTRUCTION
IND	INDUSTRIAL
INJ	INJECTION
IRR	IRRIGATION
MDW	COMMUNITY TYPE USE - MDWCA, PRIVATE OR COMMERCIAL SUPPLIED
MFG	MANUFACTURING
MIL	MILITARY - MILITARY INSTALLATIONS
MIN	MINING OR MILLING OR OIL
MOB	MOBILE HOME PARKS
MON	MONITORING WELL
MPP	MEAT PACKING PLANT
MUL	72-12-1 MULTIPLE DOMESTIC HOUSEHOLDS
MUN	MUNICIPAL - CITY OR COUNTY SUPPLIED WATER
NON	NON-PROFIT ORGANIZATIONAL USE
NOT	NO USE OF RIGHT OR POD
NRT	NORIGHT
OBS	OBSERVATION
OFM	OIL FIELD MAINTENANCE
OIL	OIL PRODUCTION

POL POLLUTION CONTROL WELL POU POULTRY AND EGG OPERATION PPP PETROLEUM PROCESSING PLANT PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE PUB 2-12-1 CONSTRUCTION OF PUBLIC WORKS REC RECREATION SAN 72-12-1 SANITARY IN CONJUNCTION WITH A COMMERCIAL USE SCHOOL USE - PUBLIC, PRIVATE, PAROCHIAL, & UNIVERSITIES SCH SRO SECONDARY RECOVERY OF OIL STK 72-12-1 LIVESTOCK WATERING STO **STORAGE** SUB **SUBDIVISION** UTL PUBLIC UTILITY



# WATERS - Document Type Codes (Water Administration Technical Engineering Resource System)

Last Modified: 8/02/2001

<u>Document</u> Code	<b>Description</b>	
<u>Coue</u>	Description	
72121	All Applications Under Statute 72-12-1	
ADJ	Adjust Filing Fee / Payment	
ADM	Administrative Permit (Not Published)	
ALTD	App for Alternate POD (Surface)	
APPRO	Application to Appropriate	1 
CLW	Change Location of Well (Ground)	
CLWPL	Change Location of Well & Place of Use (Ground)	
CLWPP	Change Location Well & Place & Purpose of Use (GW)	
CLWPU	Change Location of Well & Purpose of Use (Ground)	1
COMB	App to Combine &/or Comingle Existing Right	
COWNF	Change of Ownership Full	
COWNP	Change of Ownership Partial (split water right)	<b>.</b>
CPD	Change Point of Diversion (Surface)	
CPDPL	Change POD & Place of Use (Surface)	
CPDPP	Change POD & Place &/or Purpose of Use (Surface)	
CPDPU	Change POD & Purpose of Use (Surface)	
CPLA	Change Place of Use (Ground)	
CPLAS	Change Place of Use (Surface)	
CPPSW	Change Place &/or Purpose of Use (Surface)	
CPPU	Change Place & Purpose of Use (Ground)	1
CPUR	Change Purpose of Use (Ground)	
CPURS	Change Purpose of Use (Surface)	
DCL	Declaration of a Water Right	
DED	Dedication	
ENLRG	Application to Enlarge an Existing Right	1
ET	Extension of Time Ground Water	
ETS	Extension of Time Surface Water	
EXPL	Permit To Explore	
FCDAM	Flood Control Dam	· ·
GTSPP	Change POD & Place & Purpose of Use (GW to SW)	

http://www.seo.state.nm.us/water-info/WATERS-doc-type-codes.html

HRG	Hearing Request
LIC	License
NOIAP	Notice of Intention to make Application for Permit
ORDER	Order of District Court
PAY	Payment
PBU	Proof of Benaficial Use Filing
PCW	Proof of Completion of Works Filing
REPAR	Application To Repair Well
RFP	Return Flow Plan
STGPP	Change POD & Place &/or Purpose of Use (SW to GW)
SUPPL	Application for Supplemental Well (Ground)
SWTGW	Change POD (from Surface to Ground)
XPOD	Extra POD(s) in an Application (Surface)
XWELL	Extra Well(s) in an Application (Ground)

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http://www.seo.state.nm.us/water-info/WATERS-doc-type-codes.html

### **Olson, William**

From: Sent: To: Subject: gerard.t.smith@exxonmobil.com Friday, January 18, 2002 2:04 PM wolson@state.nm.us Windmill Oil Work

Bill: This is just a brief note to inform you of ongoing work activities at the Windmill Site - Section 30 - Hobbs. As you know Cliff Brunson was asked to do some initial data collection for the industry work group which was requested to review this issue. I had an opportunity earlier this week to meet with Cliff in Hobbs and review the status of this work. Among other things BBC International is generating a Windmill Oil well map for us as well as maps of all known water wells and oil wells, locating and mapping various oil facilities such as tank batteries and pits, and doing some geochemical speciation work for us. This work should be completed in Feb.and sometime after that we will reconvene the technical work group to review this information and to discuss possible next steps. I will advise you of future progress. In the meantime please feel free to call me with any questions or concerns you might have. Regards,

> Jerry Smith Project Manager ExxonMobil Global Remediation 713-656-9185 (office) 281-381-1593 (cell) 713-656-9191 (fax)

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IMPORTANT MESSAGE FOR \_\_TIME**Z**35 PM DATE sbirne OF PHONE. AREA CODE NUMBER EXTENSION **D** FAX O MOBILE\_ AREA CODE NUMBER TIME TO CALL TELEPHONED PLEASE CALL CAME TO SEE YOU WILL CALL AGAIN WANTS TO SEE YOU BUSH SPECIAL ATTENTION RETURNED YOUR CALL 4mmers MESSAGE 803 SIGNED Di FORM 3002P LITHO IN U.S.A.

**IMPORTANT MESSAGE** FOR DATE OF PHONE ABEA CODE NUMBER EXTENSION **D** FAX D MOBILE. AREA CODE NUMBER TIME TO CALL PLEASE CALL TELEPHONED WILL CALL AGAIN CAME TO SEE YOU WANTS TO SEE YOU RUSH Ann SPECIAL ATTENTION RETURNED YOUR CALL MESSAGE UN DO SIGNED 5.4 crey FORM 300

**IMPORTANT MESSAGE** FOR DL P.M. DATE OF PHONE ABEA CODE NUMBER EXTENSION D FAX NUMBER TIME TO CALL PLEASE CALL TELEPHONED WILL CALL AGAIN CAME TO SEE YOU WANTS TO SEE YOU RUSH RETURNED YOUR CALL SPECIAL ATTENTION MESSAGE SIGNED FORM 3002P

IMPORTANT MESSAGE FOR DATE OF 76 PHONE \_ AREA CO NUMBER EXTENSION **D** FAX NUMBER TIME TO CALL TELEPHONED PLEASE CALL CAME TO SEE YOU WILL CALL AGAIN WANTS TO SEE YOU RUSH RETURNED YOUR CALL SPECIAL ATTENTION MESSAGE SIGNED FORM 3002P

State of New Mexico ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT Santa Fe, New Mexico 87505 MEMORANDUM OF MEETING OR CONVERSATION 9/19/ Time Date 01 0945 Personal Originating Party Other Parties Bill Envir BLICEAL. 23 705  $\mathcal{O}\mathcal{O}$ ce Subject lesidon ea Discussion he 2 nen R ø imp '0h 77 130 scien \$ m Ol An 70 r exess Cl SIN 14 X adottiona lains (LCO Minies see Conclusions or Agreements te hmpins sawne n c  $\mathbf{v}$ me an Distribution Signed ... file NMOCD Hobbs

IMPORTANT MESSAGE FOR DATE M ΩF PHONE AREA COL EXT NUMBER **D** FAX D MOBILE\_ AREA CODE NUMBER TIME TO CALL TELEPHONED PLEASE CALL CAME TO SEE YOU WILL CALL AGAIN WANTS TO SEE YOU RUSH RETURNED YOUR CALL SPECIAL ATTENTION MESSAGE - Ce SIGNED FORM 3002P LITHO IN U.S.A.

IMPORTANT MESSAGE FOR TIME 11:46 A.M. DATE M OF PHONE AREA CO NUMBER FΧ D FAX D MOBILE. AREA CODE NUMBER TIME TO PLEASE CALL TELEPHONED CAME TO SEE YOU WILL CALL AGAIN WANTS TO SEE YOU RUSH RETURNED YOUR CALL SPECIAL ATTENTION MESSAGE SIGNED

FORM 3002P LITHO IN U.S.A.

### Olson, William

From:	Sheeley, Paul
From: Sent:	Friday, June 15, 2001 9:59 AM
To:	Olson, William
To: Cc:	Williams, Chris
Subject:	King water well, Eades Drilling-BTEX

Mr. Eades faxed	the following BTEX results:	[mg/L]	[WQCC][EPA Drink.H20]		
TPH=3.8	7 Benzene	0.009	0.01	0.005	
	Toluene	0.054	0.75	1	
	Etbenzene	0.121	0.75	0.7	
	Totxylenes	0.649	0.62	10	

He has a pump and can purge at a decent flowrate.

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I can ask him to do so, wait for it to recharge for about an hour and then bail some samples which may come back a little higher. These really don't look all that bad compared to Hobbs city... Whadyathink? PS

### Olson, William

From:	Sheeley, Paul
Sent:	Wednesday, June 13, 2001 3:45 PM
To:	Olson, William
Cc:	Williams, Chris
From: Sent: To: Cc: Subject:	King water well, west Hobbs

### Hi Bill,

Alan Eades of Eades Drilling called us this morning about a water well he was drilling for a Mr. & Mrs. Neal King off of Mayhan Road...(here just about 0.4 mi. west of Hobbs). They quit when oil apparently started coming in their fluid. They took some samples, (to Cardinal), for TPH and BTEX and called us. I went to the location and met with Mr. Eades, his crew and Mr. King and took these photos. I allowed them to backfill their pit and secure the hole, for now. Let me know what you want to do. They are waiting to hear from us as a courtesy; in case we want to sample...

Thanks, PS







king8.jpg















Olson, William From: Sheeley, Paul Sent: Thursday, June 14, 2001 11:27 AM To: Olson, William King well, TPH Subject:

9. A.A.

Alan Eades called and reported: TPH=3.87mg/L They don't have the BTEX results yet. PS

SEP-25-02 07:28 From:8152219

15053939758

T-774 P.01/02 Job-401



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Betty Rivera Cabinet Secretary		Lori Wrotenbery Director Oil Conservation Division
FAX		
TO:	Bill Olson	
FROM:	Paul Sheeley	
	Energy Minerals and Natural Resources Department, Oil Conservation Division	·
RE:	King Well - color cut	8-30-01
DATE:	9-25-02	
	Hi Bill,	
	Have is the color out det	ta where
	un measured 7'11" oi	I an top
	of the ground water is a	mell Ende
	dvilled. Please call me	to discuss
	All numbers.	
	Tenhles Paul	
	Pages (Including Transmittal)	

Oil Conservation Division \* 1625 French Drive \* Hobbs, New Mexico 88240 Phone: (505) 393-6161 \* Fax (505) 393-0720 \* http://www.emnrd.state.nm.us

15053939758 P.02/02 Job-401 T-774 SEP-25-02 07:28 From: 8152219 Kull whe - 365 8876 - 100 Clay Content to see y 205 366 4-5 Gil Mulleredon (915) 638-3106 400 501 - 6 mins 32 das IV Bronding 54.9 ho 99.0 KING ULCH Cuntury Burdeel 3972942 0 B 8.30-01 9,99 KEMMONDE - Kenser & Co-(505) 365 88 76 April Lealh Part Ne Custand 24" BUNNING LEW 15 477 Property 20 N.M. 290 Dawed He. 15 33 think time to love the go last Nul Ellick - Genera of yourdserface John Erikton CA, 2932174 ULTE 542 3 1225 Oll walk the go icontro COTI Blat #. . . 

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5/10/01 Daven Meeting Cashy orval 13part . Č ts H . els F-3 esting - OCC Bro Records Ser 30 x -

5/25/01 OCC Hewing Jorte Groups - Part Percode - Merathan (Committee Chair) - suidelines 1 ou ASTM, NMUST Wint R.L. - How betermine & saturation for source 2CA - OCD will have public meetings in the bis, Artesik, Arter Work Group - Frank Gray - Taxaco (Committe Chair) 5/25/01 Sea Work Grup Sumarry tite stundards - MT, Write Issue Group lookin

01 139 milmi see atter ees 000 éry xon Hesi N Texheo Tutro Ross · . . Veede Source threats to Azree mant 

Form 9-331a (Feb., 1925)

## DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

U.S. Land Office JJ2 5 J100

Serial Number

# SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT RECORD OF SHOOTING	
NOTICE OF INTENTION TO CHANGE PLANS	 RECORD OF PERFORATING CASING	
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF.	 NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF	 NOTICE OF INTENTION TO ABANDON WELL	( <b>A</b> )
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	 SUBSEQUENT REPORT OF ABANDONMENT	(h
NOTICE OF INTENTION TO SHOGT	 SUPPLEMENTARY WELL HISTORY	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Movamey, Wexas. Lay 12, 1950 , 192

Following is a notice of intention to do work on land under {permit lease described as follows:

The elevation of the detrick floor above sea level is ...... ft.

### DETAILS OF PLAN OF WORK

(Statemanes of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

Hole mudded from bottom (106') to 66' and cemented from 66' to bottom of cellar with 25 states comment. Cellar Filled up and cemented with 18 states cement. One 10' joint of 9 5/8" casing set 5' in concrete, 5' protructing for permanent menument or marker. Condition around monument good.

Approved May 15, 1930 NOT E. R. Henson

Title <u>The Deputy Supervisor</u> CEOLOGICAL SURVEY

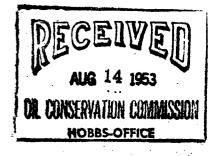
Address <u>Koswell</u>, <u>Kowell</u>, <u>Kowel</u>

Company Humble oil & werg. Co. By Humble oil & werg. Co. Title Division Sup't. Address McComey, Tuxas.

# HUMBLE OIL & REFINING COMPANY

HOUSTON 1, TEXAS P. O. Box 1600

August 12, 1953



New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Attention: Mr. R. A. Spurrier Secretary & Director

### Gentlemen:

-238 D50527 (3-53)

On August 2, 1953, we discovered a leak in the cellar of Federal-Bowers "A" No. 2 located on our Federal Bowers lease in the Hobbs Field, Lea County, New Mexico. Flow into the cellar was estimated at one barrel per hour. The cellar was dug out and the annulus between 12-1/2-inch and 9-5/8-inch casing was found to be flowing oil through a 1/2-inch valve on the 12-1/2-inch bradenhead. Flow was estimated at 2.5 barrels per hour.

Federal Bowers A-2 was originally completed in September, 1930, in open hole from the 7-inch casing set at 3960 feet to 4213 feet. The well was re-entered in September, 1947, and holes were located in the 7-inch oil string at 490 and 875 feet. These holes were repaired by perforating the 7-inch oil string at 1500 feet and circulating cement to the surface between the 7-inch and 9-5/8-inch casing. The hole was deepened to 4238 feet and a string of 5-1/2-inch casing was run inside the 7-inch casing set on bottom and cemented with 30 sacks. The 5-1/2-inch casing was perforated from 4010 to 4205 feet. A Baker production packer was set at 3940 feet and the well returned to production. A well completion diagram is attached.

After the cellar was cleaned out, the 5-1/2-inch oil string was tested with 1000 pounds pressure and found to hold pressure satisfactorily. A similar test was also made on the annulus between the 5-1/2-inch and 7-inch casing. This annular space was tested with 1000 pounds and was found to hold pressure satisfactorily.

# HUMBLE OIL & REFINING COMPANY

HOUSTON 1. TEXAS

On August 5, 1953, a total of 1685 barrels of water was pumped into the producing interval from 4010 to 4205 feet. Injection pressures ranged from 900 to 1600 pounds. The flow on the 1/2-inch valve on the 12-1/2-inch bradenhead had increased to 15.5 barrels of eil per hour. On August 6 after pumping an additional 455 barrels of water into the producing interval, the Baker production packer at 3940 feet was drilled out and a retainer set at 4000 feet. The 5-1/2-inch oil string was perforated at 3976 feet with four shots and a Baker P & T tool was set at 3916 feet. A total of 300 barrels of water was pumped through the perforations at 3976 feet in ten hours. The average injection pressure was 2100 pounds. A temperature survey, Belta log and potential survey were run. A bridge plug was set at 3795 feet and the 5-1/2-inch casing perforated from 3677 to 3678 feet with four shots. A total of 900 barrels of water was injected through perforations from 3677 to 3678 feet. Injection rates ranged from 16 to 60 barrels per hour and injection pressures from 2700 to 3800 pounds. As of August 8, 1953, the oil flow on the bradenhead had increased to 18.5 barrels per hour.

The results of these tests indicate that the oil flow on the 12-1/2-inch bradenhead of Humble Federal Bowers A-2 is not the direct result of a casing leak in Bowers A-2. Humble is now in the process of conducting temperature surveys in its other wells in the area in an effort to locate any possible casing leaks which might serve as a source for the oil flow noted in the bradenhead at Federal Bowers A-2. The characteristics of the oil being produced from the 12-1/2-inch bradenhead at Bowers A-2 indicate that the San Andres is the source of this oil. Humble has contacted offset operators and advised them of the situation at Bowers A-2.

We request that we be issued such tenders as are necessary, covering the oil produced from the bradenhead on this well during the period that it continues to flow; in the meanwhile, Humble will continue diligently its efforts to locate and control the source of the oil now being produced from the 12-1/2-inch bradenhead of the Federal Bowers A-2 well.

Yours very truly,

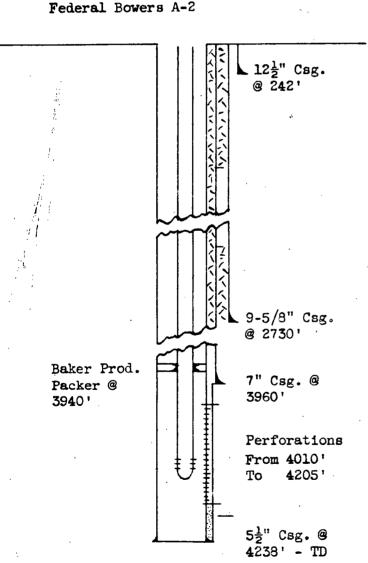
HUMBLE OIL & REFINING COMPANY

J. W. House

DES:WDM:1s cc: Mr. A. L. Porter P. O. Box 2045 Hobbs, New Mexico

A-238 D50527 (3-53)

Mr. R. S. Dewey-Bldg. Mr. M. M. Rogers-Hobbs



# Well Completion Diagram Federal Bowers A-2

# HUMBLE OIL & REFINING COMPANY

Houston 1, Texas P. O. Box 1600

August 12, 1953



New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Attention: Mr. R. A. Spurrier Secretary & Director

### Gentlemen:

On August 2, 1953, we discovered a leak in the cellar of Federal-Bowers "A" No. 2 located on our Federal Bowers lease in the Hobbs Field, Lea County, New Mexico. Flow into the cellar was estimated at one barrel per hour. The cellar was dug out and the annulus between 12-1/2-inch and 9-5/8-inch casing was found to be flowing oil through a 1/2-inch valve on the 12-1/2-inch bradenhead. Flow was estimated at 2.5 barrels per hour.

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# HUMBLE OIL & REFINING COMPANY

HOUSTON 1, TEXAS

On August 5, 1953, a total of 1685 barrels of water was pumped into the producing interval from 4010 to 4205 feet. Injection pressures ranged from 900 to 1600 pounds. The flow on the 1/2-inch valve on the 12-1/2-inch bradenhead had increased to 15.5 barrels of eil per hour. On August 6 after pumping an additional 455 barrels of water into the producing interval, the Baker production packer at 3940 feet was drilled out and a retainer set at 4000 feet. The 5-1/2-inch eil string was perforated at 3976 feet with four shots and a Baker P & T tool was set at 3916 feet. A total of 300 barrels of water was pumped through the perforations at 3976 feet in ten hours. The average injection pressure was 2100 pounds. A temperature survey, Belta log and potential survey were run. A bridge plug was set at 3795 feet and the 5-1/2-inch casing perforated from 3677 to 3678 feet with four shots. A total of 900 barrels of water was injected through perforations from 3677 to 3678 feet. Injection rates ranged from 16 to 60 barrels per hour and injection pressures from 2700 to 3800 pounds. As of August 8, 1953, the eil flow on the bradenhead had increased to 18.5 barrels per hour.

The results of these tests indicate that the oil flow on the 12-1/2-inch bradenhead of Humble Federal Bowers A-2 is not the direct result of a casing leak in Bowers A-2. Humble is now in the process of conducting temperature surveys in its other wells in the area in an effort to locate any possible casing leaks which might serve as a source for the eil flow noted in the bradenhead at Federal Bowers A-2. The characteristics of the oil being produced from the 12-1/2-inch bradenhead at Bowers A-2 indicate that the San Andres is the source of this oil. Humble has contacted offset operators and advised them of the situation at Bowers A-2.

We request that we be issued such tenders as are necessary, covering the oil produced from the bradenhead on this well during the period that it continues to flow; in the meanwhile, Humble will continue diligently its efforts to locate and control the source of the oil now being produced from the 12-1/2-inch bradenhead of the Federal Bowers A-2 well.

Yours very truly,

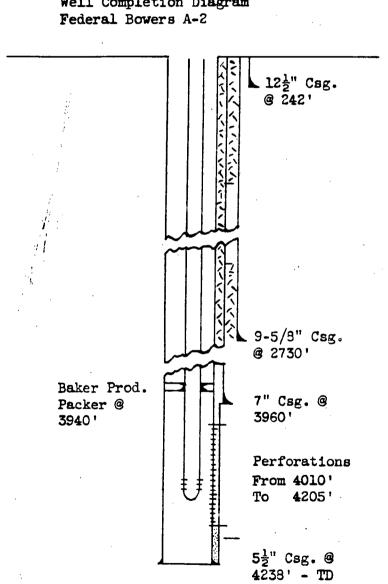
HUMBLE OIL & REFINING COMPANY

J. W. House

DES:WDM:1s cc: Mr. A. L. Porter P. O. Box 2045 Hobbs, New Mexico

A-238 D50527 (3-53)

Mr. R. S. Dewey-Bldg. Mr. M. M. Rogers-Hobbs



Well Completion Diagram Federal Bowers A-2

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WINDMILL Mactine 5 30/01 1 Michtel J. Mitzone, BP, Amaption, DXY, MARATHEN 2 Cliff P. BRUNSON, BBC Intl., 505-397-6388 3 Stephen Ross, NMOCD 4 Lynn Bortka bp: 5 Roger Auberson NMOCD 6 David Brooks NMOCD 7/ardyn Tillman Oxy Kermian & Sam Small Amerada 9 Mehrin Hawkins Ory Services 10 Michael Control Exxon Mobil Corp 713-656-1628 11 JERRY SMITH Exxon Mobil 713-656-9185 11. DAVIS BONE BP 303-830-3255 157 281-366-5790 13 Bab Hill 14 YURT KRITER AMERICAHES 713-609-4200 13 Dennis Smith Amerada Hess 713-609-4457 16 Jerry Guthrie Marathon O.L 915-687-8128 17 Tom LOWERD Moral AUD - 437 2170 18 Robert Patterson Texaco 915-688-4836 19 Marte D. Lightstones Miller, stratvert, (Texaco) 505 842-4704 20 Bill Olson NMOCD (505) 476-3491 21 John Eldowige Haynes al Boone 713 547-2229

R. W. Byram & Co., - Oct., 1969

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#### OGALLALA FORMATION Lea County, New Mexico

Order No. R-3288, Adopting Operating Rules for the Production of Oil from the Ogallala Formation, Lea County, New Mexico, August 1, 1967.

Application of Charles E. Seed for Four Ogailala Oil Proration Units and Special Rules, Lea County, New Mexico.

> CASE NO. 3628 Order No. R-3288

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on July 26, 1967, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 1st day of August, 1967, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That the applicant, Charles E. Seed, seeks authority to develop each of the quarter-quarter sections comprising the SW/4 of Section 30, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, for the production of oil from the Ogailala formation to a maximum density of one well per 0.625-acre tract with no well being nearer than 82.5 feet to the outer boundary of a 40-acre unit and no nearer than 165 feet to another oil well producing from the Ogailala formation, provided that an exception should be made for existing wells located on the aforesaid tracts which are not located in conformance with said spacing rules.

(3) That the applicant also seeks a temporary exception to Rule 307 of the Commission Rules and Regulations for each well to be drilled on the aforesaid quarter-quarter sections to the Ogaliala formation in order to permit the utilization of a vacuum-type drilling unit during the drilling and completion of said wells.

(4) That the applicant further seeks authority to produce all wells, authorized by this order, on each 40-acreumit at capacity even though the aggregate production from said wells exceeds the 40-acre normal unit allowable.

(5) That the Ogallala formation is the major source of fresh water in the Lea County Underground Water Basin as declared by the State Engineer.

(6) That the oil existing in the Ogallala formation is not the result of a natural accumulation of oil and, therefore, does not constitute an oil pool as commonly understood in the oil and gas business. (7) That the presence of oil in the Ogallala formation constitutes a hazard to the fresh water supplies therein,

(8) That said oil should be removed from the Ogallala formation, a fresh water aquifer, as quickly and efficiently as possible.

(9) That the utilization as proposed by the applicant of a vacuum-type drilling unit during the drilling and completion of said wells will not damage any stratum containing oil or gas.

(10) That in order to facilitate the removal of oil, an adulterous substance when present in the Ogallala formation, from said aquifer, the applicant should be authorized to develop the aforesaid quarter-quarter sections for the production of oil from the Ogallala formation to the density requested by the applicant, to utilize a vacuum-type drilling unit during drilling and completion of said wells, and to produce said wells at capacity.

(11) That the applicant, Charles E. Seed, is the owner of four "water" wells located in the aforesaid quarter section and drilled under authority granted by the State Engineer.

(12) That said four "water" wells are capable of and are producing oil from the Ogailala formation.

(13) That upon expiration of the water well permits authorizing the aforesaid four "water" wells, said wells should be classified as oil wells,

IT IS THEREFORE ORDERED:

(1) That the applicant, Charles E. Seed, is hereby authorized to develop each of the quarter-quarter sections comprising the SW/4 of Section 30, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, to a maximum density of one well per 0.625-acre tract for the purpose of removing oil from the Ogaliala formation, a fresh water aquifer.

PROVIDED HOWEVER, that no well shall be drilled nearer than 8.5 feet to the outer boundary of a 40-acre tract and no nearer than 165 feet to another oil well located on said tract.

(2) That the locations of the four "water" wells presently completed in and producing oil from the Ogaliala formation are hereby approved as oil wells, effective upon the termination of the water well permits authorizing said wells; that the operator of the four "water" wells shall notify the Hobbs District Office of the Commission in writing of the name and location of said four wells upon expiration of the water well permits and shall also file with said office Forms C-101 and C-102 in accordance with Rules 1101 and 1102 of the Commission Rules and Regulations.

(3) That the applicant is hereby authorized, as an exception to Rule 307 of the Commission Rules and Regulations, to utilize a vacuum-type drilling unit during the drilling and completion of each of the oil wells authorized by Order No. (1) of this order.

(4) That the applicant is hereby authorized to produce each of the wells authorized by this order at maximum capacity until further order of the Commission.

(5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

#### R. W. Byram & Co., - Feb., 1975

#### (SLICK ROCK-DAKOTA POOL - Cont'd.)

from the same pool; provided, however, that in no event shall said well or wells be completed or recompleted nearer than 165 feet to the boundary of acreage owned by an offset operator.

RULE 3. The Secretary-Director of the Commission shall have authority to grant exceptions to Rule 2 without notice and hearing where an application therefor has been filed in due form and the necessity for the exception is based on topographical conditions.

All operators owning acreage within 330 feet of the proposed location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all operators owning acreage within 330 feet of the proposed location or if no such operator has entered an objection to the unorthodox location within 20 days after the Secretary-Director has received the application.

RULE 4. A 40-acre proration unit shall not produce in excess of the 40-acre top unit allowable for wells in the 0-5000 foot depth range in Northwest New Mexico, regardless of the number of wells on the unit.

#### IT IS FURTHER ORDERED:

(1) That the locations of all wells presently drilling to or completed in the Slick Rock-Dakota Oil Pool or in the Dakota formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Aztec District Office of the Commission in writing of the name and location of the well on or before June 15, 1967.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

#### OGALLALA FORMATION Lea County, New Mexico

Order No. R-3261, Adopting Operating Rules for the Production of Oil from the Ogallala Formation, Lea County, New Mexico, June 16, 1967.

Application of Amerada Petroleum Corporation for an Ogallala Oil Proration Unit, Special Rules for Said Unit and Authority for Fresh Water Disposal, Lea County, New Mexico.

> CASE NO. 3594 Order No. R-3261

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on June 6, 1967, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter. NOW, on this 16th day of June, 1967, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That the applicant, Amerada Petroleum Corporation, seeks authority to develop the SE/4 NW/4 of Section 30, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, for the production of oil from the Ogallala formation to a maximum density of one well per 0.625-acre tract with no well being nearer than 82.5 feet to the outer boundary of the unit and no nearer than 165 feet to another oil well producing from the Ogallala formation, provided that an exception should be made for existing wells located on the aforesaid tract which are not located in conformance with said spacing rules.

(3) That the applicant also seeks a temporary exception to Rule 307 of the Commission Rules and Regulations for each well to be drilled on the aforesaid quarter-quarter section to the Ogallala formation in order to permit the utilization of a vacuum-type drilling unit during the drilling and completion of said wells.

(4) That the applicant further seeks authority to produce all wells authorized by this order at capacity even though the aggregate production from said wells exceeds the 40-acre normal unit allowable.

(5) That the Ogallala formation is the major source of fresh water in the Lea County Underground Water Basin as declared by the State Engineer.

(6) That the oil existing in the Ogallala formation is not the result of a natural accumulation of oil and, therefore, does not constitute an oil pool as commonly understood in the oil and gas business.

(7) That the presence of oil in the Ogallala formation constitutes a hazard to the fresh water supplies therein.

(8) That said oil should be removed from the Ogallala formation, a fresh water aquifer, as quickly and efficiently as possible.

(9) That the utilization as proposed by the applicant of a vacuum-type drilling unit during the drilling and completion of said wells will not damage any stratum containing oil or gas.

(10) That in order to facilitate the removal of oil, an adulterous substance when present in the Ogallala formation, from said aquifer, the applicant should be authorized to develop the aforesaid quarter-quarter section for the production of oil from the Ogallala formation to the density requested by the applicant, to utilize a vacuum-type drilling unit during drilling and completion of said wells, and to produce said wells at capacity.

(11) That the applicant, Amerada Petroleum Corporation, is the owner of two "water" wells located in the aforesaid quarterquarter section and drilled under authority granted by the State Engineer.

(12) That said two "water" wells are capable of and are producing oil from the Ogallala formation.

(13) That upon expiration of the water well permits authorizing the aforesaid two "water" wells, said wells should be classified as oil wells.

#### Page 280 New Mexico

#### (OGALLALA FORMATION - Cont'd.)

(14) That applicant's request for authority to dispose of fresh water produced with the oil back into the Ogallala formation was dismissed, at the request of the applicant, without prejudice to the right of the applicant to utilize surface pits for the disposal of water to be produced with oil produced from the Ogallala formation.

#### IT IS THEREFORE ORDERED:

(1) That the applicant, Amerada Petroleum Corporation, is hereby authorized to develop the SE/4NW/4 of Section 30, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, to a maximum density of one well per 0.625-acre tract for the purpose of removing oil from the Ogallala formation, a fresh water aquifer;

PROVIDED, HOWEVER, that no well shall be drilled nearer than 82.5 feet to the outer boundary of said tract and no nearer than 165 feet to another oil well located on said tract.

That the locations of the two "water" wells presently completed in and producing oil from the Ogallala formation are hereby approved as oil wells, effective upon the termination of the water well permits authorizing said wells; that the operator of the two "water" wells shall notify the Hobbs District Office of the Commission in writing of the name and location of said two wells upon expiration of the water well permits and shall also file with said office Forms C-101 and C-102 in accordance with Rules 1101 and 1102 of the Commission Rules and Regulations.

That the applicant is hereby authorized, as an exception to Rule 307 of the Commission Rules and Regulations, to utilize a vacuum-type drilling unit during the drilling and completion of each of the oil wells authorized by Order No. (1) of this order.

(4) That the applicant is hereby authorized to produce each of the wells authorized by this order at maximum capacity until further order of the Commission.

(5) That jurisdication of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

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R. W. Byram & Co., - Feb., 1975

#### CARLSBAD PERMO-PENNSYLVANIAN GAS POOL Eddy County, New Mexico

Order No. R-3282-A, Rescinding the Temporary Operating Rules Adopted for the Carlsbad Permo-Pennsylvanian Gas Pool, Eddy County, New Mexico, October 1, 1974.

In the Matter of Case 3608 Being Reopened Pursuant to the Provisions of Order No. R-3282, Which Order Established Temporary Rules for the Carlsbad Permo-Penn Gas Pool, Eddy County, New Mexico, Including a Pro-vision for 640-Acre Spacing.

> **CASE NO. 3608** Order No. R-3282-A

> > 1.3152

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on July 10, 1974, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 30th day of July, 1974, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS

SECTION II

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

(2) That by Order No. R-3282, dated July 27, 1967, temporary rules were promulgated for the Carlsbad Permo-Penn Gas Pool, Eddy County, New Mexico, establishing temporary 640-acre spacing units.

(3) That pursuant to the provisions of Order No. R-3282, this case was reopened to allow the operators in the subject pool to appear and show cause why the Carlsbad Permo-Penn Gas Pool should not be developed on 320-acre spacing units.

(4) That no cause was shown why said pool should not be developed on 320-acre spacing.

That in order to prevent reduced recovery which might (5) result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, the temporary rules promulgated by Order No. R-3282 should be rescinded and the pool should be governed by the Statewide Rules for gas pools of Pennsylvanian age or older, effective October 1, 1974.

#### IT IS THEREFORE ORDERED:

(1) That the Temporary Rules governing the Carlsbad Permo-Penn Gas Pool, Eddy County, New Mexico, promulgated by Order No. R-3282, are hereby rescinded, effective October 1, 1974.

(2) That after October 1, 1974, the Permo-Penn Gas Pool shall be governed by the Statewide Rules for gas pools of Pennsylvanian age or older.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein--i : 1 above designated. · 194 / 201.1. C .\* .

# OIL CONSERVATION COMMISSION HOBBS, NEW MEXICO

## Jane 20, 1960

Mr. A. L. Porter, Jr., Secretary-Director Oil Conservation Commission Post Office Box 871 Santa Fe, New Mexico

#### Subject: Hobbs Area Annual Witnessed Casing Leak Surveys for 1959 and 1960

Dear Mr. Porters

In accordance with Memorandum No. 33-57, Commission witnessed casing leak surveys were conducted in the Hobbs, Bowers, Byers-Queen Gas, and Hobbs-Drinkard Pools during the second quarters of 1959 and 1960.

Throughout the witnessed survey in 1959, no leaks were discovered.

During the 1960 test period, a total of two leaks were found. Both of these leaks were in the Bradenhead connections and were repaired immediately upon discovery. The method used in repairing these leaks was to replace the packing element in each well. Total expenses for repairing these two wells amounted to \$1,902.13.

In view of the favorable findings during Commission witnessed surveys, it is our recommendation that they be continued.

Tours very truly,

OIL CONSERVATION COPPLISSION

Lealie A. Clements Oil and Gas Inspector

LACing Copies to J. D. Baney E. F. Engbrecht

# OIL CONSERVATION COMMISSION

HOBBS, NEW MEXICO Normal Annal Andrew Sectors

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Anthrop, that he wash thillens in this same and this sector on all Shell Oil Congeny Post Office Box 845 Roswell, New Mexico

the set the set the set of the se No. And Bubject: Annual Gasing Leak Survey Hobbs Area - April 6-7, 1960

#### Gentlemeni

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During the Annual Witnessed Casing Leak Survey in the Hobbs Pool, the following wells showed noticeable leaks at wellhead flanges:

Berry No. 4	Unit (	0 Section	31-7185-838E
McRinley "A" No. 2	Unit (	0 Section	19-T163-838E
McKinley "A" No. 4	Unit I	Section	19-1185-R38E
McKinley #A# No. 5	Unit .		19-7183-R38E
McKinley "A" No. 5	Unit 1		19-T185-R38E
Bice No. 1	Unit I		13-T183-8398
State "A" No. 4	Unit		32-F183-R385

The above wells are in violation of Rule 3, paragraph (b) SMOCC RULES AND RECULATIONS, and these wellhead flanges should be tightened to stop all leaks.

Also, it was found that the wells listed below did not haves risers or connections from the annular space between the surface string and the intermediate string, nor were Form C-102 or Form C-103 (Options 1 and 2) filed with the Commission to indicate that the annular space had been comented. Therefore, these wells cannot be exempted from this survey unless cementing has been performed and the appropriate form filed with the Commission.

Berry No. 3	Unit I	Section 31-TLAS-R38E
McKinley "A" No. 2	Unit O	Section 19-TL83-R38E
McKinley "A" No. 4	Unit N	Section 19-7185-8393
McKinley "A" No. 8	Unit I	Section 19-7185-8388

# DIL CONSISTATION COMMERCION

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Shell Gil Company Sabject: Annual Casing Leak Survey

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McKinley "P" So	. 4 Unit L	Section	19-1185-1392	
Benger No. 3	Unit L		27-7169-8388	11.1 12.1
Grines No. 2 Rice No. 2	Unit L Unit O		28-7169-839E	
Rice No. 3	Unit I		13-1185-8378 13-1188-8378	
State "A" Bo. 3 State "A" Ho. 4	Unit G Unit H	Section	12-1188-2365	
State "P" No. 1	Unde-A	20, Mailion	2-1163-R361	·····.
State "B" No. 2 State "D" No. 1	Unit C	Section :	3-7165-8385	د بود. برسه، بر بود
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Purther, due to most cellars having whate oil and water on ell commetione. It was impossible to be sure from which string the existing floors or lemated. Boswall, May Sexist 

Retest dates are tentatively set up for May Madd, Open to the point out that failure to comply with these miguinements, with these miguinements, with result in cancellation of allowables for walls involved.

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# Yours very truly,

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During the Annual Mitnessed Grains Losid Morroy in the Hobbs Peal, the following wells should a Pro-Generation Continued Clanges:

	Berry No. 4			Section	1-P183-R915
	McLinler 46"			Section	19-11-09-11-18-1 19-11-09-11-09-1
				NEW CLICS	19-1139-2353 19-7169-2362
	Schinley "A"			Rent form	
E	Elco So. 1	iiterit - St	Unit P	- Rostino	13-1145-1393
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The space wells are in violation of Bala 1, paragraph (b) TRUCE MILES AND RECALLATIONS, and these wallhoud flanges should be ..... Lightened to elop all leaks.

aloo, it was bound that the walls linked balow did not haves closes or connections from the smaller speen between the surface string and the intermediate string, nor sere form 5-102 or form 5-103 (Options 1 and 2) filed with the Completion to indicate that the entries space bad been desented. Merefore, these wolls many be excepted from this survey unlass executing has been performed and the sprearface man filed with the Samission.

Barry No.	3	•		<del>.</del> .	Unit	T	Section	<u>n_nes-a</u>
McCinley		ю.	2	÷	Juit	5	Section	19-1153-8392
Feller					Taic	<b>N</b>		19-1198-8793
Wekinley					Dait	1 -	Section.	19-T189-R78E

# NEW MEXICO OIL CONSERVATION COMMISSION

P. O. BOX 2045 HOBBS, NEW MEXICO

To: All operators in the Hobbs, Bowers, Byers Queen Gas and Hobbs Drinkard Pools.

In accordance with the memorandum issued by the District Engineer pertaining to casing pressure tests in the above-named pools, the following wells will be readied for an annual inspection in the manner and on the date as herein outlined.

- 1. All wells must be shut in 24 hours before inspection will be witnessed
- 2. All cellars will be dug in a manner to expose the outlets of all bradenheads from the first string of pipe cemented in the well and to expose all subsequent heads to and including the tubing head, unless a C-103 has been filed, indicating satisfactory connections below the ground level and with proper identification above ground level.

3. One opening from all bradenheads will be connected above the surface of the ground with a second valve. The second valve must be closed in compliance with paragraph number one.

- 4. The operator must furnish connections and personnel who will assist in the opening of valves. Pressure gauges to record pressures should also be furnished, if possible.
- 5. The Proration Manager will be notified of a well that has failed to meet the requirement of preparation as outlined on the date-time schedule, and such well will be immediately removed from the proration schedule. The loss of allowable will begin from the date of the bradenhead inspection of the well.
- 6. If, due to unusual mechanical difficulties or workover operations, a particular well cannot be made ready at the time set forth on the schedule, its test date may be delayed after inspection of the conditions by the Commission representative. The Commission should be notified at least 48 hours prior to test time for well or wells that require such delays.
- 7. The Commission expects company personnel to be present at the meeting place on the date and time indicated on the attached schedule. If for any reason the operator or his representative cannot be present, the \_\_\_\_\_\_ Commission must be notified in advance.

In every case, the Commission representative will meet the company personnel at the place and time shown on the schedule and proceed to all listed wells in logical order.

8. For further information or questions, please contact Eric Engbrecht, Express 3-6161, Hobbs, New Mexico.

Following is a tabulation of the time-date schedule of the wells to be tested in the annual witnessed survey.

# SCHEDULE FOR HOBBS AREA

Date-April 1, 1958

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Hardin B	4-N	18-18-36
McKinley	1-D	30-18-38
11	2-F	
n	3-C	
11	4 <b>-</b> E	11
Ħ	5-F	10 Andrew A
11	6 <b>-</b> 0	Maria and a second s
State A	<b>1-</b> B	32-18-38
12	2 <b>-</b> A	
11	3-В	32-18-38 (Status)
State B	l-F	29-18-38
11	2 <b>-</b> G	
11	3B	
ŧt	4-C	N A A A A A A A A A A A A A A A A A A A
13	5-G	N
11 .	6 <b>-</b> F	N
State C	l-A	36-18-37
11	2-н	N
11	<b>3-</b> G	N
State E	1-C	24-18-37
11	2-C	1
State WH "B"	1-0	14-18-37

Date-April 2, 1958

Operator-<u>Tidewater & Getty Oil Co</u>.-Meet at Tidewater Camp at Hobbs at 7:30 A.M. 15 wells

<u> </u>	_	· · ·	
Grimes	1 <b>-</b> I	29-18-38	
17	3-I	12	
13	<b>4-</b> H	11	
Hardin	1-G	19-18-38	
11	2-H	11	·
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11	<b>3-</b> B	17	· · · · · · · · · · · · · · · · · · ·
	<b>4-</b> A	11	
McKinley	<b>1-</b> G	30-18-38	
11	2-н		
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11	5 <b>-</b> A	"	
	6 <b>-</b> G	11 .	
11	7 <b>-</b> B	11	
State B	1-H	14-18-37	

# Date-April 3, 1958

		32 wells
Grimes	1-0	28-18-38
11	2 <b>-</b> P	N
1	3 <b>-</b> J	M
11 .	4 <b>-</b> I	n
1	5-0	" (Status)
11 · · ·	6-к	" (Status)
State A-5	<b>1–</b> J	5-19-38
1	2-0	n l
State A-29	<b>1–</b> J	29-19-38
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1	6-C	n
	0-0 1-0	
State B-25		25-18-37
lt.	<b>2-</b> D	11

ورادي معه

## Date-April 7, 1958

Operator-<u>SHELL OIL COMPANY</u>-Meet at McKinley A #1-M, 19-18-38 at 7:30 A. M. 28 wells

Berry n n	1-P 2-J 3-I 4-0	31-18-38 3 <b>1-</b> 18-38 ' '
ff 17	6P 7-J	11
Grimes	1-M	28 <b>-</b> 18-38
"	2-L	"
17	3-K	11
17	4-N	11
McKinley A	1-M	19–18–38
"	2-0	"'
"	3-P	"

(2)

# SHELL OIL COMPANY, CONTINUED

McKinley A	4-N	19-18-38
11	5 <b>-</b> J	11
11	6-K	11
11	7-D	11
11	8-I	tt
McKinley B	1-K	20-18-33
11	2-N	11
11	3-M	11_
15	4-L	11
Sanger	<b>1-</b> M	27-18-38
11	2-N	11
11	3L	11
11	4-E	11
11	5 <b></b> K	11
State A	1-G	32-18-38

Date-April 8, 1958

Operator-PAN AMERICAN OIL CORP-Meet at Fan American Camp South of Hobbs at 7:30AM 2'8 wells

Byers NW/3	8 <b>-</b> D	3-19-38
	11-C	0
11	26 <b>-</b> F	11
II.	29 <b>-</b> E	17
Byers NE/4	8-B	4-19-38
lyers ND/4	11 <b>-</b> A	4-19-00 11
11	26 <b>-</b> H	n
	33 <b>-</b> G	И.,
Capps SE/3	7XJ	3-19-38
n n	lOXJ	טע <i>ר</i> ביין וו
11	30X0	11
Capps SW/3	90AU 8-L	11
n n	11-K	tt
McKinley	8-D	5-19-38
northrey 1	12-C	)-1)-10
: 11	12-0 19-E	H
State A "1"	17-10 8-D	4-19-38
	11 <b>-</b> C	4-19-20 11
tt.	26 <b>-</b> F	11
n	20-r 33-B	11
State A "2"	4-J	11
	4-3 11-I	11
U	26 <b>-</b> P	11
11	29-0	<b>11</b> ,
State A "3"	~/-0 3-K	11
11	26-N	tt
State A Tr. 1 "D"	ĨIXC	11
	7-D	∥ T/A
		-,

# Date-April 9, 1958

Operator-HUMBLE	OIL & RFG.	<u>CO.</u> -Meet at Humble ( 21 wells	amp on <sup>G</sup> rimes a	at 7:30 A.M.
Bowers A	1-I	30-18-38		
u	2-J	4		· .
u	3-M	29-18-38		
17	<b>4-</b> P	30-18-38		
11	5I	и и		
11	6 <b>-</b> I	11		
11	8-0	11		•
n	9-E	29-18-38		
If	10-L	II II	,	
11	12-L	11		
11	<b>13-</b> J	30-18-38		
11	14-M	29-18-38		
11	15 <b></b> P	30-18-38		
11	16-0	n		
Bower B	1-D	29-18-38		
Grimes	l-A	11		
State A	<b>1-</b> I	25-18-37		
tt	5-0	11		
tt.	6-K	<u></u>		in an
11	7 <b>-</b> P	11		
tt	2-P	**		

# Date-April 10, 1958

Operator-<u>SHELL OIL COMPANY</u>-Meet at Rice #1-P, 13-18-37 at 7:30 A. M. 17 wells

Rice n n n	1-P 2-0 3-I 4-J	13-18-37 " "
State A	2-G	32 <b>-</b> 18 <b>-</b> 37
"	3-C	32 <b>-</b> 18 <b>-</b> 38
tt	<b>4-</b> H	tt
State B	1-D	33-18-38
"	2-C	"
State D	1-F	24 <b></b> 18 <b>-</b> 37
"	2-C	"
State F	1	23 <b>-</b> 18-37
"	2G	11
"	3B	11
Thorp	1-J	19-19-38
Turner	1-G	34-18-38
"	2-B	34-18-37

Date-April 10, 1958

Operator-WALKER OIL CO.-Meet at Terry #1-0, 10-19-38 at 3:00 P.M. 2 wells

 Terry
 1-0
 10-19-38

 Terry
 2-0
 "

Date-April 14, 1958

Operator-W. K. BYROM-Meet at Bradley #1, 6-19-38 at 8:00 A.M. 8 wells

Bradley	1-I	6-19-38
11	2 <b>-</b> P	17
11	5 <b>-</b> G	tt
Bradley B	1-J	11
11	2-0	11
Holt	1 <b>-</b> B	36-18-37
Orcutt	1-C	8-19-38
	2 <b>-</b> Ð	11

Date-April 14, 1958

Operator-ALBERT GACKLE-Meet at Terry #1-A, 8-19-38 at 1:15 P.M. 1 well

Terry 1-A 8-19-38

Date-April 14, 1958

Operator-ATLANTIC RFG. CO.-Meet at Bradley #1-A, 6-19-38 at 2:00 P.M. 7 wells

Bradley	1 <b>-</b> A	6-19-38
11	2 <b>-</b> A	n
11	3 <b></b> B	11 .
11	4 <b>-H</b>	11
11	6 <b>-</b> B	11
12	7 <b>-</b> H	11
Grimes	1-0	20-18-38

Date-April 15, 1958

Operator-<u>PAN ANERICAN PET. CORP.</u>-Meet at Pan American Camp at 7:30 A.M. 28 wells

Capps	SW/3	26 <b>-</b> N	3-19-38
Capps		27 <b>-</b> P	11
11		31-M	11

PAN AMERIC	CAN PET, CORP.	<u>CONTINUED</u>						
Leech State A "	5" 24-F 5" 1-A 8-B	15-19-38 9-19-38						· · · · · · · · · · · · · · · · · · ·
n 11	26 <b>-</b> H 29 <b>-</b> G	in an	and a second sec		an a	tini vini y fi National di secondario di secondario di secondario di secondario di secondario di secondario di Nationali di secondario di Nationali di secondario di s		
State A "6	24-F	الم <u>مراجعة المحافظة المحافظة</u> 11 من محافظة المحافظة ا 11 من محافظة المحافظة ا	in a sama sa			ئەۋەپىيەن تەسىنىد. بېرىمان يېرىمان		
State A "7 " State A "8	29-E	10-19-38 "		· .				
tr	<b>36</b> М 29М	11		··· . ·	· · ·	· · · · · · · · · · · · · · · · · · ·	• •	
State A "9	" <b>1-C</b> 13AC	15-19-38 "		٠	•		· •••	
Terry Terry "]" "	8-D 8-J 11-K	9 <b>-</b> 19-38 "			- سب .		.*	
Terry "2"	8-L 13-K	10-19-38 "	· · · · · · · · · · · · · · · · · · ·			-	• .	
Terry "3" Thorp "	21-E 7XB 11-C	9–19–38 10–19– <b>38</b> "				•	·	
11 · · · · · · · · · · · · · · · · · ·	26-F 30XG	17						
Turner "1"	8 <b>-</b> D	34-18-38	·.· .					

Date-April 16, 1958

Operator-<u>CITIES SERVICE OIL CO.</u>-Meet at Cities Service Camp at Hobbs at 7:30 A.M. 12 wells

		·		
Fowler	<b>1-</b> A	31–18– <del>3</del> 8		:
11	<b>2-</b> B	11		
13	3-G	17		
n	4-H	11		
11	5-A	11		
12	6-H	n		
11	7-B	11		
11	8G	88		
Hardin	1-F	19 <b>-</b> 18 <b>-38</b>	· •• ••	
11	2-E	11		
11	3-C	12	- · · •••	
11	5-D	11	<u>`</u>	
				ليتبيه ويستستج من الم الالال الال الال الال الال الال
		1 / 1 . utas a techniquiteus a planarenari fan		organization in a subscription in the second s

# Date-April 17, 1958

Operator- <u>THE TEXAS COMPANY</u> -Meet at	Texas	Company	South	of	Hobbs	at 7	7:30	A M.
9 wells		- •					-	•

· · · ·		
McKinley	2 <b>-</b> I	5-19-38
R V ·	 	
	1 <b>-</b> 5	4-19-38

(6)

THE TEXAS COMPANY, CONTINUED

McKinlev	3-M 4-19-38	
11	<b>4-P</b> 5-19-38	
Selman	1-J 15-19-3	38 - Maria - Maria M Maria Maria Mari
State CDD & B	1-A 25-18-3	and an all a set an art and the set of a set has a substantial with the set of the
11	2-н "	
· 11 <sup>2</sup> . · · · · · · · · · · · · · · · · · · ·	3-G "	nga angang banananan manananan inganananan inganan na manang mangang manananan ina ana manananan ing siga perinagkan ing An
11	4 <b></b> B "	(1) A second se second second sec

Date-April 17, 1958

Operator-TEXAS	PACIFIC COAL	<u>&amp; OIL CO.</u> -Meet at	State "G	" #1-P, 24-18-37	7 at 11:00AM
		5 wells	• •		
State G "	1-P 2-I	24 <b>-</b> 18-37 "			. <b>.</b> .
)1 13	3-J 4-0	11 11			
State V Ac/1	1-I	14-18-37			

Date-April 17, 1958

Operator-<u>C. H. SWEET</u>-Meet at Grimes #1, 20-18-38 at 1:15 P.M. 10 wells

Federal Bowers	1.	20-18-38
Fed. Bowers B	2AJ	ît
11	3	tt
11	3AP	11
Grimes	1	11
11	3A-I	11
State F	1-A	23-18-37
11	2 <b>-H</b>	tt
11	3 <b>-</b> I	11
11	1A	17

Date-April 21, 1958

Operator-MORRIS R. ANTWEIL-Meet at McKinley #1-G, 20-18-38 at 8:00 A. M. 2 wells

McKinley 1-G 20-7-3-38 " 2-H "

Date-April 21, 1958

Operator-R. M. MORAN-Meet at Hardin B #1-E, 18-18-38 at 9:00 A. M.- 1 well

Hardin B 1-E 18-18-38

Date-April 21, 1958

Operator-MORAN OIL PRODUCING & DRILLING CO.-Meet at Rice #1-H, 13-18-37 at 9:30AM

4 wells

Rice	1-H	13-18-37
11	2-G	11
H	3A	ti
11 .	<b>4-B</b>	11 .

Date-April 21, 1958

Operator-<u>MAPENZA OIL CORP.</u>-Meet at Stanolind State #1A-P, 14-18-37 at 11:00 A.M. 1 well

Stanolind State 1A-P 14-18-37

Date-April 21, 1958

Operator-<u>MAGNOLIA PET. CO.</u>-Meet at Berry #1, 31-18-38 at 1:15 P.M. 4 wells

Berry	<b>1-</b> K	31-18-38
n .	2-N	11
n	3L	tt
17	<b>4-</b> M	п

Date-April 21, 1958

Operator-<u>SUNRAY\_MID-CONTINENT\_OIL\_CO.</u>-Meet at Fowler #1-D, 31-18-38 at 2:30 P.M. 4 wells

Fowler	1 <b>-</b> D	31-18-38
11	<b>4-</b> E	11
Fowler C	2-D	83
11	3 <b>-</b> E	¥1

Date-April 22, 1958

Operator-<u>PAN AMERICAN PET. CORP.-Meet at Pan American Camp at Hobbs at 7:30 A.M.</u> 23 wells

McKinley	1-C	5-19-38
11	6-D	IT
ıt	26 <b>-</b> F	11
H .	29 <b></b> E	11
State A "4"	8L	n
11	<b>11-</b> K	11
11	18 <b>-</b> K	11

PAN AMERICAN PET.	CORP.	CONTINUED
State A "4"	21-M	5-19-38
"	24-N	"
State A Tr. 10	23 <b>-</b> ₽ 26 <b>-</b> P	33-18-38 "
State G	1-E	. 11
n	2-F	. 27
17	<b>3-</b> ғ	47
17	4-Е	18
State H	1C	6-19-38
"	2F	"
Turner A	5-L	34-18-38
Turner "1"	29XE	"
Turner "2"	8XL 11-K	11 11
11 .	26-N	11
17	29-M	23

# Date-April 23, 1958

Operator-<u>OHIO OIL COMPANY-</u>Meet at Ohio Camp West of Hobbs at 8:00 A.M. 15 wells

State 30 "" "" " " " "	1-K 2-N 3- <del>L</del> 5-K 6-M 7-N 8-K 9-M	30 <b>-13-38</b> " " " " " "
State 32 " " " " "	1 2-P 3-I 4-J 5-0 7-P 8-I	32-18-38 " " " " "

Date-April 24, 1958

Operator-<u>STANDARD OIL CO. OF TEXAS</u>--Meet at McKinley #1-F, 20-18-38 at 7:30 A.M. 7 wells

McKinley "	1F 2E	20 <b>-</b> ]8-38 "
State 17	1-L	171838
State	<b>1-</b> P	29-18-38
11	2-0	17
State 29	<b>3</b> -₽	18
11	4=0	Ħ

(9)

Date-\_April 24, 1958

Operator-<u>SUN OIL COMPANY</u>-Meet at Sun Oil Co. Camp in Hobbs at 10:00 A.M. 6 wells

		,
McKinley	l-A	5-19-38
11	2-H	11
11	3 <b>-</b> B	11
11	4-G	n
11	<b>4-</b> С 5-В	11
11 ·	6-A	IT

Date-April 24, 1958

Operator-<u>SOUTHERN PET. EXPL. CO.</u>-Meet at Morris A #1-0, 21-18-38 at 1:15 P.M. 2 wells

Morris	A	1-0	21-18-38
Morris	В	1-P	11

Date-April 24, 1958

Operator-<u>YATES BROTHERS</u>-Meet at Shell State #1-P, 23-18-37 at 2:30 P.M. 3 wells

Shell State	l-P	23-18-37
Ħ	2 <b>-</b> J	11
11	3-0	17

Date-April 28, 1958

Operator-<u>SKELLY OIL COMPANY</u>-Meet at Skelly Grimes Camp west of Hobbs at 7:30 A.M. 10 wells

Fowler	1-C	31-18-38
11	2 <b>-</b> F	11
tt ·	3 <b>-</b> C	11
11	4-F	11
Hobbs E	l-A	26-18-37
Mexico U	1-B	8-19-38
McKinley	1 <b>-</b> D	20-18-38
State A	1-M	17-18-38
Turner	1 <b>-</b> F	34-18-38
it.	2 <b></b> C	11

Date-April 28, 1958

Operator-SINCLAIR OIL & GAS CO.-Meet at Sinclair Camp south of Hobbs at 1:30 P.M. 7 wells

Crump	1-B	15-19-38
Grimes	1-E	28-18-38

(10)

# SINCLAIR OIL & GAS CO. CONTINUED

	a an	and a second second Second second
Grimes	 2-F	28-18-38
11	 	والمراجب والمستعملين
11	4-C	n an an an an an Arland an Arland. Na an Arland
Selman	1-G	15-19-38
Crump	2-B	n 20 20 20
-	 	

# Date-April 30, 1958

Operator-<u>CAMEDAN OIL CORP.</u>-Meet at Samedan Camp, North Grimes in Hobbs, at 7:30AM 18 wells

Byers	<b>1-</b> B	3-19-38		• • •	and a second statement of a second
11	<b>2-</b> G	11			
11 .	3-A	11			•
n	4-H	Ħ			× • · · ·
Moon A	1-G	28-18-38			
11	<b>2</b> B	it and a set of the se			
Moon B	- <b>1-</b> H		-· .		
13	2 <b>-</b> A	II			· ,
State B	<b>1-</b> F	25-18-37			· . · ·
<b>11</b> -	2 <b>-</b> E	n			a state and the second
State C	1-N	24-18-37			
11	2:•K	n			
11	3 <b>-</b> L	11 August	· ·		
11	<b>4-</b> M	11			
Turner A	1-J	34-18-38			· '
11	2-0	II			
Turner B	1I	11			
11	<b>2-</b> P	п			

# Date-May 6, 1958

Operator-<u>GULF OIL CORF.</u>-Meet at Grimes #1, 33-18-38 at 7:30 A.M. 29 wells

Graham State "	1-H 2-A	24 <b>-</b> 18-37 "	· · · · · · · · · · · · · · · · · · ·	
11	3 <b>-</b> G	11	· · · · · ·	· · · · · · · · · · · · · · · · · · ·
11	4-B	11	1	· .
Grimes, W. A. "	10-D 11-F	32-18-38 "		
11	12-L	· #		
11	13-E	II .	n ( angelen an a same a same a same and an and a same a sa	- ··· · · · · · · · · · · · · · · · · ·
11	14-14	tt.		
Grimes, W. D. "	5-B 6-I	<b>33-</b> 18-38 "	· · · · · · · · · · · · · · · · · · ·	· · _ · · · · · · · · · · · · · · · · ·
Grimes, W. D. "A"	1-D	32-18-38		
11	2-F	11		
11	3-К	, <b>n</b>		

(11)

GULF OIL CORP., CONTINUED

		معي د الله ال
Grimes, W. D. "A"	5-M	32-18-38
11	6-N	" (Status)
11	7-G	ų
11 · · · · · · · · · · · · · · · · · ·	8-E	11
11	9 <b>-</b> L	17
<b>.</b>	15-N	n
Grimes, W. D. "C"	1-M	21-18-38
11	2N	n
u .	3 <b></b> L	11
Grimes, West	4C	32 <b>-1</b> 8-38
n	15-N	11
Hardin	1-0	18-18-38
u	<b>2-</b> P	11
H,	3-I	11
J. R. Holt "D"	1-C	36-18-37

Date-May 7, 1958

Operator-<u>GULF OIL CORP.-Meet at Grimes #1, 33-18-38 at 7:30 A. M.</u> 4 wells

Grimes, W. D. "B"	<b>1-</b> I	33-18-38
n	2H	53
12	3B	11
11	4-A	tt –

# NEW MEXICO OIL CONSERVATION COMMISSION P. O. BOX 2045

HOBBS, NEW MEXICO

# TO: ALL OPERATORS IN THE HOBBS, BOWERS, BYERS QUEEN GAS, AND HOBBS DRINKARD POOLS.

In accordance with Memorandum No. 33-57 dated November 18, 1957, from Mr. A. L. Porter, Jr., Secretary-Director, in which it is prescribed that casing leak surveys will be witnessed by a Commission representative during the quarter beginning April 1, the following wells will be readied for this annual inspection in the manner and on the date as herein outlined.

- 1. All wells must be shut in 24 hours before inspection will be witnessed.
- 2. All cellars will be dug in a manner to expose the outlets of all bradenheads from the first string of pipe cemented in the well and to expose all subsequent heads to and including the tubing head, unless a Form C-103 has been filed indicating satisfactory connections below the ground level and with proper identification above ground level.
- 3. One opening from all bradenheads will be connected above the surface of the ground with a second valve. The second valve must be closed in compliance with paragraph number one.
- 4. The operator must furnish connections and personnel who will assist in the opening of valves. Pressure gauges to record pressures should also be furnished, if possible.
- 5. The Proration Manager will be notified of a well that has failed to meet the requirement of preparation as outlined on the date-time schedule, and such well will be immediately removed from the proration schedule. The loss of allowable will begin from the date of the bradenhead inspection of the well.
- 6. If, due to unusual mechanical difficulties or workover operations, a particular well cannot be made ready at the time set forth on the schedule, its test date may be delayed after inspection of the conditions by the Commission representative. The Commission should be notified at least 48 hours prior to test time for well or wells that require such delays.
- 7. The Commission expects company personnel to be present at the meeting place on the date and time indicated on the attached schedule. If for any reason the operator or his representative cannot be present, the Commission must be notified in advance.

In every case, the Commission representative will meet the company personnel at the place and time shown on the schedule and proceed to all listed wells in logical order.

8. For further information or questions, please contact Eric Engbrecht, Express 3-6161, Hobbs, New Mexico.

# APRIL 1, 1959

# CITIES SERVICE OIL COMPANY

12 wells

Meet	at	Cities	Service	Camp.	Hobbs.	st.	7:30	a. m.
	40	010100		( quip	1000039	αv		CL 6 1116

Fowler	1-A. 2	31-18-38
Fowler	2-B	31-18-38
Fowler	3-G1	31-18-38
Fowler	Ц-Н /	31-18-38
Fowler	5-A V	31-18-38
Fowler	6-H	31-18-38
Fowler	7-3V /	31-18-38
Fowler	8-G1	31-18-38
Hardin	1-F1	19-18-38
Hardin	2-E	19-18-38
Hardin	3-0 -	19-18-38
Hardin	5-D -	19-18-38
Jewler B	1-K	6-19-38
		•

# APRIL 2, 1959

PAN AMERICAN OIL CORPORATION

27 wells

Meet at Pan American Camp South of Hobbs at 7:30 a.m.

	/	
Byers NW/3	8-D -	3-19-38
Byers NW/3	11-04	3-19-38
Byers NW/3*	26-F /	3-19-38
Byers NW/3V	J29-E	3-19-38
Byers NE/4	8-B	4-19-38
Byers NE/L	. 11-AV	4-19-38
Byers NE/4	26-H V	4-19-38
Byers NE/4	33-G	4-19-38
Capps SE/3/	_7XJ V	3-19-38
Capps SE/3	· 10XI	3-19-38
Capps <u>SE/3</u>	30X01	3-19-38
Capps-SW/3	, 8-L	3-19-38
Capps SW/3	√11-K ✓	3-19-38
McKinley 🛩	8-D	5-19-38
McKinley	12-0 -	5-19-38
McKinley	19-E/	5-19-38
State A "1"	8-D/	4-19-38
State A "l" 🥠	11-0:	4-19-38
State A "l"	26-FV	4-19-38
State A "1"	33-EV//	4-19-38
State A "2"	4-J'	4-19-38
State A "2"	11-IV	4-19-38
State A "2"	26-P	4-19-38
State A "2"	29-0	4-19-38
State A "3"	3-KV	4-19-38
State A "3" 🖌	26-N	4-19-38
State A "D"	11XC V	4-19-38

-1-

# APRIL 6, 1959

# AMERADA PETROLEUM CORPORATION

Meet at Hardin Lease #1-M, 18-18-38, at 7:30 a.m.

Hardin	1-MV	18-18-38
Hardin	2-N/	1.8-18-38
Hardin	3-L/	19-18-38
Hardin B	4-112	18-1 <b>8-38</b>
McKinley	1-D V	3-18-38
McKinley	2-FN	30 18-38
Mc laley	3-01/	30-78-38
Mellanley	L-EV/	30- 18-38
Magi ley	5-r V	30 .3-38
Mckinley	6-0 -	30 3-38
State A	1-B 1/	32-1-38
Coute A	2-A	32-138
Unite A	3-B4	32-2-38 (Status)
olitte B	1-F	29-14-38
వా. te B	2	29-18-38
State D	3-B1	29-10-38
State B	4-C	29-7.0-38
State B	5-G /	29-18-38
Sonte B	6-F 4	29-18-38
Elete d	1-A	36-18-37
fuete (	2-H	36-18-37
State C	3-G	36-18-37
State E	1-E -	248 .37
ate E	2-1) 1/	24-10-37
State VE "B"	1-0	14-1-37
stete WH "B"	2-K	14-73-37

# APRIL 7, 1959

SHELL OIL COMPAN

28 wells

Meet at McKilley Case A #1-M, 19-18-38 at 7:30 a.m.

	/	
	1-P	31-18-38
2	2-J~	31-10-38
$1.1 < \overline{V}_{1}$	3-12	31- <u>1</u> .6-38
Ь. ™. у	4-0e	3 <b>1-</b> 18-38
Example	6-74	31 <b>-</b> 13 <b>-38</b>
Be y	7-J	31 <b>-</b> 10 <b>-</b> 38
G: 1 130	1-14	283 -38
Charles	2-L/	28-°0-38
Gil.s	3-К	28-138
Grimes	4-N	28-13-38
Mellipley A	1.11/	19-18-38
McAunley A	2. )	<b>19-1</b> 8- <b>38</b>
McRitley A	3.1	19–18–38
McKroley A	1 1 /	19- 38
Mclanley A	5.14/	19-15-38
McKinley A	6. 7 1	<u>19-13-38</u>
McKinley A	7-L	19-18-38
McKinley A	8-1~	19-18-38

26 wells

## SHELL OIL COMPANY (continued)

HUMBLE OIL & REFUMING COMPANY

McKinley	В	1-K	20-18-38
McKinley	В	2-N V	20-18-38
McKinley	B ·	3-M V	20-18-38
McKinley	В	4-L	20-18-38
Sanger		1-MZ	27-18-38
Sanger		2-14	27-18-38
Sanger		3-L	27-18-38
Sanger		4-E	27-18-38
Sanger		5-K •	27-18-38
State A		1-G <sup>2</sup>	32-18-38

## APRIL 8, 1959

10

## 22 wells

Meet at Humble Camp on Grimes Street at 7:30 a.m.

		1 /	
Bouers	A	1-I V	30-18-38
Bowers	A	2-J 1/	30-18-38
Bowers	A	3-M /	29-18-38
Bowers	A	4-P /	30-18-38
Bowers		5-11	30-18 38
Bowers		6-IL	30-18-3# 33
Bowers		8-01/	30-18-38
Bowers		9-E /	29-18-38
Bowers		10-LV/	29-18-38
Borers		13-JV	30-18-18-3
Bowers		TL-MV	29-18-38
Bowers		15-P2	30-18-38
Bowers		16-04	30-18-38
Bewers		I-D/	29-18-38
Grimes		1-AV	29-18-38
Strue		l-Ir	25-18-37
1	1		25-18-37
Rule Stine	1	2-Po/	
🛸 🧭 Stabal	A	5-04	25-18-37
State	٨.	6-K*	25-18-37
State	A	7-₽₩	25-18-37
Steve	1	8-J	25-18-37
Stabe	1 1 <b>a</b>	9-N	25-18-37
		•	

# APRIL 9, 1959

PAN AMERICAN PETROLSUM CORPORATION

28 wells

Meet at Pan American Guop at 7:30 a.m. /

Capps SM/3	26-NV	3-19-38
Capps SE/3	27-2	3-19-38
Capps SE'3	31-M V	3-19-38
Leech	24-FL	15-19-38
State A "5"	1-A V	9-19-38
State A "5"	8-B	9-19-38
State A "5"	26-Н м	9-19-38
State A "5"	29-G V	9-19-38

-3-

PAN AMERICAN PETROLEUM CORPORATION (continued)

State A "6"	11-C V	9-19-38
State A "6"	24-F	9-19-38
State A "7"	8-D 4	10-19-38
State A "7"	29-E	10-19-38
State A "8"	24-N	10-19-38
State A "8"	36-N V	10-19-38
State A "8"	29-M	10-19-38
State A "9"	1-0	15-19-38
State A "9"	13-AC/	15-19-38
Terry	8-D	9-19-38
Terry "1"	8-J ~	9-19-38
Terry "1"	11-K	9-19-38
Terry "2"	8-L V	10-19-38
Terry "2"	13-K	10-19-38
Terry "3"	21-E	9-19-38
Thorp	7-XB	10-19-38
Thorp	11-01	10-19-38
Thorp	26-F	10-19-38
Thorp	30-XG	10-19-38
Turner "l"	8-D 1	34-18-38

# APRIL 13, 1959

CONTINENTAL OIL COMPANY

32 wells

Meet at Continental Office on North Turner at 7:30 a.m.

Grimes	1-0-	28-18-38
Grimes	2-PV	28-18-38
Grimes	3-J 🗸	28-18-38
Grimes	4-IV	28-18-38
Grimes	5-0 ~	28-18-38 (Status)
Grimes	6-K	28-18-38 (Status)
State A-5	1-J/	5-19-38
State A-5	2-01	5-19-38
State A-29	1-J/	29-18-38 Houles
State A-29	2-N 4	29-12-38 ,'
State A-29	3-K/	27-10-30
State A-29	<u>4-J</u>	29-18-38 Bowers
State A-29	5-K	29-18-38 Bovero
State A-29	6-N 4	29-13-38 Bollers
State A-33	I-M 2	33-18-38 Holla
State A-33	2-L	33-18-38 Notes
State A-33	3-К	33-18-38 1000
State A-33	4-51	33-18-38 Holl
State A-33	5-0-	33-18-38 //
State A-33	6-N-	33-18-38 //
State A-33	7-9	33-18-38
State A-33 29-	8-L 67	33-18-38
State A-33	9-M	33-18-38 Bouch
State A-33	10-K	33-18-38
State A-33	11-G V	33-18-38
~ ~ ~		

-4-

## CONTINENTAL OIL COMPANY (continued)

State B-13	1-N 1	13-18-37
State B-13	2-M -	13-18-37
State B-13	4-F	13-18-37
State B-13	5-E	13-18-37
State B-13	6-C V	13-18-37
State E-25	1-0/	25-18-37
State B-25	2-D V	25-18-37

# APRIL 14, 1959

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#### SHELL OIL COMPANY

16 wells

Meet at Rice Lease #1-P, 13-18-37, at 7:30 a.m.

	/	
Rice	1-P	13-18-37
Rice	2-0	13-18-37
Rice	3-I ×	13-18-37
Rice	4-J-V	13-18-37
State A	2-G1	32-18-37
State A	3-Gt	32-18-38
State A	4-H V	32-18 38
State B	I-D+	33-18-38
State B	2-Ce	33-18-38
State D	<u>1-F-</u>	24-13-37
State D	2-0	24-18-37
State F	<b>2-</b> G	23-10-37
State F	3-B	23-18-37
Thorp	1-J	12-19-19-3 3
Turner	1-G /	34-18-38
Turner	2-B	34-18-38

## APRIL 15, 1959

## OHIO OIL COMPANY

Meet at Ohio Camp West of Hobbs at 8:00 a.m.

State	1-N V	9-19-38
State 30	'l-к 🗸	30-18-38
State 30	·2-N /	30-18-38
State 30	-3-LV/	30-18-38
State 30	15-KV	30-18-38
State 30	₩6-M	30-18-38
State 30	17-NV	30-18-38
State 30	v8-Det	30-18-38
State 30	<u>-9-M</u>	30-18-38
State 32	v 2-P	<u> </u>
State 32	v3-I*	32-18-38
State 32		32-18-38
State 32 State 32	45-0 17-P	32-18-38 32-18-38
State 32	8-1	32-18-38
State 32	6-01	32-18-38

16 wells

# PAN AMERICAN PETROLEUM CORPORATION

Meet at Pan	American Camp +	Hobbs at 7:30 a.m.	an a
	•		
	McKinley	1-0	5-19-38
	-McKinley	6-D V	5-19-38
	-McKinley	26-F	5-19-38
	<pre>~McKinley</pre>	29-E 🖌	5-19-38
	State A "4"	8-L V	5-19-38
	State A "4"	11-K 🗸	5-19-38
	State A "4"	21-M V	5-19-38
	State A "4"	24-N.	5-19-38
	State A Tr.1	0 23-P	33-18-38
	State A Tr.1		33-18-38
•	State G	1-E	33-18-38
	State G	2-F 1	33-18-38
	State G	3-F -	33-18-38
	State G	4-E .	33-18-38
	State H	1-C	6-19-38
	State H	2-FV	6-19-38
	Turner A	5-L	34-13-38
•	Turner "l"	29-XE	34-18-38
	Turner "2"	8-XL	34-18-38
	Turner "2"	11-K	34-18-38
	Turner "2"	26-N	34-18-38
	Turner "2"	29-M	34-18-38

# APRIL 20, 1959

#### SKELLY OIL COMPANY

Meet at Skelly Grimes Camp west of Hobbs at 7:30 a.m.

Fowler
Fowler
Fowler
Fowler
Hobbs E
Merrico U
McKinley
State A
Turner
Turner

_	
1-0	31-18-38
2-F	31-18-38
3-0 2	31-18-38
4-F1	31-18-38
1-A	26-18-37
1-B	8-19-38
1-D 🖌	20-18-38
1-M C	17-13-38
1-F 🗸	34-13-33
2-0	34-13-38
7	

## SINCLAIR OIL & GAS COMPANY

Meet at Sinclair Camp south of Hobbs at 1:30 p.m.

Crump	1-B	15-19-38
Crump	2-B	15-19-38
Grimes	1-E 🖌	28-13-38
Grimes	2+F V	28-18-38
Grimes	3-D V/	28-18-38
Grimes	4-C	28-18-38
Selman	1-G	15-19-38

## 10 wells

7 wells

-6-

22 wells

. .

#### TIDEWATER OIL COMPANY & GETTY OIL COMPANY

Meet at Tidewater Camp at Hobbs at 7:30 a.m.

Grimes	 1-IV	29-18-38
Grimes	3-I	29-18-38
Grimes	··4-H	29-18-38
Hardin	1-G 🗸	19-18-38
Hardin	2-H·	19-18-38
Hardin	3-B1	19-18-38
Hardin	4-A1	19-18-38
McKinley	1-G	30-18-38
McKinley	2-H	30-18-38
McKinley	3-H	30-18-38
McKinley	4-B≁	30-18-38
McKinley	5-A -	30-18-38
McKinley	6-G /	30-18-38
McKinley	7-B	30-18-38
State B	1-н 🗸	14-18-38
17	2-0	11-12-52

#### APRIL 22, 1959

STANDARD OIL COMPANY OF TEXAS

Meet at McKinley Lease #1-F, 20-18-38, at 7:30 a.m.

McKinley	1-F	20-18-38
McKinley	2-E 🗸	20-18-38
State 17	1-L /	17-18-38
State	1-P	29-18-38
State	2-0	29-18-38
State 29	3-P 🗸	29-18-38
State 29	4-0	29-18-38

#### SUN OIL COMPANY

Meet at Sun Oil Camp in Hobbs at 10:00 a.m.

McKinley	1-A.	5-19-38
McKinley	2-Н //	5-19-38
McKinley	3-B	5-19-38
McKinley	4-G /	5-19-38
McKinley	-5-B √ /	5-19-38
McKinley	6-A	5-19-38

#### APRIL 23, 1959

## SOUTHERN PETROLEUM EXPLORATION COMPANY

Meet at Morris A Lease #1-0, 21-18-38, at 1:15 p.m.

Morris A	1-0 🗸	21-18-38
Morris B	1-P 🖌	21-18-38
	-7-	

6 wells

2 wells

## 7 wells

#### APRIL 23, 1959

## YATES BROTHERS

Meet at Shell State Lease #1-P, 23-18-37, at 2:30 p.m.

Shell State	1-P	23-18-37
Shell State	2 <b>-</b> J ∷ુ	23-18-37
Shell State	3-0 *	23-18-37

#### APRIL 27, 1959

W. K. BYROM

Meet at Bradley Lease #1, 6-19-38, at 8: a.m.

	1	(
Bradley	1-I 2	6-19-38
Bradley	2-P	6-19-38
Bradley	5-G 1	6-19-38
Bradley B	1-J V	6-19-38
Bradley B	2-01	6-19-38
Holt	1-B/	36-18-37
Orcutt	1-0 2/	8-19-38
Orcutt	<b>2-</b> D $\checkmark$	8-19-38

ALBERT GACKLE

Meet at Terry Lease #1-A, 8-19-38 at 11:00 a.m.

Terry 1-A

ATLANTIC REFINING COMPANY

Meet at Bradley Lease #1-A, 6-19-38, at 2:00 p.m.

Bradley	1-A V	6-19-38
Bradley	2-A /	6-19-38
Bradley	3-B V/	` <b>6-19-</b> 38
Bradley	Ц-н <i>V</i> /	6-19-38
Bradley	6-B'	6-19-38
Bradley	7-H (	6-19-38
Grimes	1-0 V	20-18-38

#### APRIL 28, 1959

THE TEXAS COMPANY

Meet at The Texas Company south of Hobbs at 7:30 a.m.

McKinley	2-I V/	5 <b>-</b> 19-38
McKinley	1-L 🗸	4-19-38
McKinley	3-M 🖌	4-19-38
McKinley	4-P V	5-19-38

3 wells

8 wells

l well

7 wells

9 wells

\_\_\_\_

8-19-38

THE TEXAS COMPANY, (continued)

1-J 1-A 2-H 3-Gt	15-19-38 25-18-37 25-18-37 25-18-37
4-в /	25-18-37
	1-A x 2-H 1 3-G1

1-P 1

2-IV

3-J≁

h+0₽

1-14

2-J

#### APRIL 28, 1959

THE TEXAS PACIFIC COAL & OIL COMPANY

State G

State G

State G

State G

State V Ac/1

State V Ac/1

tate UAC/L

6 wells

10 wells

24-18-37

24-18-37

24-18-37

14-18-37

14-18-37

23-18-37

85/8-320-43

Meet at State "G" Lease #1-P, 24-18-37, at 11:00 a.m.

C.	Η.	SWEET

Meet at Grimes Lease #1, 20-18-38, at 1:15 p.m.

Federal' 20-18-38 1 2A-J 6 Federal Bowers B 20-18-38 Federal Bowers Bb 32 20-18-38 Federal Bowers BV 3A-P 20-18-38  $\checkmark$  Grimes  $^{
u}$ 1-I V 20-18-38 JGrimes 🖉 3A-1 🗸 20-18-38 State F 23-18-37 2-H=~ State F 23-18-37 3-I ~ State F 23-18-37 4-A ~ State F 23-18-37

APRIL 29, 1959

RICE ENGINEERING & OPERATING, INC.

Meet at Oil Conservation Commission Office at 8:00 m.m.

Hobbs SWD	15-E 🖌 🖊	15-19-38
Hobbs SWD	25-P 🗸	25-18-37

APRIL	30,	1959

#### SAMEDAN OIL CORPORATION

Meet at Samedan Camp, North Grimes in Hobbs, at 7:30 a.m.

 Byers
 1-B
 3-19-38

 Byers
 2-G
 3-19-38

2 wells

18 wells

₹.

SAMEDAN OIL	CORPORATION (con	tinued)		
	Byers Byers	3-A 4-H	3-19-38 3-19-38	
	Moon A	1-G 🗸	28-18-38	
	Moon A Moon B	2-B	28-18-38	
	Moon B Moon B	1-H / 2-A /	28-18-38 28-18-38	·
	State B	l-FV	25-18-37	
	State B	2-EV	25-18-37	
	State C	l-N	24-18-37	
	State C State C	2-K 3-L	24-18-37 24-18-37	
	State C	1-1 1-1	24-18-37	
	Turner A	1-JV	34-18-38	
	Turner A	2-01	34-18-38	
	Turner B Turner B	1-1 / 2-P	34-18-38 34-18-38	
	Turner B	2-F -	54-10-50	
PRIL 30, 1959				
WALKER OIL C	COMPANY			2 wells
Meet at Terr	<b>y</b> Lease #1-0, 10	-19-38, at 3:00	p.m.	
	Terry	1-0	10-19-38	
	Terry	2-0 1/	10-19-38	
IAY 4, 1959				
MORRIS R. AN	TWEIL	· .		2 wells
Meet at McKi	nley Lease #1-G,	20-18-38, at 8:	00 a.m.	
	McKinley	1-G	20-18-38	
	McKinley	2-н	20-18-38 20-18-38	
R. M. MORAN	V			2 wells
Meet at Hard	in B Lease #1-E,	18-18-38, at 9:	00 a.m.	
	Hardin B		18-18-38	
•	Hardin B	1-E ' 2-F	18-18-38	
MORAN OIL PR	ODUCING & DRILLI	NG COMPANY		4 wells
بوكالمبيانين المتركب ويصددني سنباطئ	Lease #1-H, 13-		• m•	
Meet at Rice				
Meet at Rice	Rice	1_н	13-18-37	
Meet at Rice	Rice Rice	1-H 2-G	13-18-37 13-18-37	

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-10-

MAY 4, 1959	
MAPENZA OIL CORPORATION	l well
Meet at Stanolind State Lease #1A-P,	14-18-37, at 11:00 a.m.
Stanolind State	-P <sup>t</sup> 14-18-37
MAGNOLIA PETROLEUM COMPANY	4 wells
Meet at Berry Lease #1, 31-18-38, at	1:15 p.m.
SUNRAY MID-CONTINENT OIL COMPANY	4 wells
Meet at Fowler Lease #1-D, 31-18-38,	at 2:30 p.m.
Fowler1-Fowler4-Fowler C2-Fowler C3-	5 31-18-38 31-18-38
MAY 5, 1959	
GULF OIL CORPORATION	3 wells
Meet at W. D. Grimes "B" Lease #1, 33	-18-38, at 7:30 a.m.
Graham State A $1-1$ Graham State A $12-4$ Graham State A $13-4$ Graham State A $13-4$ Graham State A $13-4$ Grimes, W.A.NGT A MO- Grimes, W.A.NGT A MO- Grimes, W.A.NGT A $12-1$ Grimes, W.D. $12-1$	$ \begin{array}{c} 2h-18-37\\ 2h-18-37\\ 2h-18-37\\ 2h-18-37\\ 32-18-38\\ 32-18-38\\ 32-18-38\\ 32-18-38\\ 32-18-38\\ 32-18-38\\ 32-18-38\\ 32-18-38\\ 32-18-38\\ 32-18-38\\ 32-18-38\\ 32-18-38\\ 32-18-38\\ 32-18-38\\ 32-18-38\\ 32-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38\\ 33-18-38$
-11-	

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GULF OIL CORPORATION (continued)

Grimes, W. D. "C"	/1-颅	21-18-38
Grimes, W. D. "C"	12-N K	21-18-38
Grimes, W. D. "C"	V3-L1	31-18-38
WD Grimes, Hest		32-18-38
Grimes, Fest		30 30 30
Hardin	1-02	18-18-38
Hardin	< 2-P t	<b>18-</b> 18 <b>-</b> 38
Hardin		18-18-38
Holt, J.R. "D"	M-C/	36-18-37
/ Lea State "FO"	∽l-N <sup>ℓ</sup>	14-18-37
		· 712-38
Handin	4-6-	18-18-38
1402 alon		11
	5-5	, ]
1	μ	7 1

Hundin 11 λ

4-<del>6</del> 5-5 6-H

#### NEW MEXICO OIL CONSERVATION COMMISSION Post Office Box 2045 Hobbs, New Mexico

- TO: ALL OPERATORS WITH WELLS IN THE HOBBS, BOWERS, BYERS-QUEEN GAS, AND HOBBS-DRINKARD POOLS.
- SUBJECT: ANNUAL CASING LEAK SURVEY IN THE HOBBS AREA WITH ATTACHED DATE-TIME SCHEDULE.

In accordance with the Secretary-Director's Memorandum No. 33-57, wells involved in the annual witnessed casing leak inspection shall be readied in the manner and on the dates as herein outlined.

- 1. All wells must be shut-in for 24 hours before inspection is to be witnessed.
- 2. All cellars shall be dug in such a manner as to expose outlets of bradenheads from the first string of pipe cemented in well and all subsequent heads to, and including, the tubing head, unless Form C-103 has been filed showing satisfactory connections below ground level and proper identification above ground level.
- 3. One opening from all bradenheads shall be connected to a second valve above the surface. This second valve must be closed in compliance with paragraph 1.
- 4. Operators shall furnish connections and personnel to assist in the opening of valves. Where possible, pressure gauges to record pressures should be furnished.
- 5. The Provation Manager will be notified when wells fail to meet preparation requirements and such wells will be removed from the Provation Schedule. The loss of allowable will begin from the scheduled date of the inspection.
- 6. If, due to unusual mechanical difficulties or workover operations, wells cannot be made ready at the time set forth on the Date-Time Schedule, test dates may be delayed after inspection by a Commission representative. The Commission shall be notified at least fortyeight (48) hours prior to test time if such conditions should occur.
- 7. The Commission requests company personnel to be present at the meeting place on the date and time indicated on the attached Date-Time Schedule. If the operator or his representative cannot be present, the Commission shall be notified in advance. In every case, a Commission representative will meet company personnel at the scheduled place and time and proceed to inspect all wells in logical order.
- 8. For further information, please contact Eric Engbrecht, Express 3-6161, Hebbs, New Mexico.

Attachment: Date-Time Schedule

#### DARE-PINE SCHEDULE

# APRIL 1, 1960

#### AMERADA PETROLEUM CORPORATION

Neet at Hardin Lease No. 1-M, Section 18-T18S-R38E at 7:30 e.m.

	•	i.
Hardin	1-M	18-18-38
Hardin	<b>2-</b> N	18-18-33
Hardin	3-L	18-18-38
Hardin	5-1	18-18-38
Hardin B	4-3	18-18-38
CoKinley	<b>1-</b> D	30-13-38
McKinley	2 <b>-</b> F	30-18-38
McKinley	3-C	30-13-38
McKirley	4-5	30-18-38
McKinley B	5 <b>-</b> F	30-18-38
McKinley B	6-0	30-13-33
State A	- <b>1-</b> E	-32-18-38
State A	2-4	32-18-39
State A	<b>3-</b> B	32-18-38
State B	1-7	29-10-38
State B	<b>2-</b> 3	29-13-33
State B	3-8	29 <b>1</b> 3 <b>3</b> 8
State B	4-C	29-18-38
State B	5 <b>-</b> G	<u> 29-18-38</u>
State B	6 <b>-</b> F	29-18-38
State C	<b>1-</b> 4.	<u>36-18-37</u>
State C	2-	<u> 36-13<b>-</b>3</u> 7
State C	<b>3–</b> G	3618-37
Stace E	<b>1-</b> 2	24-13-37
State E	<b>2–</b> D	24-13-37
State H "B"	<b>1-</b> C	14-18-37
State 12 "B"	2-	14-13-37
State H #C	1-I	8-19-33

# APRIL 4. 1960

TIDE CATER OIL CONPARY & GETTY OIL CONTRARY

16 wells

Feet at Tidewater Camp in Hobbs at 7:30 P.M.

Grines Grines Grines Hardin Hardin Mardin Mardin Nakinley Hokinley	1-I 3-I 4 1-0 2-II 3-2 4-A 1-0 2-2 3-2 4-A	29-18-38 29-18-38 29-18-38 19-18-38 19-18-38 19-18-38 19-18-38 30-18-38 30-18-38
0	-	-

28 wells

TIDENATER OIL COMPANY & GETTY OIL COMPANY (continued)

McKinley	<b>6-</b> G	30-13-38
McKinley	<b>7-</b> B	<b>30-18-3</b> 8
State B	1-8	14-13-37
State B	<b>2-</b> G	14-18-37

## APRIL 5. 1960

PAR AMERICAN OIL CORPORATION

27 wells

Neet at Pan American Camp South of Hobbs at 7:30 a.m.

Byers "A"	<b>3-</b> D	3-19-38
Byers "A"	11-C	3-19-38
Byers "A"	26-F	3-19-38
Byers TAR	20-₽ 29 <b>-</b> ⊒	3-19-38
Byers "B"	29 <b>-</b> ⊒ 8-B	J-19-3∂ 4-19-3∂
Byers "B"	11-A	4-19-33
Byers "B"	26 <b>-</b> H	<b>4-1</b> 9-33
Byers Br		4-19-38
S. Capps	7X-J	<b>3-19-3</b> 3
N. S. Capps	8-L	3-19-33
N. S. Capps	10X-I	3-19~33
W. S. Capps	11-7	3 <b>-1</b> 9-38
N. S. Capps	<b>30%-</b> 0	3-19-33
McKinley	3-D	5 <b>-1</b> 9-38
	12-0	
NcKinley Yokinley	12-0 19-3	5-19-38 5-19-38
McKinley	_y=: 3−D	
State A Fr.1	11-C	4-1938
State / Ir. 1	26-F	4-19-38
State 4 Pr. 1		4-19-38
State A Fr. 1	33-4	4-19-38
State A Ir. 2 State A Ir. 2	4-J 11-I	4-19-33
	26-P	4-19-38
State A Ir. 2 State A Ir. 2		4-19-38
State A Ir. 3	29-0 3-11	<b>4-1</b> 9-38 <b>4-19-3</b> 8
	26-6	4-19-38
State A Tr. 3 State A Tr. 1	20-6 11/0	4-19-38
Degre H TTe T	TTV-0	

## APRIL 6, 1960

SHELL OIL COMPANY

28 wells

Neet at Shell Camp north of town on North Grimes at 7:30 a.m.

Berry	<b>1-</b> P	<b>31-13-3</b> 8
Berry	2 <b>-</b> J	<b>31-</b> 18-38
Berry	3 <b>-</b> I	31-18-38
Berry	<b>4-</b> 0	31-13-38
Eerry	6-7	<b>31–13–3</b> 8
Eerry	7 <b>-</b> J	31-13-33

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# SHELL OIL COMPANY (continued)

Grimes	1-1	28-18-38
Grimes	2-L	28-18-38
Grimes	<b>3-</b> K	28-13-38
Grimes	<b>4</b> -9	28-18-38
McKinley A	1-11	19-18-38
McKinley A	2-0	19-18-38
McKinley A	<b>3-</b> P	19-18-38
McKinley A	4-3	19-18-38
McKinley A	5-J	19-13-38
McKinley A	6-K	19-18-38
McKinley A	<b>7-</b> D	19-13-38
McKinley A	8-I	19-13-38
McKinley B	<b>1-</b> K	20-13-38
McKinley B	2-1	20-18-33
McKinley B	3-11	20-13-38
McKinley B	4-L	20-13-38
Sanger	1	27-18-33
Sanger	2-	27-18-33
-Sanger		
Sanger	<b>4-</b> 3	27-18-33
Sanger	5 <b>-</b> K	27-18-33
State A	<b>1-</b> G	32-18-38
1		_

# APRIL 7. 1960

SHELL CIL COLPANY

Neet at Rice Lease Well No. 1-P, Section 13-T185-E27E at 7:30 a.m.

	,	
Rice	1-	13-13-3*
R <b>ic</b> e	2-0	13-18-37
Rice	3-I	13-18-37
Rice	4-J	13-18-37
State A	<b>2-</b> G	32-18-72
State A	3-G	32-18-38
State A	<b>4</b> -H	32-18-33
State B	1-D	33-18-38
State B	2 <b>-</b> C	33-18-38
State D	1-F	24-13-37
State D	2-C	24-18-37
State F		23-13-37
State F	<b>3-</b> B	23-18-37
Thorpe	1-J	10-19-33
Turner	<b>1-</b> C ·	<b>34-18-3</b> 8
Turner	2 <b>-</b> B	34-18-33

WALKER OIL COMPANY

Meet at Terry Lease Well No. 1-0, Section 10-T19S-R38E at 3:00 p.m.

Terry	1-0	10-19-38
Terry	2-0	10-19-38

16 wells

2 wells

#### APRIL 11, 1960

#### W. K. Byrom

Meet at Bradley Lease Well No. 1, Section 6-T19S-R38E at 8:00 a.m.

		•
	1-I	6-19-38
	2-P	6-19-38
	5 <b>-</b> G	6-19-38
В	1-J	<u>6-19-38</u>
В	2-0	6-19-38
	<b>1–</b> B	36-18-37
	1C	8-19-38
	2-D	8-19-38
		2-P 5-G B 1-J B 2-0 1-B 1-C

#### ALBERT GACKLE, OPERATOR

Meet at Terry Well No. 1-A, Section 8-T19S-R38E at 1:15 p.m.

	Ter	ry	l-A	8-1.9-38			
ATLANTIC	REFINING	COMPANY		 	7	wells	a to assist provide a successive of

Meet at Bradley Lease Well No. 1-A, Section 6-T19S-R38E at 2:00 p.m.

Bradley	1-A	6-19-38
Eradley	2-A	6-19-38
Bradley	. <b>3-</b> В	6-19-33
Bradley	4 <b></b> H	6-19-78
Bradley	6B	6-19-38
Bradley	<b>7-</b> H	6-1938
Grines	1-0	20-18-38

#### APRIL 12, 1960

PAN AMERICAN PETROLEUM CORPORATION

Meet at Pan American Camp at 7:30 a.m.

W. S. Ca W. S. Ca W. S. Ca Leech NW State A State A State A	apps apps 1/15 Tr.5 Tr.5 Tr.5	1-A 8-B 26-H	3-19-38 3-19-38 3-19-38 15-19-38 9-19-38 9-19-38 9-19-38 9-19-38
State A		29-G	9-19-38
State A		11-C	9-19-38
State A	Tr.6	2/4-F	9-19-38
State A	•	8-D	10-19-38
State A		29-E	10-19-38
State A	Tr.8	24-N	10-19-38
State A	- •	29 <b>-</b> M	10-19-38
State A		36-N	10-19-38

28 wells

-

l well

8 well?

# PAH AMERICAN PETROLEUM CORPORATION (continued)

State A Tr.9	<b>1-</b> C	15-1
State A Tr.9	13-C	15-19-33
0.B. Terry	8-D	9-19-38
Terry Tr. 1	8-J	9-19-38
Terry Tr. 1	<b>11-</b> K	9-19-38
Terry Tr. 2	8-L	10-19-38
Terry Tr. 2	13-K	10-19-38
Terry Tr. 3	21-E	9-19-38
B. L. Thorp	7X-B	10-19-38
B. L. Thorp	11-0	10-19-38
B. L. Thorp	26 <b>-</b> F	10-19-38
B. L. Thorp	30X-G	10-19-38
Turner Tr. 1	<b>8-</b> D	34-18-38

#### APRIL 13, 1960

#### HUMBLE OIL AND REFINING COMPANY

21 wells

Meet at Humble Camp on Grimes at 7:30 a.m.

Bowers A	1-I	30-18-38
Bowers A	2-J	30-18-38
Bowers A	3 <b>-</b> M	29-18-38
Bowers A	4 <b>-</b> P	30-18-38
Bowers A	5 <b>-</b> I	30-18-38
Bowers A	6 <b>-</b> I	30-18-33
Bowers A	8-0	30-18-38
Bowers A	9 <b>-</b> E	29-18-38
Bowers A	10-L	29-18-38
Bowers A	13 <b>-</b> J	30-18-33
Bowers A	14-M	29-18-38
Bowers A	15 <b>-</b> P	30-18-38
Bowers A	16-0	30 <b>-18-</b> 38
Bowers B	1-D	29-18-38
W.D. Grimes	1-A	29 <b>-18-</b> 38
State A	1-I	25-18-37
State A	5-0	25-18-37
State A	6 <b>-</b> K	25-18-37
State A	7 <b>-</b> P	25-18-37
State A	8–J	25-18-37
State A	9-N	25-18-37

#### APRIL 14, 1960

#### CONTINENTAL OIL COMPANY

32 wells

Meet at Continental Office on North Turner at 7:30 a.m.

Grimes	1-0	28-18-38
Grimes	2 <b>-</b> P	28-18-38
Grimes	3 <b>-</b> J	28-18-38

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# CONTINENTAL OIL COMPANY (c. ntinued)

# APRIL 18, 1960

# C. H. SWEET OIL COMPANY

7 wells

2 wells

Meet at Grimes Lease Well No. 1, Section 20-T18S-R38E at 7:30 a.m.

Bowers B	2A-J	20-18-38
Bowers B	34 <b>-</b> P	20-18-38
W. D. Grimes	lA-I	20-18-38
W. D. Grimes	3A-I	20-18-38
State F	2A-H	2 <b>3-</b> 18-37
State F	3A-I	23-13-37
State F	4A-A	23-18-37

# MORRIS R. ANTWEIL, OPERATOR

Meet at McKinley Lease Well No, 1, Section 20-T18S-R38E at 10:00 a.m.

McKinley	1-G	20-18-38
McKinley	<b>2-</b> H	20-18-38

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# APRIL 18, 1960 (continued)

R. M. MORAN, OPERATOR

Meet at Hardin B Lease Well No. 1-E, Section 18-T18S-R38E at 1:15 p.m.

Hardin	В	1-E	18-18-38
Hardin	В	2-F	18-19-38
Hardin	В	3-D	18-18-33

#### MORAN OIL PRODUCING & DRILLING COMPANY

4 wells

3 wells

Meet at Rice Lease Well No. 1-H, Section 13-T18S-R37E at 2:30 p.m.

Rice	1-Н	13-18-37
Rice	<b>2-</b> G	13 <b>-</b> 18 <b>-</b> 37
Rice	3-A	13-18-37
Rice	<b>4–</b> B	13-18-37

#### APRIL 19, 1960

PAN AMERICAN PETROLEUM CORPORATION

23 wells

McKinley McKinley McKinley State A Tr. 4 State A Tr. 10 State A Tr. 10 State G State G State G State G State G State H State H State H State H State H State H State H State H State H State Tr. 1 Turner Tr. 2 Turner Tr. 2	1-C 6-D 26-F 29-E 8-L 11-K 21-M 24-N 23-P 26-P 1-E 2-F 3-F 2-F 3-D 29-E 8X-L 11-K 26-N	5-19-38 5-19-33 5-19-38 5-19-38 5-19-38 5-19-38 5-19-38 5-19-38 33-18-38 33-18-38 33-18-38 33-18-38 33-18-38 33-18-38 33-18-38 33-18-38 33-18-38 33-18-38 34-19-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38 34-18-38
	11-K	-
Turner Tr. 2	5-L	34-18-38

#### APRIL 20, 1960

CITIES SERVICE OIL COMPANY

Meet at Cities Service Camp, Hobbs, at 7:30 a.m.

15 wells

Fowler

l-A

31-18-39

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# CITIES SERVICE OIL COMPANY (continued)

# APRIL 21, 1960

TEXACO, INC.

9 wells

10 wells

-8-

Meet at the Texas Company south of Hobbs at 7:30 a.m.

McKinley	1-L	4-19-38
McKinley	2-I	5-19-33
MaKiniley	3 <b>-</b> M	4-19-38
McKinley	4P	5-19-35
Selman	l-J	<u>15-19-38</u>
Shave CDD & B	l-A	25-7.3-37
State CDD & B	2 <b>-</b> H	25-18-37
State CDD & B	3-G	25-18-37
State CDD & B	4 <b>-</b> B	25-18-37

# TEXAS PACIFIC COAL & OIL COMPANY

Meet at State G Lease Well No. 1-P, Section 24-18S-R37E at 11:00 a.m.

State G State G State G State G State V A State V A State V A	A/c-1	1-P 2-I 3-J 4-0 1-I 2-J 3-C	24-18-37 24-18-37 24-18-37 24-18-37 14-18-37 14-18-37 23-18-37
		·	
		1-I	141837
State V A	A/c-l	2-J	IL-13-37
State V 4	A/c-l	3-C	23-18-37
State V A	A/c-l	4–F	23-18-37
State V A	A/c-1	5-K	23-18-37
State V A	A/c-l	6-N	23-18-37

#### APRIL 25, 1960

SOCONY MOBIL OIL COMPANY, INC.

Meet at Berry Lease Well No. 1, Section 31-T18S-R38E at 7:30 a.m.

Berry	1-K	31-18-38
Berry	2–N	- 31-18-38
Berry	3-L	31-18-38
Berry	<b>4</b> M	31-18-38

#### SUNRAY MID-CONTINENT OIL COMPANY

4 wells

16 wells

wells

Meet at Fowler Lease Well No. 1-D, Section 31-T18S-R38E at 9:00 a.m.

Fowler	<b>1</b> -D	31-18-38
Fowler	4–E	31-18-38
Fowler C	2-D	31-18-38
Fowler C	3-E	31-18-38

#### APRIL 26, 1960

THE OHIO OIL COMPANY

Meet at Ohio Camp west of Hobbs at 8:00 a.m.

State 9 State 30 State 30 State 30 State 30 State 30 State 30 State 30 State 30 State 32 State 3	1-N 1-K 2-N 3-L 5-K 6-M 7-N 8-L 9-M 2-P 3-I 5-0 7-P 8-I	9-1.9-38 30-18-38 30-13-38 30-13-38 30-18-38 30-18-38 30-18-38 30-18-38 30-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38 32-18-38	

NEIL E. SALSICH, OPERATOR

2 wells

Meet at O. B. Terry Well No. 1, Section 8-T19S-R38E at 1:15 p.m.

0.	Β.	Terry		1-H	8-19-38
0.	Β.	Terry	В	1-L	9-19-38

#### APRIL 27, 1960

#### SKELLY OIL COMPANY

Meet at Skelly Grimes Camp west of Hobbs at 7:30 a.m.

Fowler	1-C	31-18-38
Fowler	2–F	31-18-38
Fowler	3–C	31-18-38
Fowler	4-F	31-18-38
Hobbs E	1-A	26 <b>-18-37</b>
Mexico U	1-B	8-19-38
Mexico U	<b>2–</b> G	8-19-38
McKinley	1-D	20-18-38
State A	1-M	17-18-38
Turner	1-F	34-18-38
Turner	2-C	34-18-38

#### SINCLAIR OIL AND GAS COMPANY

Meet at Sinclair Camp south of Hobbs at 1:30 p.m.

Crump	1-B	15-19-38
Crump	2-B	15-19-38
Grimes	1-E	28-18-38
Grines	2F	28-1.8-38
Grilles	3D	281338
Grimes	4-C	28-13-38
Selman	1-G	1 <i>5</i> -⊉938

#### APRIL 28, 1960

STANDARD OIL COMPANY OF TEXAS

7 wells

Meet at McKinley Well No. 1-F, Section 20-T18S-R38E at 7:30 a.m.

McKinley	1-F	20-18-38
McKinley	2-E	20-18-38
State 17	1-L	17-18-38
State 29	1-P	29-18-38
State 29	2-0	29-18-38
State 29	3-P	29 <u>-18</u> -38
State 29	4-0	29-18-38

#### SUN OIL COMPANY

Meet at Sun Oil Camp in Hobbs at 10:00 a.m.

McKinley	1-A	5-19-38
McKinley	2-Н	5-19-38
McKinley	<b>3-</b> B	5-19-38
McKinley	4–G	5-19-38
McKinley	5-B	5-19-38
McKinley	6-A	5-19-38

ll wells

-10-

7 wells

# APRIL 28, 1960 (continued)

#### SOUTHERN PETROLEUM EXPLORATION COMPANY

Meet at Morris A Well No. 1-0, Section 21-T18S-R38E at 1:15 p.m.

Morris	Α	1-0	21-18-38
Morris	В	1-P	21-18-38

#### YATES BROTHERS

3 wells

2 wells

-11-

Meet at Shell State Well No. 1-P, Section 23-T18S-R37E at 2:30 p.m.

Shell State	1-P	23-18-37
Shell State	2–J	23-18-37
Shell State	3-0	23-18-37

# MAY 2, 1960

SAMEDAN OIL CORPORATION

18 wells

Meet at Samedan Camp, North Grimes in Hobbs at 7:30 a.m.

#### MAY 3, 1960

GULF OIL CORPORATION

31 wells

Meet at W, D, Grimes B Well No. 1-I, Section 33-T18S-R39E at 7:30 a.m.

Graham State A	<b>1-</b> H	24-18-37
Graham State A	2-A	24-18-37
Graham State A	3 <b>-</b> G	24-18-37
Graham State A	4 <b>-</b> B	24-18-37

# GULF OIL CORPORATION (continued)

		00 10 00
W. D. Grimes A	1-D	32-18-38
-		32-18-38
W. D. Grimes A	3 <b>-</b> K	32-18-38
W. D. Grimes A	4-C	32-18-38
W. D. Grimes A	4-0 5-M	32-18-38
W. D. Grimes A	7-C	32-18-38
W. D. Grimes A	8-E	32-18-38
W. D. Grimes A	9-L	32-18-38
W. D. Grimes A	10-D	32-18-38
W. D. Grimes A	- 11-F	32-18-38
W. D. Grimes A	12-L	32-18-38
W. D. Grimes A	13-E	32-18-38
W. D. Grimes A	14-M	32-18-38
W. D. Grimes A	15-N	32-18-38
W. D. Grimes B	5B	33-18-38
W. D. Grimes B	6-I	33-18-38
W. D. Grimes C	1-M	21-18-38
W. D. Grimes C	2-N	21-18-38
W. D. Grimes C	3-L	21-18-38
Hardin	1-0	18-18-38
Hardin	2-P	18-18-38
Hardin	3-I	18-18-38
Hardin	4-G	18-18-38
Hardin	5-J	18-18-38
Hardin	6-н	18-18-38
J. R. Holt	1-C	<b>36-18-37</b>
		-
Lea State "FO"	l-N	14-17-37

# MAY 5, 1960

GULF OIL CORPORATION

4 wells

Meet at Grimes Well No. 1-I, Section 33-T18S-R38E at 7:30 a.m.

W.	D.	Grimes	В	l-I	33-18-38	
W.	D.	Grimes	В	2-H	33-18-38	
W.	D.	Grimes	B	3-B	33-18-38	• • ·
W.	$\mathtt{D}_{\bullet}$	Grimes	В	4-A	33-18-38	
	1				 	

# NEW MEXICO OIL CONSERVATION COMMISSION Post Office Box 2045 Hobbs, New Mexico

TO: ALL OPERATORS WITH WELLS IN THE HOBBS, BOWERS, BYERS-QUEEN GAS, AND HOBBS-DRINKARD POOLS.

SUBJECT: ANNUAL WITNESSED CASING LEAK SURVEY IN THE HOBBS AREA.

In accordance with the Secretary-Director's Memorandum No. 33-57, wells involved in the annual witnessed casing leak inspection shall be readied in the manner and on the dates as herein outlined.

- 1) All wells must be shutin for 24 hours before inspection is to be witnessed.
- 2) All cellars shall be dug in such a manner as to expose outlets of bradenheads from the first string of pipe cemented in the well and all subsequent heads to (and including) the tubing head, unless Form C-103 has been filed showing satisfactory connections below ground level and proper identification above ground level.
- 3) One opening from all bradenheads shall be connected to a second valve above the surface. This second valve must be closed in compliance with paragraph 1.
- 4) Operators shall furnish connections and personnel to assist in the opening of valves. Where possible, pressure gauges should be furnished to record pressures.
- 5) The Proration Manager shall be notified when wells fail to meet preparation requirements and such wells will be removed from the Proration Schedule. The loss of allowable will begin from the scheduled date of the inspection.
- 5) If unusual mechanical difficulties or workover operations make it impossible for wells to meet the time set forth on the Date-Time Schedule, tests may be re-scheduled after these wells are inspected by a Commission representative. The Commission shall be notified at least forty-eight hours prior to test time in the event such conditions should occur.
- 7) The Commission requests that company personnel be present at the time and place spelled out on the attached Date-Time Schedule. In every case, a Commission representative will meet company personnel as scheduled and proceed to inspect all wells in logical order. If the operator or his representative cannot be present, the Commission shall be notified in advance.
- For further information please contact Leslie Clements, Oil and Gas Inspector phone - EXpress 3-6161, Hobbs, New Mexico.

LACang Attachment: Date-Time Schedule

# DATE-TIME SCHEDULE

#### <u>APRIL 3, 1961</u>

#### SKELLY OIL COMPANY

Meet at Skelly Grimes Camp west of Hobbs at 7:30 a.m.

Fowler	1-C	31-18-38
Fowler	2-F	31-18-38
Fowler	3-C	31-18-38
Fowler	4-F.	31-18-38
Hobbs E	l-A	26-18-37
Mexico U	1-B	8-19-38
Mexico U	2-G	8-19-38
McKinley	1-D	20-18-38
State A	1-M	17-18-38
Turner	1-F ·	34-18-38
Turner	2-0	34-18-38

**1-B**:

2-B

1-E

2-F

3-D

4–C

1-G

15-19-38

15-19-38

28-18-38

28-18-38

28-18-38

28-18-38 15-19-38

#### SINCLAIR OIL AND GAS COMPANY

Meet at Sinclair Camp south of Hobbs at 1:30 p.m.

Tump		
Crump		
Grimes		
Grimes		
Grimes	1 No. Carlos das	
Frimes		
Selman		

# <u>APRIL 4, 1961</u>

#### PAN AMERICAN PETROLEUM CORPORATION

Meet at Pan American Camp south of Hobbs at 7:30 a.m.

Byers "A"	8-D	3-19-38
Byers "A"	11-C	3-19-38
Byers "A"	26-F	3-19-38
Byers "A"	29-E	3-19-38
Byers "B"	8-B	4-19-38
Byers "B"	ll-A	4-19-38
Byers "B"	26-H	4-19-38
Byers "B"	33-G	4-19-38
W. S. Capps	7X-J	3-19-38
W. S. Capps	8-L	3-19-38
W. S. Capps	10X-I	3-19-38
W. S. Capps	11-K	3-19-38
W. S. Capps	<b>30X</b> 0	3-19-38
McKinley	8-D	5-19-38
McKinley	12-C	5-19-38
McKinley	19-E	5-19-38
State A Tr.	1 8-D	4-19-38

•

27 wells

7 wells

ll wells

PAN AMERICAN PETROLEUM CORPORATION, (continued)

State State State State State State State State	A A A A A A A	Tr. Tr. Tr. Tr. Tr. Tr. Tr. Tr.	11222233	11-C 26-F 33-E 4-J 11-I 26-P 29-0 3-K 26-N	4-19-38 4-19-38 4-19-38 4-19-38 4-19-38 4-19-38 4-19-38 4-19-38 4-19-38
State		-		11X-C	4-19-38

# APRIL 5, 1961

#### SHELL OIL COMPANY

28 wells

Meet at Shell Camp north of Hobbs on North Grimes at 7:30 a.m.

_		~
Berry	1-P	31-18-38
Berry	2-J	31-18-38
Berry	3 <b>-</b> I	31-18-38
Berry	4-0	31-18-38
Berry	6-P	31-18-38
Berry	7-J	31-18-38
Grimes	1-M	28-18-38
Grimes	2-L	28-18-38
Grimes	3-K	28-18-38
Grimes	4-N	28-18-38
McKinley A	1-M	19-18-38
McKinley A	2-0	19-18-38
McKinley A	3-P	19-18-38
McKinley A	4-N	19-18-38
McKinley A	5-J	19-18-38
McKinley A	6K	19-18-38
McKinley A	7-L	19-18-38
McKinley A	8-I	19-18-38
McKinley B	1-K	20-18-38
McKinley B	2-N	20-18-38
McKinley B	3-M	20-18-38
McKinley B	4-L	20 <b>-18</b> -38
Sanger	1-M	27-18-38
Sanger	2-N	27-18-38
Sanger	3-L	27-1 <b>8</b> -38
Sanger	4-E	27-18-38
Sanger	5-K	27-18-38
State A	1-G	32-18-38

### APRIL 6, 1961

SHELL OIL COMPANY

16 wells

Meet at Shell Camp on North Grimes at 7:30 a.m.

# SHELL OIL COMPANY (continued)

Rice	1-P	13-18-37
Rice	2-0	13-18-37
Rice	3 <b>-</b> I	13-18-37
Rice	4-J	13-18-37
State A	2-G	32-18-38
State A	3-Н	32-18-38
State A	4-G	32-18-38
State B	1-D	33-18-38
State B	2-C	33-18-38
State D	1-F	24-18-37
State D	2-C	. 24-18-37
State F	2-G	23-18-37
State F	3-B	23-18-37
Thorpe	1-J	10-19-38
Turner	1-G	34-18-38
Turner	2 <b>-</b> B	34-18-38

#### WALKER OIL CORPORATION

Me it at Oil Conservati	on Commission	at 3 p.m.	(April 6,	1961)
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•		
Terry	1-0	10-19-38
Terry	2-0	10-19-38

#### APRIL 10, 1961

# SAMEDAN OIL CORPORATION

Meet at Samedan Camp on North Grimes at 7:30 a.m.

Byers	1-B	3-19-38
Byers	2G	3-19-38
Byers	3-A	3-19-38
Byers	4-H	3-29-38
Moon A	<b>1</b> -G	28-18-38
Moon A	2-B	2 <b>8-18-</b> 38
Moon B	l-H	28- <u>1</u> 8-38
Moon B	2-A	28-18-38
State B	1-F	25 <b>-28-</b> 37
State B	2-E	25-18-37
State C	l-N	24-18-37
State C	2-K	24-18-37
State C	3-L	24-18-37
State C	4-M	24-18-37
Turner A	1-J	34-18-38
Turner A	2-0	34-18-38
Turner B	<u>l-</u> I	34-18-38
Turner B	2-P	34-18-38

18 wells

# APRIL 11, 1961

# PAN AMERICAN PETROLEUM CORPORATION

Meet at Pan American Camp at 7:30 a.m.

W. S. Capps	26-N	3-19-38
W. S. Capps	27-P	3-19-38
W. S. Capps	31-M	3-19-38
Leech NW/15	24-F	15-19-38
State A Tr. 5	l-A	9-19-38
State A Tr. 5	<b>8</b> –B	9-19-38
State A Tr. 5	26-н	9-19-38
State A Tr. 5	29-G	9-19-38
State A Tr. 6	11-C	9-19-38
State A Tr. 6	24-F	9-19-38
State A Tr. 7	8-D	10-19-38
State A Tr. 7	29-E	10-19-38
State A Tr. 8	24-N	10-19-38
State A Tr. 8	29-M	10-19-38
State A Tr. 8	36-N	10-19-38
State A Tr. 9	1-C	15-19-38
State A Tr. 9	13-C	15-19-38
O. B. Terry	8-D	9-19-38
Terry Tr. 1	8-J	9-29-38
Terry Tr. 1	11-I	9-19-38
Terry Tr. 2	8-L	10-19-38
Terry Tr. 2	13-K	10-19-38
Terry Tr. 3	21-E	9-19-38
B. L. Thorp	7X-B	10-19-38
B. L. Thorp	11-C	10-19-38
B. L. Thorp	26-F	10-19-38
B. L. Thorp	30X-G	10-19-38
Turner Tr. 1	8-D	34-18-38

# APRIL 12, 1961

# TIDEWATER OIL COMPANY & GETTY OIL COMPANY

Meet at Tidewater Camp in Hobbs at 7:30 a.m.

#### 28 wells

#### TIDEWATER OIL COMPANY & GETTY OIL COMPANY (continued)

McKinley	6–G	30-18-38
McKinley	7-B	30-18-38
State B	1-H	14-18-37
State B	2-G	14-18-37

#### APRIL 13, 1961

#### THE OHIO OIL COMPANY

Meet at Ohio Camp west of Hobbs at 7:30 a.m.

9=19-38 State 9 1-N State 30 l-X 30-18-98 State 30 2-N 30-38-38 State 30 3-L 30-18-38 State 30 5-K 30=18-38 State 30 6-M 50-18-38 State 30 7-N 30-18-38 State 30 8--L 30-18-38 State 30 9--M 30**⇒18**–38 State 32 2-P 32-18-38 State 32 3-I 32-18-38 32-18-38 State 32 4-J State 32 5-0 32-18-38 State 32 6-0 32-18-38 State 32 32-18-38 7-P 32-18-38 State 32 8-I

<u>APRIL 17, 1961</u>

#### AMERADA PETROLEUM CORPORATION

Meet at Hardin Well No. 1-M, Section 18-T18S-R38E at T830 a.m.

Hardin Hardin Hardin Hardin B McKinley McKinley McKinley McKinley McKinley B McKinley B State A State A State A State B State B	1-M 2-N 3-L 5-K 4-N 1-D 2-F 3-C 4-E 5-F 6-C 1-B 2-A 3-B 1-F 2-G	18-18-38 $18-18-38$ $18-18-38$ $18-18-38$ $30-18-38$ $30-18-38$ $30-18-38$ $30-18-38$ $30-18-38$ $30-18-38$ $30-18-38$ $30-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$ $32-18-38$
State B State B State B	- ≟=r 2=G 3-B	29-18-38 29-18-38 29-18-38
State B	4-C	29-18-38

16 wells

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ERADA	PETROLEUM COR	POI	RATI	<u>ON</u> , (continu	ed)	
·• ··	مىلەمەمە ، ، ، مە ب		,		,	er after Frederik - 10 's Systematics, 123' 5'
	State	B	•	5-G	29	-18-38
	State	В		6-F	29	-18-38
	State	С		l—A	36	-18-37
	State	С	• •	2-H		-18-37 -
	State	С		3-G	36	-18-37
	State	E		1-E		-18-37
	State	Е		2-D	24	-18-37
	State	WH	u Bu	1-0	14	-18-37
	State	WH	11 Bii	2 <b>-</b> K	14	-18-37
	State	WH	u Cu	1-I		-19-38
					· · · · ·	

#### APRIL 18, 1961

AMI

#### PAN AMERICAN PETROLEUM CORPORATION

Meet at Pan American Camp at 7:30 a.m.

McKinley	1-C	5-19-38
McKinley	6-D	5-19-38
McKinley	26-F	5-19-38
McKinley	29-E	5-19-38
State A Tr. 4	8-L	5-19-38
State A Tr. 4	11-K	5-19-38
State A Tr. 4	21 <b>-M</b>	5-19-38
State A Tr. 4	24-N	5-19-38
State A Tr. 10	23-P	33-18-38
State A Tr. 10	26-P	33-18-38
State G	1-E	33-18-38
State G	2-F	33-18-38
State G	3-F	33-18-38
State G	4-E	33-18-38
State H	1-0	6-19-38
State H	2-F	6-19-38
State H	3-D	6-19-38
Turner Tr. 1	29 <b>-</b> E	34-18-38
Turner Tr. 2	8X-L	34-18-38
Turner Tr. 2	<u>11-K</u>	34-18-38
Turner Tr. 2	26-N	34-18-38
Turner Tr. 2	29-M	34-18-38
Turner Tr. 2	5-L	34-18-38

#### APRIL 19, 1961

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# HUMBLE OIL AND REFINING COMPANY

Meet at Humble Camp on Grimes at 7:30 a.m.

Bowers A	1-I	30-18-38
Bowers A	2-J	30-18-38
Bowers A	3-M	29-18-38
Bowers A	4-P	30-18-38
Bowers A	5-I	30-18-38

23 wells

HUMBLE OIL AND REFINING COMPANY, (continued)

a and a second and the second second second second and a second second second second second second second second		ما بالمراجع ومعظم معالم معالم معالم المحفظ المعالم المحفظ المعالية المعالمة المعالمة المعالمة المعالمة المعالم	د. بېردەمجىنىتو مەر-ئىلىمجمەنىدە بېزىچىرە
Bowers A	6-I	Tanana an a	30-18-38
Bowers A	8-0	مور در دار ار مو وی و وست. دارد از از از مانو بوسان . هما از میروشانان از از ۱	30-18-38
Bowers A	9-E		29-18-38
Bowers A	10-L	and a second and a s Second and a second a	29-18-38
Bowers A	13-J		30-18-38
Bowers A	14-M	<u> </u>	29-18-38
Bowers A	15-P		30-18-38
Bowers A	16-0	, · · · · · · · · · · · · · · · · · · ·	30-18-38
Bowers B	1-D		29-18-38
W. D. Grimes	l-A		29-18-38
State A	1-I	- · · •	25-18-37
State A	5-0		25-18-37
State A	6-K		25-18-37
State A	7-P		25 <b>-18</b> -37
State A	8–J		25-18-37
State A	9-N		25-18-37

#### APRIL 20, 1961

#### W. K. BYROM

Meet at Bradley Well No. 1-I, Section 6-T19S-R38E at 8 a.m.

Bradley	1-I	6-19-38
Bradley	2-P	6-19-38
Bradley	5-G	6-19-38
Bradley	1-J	6-19-38
Bradley B	2-0	6-19-38
Holt	1-B	36-18-37
Orcutt	1-0	8-19-38
Orcutt	2-D	8-19-38

l-A

ALBERT GACKLE, OPERATOR

Meet at Terry Well No. 1-A, Section 8-T19S-R38E at 1:15 p.m.

Terry

## THE ATLANTIC REFINING COMPANY

Meet at Bradley Well No. 1-A, Section 6-T19S-R38E at 2:00 p.m.

	· · · · · · · · · · · · · · · · · · ·		· · · · ·	
Bradley	1-A	6-19-38		•
Bradley	2-A	6-19-38		· · · ·
Bradley	3-B	6-19-38		• • •
Bradley	4-H	6-19-38		
Bradley	6-B	6-19-38		
Bradley	7-н	6-19-38		
Grimes	1-0	20-18-38		

8-19-38

8 wells

l well

#### APRIL 24, 1961

#### C. H. SWEET OIL COMPANY

Meet at Grimes Well No. 1A-I, Section 20-T18S-R38E at 7:30 a.m.

Bowers B	2A-J	20-18-38
Bowers B	3A-P	20-18-38
W. D. Grimes	lA-I	20-18-38
W. D. Grimes	3A-I	20-18-38
McKinley	2-H	20-18-38
State F	2A-H	23-18-37
State F	3A-I	23-18-37
State F	4A-A	23-18-37

#### R. M. MORAN

Meet at Hardin B Well No. 1-E, Section 18-T18S-R38E at 1:15 p.m.

Hardin	В	1-E	18-18-38
Hardin	В	2-F	18-18-38
Hardin	В	3-D	18-18-38
Hardin	В	4-C	18-18-38

#### MORAN OIL PRODUCING AND DRILLING COMPANY

Meet at Rice Well No. 1-H, Section 13-T18S-R37E at 2:30 p.m.

Rice	1-H	13-18-37
Rice	2-G	13-18-37
Rice	3 <b>-</b> Å	13-18-37
Rice	4-B	13-18-37

#### APRIL 25, 1961

#### CITIES SERVICE PETROLEUM COMPANY

Meet at Cities Service Camp, Hobbs, at 7:30 a.m.

14 wells

4 wells

4 wells

8 wells

#### APRIL 26, 1961

#### TEXACO INC.

Meet at TEXACO south of Hobbs at 7:30 a.m.

McKinley	1-L	4-19-38
McKinley	2-I	5-19-38
McKinley	3-M	4-19-38
McKinley	4-P	5-19-38
Selman	l-J	15-19-38
State CDD & B	l-A	25-18-37
State CDD & B	2-H	25-18-37
State CDD & B	3-G	25-18-37
State CDD & B	<b>4</b> –B	25-18-37

#### TEXAS PACIFIC COAL AND OIL COMPANY

Meet at State G Well No. 1-P, Section 24-T18S-R37E at 1:15 p.m.

State G	1-P	24-18-37
State G	2-I	24-1 <b>8-</b> 37
State G	3-J	24-18-37
State G	4-0	24-18-37
State V A/c-1	1-I	14-18-37
State V A/c-l	2-J	14-18-37
State V A/c-2	3-C	23-18-37
State V A/c-2	4-F	23-18-37
State V A/c-2	5-K	23-18-37
State V A/c-2	6-N	23-18-37

# APRIL 27, 1961

SOCONT MOBIL OIL COMPANY, INC.

Meet at Berry Well No. 1-K, Section 31-T18S-R38E at 7:30 a.m.

Berry	1-K	31-18-38
Berry Berry	2-N 3-L	31-18-38 31-18-38
Berry	4–M	31-18-38

#### SUNRAY MID-CONTINENT OIL COMPANY

Mest at Powler Well No. 1-D, Section 31-T18S-R38E at 9:00 a.m.

Fowler	1-D	31-18-38
Fowler	4-E	<u>31-18-38</u>
Fowler C	2-D	31-18-38
Fowler C	3-E	31-18-38

4 wells.



#### 9 wells

# <u>APRIL 27, 1961</u> (continued)

#### NEIL E. SALSICH

Meet at O. B. Terry Well No. 1-H, Section 8-T19S-R38E at 1:15 p.m.

0.	B。	Terry	1-H	8-19-38
0.	B.	Terry A	1-L	9-19-38

# BYARD BENNETT

l well

Meet at Gulf State Well No. 1-B, Section 26-T18S-R37E at 2:30 p.m.

Gulf State 1-B 26-18-37

# MAT 1, 1961

#### CONTINENTAL OIL COMPANY

Meet at Continental Office on North Turner at 7:30 a.m.

1-0	28-18-38
2-P	28-18-38
3-J	28-18-38
4-I	28-18-38
5-0	28-18-38
6-K	28-18-38
1-J	5-19-38
2-0	1-19-38
<b>1</b> -J	29-18-38
2-N	29-18-38
3-K	29-18-38
4-J	29-28-38
5-K	29-18-38
6-N	29-18-38
1-M	3 <b>3-18-38</b>
2-L	3-18-38
3 <b>-</b> K	33-18-38
4–J	33-18-38
5-0	33-18-38
6-N	33-28-38
7-G	33- <b>18-38</b>
8-L	33-18-38
9 <b></b> M	33-18-38
10-K	33-38-38
11-G	33-18-38
<u>]</u> N	13-18-37
2.∞M	13-18-37
4-F	13-18-37
5-E	13=18-37
6-0	13-1 <b>8</b> -37
1-0	25-18-37
2-D	25-28-37
	2-P 3-J 4-I 5-0 6-K 1-J 2-0 1-J 2-N 3-K 4-J 5-K 6-N 1-M 2-L 3-K 4-J 5-K 6-N 1-M 2-L 3-K 4-J 5-C 8-L 9-M 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10-K 10

# 32 wells

# GULF OIL CORPORATION

Meet	at	W.	D	Br
11000	<b>a</b> v	** 0	•••	<b>1</b> 21

imes B Well No. 1-I, Section 33-T18S-R38E at 7:30 a.m.

Graham State	A 1-H	24-18-37	• • •	
Graham State		24-18-37	·····	
Graham State		24-18-37	4 4 4 4 5 4	
Graham State	-	24-18-37		
W. D. Grimes	-	32-18-38	· .	
W. D. Grimes		32-18-38		تشييس في ما يور الله
W. D. Grimes	A 3-K	32-18-38	· · · · ·	an a
W. D. Grimes	A 4,⊸C	32-18-38		
W. D. Grimes	A 5-M	32-18-38	÷	
W. D. Grimes	A 7-C	32-18-38		
W. D. Grimes	A 8-E	32-18-38		· .
W. D. Grimes	A 9L	32-18-38		
W. D. Grimes	A 10-D	32-18-38		. · · · · ·
W. D. Grimes		32-28-38		
W. D. Grimes	A 12-L	32-18-38		
W. D. Grimes	A 13-E	32-18-38		· · ·
W. D. Grimes		32-18-38		
W. D. Grimes	-	32-18-38		
W. D. Grimes		33-18-38		
W. D. Grimes		33-18- <i>3</i> 8		
W. D. Grimes		33-18-38		
W. D. Grimes	•	33-18=38		
W. D. Grimes	•	33-18-38		• •
W. D. Grimes		33-28-38		
W. D. Grimes		21-18-38		
W. D. Grimes		21-18-38		
W. D. Grimes	-	21-18-38		
Hardin	1-0	<u>]8-</u> ]8_]8		
Hardin Hardin	2-P	<b>18-18-38</b> 18- <u>1</u> 8-38		
Hardin	3-I 4-G	10-10-30 18-18-38		
Hardin	4-0 5-J	18-18-38		·
Hardin	5-0 6-Н	18-18-38		
Hardin	7⊸B	18-18438	•	•
J. R. Holt	1-C	36-18-37		1
Lea State "FO		14-17-37		
	—			

# MAY 3. 1961

# STANDARD OIL COMPANY OF TEXAS

Meet at McKinley Well No. 1-F, Section 20-T18S-R38E at 7:30 a.m.

McKinley	1-F	20-18-38
McKinley	2-E	20-18-38
State 17	]-L	17-18-38
State 29	1-P	29-18-38
State 29	2-0	29-18-38
State 29	3-P	29-18-38
State 29	4-0	29-18-38

7 wells

# -11-

# MAY 3, 1961 (continued)

#### SUN OIL COMPANY

Meetat Sun Oil Camp in Hobbs at 10:00 a.m.

McKinley	1-A	5-19-38
McKinley	<b>2-</b> H	5-19-38
McKinley	3–B	5-19-38
McKinley	<b>4</b> –G	5-19-38
McKinley	5-B	5-19-38
McKinley	6-A	5-19-38

#### SOUTHERN PETROLEUM EXPLORATION COMPANY

Meet at Morris A Well No. 1-0, Section 21-T18S-R38E at 1:15 p.m.

Morris	A	1-0	21-18-38
Morris	В	1-P	21-18-38

#### JOHN A. YATES

Meet at Shell State Well No. 1-P, Section 23-T18S-R37E at 2:30 p.m.

Shell State	1-P	23-18-37
Shell State	2-J	23-18-37
Shell State	3-0	23-18-37

#### <u>MAY 4, 1961</u>

RICE ENGINEERING AND OPERATING, INC.

Meet at NMOCC, Hobbs, at 8:00 a.m.

Hobbs	15E	15-19-38
Hobbs	25P	25-18-37
Hobbs	29-F	29-18-38

#### NEVILLE G. PENROSE, INC.

#### l well

3 wells

Meet at Stanolind State "A" Well No. 1-P, Section 14-T18S-R37E at 10:00 a.m.

Stanolind State "A" 1-P

14-18-37

2 wells

3 wells

#### NEW MEXICO OIL CONSERVATION COMMISSION

# P. O. BOX 2045

#### HOBBS, NEW MEXICO

#### NOTICE

TO: All Hobbs Pool Area Operators

SUBJECT: Casing Leak Survey

You are hereby reminded that the Directors Memorandum No. 33-57, requires that a quarterly casing leak survey be conducted, and that the results of the first test are to be filed by April 15, 1958. This information is to be filed on the enclosed form. Additional copies can be obtained at the Hobbs District office.

The second quarterly test will be witnessed by Commission personnel.

A detailed schedule will be distributed on or about March 1, 1958. A company desiring any special consideration insofar as it pertains to the mechanics of the scheduling, contact Mr. Eric Engbrecht.

Date sent out January 22, 1958

#### P. O. BOX 2045

#### HOBBS, NEW MEXICO

To: All operators in the Hobbs, Bowers, Byers Queen Gas and Hobbs Drinkard Pools.

In accordance with the memorandum issued by the District Engineer pertaining to casing pressure tests in the above-named pools, the following wells will be readied for an annual inspection in the manner and on the date as herein outlined.

- 1. All wells must be shut in 24 hours before inspection will be witnessed
- 2. All cellars will be dug in a manner to expose the outlets of all bradenheads from the first string of pipe cemented in the well and to expose all subsequent heads to and including the tubing head, unless a C-103 has been filed, indicating satisfactory connections below the ground level and with proper identification above ground level.
- 3. One opening from all bradenheads will be connected above the surface of the ground with a second valve. The second valve must be closed in compliance with paragraph number one.
- 4. The operator must furnish connections and personnel who will assist in the opening of valves. Pressure gauges to record pressures should also be furnished, if possible.
- 5. The Proration Manager will be notified of a well that has failed to meet the requirement of preparation as outlined on the date-time schedule, and such well will be immediately removed from the proration schedule. The loss of allowable will begin from the date of the bradenhead inspection of the well.
- 6. If, due to unusual mechanical difficulties or workover operations, a particular well cannot be made ready at the time set forth on the schedule, its test date may be delayed after inspection of the conditions by the Commission representative. The Commission should be notified at least 48 hours prior to test time for well or wells that require such delays.
- 7. The Commission expects company personnel to be present at the meeting place on the date and time indicated on the attached schedule. If for any reason the operator or his representative cannot be present, the Commission must be notified in advance.

In every case, the Commission representative will meet the company personnel at the place and time shown on the schedule and proceed to all listed wells in logical order.

8. For further information or questions, please contact Eric Engbrecht, Express 3-6161, Hobbs, New Mexico.

Following is a tabulation of the time-date schedule of the wells to be tested in the annual witnessed survey.

# Date-April 1, 1958

Operator-AMERADA	PETROLEUM	CORP-Meet	at	Hardin	#1-M,	18-18-38	at 7	7:30	A.M.
		25 W							

Hardin		1-M	18-18-38	
11		2-N	11	
Ħ		3L	11	
Hardin B	;	4N	18-18-36	
McKinley		1-D	30-18-38	
IT T		2F	11	
18		3-C	11	
11		4-E	11	
tt.		5-F	11	
tt		-	. 11	
State A		1-B	32-18-38	
11		2 <b>-</b> A	51	
n		<b>3-</b> B	32-18-38	(Status)
State B		1-F	29-18-38	
11		2 <b>-</b> G	n	
n		3-B	1 <b>j</b>	
п		4-C	11	
11		5-G	11	
11		6-F	12	
State C		1-A	36-18-37	
11		2H	11	
11		3-G	11	
State E		1-C	24-18-37	
11		2-0	11	
State WH	uВu	ĩ0	14-18-37	

Date-April 2, 1958

Operator-<u>Tidevater & Getty Oil Co</u>.-Meet at Tidewater Camp at Hobbs at 7:30 A.M. 15 wells

Grimes	1 <b>-</b> I	29-18-38
12	3 <b>-</b> I	11
11	4H	11
Hardin	l-G	19-18-38
11	2 <b>-</b> H	11
11	<b>3-</b> B	17
n	<b>4-</b> A	11
McKinley	1-G	30-18-38
11	2-Н	18
n	3-н	H.
17	4 <b>-</b> B	11
11	5 <b>-</b> A	H.
11	6-G	· 11
α	7 <b>-</b> B	ŧ
State B	1-H	14-18-37

#### Date-April 3 1958

Operator- <u>CONTI</u>	VENTAL OIL C	<u>O-Meet at Continent</u> 32 wells	al Office	on N.	Turner	at	7:30	A.M
Grimes	1-0	28-18-38	• •	.*	,			
1	2P	11						
1	3⊶J	·				-		
ŧ.	4I	11						
1	5-0	" (Status)						
1	6-K	" (Status)						
State A-5	1-J	5-19-38						
1	2-0	n						
State A-29	1 <b>-</b> J	29-19-38						
t ·	2-N	11	,					
1	3-К	11						
1	4-J	17						
1	5-K	11						
1	6-N	17						
State A-33	1-M	33-18-38						
1	2-L	39						
1	<b>3-</b> K	11						
1	<b>4</b> -J	11						
t	5-0	18						
t	6-N	,1 <b>1</b>						
1 .	7_ <sup>G</sup>	17						
1	9 <b>-</b> M	11						•
I	10-K	11						
1	11-G	12						
State B-13	<b>1-</b> N	13-18-37						
1	<b>2-</b> M	n						
t	4 <b>-</b> F	11						
1	5E	11						
1	6C	11						
State B-25	1C	25-18-37						
1	2 <b>-</b> D	11						
State A-33	<b>I_</b> .3	33 <b>-</b> 18 <b>-</b> 38						

# Date-April 7, 1958

Operator-<u>SHELL OIL COMPANY</u>-Meet at McKinley A #1-M, 19-18-38 at 7:30 A. M. 28 wells

Berry "	1-P 2-J	31-18-38 3 <b>1-</b> 18-38
11	3 <b>-</b> I	1.
11	4-0	11
11	6-P	11
11	7-J	H
Grimes	1M	28-13-38
n ·	2~L	0
13	3-К	11
11	4N	11
McKinley A	1-M	19-18-38
n	2-0	13
u .	<b>3-</b> P	11

(2)

# SHELL OIL COMPANY, CONTINUED

مريوسي ومعهد				
McKinley A	<b>Δ-</b> Ν	19-18-38		
n	5 <b>-</b> J	n		
11	6 <b>-</b> K			and a second second The second s The second
11	7-D	II	nadice of Second and the second second relation with the second second second second second second second second	
11	8-I	0		and and a state of the second se
McKinley B	<b>1-</b> K	20-18-33		منابعات المحمود في المرابع المحمود المرابع المرابع المحمود المرابع المرابع المرابع المرابع المرابع المرابع الم
H 1 1	2-N	II III	an alan ang ang ang ang ang ang ang ang ang a	and an and a second
n .	3∞M	n		
11	2-11 4-L	1		
Sanger	1-M	27-18-38		
11	2-N	II Contraction of the second se	X	
11	3-L	N		· · · · ·
11	4-E	II		a said an a
11	5-K	1)	•	
State A	1-G	32-18-38		• • • •

Date-April 8, 1958

Operator-<u>PAN AMERICAN OIL CORP</u>-Meet at Pan American Camp South of Hobbs at 7:30AM 28 wells

Byers NW/3	8-D 11-C	3-19-38	-		•	:
11	26-F	ุท	· ·			
	29-E	.11	·.			
Byers NE/4	8-B	4 <b>-</b> 19 <b>-</b> 38				
11	11-A 26-H	11 × /				
11	20-11 33 <b>-</b> G	11				
Capps SE/3	7XJ	3-19-38				
n N	loxj	11				
	30X0	12 12				
Capps SW/3 "	8-L 11-K	11				
McKinley	8-D	5-19-38				
11	12-C	11				
	19 <b>-</b> E	11				
State A "1" "	8-D 11-C	4 <b>-</b> 19 <b>-</b> 38 "				
tt	26 <b>-</b> F	11				·····
tt	33 <b>-</b> E	11				
State A "2"	4-J	12	Ľ			
11 11	11-I	17 11		**		· -
11	26 <b>-</b> P 29 <b>-</b> 0	11 11			···· •• •	
State A "3"	<b>3-</b> К	11		·· ·		
11	26 <b>-</b> N	11				- A WA
State A Tr. 1 "D"		11 11 m./∧				
	7-D	" Т/А				

(3)

# Date-April 9, 1958

Operator-HUMBLE	OIL & RFG.	<u>CO.</u> -Meet at	Humble	Camp	on	<sup>G</sup> rimes	at 7	7:30	A M	
	and the second second	21 wells	in a second s	95 3 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	. ara	n in see a start of the second sec				- <b>1</b> 11 - 2
Bowers A	1-I 2-J	30-18-38				الله المراجعة المراجع المراجعة المراجعة الم مراجعة المراجعة المراج				•
1) 17	3-M 4-P	" 29-18-38 30-18-38								
87 13 18	5-I 6-I 8-0							· .	····	-
57 17	9-E 10-L	29 <b>-</b> 18-38 "		•						• •
# #	12-l 13-j 14-m	" 30-18-38 29-18-38		·				•		
" " Bower B	15 <b>-</b> P 16-0	30 <b>-</b> 18-38 "		-					• •	
Grimes State A	1-D 1-A 1-I	29-18-38 " 25-18-37	• • • •					-	. <del></del>	
ll H ·	5-0 6-K	ע-בט-גע וו וו	<del>.</del>				•			
11 18	7-P 2-P	17 17								

# Date-April 10, 1958

Operator-<u>SHELL OIL COMPANY</u>-Meet at Rice #1-P, 13-18-37 at 7:30 A. M. 17 wells

Rice	<b>1-</b> P	13-18-37
11	2-0	
11	2-0 3 <b>-</b> 1	1
11		
<b>a</b>	<b>4-</b> J	tt
State A	<b>2-</b> G	32-18-37
11	<b>3-</b> C	32-18-38
11	<b>4-</b> H	
State B	1-D	33-18-38
11	2-C	JJ-10-J0 ∥
State D	2-0 1-F	0/ 10 om
1		. 24-18-37
	2 <b>-</b> C	N
State F	1	23-18-37
11	2-G	U
11	<b>3-</b> B	
Thorp	1-J	10_10.20
Turner		19-19-38
	<b>1-</b> G	34-18-38
11	2 <b>-</b> B	34-18-37

(4)

Date-April 10, 1958

Operator-WALKER OIL CO.-Meet at Terry #1-0, 10-19-38 at 3:00 P.M. 2 wells

Terry	1-0		10-19-38
Terry	2-0	. *	11

Date-April 14, 1958

Operator-W. K. BYROM-Meet at Bradley #1, 6-19-38 at 8:00 A.M. 8 wells

Bradley	1-I	6-19-38
11	2-P	n
11	5G	11
Bradley B	1-J	n
11	2-0	11
Holt	<b>1-</b> B	<b>36-183</b> 7
Orcutt	1-C	8-19-38
tt -	2 <b>-</b> Ð	11

Date-April 14, 1958

Operator-<u>ALBERT GACKLE</u>-Meet at Terry #1-A, 8-19-38 at 1:15 P.M. 1 well

Terry 1-A 8-19-38

Date-April 14, 1958

Operator-ATLANTIC RFG. CO.-Meet at Bradley #1-A, 6-19-38 at 2:00 P.M. 7 wells

Bradley	1 <b>-</b> A	6-19-38
11	2 <b>-</b> A	Ħ
11	3 <b>-</b> B	13
11	4 <b>-</b> H	n
11	6 <b>-</b> B	11
11	7 <b>-</b> H	11
Grimes	1-0	20-13-38

Date-April 15, 1958

Operator-<u>PAN AMERICAN PET. CORP.</u>-Meet at Pan American Camp at 7:30 A.M. 28 wells

Capps	sw/3	26 <b>-</b> N	<b>3-19-</b> 38
Capps		27-P	11
11		31 <b>-</b> M	If

PAN AMERICAN PET.	CORP.	CONTINUED
Leech State A "5" "	24-F 1-A 8-B	151938 91938 11
11	26-H 29-G	rt TJ
State A "6"	11-C 24-F	11
State A "7"	. 8⊷D 29∞E	101938 "
State A "8" "	24N 36- <b>N</b>	11 11
n State A "9"	29-M 1-C	" 15-19-38
n Terry	13AC 8-D	" 9 <b>-</b> 19 <b>-</b> 38
Terry "]"	8-J 11-K	11 11
Terry "2"	8-L 13-K	10-19-38 "
Terry "3" Thorp	21-E 7XB	9 <b>-</b> 1938 10 <b>-</b> 1938
11 11 11 11 11 11	11-C 26-F	11 11
11	30XG	n
Turner "1"	8-D	341838

Date-April 16, 1958

Operator-<u>CITIES SERVICE OIL CO.</u>-Meet at Cities Service Camp at Hobbs at 7:30 A.M. 12 wells

Date-April 17, 1958

Operator-<u>THE TEXAS COMPANY</u>-Meet at Texas Company South of Hobbs at 7:30 A.M. 9 wells

McKinley	2I	5-19-38
n	1- <del>1</del>	4-19-38

THE TEXAS COMPANY, CONTINUED

McKinley	3-M	4
n	4-P	5-19-38
Selman	1-J	15-19-38
State CDD & B	1A	25-18-37
n	2H	11
11	3-G	11
11	4-B	ก่

Date-April 17, 1958

Operator-TEXAS PACIFIC COAL & OIL CO.-Meet at State "G" #1-P, 24-18-37 at 11:00AM 5 wells

State G	<b>1-</b> P	24-18-37
11	2I	11
n	3-J	11
11	4-0	11
State V Ac/1	1-I	14~18~37

Date-April 17, 1958

Operator-C. H. SWEET-Meet at Grimes #1, 20-18-38 at 1:15 P.M. 10 wells

Federal Bowers	l	20-18-38
Fed. Bowers B	2AJ	11
11	3	11
11	3AP	11
Grimes	1	77
ŧf	3A-I	17
State F	1-A	23-18-37
11	2 <b>-</b> H	11
11	3-I	11
17	4-A	11

Date-April 21, 1958

Operator-MORRIS R. ANTWEIL-Meet at McKinley #1-G, 20-18-38 at 8:00 A. M. 2 wells

Date-April 21, 1958

Operator-<u>R. M. MORAN</u>-Meet at Hardin B #1-E, 18-18-38 at 9:00 A. M.- 1 well Hardin B 1-E 18-18-38 Date-April 21, 1958

Operator-MORAN OIL FRODUCING & DRILLING CO .- Meet at Rice #1-H, 13-18-37 at 9:30AM

4 wells

Rice	1-H	13-18-37
11	2-G	11
11	3-A	n
11	4-B	11

Date-April 21, 1958

Operator-<u>MAPENZA OIL CORP.</u>-Meet at Stanolind State #1A-P, 14-18-37 at 11:00 A.M. 1 well

Stanolind State 1A-P 14-18-37

Date-April 21, 1958

Operator-MAGNOLIA PET. CO.-Meet at Berry #1, 31-18-38 at 1:15 P.M. 4 wells

Berry	1K	31-18-38
tr	2N	11
11	3∞Ľ	R
11	<b>4-</b> M	11

Date-April 21, 1958

Operator-<u>SUNRAY MID-CONTINENT OIL CO.</u>-Meet at Fowler #1-D, 31-18-38 at 2:30 P.M. 4 wells

Fowler	1 <b>-</b> D	31-18-38
11	4 <b>-</b> E	11
Fowler C	<b>2-</b> D	18
11	3 <b></b> E	17

Date-April 22, 1958

Operator-<u>PAN AMERICAN PET. CORP.-M</u>eet at Pan American Camp at Hobbs at 7:30 A.M. 23 wells

McKinley	1C	5-1938
lt -	6-D	tt
It	26-F	11
11	29-E	11
State A "4"	8-L	11
11	<b>11-</b> K	11
n	18 <b>-</b> K	11

# PAN AMERICAN PET. CORP., CONTINUED

State A "4" 2	-M 5-19-38				
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DatesApril 23, 1958

Operator-<u>OHIC OIL COMPANY-Meet at Ohio Camp West of Hobbs at 8:00 A.M.</u> 15 wells

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State 30	1K	30 <b>-18-38</b>	· '.
11	2-N	II	
11	3- <b>L</b>	<b>11</b>	
11	5K	11	
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11	<b>2-</b> P	H ···	
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11	7-P	n	
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Data-April 24, 1958

Operator-STAND	ARD OIL CO. (	F TEXAS-Meet at McKinley #1-F, 20-18-38 at 7:30 A.M. 7 wells
		/ WEITZ
McKinley	<b>1-</b> F	20-18-38
11	2E	n -
State 17	l-L	1718-38
State	1P	29-18-38
11	2-0	n
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Date-\_April 24, 1958

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	C	wells		n na standar anna 1999. An Sanairtí Anna Anna Anna An Sanairtí Anna Anna Anna S	i i i i i i i i i i i i i i i i i i i
McKinley	1 <b>-</b> A	5-19-38			· · ·
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<b>H</b>	3 <b>-</b> B	n <u>n</u>			ւարաս արտանություն համանակություն։ Հայաստանություն համանակություն է է
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11	4–ч 5 <b>–</b> В	17		•.	
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Date-April 24, 19	958	•			1
Operator-SOUTHERN	PET. EXF	<u>L. COMeet at Mor</u>	ris A #1-0, 21-1	8-38 at 1:1:	5 P.M.
		2 wells		· .	· · ·
Morris A	1-0	21-18-38			
Morris B	<b>1</b> -P	≈±÷40-90 11			
Date-April 24, 19	58				
······································					
Operator-YATES BR	OTHERS-Me	et at Shell State	#1-P. 23-18-37 a	t 2.30 P M	
	3	wells			
,	•				
Shell State	1 <b>-</b> P	23-18-37			
I	2-J	11			
11	3-0	17			
	2.0		·		
Date-April 28, 19	58				
		Y-Meet at Skelly G	rimes Camp west	of Hobbs at	7:30 A.M.
Date-April 28, 19 Operator- <u>SKELLY O</u>		Y-Meet at Skelly G 10 wells	rimes Camp west	of Hobbs at	7:30 A.M.
Operator- <u>SKELLY O</u>	IL COMPAN	10 wells	rimes Camp west	of Hobbs at	7:30 A.M.
Operator- <u>SKELLY O</u> Fowler	<u>IL COMPAN</u> 1-C	Y-Meet at Skelly G 10 wells 31-18-38	rimes Camp west	of Hobbs at	7:30 A.M.
Operator- <u>SKELLY O</u> Fowler	<u>IL COMPAN</u> 1-C 2-F	10 wells 31-18-38 "	rimes Camp west	of Hobbs at	7:30 A.M.
Operator- <u>SKELLY 0</u> Fowler	<u>IL COMPAN</u> 1-C 2-F 3-C	10 wells 31-18-38 "	rimes Camp west	of Hobbs at	7:30 A.M.
Operator- <u>SKELLY O</u> Fowler ''	<u>IL COMPAN</u> 1-C 2-F 3-C 4-F	10 wells 31-18-38 " "	rimes Camp west	of Hobbs at	7:30 A.M.
Operator- <u>SKELLY O</u> Fowler '' '' Hobbs E	<u>IL COMPAN</u> 1-C 2-F 3-C 4-F 1-A	10 wells 31-18-38 " " 26-18-37	rimes Camp west	of Hobbs at	7:30 A.M.
Operator- <u>SKELLY O</u> Fowler " " Hobbs E Mexico U	<u>IL COMPAN</u> 1-C 2-F 3-C 4-F 1-A 1-B	10 wells 31-18-38 " " 26-18-37 8-19-38	rimes Camp west	of Hobbs at	7:30 A.M.
Operator- <u>SKELLY O</u> Fowler " Hobbs E Mexico U McKinley	IL COMPAN 1-C 2-F 3-C 4-F 1-A 1-B 1-D	10 wells 31-18-38 " " 26-18-37 8-19-38 20- <del>1</del> 8-38	rimes Camp west	of Hobbs at	7:30 A.M.
Operator- <u>SKELLY O</u> Fowler " Hobbs E Mexico U McKinley State A	<u>IL COMPAN</u> 1-C 2-F 3-C 4-F 1-A 1-B 1-D 1-M	10 wells 31-18-38 " 26-18-37 8-19-38 20-18-38 17-18-38	rimes Camp west	of Hobbs at	7:30 A.M.
Operator- <u>SKELLY O</u> Fowler Hobbs E Mexico U McKinley State A Furner	<u>IL COMPAN</u> 1-C 2-F 3-C 4-F 1-A 1-B 1-D 1-M 1-F	10 wells 31-18-38 " " 26-18-37 8-19-38 20-18-38 17-18-38 34-18-38	rimes Camp west	of Hobbs at	7:30 A.M.
Operator- <u>SKELLY O</u> Fowler Hobbs E Mexico U McKinley State A Furner	<u>IL COMPAN</u> 1-C 2-F 3-C 4-F 1-A 1-B 1-D 1-M	10 wells 31-18-38 " 26-18-37 8-19-38 20-18-38 17-18-38	rimes Camp west	of Hobbs at	7:30 A.M.
Operator- <u>SKELLY O</u> Fowler " Hobbs E Mexico U McKinley State A Furner	<u>IL COMPAN</u> 1-C 2-F 3-C 4-F 1-A 1-B 1-D 1-M 1-F 2-C	10 wells 31-18-38 " " 26-18-37 8-19-38 20-18-38 17-18-38 34-18-38	rimes Camp west	of Hobbs at	7:30 A.M.
Operator- <u>SKELLY O</u> Fowler " Hobbs E Mexico U McKinley State A Furner ' Date-April 28, 195	<u>IL COMPAN</u> 1-C 2-F 3-C 4-F 1-A 1-B 1-D 1-M 1-F 2-C	10 wells 31-18-38 " 26-18-37 8-19-38 20-18-38 17-18-38 34-18-38			
Operator- <u>SKELLY O</u> Fowler Hobbs E Mexico U McKinley State A Furner	<u>IL COMPAN</u> 1-C 2-F 3-C 4-F 1-A 1-B 1-D 1-M 1-F 2-C	10 wells 31-18-38 " 26-18-37 8-19-38 20-18-38 17-18-38 34-18-38 34-18-38 "			
Operator- <u>SKELLY O</u> Fowler " Hobbs E Mexico U McKinley State A Furner ' Date-April 28, 195	<u>IL COMPAN</u> 1-C 2-F 3-C 4-F 1-A 1-B 1-D 1-M 1-F 2-C	10 wells 31-18-38 " 26-18-37 8-19-38 20-18-38 17-18-38 34-18-38			
Operator- <u>SKELLY O</u> Fowler " Hobbs E Mexico U McKinley State A Furner Date-April 28, 199 Operator <u>-SINCLAIR</u>	IL COMPAN 1-C 2-F 3-C 4-F 1-A 1-B 1-D 1-M 1-F 2-C 58 OIL & GAS	10 wells 31-18-38 " 26-18-37 8-19-38 20-18-38 17-18-38 34-18-38 " 5 COMeet at Sincl 7 wells			
Operator- <u>SKELLY 0</u> Fowler Hobbs E Mexico U McKinley State A Furner	<u>IL COMPAN</u> 1-C 2-F 3-C 4-F 1-A 1-B 1-D 1-M 1-F 2-C	10 wells 31-18-38 " 26-18-37 8-19-38 20-18-38 17-18-38 34-18-38 34-18-38 "			

SINCLAIR OIL & GAS CO. CONTINUED

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<b>4-</b> C	n j
<b>1-</b> G	15-19-38
2-B	11
	4-0 1-G

# Date-April 30, 1958

Operator-<u>SAMEDAN OIL CORP.</u>-Meet at Samedan Camp, North Grimes in Hobbs, at 7:30AM 18 wells

Byers	1-B	3-19-38
17	2-G	n ,
· 11	3-A	n
N .	4H	11
Moon A		28-18-38
tt -	2B	11
Moon B	1-H	11
11	2-A	· 11
State B	<b>1-</b> F	25-18-37
11	2-E	u
State C	1-N	24-18-37
11	2K	Ħ
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11	4-M	11
Turner A	l~J	34-18-38
11	2-0	Н
Turner B	1I	tt .
11	2-P	11

# Date-May 6, 1958

Operator-<u>GULF\_OIL\_CORP.</u>-Meet at Grimes #1, 33-18-38 at 7:30 A.M. 29 wells

Graham State " " Grimes, W. A. " " "	1-H 2-A 3-G 4-B 10-D 11-F 12-L 13-E 14-M	24-18-37 H 11 32-18-38 H H H 12 18-38 H 11 11 11 11 12 18-38 11 11 11 12 18-38 11 11 11 12 18-38 11 11 11 12 18-38 11 11 12 18 18 18 18 18 18 18 18 18 18
Grimes, W. D. "	5B 6-I	33-18-38 "
Grimes, W. D. "A" "	1-D 2-F 3-K	<u>32-13-3</u> 8 11

GULF OIL CORP., CONTINUED

Grimes, W. D. "A"	5-M	32-18-38	196 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					A LEAST OF A LEAST ALL AND A LEAST	
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Grimes, W. D. "C" "	1-M 2-N	21-18-38 "	•••••••••••••••••••••••••••••••••••••••	•		•			
" Grimes, West	3-L 4-C	" 32 <b>-1</b> 8-38	. ••	•	•	• • سر			• • • • • • • • • • • • • • • • • • •
n Hardin	15-N	n						· · · · ·	
	<b>1-0</b> 2-P	18-18-38 "			•	•	•	مرید به میرید. م	αντίδι το φωτά μουστρώπου
J. R. Holt "D"	3-I 1-C	" 36-18-37		· .					- ·

Date-May 7, 1958

Operator-<u>GULF OIL CORP.-Meet at Grimes #1, 33-18-38 at 7:30 A. M.</u> 4 wells

Grimes, W. D. "B" " "	1-I 2-H 3-B	<b>33-18-38</b> "	
<b>H</b>	4-A	n	
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(12)

July 26, 1957

اري والاستاني. د د ما مستحد الوليات

المراجع مراجع المراجع ا

Mr. A. L. Porter, Jr., Director Oil Conservation Commission ى دەرىپى بىرىپىيە بىرىپىيە يېتىپىيە يېتىپىيە يېتىپىيە يېتىپىيە يېتىپىيە يېتىپىيە يېتىپىيە يېتىپىيە يېتىپىيە يې مۇرىپىيە يېتىپىيە يېت Box 871 Box 871 Santa Fe, New Mexico Dear Mr. Porter:

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Security - 19 a a Million and

> The first meeting of the committee that you appointed to study the fresh water pollution problem in the Hobbs area was held on July 19, 1957. A list of the committee members is enclosed for your information.

> At this meeting Mr. E. G. Minton, Lea County Hydrologist, gave a brief talk on the general geology and hydrology of the area. Mr. Minton stated that from past studies the water moves at about 7 to 9 inches a day, however due to the Cone of Depression (covering about the area of the City Limits of Hobbs) it probably was moving at two to three times this rate. This Cone of Depression is some 25 feet deep and 5 to 6 miles in diameter causing the water to flow towards the center of Hobbs. When asked for suggestions from committee members he put forth the idea of dewatering the contaminated area and reinjecting the treated water. The difficulty of this type of project would be that water wells in the area would go dry. He made an estimate that if the entire saturated section was opened one well could probably produce 800 to 1,000 gals/min. Mr. Minton also stated that water wells had no casing or plug and abandonment requirements.

After Mr. Minton's talk, Mr. Jack Brown, Chairman, proposed methods of conduct-ing the meetings and the following items were decided upon: a the way and the twin the ask the second state

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1.	Conduct informally			۳۵ <sup>۲</sup> د همت ۱۹۰۰ ۲۰
2.	Members notify alternate			
3.		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	······································	n an
4.	Quorum to be 5 members			•
5.	Rule of majority	and the second s		a in an
6.	No action of member bind	ing-on-his-organ	11287100	
7.	No charges to committee	en estatutor - takina la la materia		- indiad
~	- Anly membrane and alterna	too strong moot'	Inda Unless Otnel	LP THATERA

Mr. Zane Spiegel gave a long talk on the general hydrology of the Hobbs area. Mr. Jack Brown stated that subcommittees would be formed to study specific phases of the problem and the next meeting was called for 9:00 A.M. July 25th at the Hobbs OCC Office. 

Porter-Page 2

At the second meeting of this committee, July 25th, numerous items were discussed which took most of the day.

> sa makéténé né sa sa

It was the concensus of the members that the area of contamination was small in extent, possibly 2 to 5 acres, and that if as much as 300,000 barrels had entered the fresh water aquifer that due to the fact that the oil would ride on top of the water it would be filtered out within one mile. This is not a final answer but to determine in some manner what we were looking at, 300,000 barrels was assumed to be in the aquifer. Due to the dry water sands in the upper portions of the aquifer within one mile distance it would filter out if it was riding on top of the water.

However the committee is going shead with its studies. The OCC Hobbs Office has been requested to furnish the committee with information on all remedial work completed and other pertinent information.

A subcommittee was formed, Tidewater Cheirman, to investigate the feasibility of the committee recommending the manner in which future water wells should be completed. The following organizations were appointed to this subcommittee:

> City Water Board Samedan Oil Co. State Engineer

A second subcommittee was formed, Hobbs OCC Chairman, to determine the location of all water wells in the Hobbs Pool area, and determine all physical characteristics of such wells as to pipe, depth and purity of water. The following organizations were appointed to the subcommittee:

> Shell Oil Co. Continental Oil Co. State Engineer

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A third subcommittee was appointed, Samedan Chairman, to investigate contamination of the fresh water aquifer from causes other than oil wells. The following organizations were appointed to this subcommittee:

> Pan American Pet. Corp. City Water Board

The afternoon session was largely taken up by discussing methods of preventing - future contamination.

Casing programs and methods the OCC used in checking for leaks was discussed.

Following considerable discussion of preventing future contamination, the committee may recommend the following:

1. That surface pipe set on clamps should be corrected, and that a small diameter pipe be used to vent all surface bradenheads to the atmosphere at all times or install a sensitive gauge.

### Aer-Page 3

120

# 2. That quarterly tests by operators be submitted to the OCC with the certification that no leaks were found or if leaks were found a pro-gram for correction. One such test each year to be witnessed by the OCC.

That packers be installed on all flowing wells and the annular space be filled with sweet oil. 

The committee meeting was adjourned until 9:00 A.M. August 1, 1957.

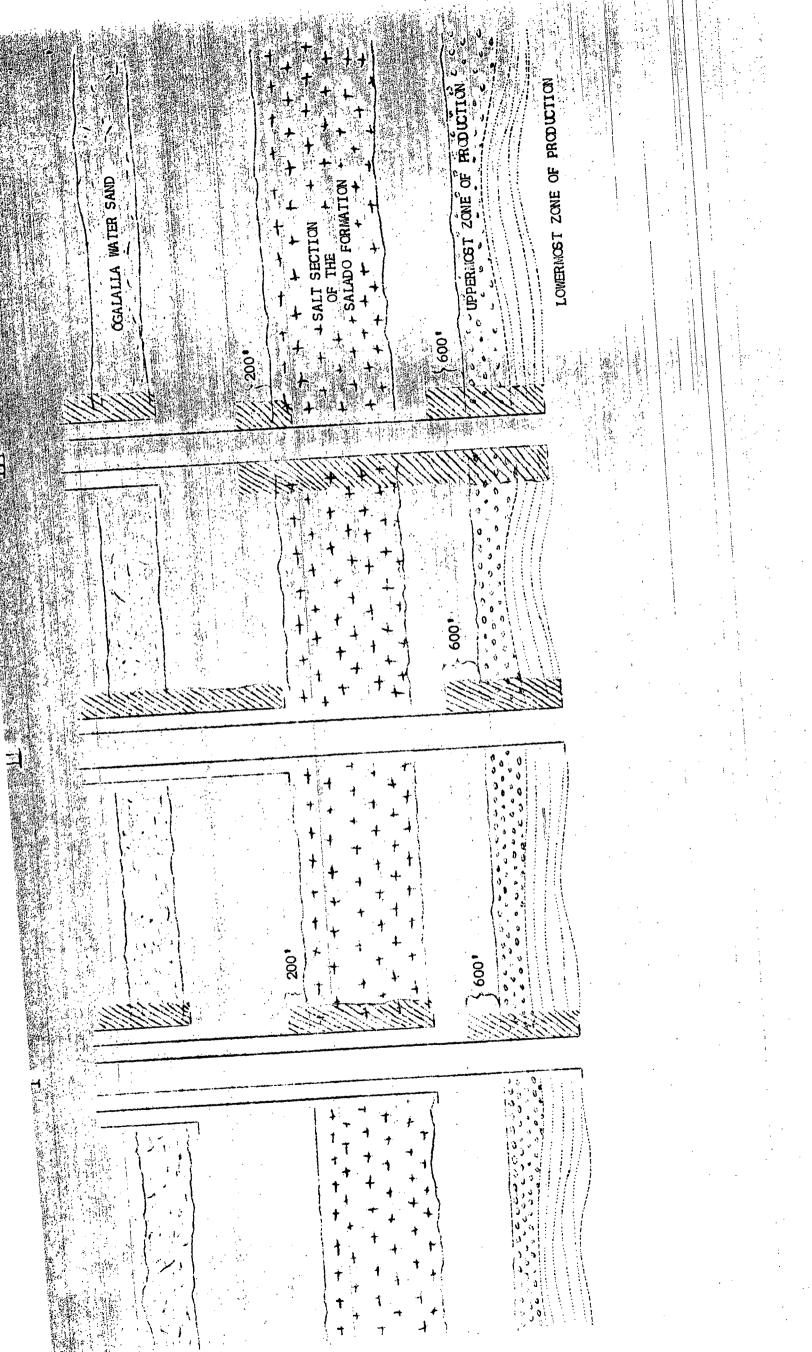
Yours very truly, OIL CONSERVATION COMMISSION

in a cont

R. F. Montgomery Proration Manager

RFM/mc cc-E. J/ Fischer, Engineer -OCC, Hobbs encl.

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Bel Brits as the	i Lin i	and the second	
I : Sha	llow	Well Casing Program	
	Sumf	ace casing	
	1.	Sufficient casing must be run to cover and set through:	
		a. the Ogelalla formation	
		b. all shallow water sands above the Rustler formation	
桥塔 (1)-1		c. but never less than	·
		(1) 250' on the cap	۱,
		(2) 200' off the cap	;
		Cementing a. Sufficient cement must be used to completely fill the	
		annular space behind the casing from the casing seat	, '
		to the surface.	1
1. 许好	1	b. Cement should be run neat, and a sufficient volume	
	1	circulated at the surface to insure against contamination.	
		c. Should cement fail to circulate:	1
		(1) a temperature survey must be run to locate the	
		top of the cement, and	
		(2) cement must be brought to the surface from the the	
	2	top found by the temperature survey. Cement waiting time	1
		a. Pressure must be maintained on the casing a minimum	
		of (12) twelve hours.	
a		b. No drilling operations may be started for at least (24)	
		twenty-four hours.	
В.		ermediate casing	
	1.	Sufficient casing must be run to set through the salt section	
	2.	of the Salado formation. Cementing	
	~•	a. Sufficient cement must be used to completely fill the	
4 - 4	1	annular space behind the casing from the shoe to a point	
	1	at least 200' above the top of the salt.	
	1	b. A temperature survey must be run to determine the top	
φ.	Ţ	of the cement back of the intermediate casing, if cement	
	•	is not circulated to the surface.	
		(1) if the cement top is found to be (50) fifty feet or	
		less from the top of the salt, a second stage	
		cementing operation must be performed to bring cement to the required height.	
		c. A minimum of 100 sacks of neat cement should be placed at	
		the casing seat.	
	3.	Cement time	
	1	a. Pressure must be maintained on the casing a minimum of	
		(12) twelve hours, and,	
	·	b. No drilling operations may be started for at least (24)	
	1	twenty-four hours.	
C.	Ton	g string and oil string	
	1.		
		zones and may be set through or in the top of the bottom zone	
		of production.	
	2.	Sufficient cement must be used to completely cover and segregate	
		all zones of production, either present or possible future,	
		from each other, and further to prevent the contamination	
	÷	of any non-productive zones.	
		a. A minimum of 600° of cement above the uppermost productive zone (calculated)	
		b. A minimum of (50) fifty sacks on any job	
	i	c. A minimum of (50) sacks of neat cement at the casing seat	
3	3.	Cement time	
	ļ.	a. Pressure must be maintained on the casing for a minimum	
		of (12) twelve hours.	
		b. No drilling or completion operations may be started for	
	1	at least (48) fourty-eight hours.	
	•		
II. Sh	allo	w Well Casing Program	
1.			
Α.		rface casing	
	1°Su	fficient casing must be run to set:	

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ln the anhydrite at salt section of the top Salado.

þ. In the absence of the salt section, through all known or encountered surface water zones.

Cementing 2.

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Sufficient cement must be used to completely fill the annular space behind the pipe from the casing seat to the a,

1 43 5				·	
	1 01-1				
SHAL PART			L CASING PROGRAM CONT °D.		
		1	surface. b. Cement with various additives may be used; however, a		
	4 1		minimum of 200 sacks of neat cement should be run around the		
	Įr'.		casing seat at the bottom of the string. c. Should cement fail to ciriculate to the surface:		
			(1) A temperature survey must be run to locate the top of		
			the cement		
	,Č i		(2) A second stage cementing operation must be performed to bring cement to the surface.		
		3.	Cement time		
	· · ·		a. Pressure must be maintained on the casing for a minimum of (12) twelve hours.		
			b. No drilling operations may be started for at least (24)		
		· .	twenty-four hours.		
	B	Inte	ermediate casing		
	t Malada		None required for this program.		
調整	<b>C</b>	Tom	g string or production casing		
			Sufficient casing must be run to cover and segregate the various	:	
			zones of production penetrated. Casing may be set through or	•	
		2.	in the top of the lowest producing zone. Sufficient cement must be used:		• • •
	il a F	11 11	a. To completely cover and segregate all known zones of		
			production behind pipe b. To completely fill the annular space behind the pipe from		
		. :	the casing seat to a point at least 600' above the upper-		
			most known producing zone.		
		į	c. A minimum of 150 sacks of cement on any job. d. A minimum of 100 sacks of neat cement should be run around		
	3 2		the casing seat.		
1		3.	Cement time a. Pressure must be maintained on the casing for a minimum of		
			(12) twelve hours.		
		:	b. No drilling or completion operations may be started for		
ļ			at least (48) fourty-eight hours.		
	, a				
- <b>111</b>	• . SI	nallo	ow Well Casing Program		
	<b>A</b> .		face casing		
4:		1.	Sufficient casing must be run to set; a. Through the Ogalalla formation		
		:	b. Through all shallow water sands		:
			c. But never less than:		
	•		(1) 250' on the cap (2) 200' off the cap		
	•	2.	Cementing		
i i		ì	a. Sufficient cement must be used to completely fill the annular space behind pipe from the casing seat to the		
		:	surface.		
		·	b. The cement must be run neat and a sufficient volume ciriculated at the surface to insure against contamination		
			c. Should cement fail to circulate:		
			(1) A temperature must be run to determine the top of the		
		ŧ	cement. (2) A second stage cementing operation must be performed		
		~	to bring cement to the surface.		
		3.	Cement time a. Pressure must be maintained on the casing for a minimum of		
			(12) twelve hours.		
			b. No drilling operations may be commenced for at least (24) twenty-four hours.		
		:	Auguto A-r Ante HANT De		
	₿.	Inte	ermediate casing		
			None required for this program.		
	Ç.		g string or production casing		
		1.	Sufficient casing must be run to cover and segregate the various zones of production penetrated. Casing may be set through or		
		•	in the top of the <u>lowes</u> trzone of production.		
		2.	Cementing		

1

a. Sufficient cement must be used to completely cover and protect all known productive zones in one of two ways:

### SHALLOW WELL CASING PROGRAM CONT 'D. PART C 2 a (1)

(1) Completely fill the annular space behind pipe from the casing seat to a point 200' above the top of the salt.

To stage cement with one of the various stagging tools, so as (2)

tools, so as (a) To completely fill the annular space from the (a) to completely fill the annular space from the top zone, and,
(b) Completely fill the annular space from the top of the salt to a point 200' above the top of the salt.

(3) A minimum of 150 sacks of neat cement should be used around the casing seat on either of the above methods. b. A temperature survey must be run to determine the location of cement behind pipe, if option 2, a, (1) above is used. 3. Cement time

a. Pressure must be maintained on the casing for a minimum of (12) twelve hours. Т.,

b. No drilling or completion operations may be started for at least (48) fourty-eight hours.

HOBBS. NEW MEXICO

September 6, 1957

Mr. Robert Hoyle, Chief Chemist El Paso Natural Gas Company Box 1384 Jal, New Mexico

Dear Mr. Hoyle:

In regard to our conversation of August 21, 1957, about fresh water, oil & Gas analysis, I hope that the enclosed information is what you had in mind.

This information was obtained from the "Hobbs Pool Proration Engineering Report," March 25, 1931.

### Water Analysis

<u>Tertiary Mater</u> October 16, 1927, T.D. 50 - 62' Sample from bailer Ogallala Formation, Discovery Well, Analysis by Midwest Refining Co. Gas Plant, Salt Creek Field, Myoming, By H. K. Frank.

		P.P.M.	Reacting Values Percent	
	Na	29	9.1	
	Ca	72	27.3	
	Mg	22	13.6	
	sõ,	82	13.0	·
/	Mg SO <sub>4</sub> C1	42	9.0	
	CO3	0	0.0	
	HCÓ3	226	28.0	
	Total P.P.M.	473	100.0	
	Total Solids by Evaporation 420			
	Sp. Gr. 1.002			

Sodium Calculated, not actually determined

Upper Dockum Group- March 28, 1929, Sample 455 - 462 by bailer, Midwest Capps #31 3%/4 of Section 3, Township 19 South, Range 38 East. T.D. 465" Analysis by H. K. Frank on April 13, 1929.

	P.P.M.	Reacting Values Percent
Na	2363	43.3
Са	200	4.2
Mg	70	2.5

HOBBS, NEW MEXICO

an an an the second state and the second second	P.P.M.	Reacting Values Percent
Of the light dan distance	1010	8.8
内了一 日期,市場習行中期創新 所,一般市场的。 这一级感觉	<b>3370</b> at 63	was obtained to Ja the Lin-
o ary well, at a fig. of a 20	a navolused	- However the O.O. of the source
COASICA	134	0.9
otal P.P.M.	7147	100.0
otal Solids by evaporation 6744	0 total	
p. Gr. 1.004	2,132	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
rganic Matter Present	<u> </u>	4.6
odium Calculated	به فریع ایک میکند زمان	7.5
		<b>0.</b> ()
anta Rosa Mater On December 2	1. 1027. Sam	ple by bailer from 1.235 - 5
.D. 1,250 analysis by H. K. Fra	ank from dis	covery well. Analysis run
amiary 5, 1928.		
Charly J, 1740.		
Avai Allis by even ever (,)	OD D M	Reacting Values Percent
anium Lalouisten		49.5
saific Gravit, All	730	0.5
	6	-
Section of the sector	Trace	0.0
o, lodine	716	23.4
5 <b>1</b>	143	6.3
103	51	2.7
CO3 Botal P.P.R. and The Mar Mi	<u>685</u> 2, 331	No. 6
odium Calculated. an arrest of the ally accurate leaves of 19		an Ing ang sang sang sang sang sang sang san
Big Gas Pay (Queen)	- R. 2	Anna Ales Blauma Sandi In
The chemical composition of	f the water	from the "Bowers sand" 18
The chemical composition of probably nearly identical with	f the water that from th	from the "Bowers sand" is he big gas pay. Both are ver
Big Gas Pay (Queen) The chemical composition of probably nearly identical with ealty.	f the water that from th	from the "Bowers sand" is he big gas pay. Both are ver
The chemical composition of probably nearly identical with walty.	that from th	e big gas pay. Both are ver
The chemical composition of robably nearly identical with alty.	of water fr	om the big gas pay. Both are ver
The chemical composition of robably nearly identical with alty. On July 15, 1930, a sample rom the bailer of Midwest Byer	of water fr s #33, NE/4	om the big gas pay. Both are ver om the big gas pay was taken of Sec. 4, Township 19 South
The chemical composition of robably nearly identical with alty. On July 15, 1930, a sample rom the bailer of Midwest Byer lange 38 East, depth of water 3	of water fr s #33, NE/4 ,720 - 25°,	om the big gas pay. Both are ver om the big gas pay was taken of Sec. 4, Township 19 South
The chemical composition of robably nearly identical with alty. On July 15, 1930, a sample rom the bailer of Midwest Byer lange 38 East, depth of water 3	of water fr s #33, NE/4 ,720 - 25°,	om the big gas pay. Both are ver om the big gas pay was taken of Sec. 4, Township 19 South
The chemical composition of robably nearly identical with alty. On July 15, 1930, a sample rom the bailer of Midwest Byers lange 38 East, depth of water 3 lugust 7, 1930, by H. K. Frank.	of water fr s #33, NE/4 ,720 - 25°,	om the big gas pay. Both are ver om the big gas pay was taken of Sec. 4, Township 19 South depth of hole 3,725". Analy
The chemical composition of robably nearly identical with alty. On July 15, 1930, a sample rom the bailer of Midwest Byer lange 38 East, depth of water 3 lugust 7, 1930, by H. K. Frank.	of water fr s #33, NE/4 ,720 - 25°,	rom the big gas pay. Both are ver of the big gas pay was taken of Sec. 4, Township 19 South depth of hole 3,725°. Analy <u>Reacting Values Percent</u>
The chemical composition of robably nearly identical with alty. On July 15, 1930, a sample rom the bailer of Midwest Byers lange 38 East, depth of water 3 lugust 7, 1930, by H. K. Frank.	that from th of water fr s #33, NE/4 ,720 - 25°, <u>P.P.M.</u> 84,292	rom the big gas pay. Both are ver of the big gas pay was taken of Sec. 4, Township 19 South depth of hole 3,725°. Analy <u>Reacting Values Percent</u> 34.9
The chemical composition of robably nearly identical with alty. On July 15, 1930, a sample rom the bailer of Midwest Byer lange 38 East, depth of water 3 ingust 7, 1930, by H. K. Frank.	that from th of water fr s #33, NE/4 ,720 - 25', <u>P.P.M.</u> 84,292 14,200	rom the big gas pay. Both are ver of the big gas pay was taken of Sec. 4, Township 19 South depth of hole 3,725°. Analy <u>Reacting Values Percent</u> 34.9 6.8
The chemical composition of robably nearly identical with alty. On July 15, 1930, a sample rom the bailer of Midwest Byer lange 38 East, depth of water 3 lugust 7, 1930, by H. K. Frank.	that from th of water fr s #33, NE/4 ,720 - 25°, <u>P.P.M.</u> 84,292 14,200 10,500	ne big gas pay. Both are ver nom the big gas pay was taken of Sec. 4, Township 19 South depth of hole 3,725°. Analy <u>Reacting Values Percent</u> 34.9 6.8 8.3
The chemical composition of robably nearly identical with alty. On July 15, 1930, a sample from the bailer of Midwest Byer lange 38 East, depth of water 3 lugust 7, 1930, by H. K. Frank.	that from th of water fr s #33, NE/4 ,720 - 25°, <u>P.P.N.</u> 84,292 14,200 10,500 682	ne big gas pay. Both are ver nom the big gas pay was taken of Sec. 4, Township 19 South depth of hole 3,725°. Analy <u>Reacting Values Percent</u> 34.9 6.8 8.3 0.14
The chemical composition of robably nearly identical with alty. On July 15, 1930, a sample from the bailer of Midwest Byer lange 38 East, depth of water 3 lugust 7, 1930, by H. K. Frank.	that from th of water fr s #33, NE/4 ,720 - 25°, <u>P.P.M.</u> 84,292 14,200 10,500	rom the big gas pay. Both are ver of Sec. 4, Township 19 South depth of hole 3,725°. Analy <u>Reacting Values Percent</u> 34.9 6.8 8.3 0.14 49.81
The chemical composition of robably nearly identical with alty. On July 15, 1930, a sample from the bailer of Midwest Byer lange 38 East, depth of water 3 lugust 7, 1930, by H. K. Frank.	that from th of water fr s #33, NE/4 ,720 - 25°, <u>P.P.M.</u> 84,292 14,200 10,500 682 185,000 0	rom the big gas pay. Both are ver of Sec. 4, Township 19 South depth of hole 3,725*. Analy <u>Reacting Values Percent</u> 34.9 6.8 8.3 0.14 49.81 0.00
The chemical composition of robably nearly identical with alty. On July 15, 1930, a sample rom the bailer of Midwest Byer lange 38 East, depth of water 3 lugust 7, 1930, by H. K. Frank.	that from th of water fr s #33, NE/4 ,720 - 25', <u>P.P.M.</u> 84,292 14,200 10,500 682 185,000 0 279	rom the big gas pay. Both are ver of Sec. 4, Township 19 South depth of hole 3,725*. Analy <u>Reacting Values Percent</u> 34.9 6.8 8.3 0.14 49.81 0.00 0.05
The chemical composition of robably nearly identical with ealty. On July 15, 1930, a sample rom the bailer of Midwest Byer lange 38 East, depth of water 3 lugust 7, 1930, by H. K. Frank. Ia la la la la la la la la la la la la la	that from th of water fr s #33, NE/4 ,720 - 25*, <u>P.P.M.</u> 84,292 14,200 10,500 682 185,000 0 279 294,953	rom the big gas pay. Both are ver of Sec. 4, Township 19 South depth of hole 3,725*. Analy <u>Reacting Values Percent</u> 34.9 6.8 8.3 0.14 49.81 0.00
The chemical composition of robably nearly identical with ealty. On July 15, 1930, a sample from the bailer of Midwest Byer lange 38 East, depth of water 3 lugust 7, 1930, by H. K. Frank. National Solution 284	that from th of water fr s #33, NE/4 ,720 - 25*, <u>P.P.M.</u> 84,292 14,200 10,500 682 185,000 0 279 294,953	rom the big gas pay. Both are ver of Sec. 4, Township 19 South depth of hole 3,725*. Analy <u>Reacting Values Percent</u> 34.9 6.8 8.3 0.14 49.81 0.00 0.05
The chemical composition of robably nearly identical with alty. On July 15, 1930, a sample rom the bailer of Midwest Byer lange 38 East, depth of water 3 lugust 7, 1930, by H. K. Frank. a la la la la la la la la la la la la l	that from th of water fr s #33, NE/4 ,720 - 25°, <u>P.P.M.</u> 84,292 14,200 10,500 682 185,000 0 279 294,953 ,700	rom the big gas pay. Both are ver of the big gas pay was taken of Sec. 4, Township 19 South depth of hole 3,725°. Analy <u>Reacting Values Percent</u> 34.9 6.8 8.3 0.14 49.81 0.00 0.05 100.00

HOBBS, NEW MEXICO

White Lime (San Andres)

On November 8, 1928, a sample of water was obtained from the discovery well, at a T.D. of 4,220\*. Analyzed November 16, 1928, by H. K. Frank.

	P.P.M.	Reacting Values Percent
Na	2,733	38.4
Ca	280	4.6
Kg	262	7.0
SÕ,	41	0.3
Kg SO <sub>4</sub> C1	4,107	37.8
CO3	0	0.0
HCD3	2.240	11.9
Total P.P.M.	9,663	100.0
Total Solids by evaporation 7,		
Sodium Calculated	,,	
Specific Gravity 1.010		
H2S Present		
No Iodine		

Analysis of water from Ohio State #1 5%/4 of Sec. 9, Township 19 South, Range 38 East, an extreme edge well, which first found water at 4,208° was deepened to 4,312° finding more water. This sample was analyzed after one year production at an approximate rate of 20 barrels daily. Analyzed December 5, 1930, by R. E. Thurn, U. S. Bureau of Mines.

	P.P.M.	Reacting Values Percent
Na	3,026	40.66
Ca	222	3.42
Mg SO <sub>4</sub> C1	233	5.92
SOL	315	2.02
C1 <sup>-</sup>	4,681	40.78
CO3	0	0.00
CO3 HCO3	1,421	7.20
OH	0	0.00
Total Solids	9,898	100.00
Specific gravity @ 15.6°C (60°F)	1.0082	

#### OIL ANALYSIS

Bowers ss 37-40% A.P.I. <u>Paraffine base</u> Large Percent N<sub>2</sub> 700 BTU per cu ft Oil analysis by-J. G. Crawford White Lime 33-37° A.P.I. <u>Verges on Asphaltic</u> CO<sub>2</sub> & H<sub>2</sub>S little N<sub>2</sub> 1000 BTU per cu ft Oil analysis by-J. G. Crawford (U.S.G.S. Midwest, Myo.)

HOBBS. NEW MEXICO

Bowers ss (con July: 12, 1930	itd)		White Lime (contd) September 25, 1929		
Humble Bowers	#4-A SE/4 30-1	8-38	Midwest #1-A 9-19-38		
Tp. 38. 3,161		Tp. Wh. Lm. 4045* T.D. 4245* P.B. 4217*			
I.P. 234 bbls	oil ner dev	,	I. P. 700 bbls oil per day		
1,500,000 cu f			The set to board off her day		
Sample	I	II	Analysis		
Gr. of Crude	39.4	38.3	34.8° API		
Centrifuge BS&		0.15%	0.1%		
Sulfur	1.07%	0.34%	1.47%		
Universal Sayb					
·	43 Sec.	46 Sec.	43 Sec.		
Distillat	ion by Air		Distillation by Air		
lst drop	106 <sup>0</sup> F	99 <sup>0</sup> P	115°F		
Up to 3920P	37.5%-58.4°	34.35-57.2°API	34.7%-56.6° API		
392°F to 482°F	9.3%-44.0°	10.7%043.7°API	9.0%-38.6°API		
482°F to 527°F	6.0%-40.4°	5.5%-40.2°API	6.0%-34.3°API		
Vacuum Di	stillation at	40MM			
Up to 392°F	4.7%	4.8%	4.7%		
392°F to 482°F	9.3%	10.2%	8.3%		
482°F to 527°F	5.7%	4.8%	5.0%		
527°F to 572°F	4.7%	4.9%	4.75		
Residuum	23.0%	14.8%	27.6%		
Base	Paraffine	Paraffine	Intermediate B is a base		
			Verging on Asphaltic.		

### GAS ANALYSIS

Big Gas Average analysis of a sample containing the combined gases from the big gas pay, the "Bowers Sand", and the "Brown Lime".

H2S	Nil
H <sub>2</sub> S CO <sub>2</sub>	0.07%
02	0.07%
CHL	56.00%
C2H6	21.00%
N <sub>2</sub>	20.00%

White Lame Gas (San Andres)

Sample I	Sample II
Meter Station #13	Midwest
Phillips Gas Plant	Byers #33

HOBBS. NEW MEXICO

	Sample I	Sample II
Mic	iwest State #8 NN/4	NE/4 Sec. 4
Sei	c. 10, T-19-3, R-38-E	T-19-5, R38-E
H <sub>2</sub> S CO <sub>2</sub> O <sub>2</sub> CH <sub>4</sub>	2.27%	1.05%
cõ2	4.00	5.25
02	1.06	0.81
CH4	52.19	63.30
C2H6	7.16	3.34
Propane	13.31	9.09
Isobutane	2.49	1.32
Normal butane	6 <b>.99</b>	5.29
Pentanes & Heavier	4•55	4.18
N <sub>2</sub>	5.98	6.37
-	100.00	100.00
Observed Gravity	1.050	0.933
Calculated Gravity	1.044	0.938

The above analysis if from gas produced with the oil from the white lime pay. These samples were collected in aluminum containers and were analyzed by H. W. Young, at the Midwest Refining Company's gas plant, Salt Creek, Wyoming.

If we can obtain any other information for you please let us know.

We thank you very much for your help in this matter.

Yours very truly,

OIL CONSERVATION COMMISSION

Eric F. Engbrecht Cil & Gas Inspector

EFE/eb cc- Proration Manager District Engineer File

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- VII. Establishment of a water well observation program to detect any new contamination and to observe the movement, if any, of contamination from the area northwest of Hobbs.
  - 1. At least 42 wells, and probably more, are available for observation purposes in the Hobbs Pool area. The attached tabulation lists these wells according to their location and acceptibility to water level measurements and to water sample collection.
  - 2. As much information as possible should be collected regarding the potential observation wells. Such information should ideally include the driller's log, date drilled, depth, casing program, location of any perforations, accurate location of the well with reference to the land net and to relatively permanent landmarks, and an accurate description of the measuring point.
  - 3. It is believed that an effective network of observation wells can be established by evaluating the potential observation wells with regard to their location within the Hobbs Pool area and to information available regarding their completion.

		Åccessibility of	of Well		
	an an an Annair an Annaichean an Annaichean an Annaichean Annaichean An Annaichean Ann	12	up le		
Well Location	For Measurement Of Water Level	ି <b>ମ</b> କ	By Thief or Trip Sampler	Present Use	Kem <b>arks</b>
NE 54 13-18-37	Х			Abandoned	Sompled 8/14/57
W SW SE 13-18-37	<b>.</b>	20		Stock	Windmill
NW SE SE 23-18-37	. :4		<b>.4</b>	Abendoned	Sampled 8/14/57
13-91-F2 35 35 35		<b>4</b> .1		Lomestic	V indaill
BA NE SE IV-La-SK		<u>.</u>			Not checked
SE SE SN TS		:\.	₹u.		Not chocked
SW SW 19	54		25	Abandoned	
NE NW WE 20		×		Irrigation	Sampled 8/13/57
86/4 21			÷*		Many wells. Not checked.
NW 27		2		s tandby	City Well #13
DV SW SN 27	<u>,</u> "			Municipal	City Well
	j. <b>.</b>		(~•		Many wells. Not checked.
NN 587 NE 29	×₹		X	Abandoned	Contained oil 8/14/57
2% K3 58 23	2 <b>.4</b>		×	Abandoned	N' most of two wells
SV NE NV 50	×	×		Domestic	
NE/4 30	<b>4</b>	24	×	Dom., Irrig.	Many wells. Contaminated area.
an NE 29 30	×		×	Abandoned	

WATEN WELLS IN THE ROBES POOL AREA WHICH COULD BE UTILIZED FOR CBSERVATION PURPOSES

		Accessibility of Kall	ŭel 1		
	and the second second second to the second		aple		
Well Location	For Measurement Of Sater Level	ູ່	Thier or Trip Sampler	Present Use	Remarks
		National - Manual - Andrewsky Providence - Andrewsky - Andrewsky - Andrewsky - Andrewsky - Andrewsky - Andrewsk			
	4		4	Abandoned	
SE SR 84 30	. <b>X</b> (	Х	•	Donest1c	Windmill
CC AS AN MS	<b>م</b> ڻ	.⊀.		Domestic	Three wells present.
					contauinated well.
IC AS AN	34		<b>X1</b> .		
10 38 85 31	×	e.			Not checked
822 N. 19 N.	×		X	Abandoned	
NN SU NE CO	:∢		×	Abandoned	Plugged with timber
he ng Nr 32			<b>&gt;</b>	Abandoned	Plugged with bull plug
5/2 32	ţ`-		5		Many wolls. Not checked.
H8/4 33	, <b>-</b> -				Many wells. Not checked.
67 M 2 M 73	·			Uumestic	
50 20 AN 20	ŷđ		,×t	Domestic	
<b>40</b> %0 %0 %0	4		· .4	Abandoned	
NE 3E SV 34		34			
H/2 34		c-			Many wells. Not checked.
3/3 <b>3-1</b> 3-38	- <b>-</b>	° <b>v</b>			Many wells. Not checked.
N/2 4	24	24			Many wells. Not checked.
				-	

WATER WELLS IN THE ROBBS POCL AREA WHICH COULD BE UTILIZED FOR CESERVATION PURPOSES (Continued)

1

		Accessibility of Well For Collection of Water Sa	y of Well Water Sample		
	For Measurement	From			
Well Location	Cf Water Level	Tap or Discharge Pipe	Thief or Trip Sampler	Present Use	Renarry
SW SW SW 4-19-38	x		24	A <b>ban</b> dened	
SENESE 4	ţ~.	×		Donestic	Sampled #/12/57
N/2 5	×	×			Mary wells. Not checked.
NR NE SE 6	×		<b>¥</b> .	Abandoned	Tlabor plag
SW NK NE G	Q	24		Stock	¥ tudut 11.
NE/4 9-19-38	ç	<del>5</del> -			4 solls bere. None checked
SW NE SE 10	r-	×		Pomestic	# LANGELL
SR SW SE 10	×		×	Abandoned	
·					
			-	-	

,

(Continued) WATER WELLS IN THE HOBBS POOL AREA WHICH COULD BE UTILIZED FOR OBSERVATION PURPOSES

HOBBS. NEW MEXICO

Section II

Two structural maps were prepared to study several problems involved in the four local water contaminated areas within the Hobbs Pool.

The findings of this study are:

- 1. The structural map on the base of the caliche differs locally with the structural map contoured on the top of the red beds, but they are regionally similar.
- 2. A comparison of the contaminated water wells and their relationship with the structure of the base of the caliche shows that the water wells with oil are located in structural highs, while water wells with gas are located both in structural highs and lows.
- 3. The map on the top of the red beds shows that the four main areas of water contamination (both oil and gas) occupy the same structural positions for each particular area.
- 4. In preparing the maps from water well and oil well sample logs, it was noted that evidence existed in some local areas that more than one water some could be present within the Ogallala sand. In the Ellison area (NE/4 of Section 30, Township 18 South, Range 38 East) that the top of the water sand is somewhat isolated from the remaining Ogallala sand. The fluid level in these water wells is almost a constant 25 feet, where as in the rest of the Hobbs Fool, the fluid level ranges from 18 to 65 feet.
- 5. Being that the top of the fluid level in the Ellison area is 25 feet, the structure of the base of the caliche could possibly effect the movement of water, oil, and gas, and confine movements to structural highs.
- 6. In the other three areas in which contamination exists the water level is generally low enough that the structure of both the caliche and Red Beds would have, little if any, influence on the local migration movements of fluids. The influence of fluid movements would be effected by lithology and general direction and dip of the Ogallala formation.
- 7. In structurally comparing the relationship between the large number of oil wells which have been repaired and other possible sources of fresh water contamination with the water wells which are contaminated, it is practically impossible to trace and pick the exact source or sources which have definitely contaminated the Ogallala sand.

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HOBBS. NEW MEXICO 

- There are numerous accessable water wells which lie in 8. the path of migration from the contaminated water area which could be used for abservation and test wells. Refer which could be used for abservation and test walls. Hefer to brown circled water walls on the maps.
  (a) A total of 378 mater walls were recorded.
  (b) 31 water walls were contaminated.
  (c) 12 water walls contained oil.
  (d) 18 water walls contained gas.
  (e) 1 water wall contained organic material.

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HOBBS. NEW MEXICO

Item 10: Mathods of determining the existence of defective casing in eil and gas wells.

Study Committee on Item 10 was composed of the Oil Conservation Commission and Pan American Petroleum Corporation.

Mr. Bill Maek with Pan American Petroleum Corporation Mr. E. J. Fischer with the Oil Conservation Commission

It was decided that to the best of our knowledge the below listed methods may be employed in determining the possible existence of defective (leaking) casing.

1. Packer pressure test utilizing the bridge plug and retrievable packer method to test casing to locate leaks.

2. Bradenhead Pressure Tests

3. Temperature Survey- Another technique used to attempt to verify and locate leak(s).

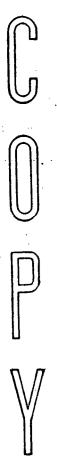
4. Changes in wells productivity as a clue to possible existence of a leak in the vell. Such as increase in water production, marked variation in GOR, marked variation in production, changes in fluid level as another clue, water analysis ( to compare with formation water to see if formation water or leak water).

5. Caliper Survey

6. Electric Log- Possibly to locate complete break in pipe.

7. Contamination of fresh water well as an indication of defective casing in a nearby oil or gas well.

Most of the above listed items may be primary clues to the existence of defective casing to the extent of leaks. Items 2, 3, 4, 5, 6, and 7, are not in themselves conclusive evidence of leaking casing in a well. The only conclusive test is the one mentioned in Item 1.



### Programming of bradenhead pressure tests on oil and gas wells in the liches Pool area:

### **Findings:**

Paragraph 11

- 1. A minimum of 4 surveys per year, to be held in the following months: January, April, July & Ostober.
  - a. Three of these surveys should be the direct responsibility of each operator for his an wells.
  - b. One of the surveys should be witnessed by an Gil Conservation Commission representative.
    - 1. A schedule should be set up, beginning in April of each year by the Commission, for the vitnessed test, to be essisted by a Company representative or representatives.
    - 2. All wells should be allowed approximately 15 ainutes per well for the witnessed test, and be shut in 24 hours before testing.
    - 3. There are approximately 304 producing wells in the Hobbs area, which will take 76 field hours for a witnessed test, which will consume about five weeks.
    - 4. All wells should have risers, with working valves for safety's sale, for making these tests.
    - 5. Risers should be so constructed, that blow-downs can be made safely, without assard to personal or adjacent property. Operator should furbish guages of adequate pres-
    - 6. sure ranges, so all pressures my be safely observed and recorded.
- Operators should record pressures, and other data of all surveys, and these shall become a permanent part of the operators' well records, for inspection at any date.
- All producing wells should be tested. 3.
- All shut-in wells should be tested.
- All temporary abandoned wells should be tested 5.
- 6. All plugged and abandoned wells should be observed.
- 7. All salt water disposal wells should be tested.

Ana	lysis of	Water in P	arts per l	Million f	rom W	ater W	lells in	1 Hobbs	Pool	Area	ي وي وي مي	
NAME		LOC	ATION	DATE	Na	Ca	lig	<b>S</b> 04	C1	<b>•0</b> 3	HCO3	للال (سیجرمی) م
Pan	American	NE SW NW	33-18-38	9-1950	· 35	74	18	77	50	0	226	
				7-1951	54	57	16	82	53	Ö,	202	
	• •	• •		7-1952	32	80	21	82	57	0	232	<u>∿</u>
-	•		÷	8-1957	9	103	21	89	60	12	201	· · · · ·
Pan	American	SE NE SE	4-19-38	9-1950	51.	123	25	56	181	ō	-256	·
				7-1951	45	128	29	53	195	Ō	256	•
				7-1952		137	27	30	227	Ő	268	
				8-1953	32	139	25	72	163	Ō	262	· .
_				<b>6-19</b> 56	63	80	12	63	78	-0	256	
Pan	American	NW NE NE	9-19-38	10-1950	67	89	18	109	82	0	262	
	•			7-1951	52	79	21	93	67	Ō	250	
-				7-1952	52	<b>86</b>	21	96	·	s Õ	262	
				8-1953	31	124	19	114			238	
	· .			8-1955	58	80	17	103	78	0	218	
Lis h				5-1956	66	86	17	113	71	0	256	·
Humb]				· · · · ·						÷ .		
Legel	ral-Bowers	5 NO3		7-1957		190	46	22	66	'		r
S	Dil Co.			· ,	•						-	
	ley No. 1		5 10 00							•		
DAJIN LI	ITEA NO. 1	NE NE	5-19-38	11-1953	56	<b>9</b> 5	15	80	120	0	205	
McKin	ley No. 2	NE NE	F 10 00	11.1000	· · ·			_	·		•.	•
	10, 10, 2	. NE NE	5-19-38	11-1953	47	81	- 14	<b>98</b>	53	· 0	227	
Gulf	Oil Corp.								、			
	Grimes			9-1952	36	-				-		
				7-1953	36 50	70	7	48	31	: <b>0</b>	229	
			•	7-1953	50 50	59 62	7	44	33	0	235	
				7-1955	46		5	45	32	0	235	
	•			7-1956	40 65	65 96	6	45	31	0	238	
				1-1500	6	- 90	19	119	92	0	250	
East (	Grimes			7-1953	78	93	12	130	00	•	<b>.</b>	
	•			7-1954	60	92	12		82	0	244	
				····	<b>VV</b>	74	14	102	74	0	244	

The wells reported to be contaminated by oil are located as follows:

	· · · · · ·		an aite		، میکاد - معد . معالی - ا	· · · · · · ·	i an i	::::::::::::::::::::::::::::::::::::::	بر دار در معد م	1.22	S			- Rei	3.2. 100		المجتشدة الم	in menain	المعدد الدوم	e inter			ir;
			۰.	· *2· · ·					Sefer -	-14-14	1.1		•••••••••		1. A . A . A		÷		a di stati di sasti				
•	Name					• •		14	xat	ion		•••						of C					
	Jack	600	🕅	<u></u>	9 <b>1</b>		NE	NW	NR	20	-18-	38				S S	ee:-1	loot	not	e #2	2	(1997) (1997) (1997)	
					- 1. Î																		
	Phil	l 1ps			·.•		NE	rin.	NW	4	-19-	-38		-		-9. U	nun		. <u>.</u>		5.5 °.		
	Paci	Fic 1			· _ ·	. *	NW	NE	NE	5	=19	-38		• •		T	rač						-92 V
			- map	•	•.	· • • • •				345				· • • • •	~ ·	्य वि	TT,				ملينو جدنوه	يو ريشيدو و. وري	
					·			••			مەم بەر بەر يې مەربى بەر مەر مەس			~	1.	مستريدة أأ							

One well is reported to be contaminated by sewage. It is located as follows:

Phillips	#6	r	SE	NE NW	4-19	-38	· • • • • • • • • • • • • • • • • • • •
Name	د بین بیشان . وسیاد در میشان برهایش			Loca	Lion		
1996年1月1日 - 1997年1日 - 1997年1月 - 1997年1日 - 1997年110月 - 1997年1				•••			

Forty-two wells were sampled with a chloride and sulfide analysis made. Among these 42 water wells are all wells that were found to be contaminated, the remainder being water wells near the reported contaminated wells. The sulfide determination did not indicate any contamination although many of the wells are known to be gas contaminated. See Table Karte No. 1 

In response to the Committee's request water analyses on 9 water wells were received from oil operators that operate water wells in the Hobbs Pool area. These analyses are included as Table No. 2

5.

Footnote (1) The Amerada well in which 19.4 feet of oil was found has been pumped off. As of this date no new oil has entered the well bore. Due to the facts this Committee obtained it is probable that the oil entered the well bore from the surface and not from the fresh water acuifer.

Footnote (2)

The Jackson well is reported to have oil; however itis the opinion of this Committee that it is lubricating oil from the water well pump.

- II. Apparent contaminated conditions which exist in the Ogallala formation in the Hobbs Pool area
  - A total of 378 water wells were located in the area. It is believed that 1. this represents about 80 % of the total number of water wells in the Hobbs Pool area
  - Field examination by Committee members discovered 18 water wells suspected 2. to be contaminated. This contamination is in varying degrees, from gas contamination sufficient enough to burn with a small intermittent flame to a slight taste. The wells are as follows:

Name	Location	Decree of Contamination
Gibbins	SW SE NE 4-19-38	Slight Taste Gas
Easton	SW SE NE 4-19-38	Slight Taste Gas
Gackle	SE SE NE 4-19-38	Strong Taste Gas
Security Supply	NW NE NE 5-19-38	Slight Taste Gas
Ohio Oil	SE SE SE 32-18-38	Strong Taste Gas
Baker Tool	SW SE SW 32-18-38	Slight Taste Gas
Harwell	NW NE NE 28-18-38	Strong Taste Gas
Dowell	NE NE NE 28-18-38	Will Burn
Humble Oil	SW NE SW 30-18-38	Moderate Taste Gas
Bensing	NE NW NE 30-18-38	Very Slight Taste Gas
Green	NE NE NE 30-18-38	Very Strong Taste Gas
Mertaugh	NW NE NE 30-18-38	Old Well Would Burn
Moon	NW NE NE 30-18-38	Moderate Taste Gas
Moon	SW NE NE 30-18-38	Moderate Taste Gas
Goins	NE SE NE 30-18-38	Strong Taste Gas
Ellison L-2230	SW SE NE 30-18-38	Moderate Taste Gas
Pacific Pump	NW NE NE 5-19-38	Slight Taste Gas

One of the above water wells (Ohio) is reported to have been contaminated with gas since 1930.

The greatest degree of contamination was found in the Dowell (NE NE NE 28-18-38) water well. This well proved to be contaminated to such an extent that small sporadic flames of gas were observed when a lighted match was held over an opened water faucet.

3. Of the 378 known water wells, 9 are known to be contaminated by oil and 3 are reported to be contaminated oil. The wells known to be contaminated by oil are as follows:

Name			cation	Decree of Contamination
Amerada Pet.	C	: N/2	29-18-38	19.4 feet (See Footnote #1)
Ellison L-2230	#1 9	W NE NE	30-18-38	6.3 feet
<b>F1</b>	# <b>2</b> S	E NW NE	30-18-38	0.5 feet
11	#3 S	E SW NE	30-18-38	0.5 feet
n			30-18-38	0.8 feet
1 <b>11</b>				0.6 feet
11	#11 9		30-18-38	Trace Oil
11	#12 9		30-18-38	2.4 feet
11	#13 S		30-18-38	3.8 feet

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### HOBBS PCOL OPERATORS August 25, 1953

**[**...,

#### ATTENDANCE RECORD

### NAME-

Rex C. Cabaniss Paul D. Sweitzer L. C. Hudry J. S. Hutchins R. W. Yarbrough L. B. Curtis Bill Kearley E. Van Vranken John A. Disch C. J. Merryman D. C. Capps W. G. Abbott Paul S. Johnston C. C. Wilson R. S. Dewey K. C. Heald, Jr. M. M. Rogers Max E. Curry Chas F. Dwyer, Jr. W. B. Macey George E. Trimble S. J. Stanley H. A. DuPont H. E. Massey H. Lucchi E. E. Noble Earl Woolwine R. L. Hendrickson

### COMPANY

### ADDRESS

Shell Oil Company The Texas Company Atlantic Refining Company 11 11 Union Oil Company of Calif. Continental Oil Company Ohio Oil Company 11 11 \*\* Sinclair Oil and Gas Company Sun Oil Company Amerada Petroleum Corporation Ħ 11 11 Texas-Pacific Coal and Oil Co. Continental Oil Company Humble Oil & Refining Company 11 -Ħ \*\* 11 88 11 11 11 Skelly Oil Company Standard Oil Company of Texas Oil Conservation Commission Samedan Oil Corporation • Oil Conservation Commission U. S. Geological Survey Cities Service Oil Company ŧŧ ŧŧ 11 Samedan Oil Corporation 11 11 11 Stanolind Oil and Gas Company

Hobbs, New Mexico Monument, New Mexico Denver City, Texas 11 Ħ 27 Hobbs, New Mexico 11 11 11 12 11 11 11 11 11 22 11 tt Odessa, Texas Monument, New Mexico 11 11 11 Hobbs, New Mexico 22 \*\* 11 Midland, Texas Hobbs, New Mexico 22 .7 12 Ħ 22 Royalty, Texas Santa Fe, New Mexico Midland, Texas Hobbs, New Mexico 11 11 11 11 11 12 11 88 11 Midland, Texas Hobbs, New Mexico 11 11 11

N. M. Oil and Gas Engineering Committee Hobbs, New Mexico 8-26-53. HUEDS AREA & RELATED POOLS

CASING LEAKS & LEAKS REPAIRED JULY 1957

Leak in well head Tested 1500 p.s.i O.K. Remarks 11/13/53 7/26/54 12/3/54 Repaired Date 12/22/53 10/29/53 11/21/53 7/16/54 2/3/57? 7/1/57 8/16/54 7/1/54 7" 1788/1810 7<sup>ii</sup> 964/1894 2187/2211 7" 370° 5" 292/412 
 No
 leak indicated in
 well file

 5"
 Liner
 7" 524

 3871/4232
 10/22053
 1116/1176

 5"
 3911/4235
 7/6/54
 7" 259

 5"
 4243/300
 7/26/54
 7" x 9" ?
 7 x 9 2700 \$ 7" 400/500 7" 524 1116/1176 7" 259 String and Depth of 5" × Leak 74 5" New String 4190?/635 7/26/54 9/10/53 9/23/53 7/7/54 9/11/56 8/29/56 8/25/53 9/22/53 Found Date Leak 5" 99jts. 4% gel. 405 5" Liner @ 3927/4277 Fatch Liner Full String Liner 3136/300 3997/500 3995/200 7" 3938 M.R. 3953/300 3197/450 3976/275 3928/325 3971/350 3970/350 3955/150 6" 4037/300 7" 3856/250 Production 3975/400 4015/300 CASING PROGRAM ( All fractions Dropped) 112 15 12 186 15 15 15 × \* 34 7" 1635/300 9" 2729/600 7" 1573/425 1665/300 2740/400 2756/500 2744/N.R. 2738/500 2757/600 2754/600 2756/600 9" 2758/600 2790/500 2760/300 1637/300 Intermediate 5 116 цó ыb uб шб 16 16 Cost \$2,500 Max Cost \$25,000. 30-18-38 | 12" 245/200 | 9 (Min Cost \$1,900 Max Cost \$15,000 Avg. \$6,516) Hobbs 1-0 28-18-38 12" 222/180 245/150 252/1000 12" 209/165 15" 232/425 15" 223/387 15" 237/235 10" 220/200 12" 210/200 12" 221/250 12" 242/N.R. 12" 232/200 12" 242/100 380/200 Surface 10" 15" 33-18-38 33-18-38 29-18-38 29-18-38 29-18-38 33-18-38 33-18-38 31-18-38 31-18-38 38-18-38 29-16-38 29-18-38 20-18-38 S-T-R NELL & 0--2 ETTY OIL CO. (Opr. by Tidewater) Min McKinley July 4°30 Hobbs 1-G 2-G 2-G 20 1-A 4-H 5 HK 1-M 4-J State A-29 Apr 16'47 Bowers Stafe A-33 Sept 16'30 Hobbs State A-33 Nov 12'31 Hobbs State A-33 Mar 1'32 Hobbs State A-33 Feb 1'33 Hobbs Bowers Hobbs Hobbs Hobbs Hobbs Hobbs Hobbs Hobbs POOL . 00 State B Sept 11730 State B Sept 6 730 Crimes July 14'34 Grimes May 13'35. State A-29 TITLES SERVICE OIL Fowler May 14,30 Fowler Apr 16'34 - DATE COMP-NTL... IIC RFG. CO. MERADA PET. CO. State B **PERATOR** Grimes EASE

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PUOLS	
RECATED.	
c :	
AREA	
HOPBS	

CASING LEAKS & LEAKS REPAIRED JULY 1957

Remarks		\$35,000+							Replaced Surface Connections			·	
Repaired Date	חקוב	7/7/54	9/12/56 a /1. /56	9/6/56	1/10/56	5/22/56 (7/10/46) (3/5/5/.)	5/21/50	1/4/55	4/12/54 7/4/53	6/28 <b>/</b> 54 4/10/54 5/15/54	3/10/101 3/10/101	9/15/47	
bepth of	Leak	7" 227/903 Could not get	circulation Could not get	ΠΟΤΆ ΡΤΠΩ.ΙΤΩ		7" ? 5" 3589/3775 1.80/1.00		7" 425/1687	6" 1049/1030 7" Sur. Nipple	7" above 1203 7" 1725/1935 7 x 9"	7 <sup>11</sup> @ 601	2 m @ 3	
Leak	Found	6/3/54 9/6/56	9/14/56	9/4/56	12/7/55	4/17/56 (7/2/46)	2/14/56	12/28/54	12/28/53 5/24/53	6/21/54 4/2/54 10/8/53	2/27/46 0/ //:7	Aug.28%4	
Liner Patch Liner	Full String	5" 4202 /450			5" Liner	3914/4169 5" 4086/75	5" Liner	5" 250w/4%	477710			5" 3905	
Dropped)	Freduction	7" 3858/250 7" 3998/250		5" 3175/200	7" 3975/250 6" 3959/250		7" 3970/150	7" 4109/1300	611 4200 611 4200 N.A.	7" 3950 N.A. 7" 3954/200 7" 3966/150	711 3974/300	711 3963/300	
(All fractions	-Intermediate	9" 2756/600 9" 2753/600			911 2790/600 911 2761/500	911 2746/350	911 2739/350		9" 3000 9" 3000 N.A.	9" 2750 N.A. 9" 2757/350 9" 2740/350	9" 2738/650	9" 2739/650	
CASING PROGRAM	Surface	12" 251/200 12" 265/200		8 <sup>ii</sup> 1503/400	13" 229/300 13" 221/175	13" 292/200	13" 285/200	13" 281/225	15" 200 15" 200 N. A.	13" 220 N.A. 15" 238/200 13" 212/200	12" 220/210	12" 210/200	
	S-T-Ř	30-18-38 30-18-38	30-18-38	30-18-38	24-18-37 33-18-37	33-18-33	33-18-38	21-13-38	32-18-38 32-18-38	32-18-38 32-18-38 32-18-38 32-18-38	30-18-38 20-18-38	30-18-38	****
	VELL &	2-Н 4-В	1 U 1 V	7 <b>-</b> B	2-A 2-H		4-A	2-N	Hobbs 1-D Hobbs 2-F	9-L	0 0 		
OPERATOR	LEASETIRDATE COMP - POOL	GETTY OIL CO. (Continued) McKinley July 15 '3C Hobbs inley Aug 21 '3C Hobbs	27s	McKinley July 13 147 Bowers	GULF OIL CORP. Graham St. A Aug 10 732 Hobbs Grimes W.D. BNow 1 732 Hobbs	L6 134	Grimes, W.D. Nov 16'34 Hobbs	Grimes, W.D.COct. 16135 Hobbs	Cwimes, W.D. A Apr. 18'30 Hob mes, W.D. A June 13'30 Hob	Grimes, W.D. Feb 16'31 Hobbs Grimes, W.D. July 1'34 Hobbs Grimes, W.D. Sept 16'34 Hobbs	HUMBLE OIL & RFG. CO. Fed. Bowers A Oct 1'30 Hobbs	Fed. Bowers A Sept 1'30 Hobbs	

. :' HOBES AREA & FALATED POOLS

CASING LEAKS & LEAKS REPAIRED JULT 1957

Remarks					,
Repaired Date	10/24/47 5 9/29/47 11/56	3/8/57 9/3/54 9/9/54	3/8/47 6/1/55 3/7/55	3/17/54 12/2/54 11/3/54	
String and Depth of	7" @ ? 7" @ ? Temp Anoms 18°216c&u3676 7" númerou\$6461es	5" 4244/65sz 6/29/57 5" 4244/65sz 6/29/54 7" 266/1567/1200 5" 4235 7/26/54 7" aprox. 1200	8" © 3140 6" 1865 7" © 1500	7" 2095/2126	
Leak Found	10/2/47 8/7/47 8/2/53 8/2/53 9/6/56	1/30/57 \$ 6/29/54 7/26/54	3/8/47 9/24/53 3/8/55	6/18/57 9/10/53 10/13/53? 10/17/53 6/20/57	,
Liner Patch Liner Full String	5" 4208 5" 3940 cir 5" Liner 3347/4190	5" 4244/65s: 5" 4235	5" 4205/675 6" 3952/50		
Dropped) Proflatornt,	7** 3960/300 7** 3960/300 7** 3960/300 7** 3960/300	7" 3900/350 7" 3968/350 7" 3925/225	an 3961/150 8n 3250/60	6" 3920/150 6" 3977/150 6"3950/150 7" 3999/200 7" 3993/100	
CASING PROGRAM (All fractions Dropped) urface Ostent Trtermediâte.ut Thromuc	911 2750/650 911 2750/650 911 2736/650 911 2800 N.A.	9" 2751/550 9" 2750/475 9" 2750/556	10" 1570/75 1.0" 1523/75	10" 2749/300 370" 27827350 9" 2780/330 9" 2780/500 10" 2810/450	
CASING PROGRAM Surface Cenent	12" 204,/200 12" 242/225 12" 203/200 13" 245 N.A.	12" 243/225 12" 205/225 16" 221/250	16" 199/85 16" 152/360	16" 162/55 16" 185/75 13" 212/150 13" 210/200 16" 217/100	
Г S-T-R	30-18-38 30-18-38 " 29-18-38 31-18-38	30-13-38 32-18-38 32-18-38	4/19/38 4/19/38 "	5-19-38 5-19-38 5-19-38 5-19-38 9-19-38	
MELL. & UNIT	4-P 2-J " 3-M 1-K	3-L 3-L 5-C	26-H 33=G 1	1-C 6-D 26-F 29-E 8-B	·
CE BRATCR LEASE - DATE COMP - POOL	HUMBLE OIL & RFG. (Continued) Fed. Bowers A Aug 23'30 Fed. Bowers A Aug 12'30 Red. Bowers A Aug 12'30 Hobbs MAGWCLLA PET. CO. Berry Nov 18'30 Hobbs	OHIO OIL CO. State 30 Oct 3730 Hobbs State 32 Aug 14730 Hobbs State 32 Oct 5730 Hobbs	PAN AMERICAN PET. CORP. Byers NE-4 Mar 1*33 Hobbs 3yers NE-4 Aug 13*30 Hobbs 1. H.D.McKinlev NW-5 Oct. 20130	McKinley Oct 7:30 Hobbs McKinley Dec 9:30 Hobbs McKinley Jan 1'4,5 Hobbs State A "5" May 16'33 Hobbs	

HOBBS AREA & RELATED POOLS

CASING LEAKS & LEANS REPAIRED JULY 1957

	-									
						Liner		String and		
CF ERATOR	TTD.		CASING PROGRAN	CASING FROGRAN (All fractions Dropped)	Droned)	Patch Liner	Leak	Depth of	Repaired	
DERSET DATE DOMP - POOL	E UNT	S-T-5	Surface	Intermediate	Froduction	Full Strins	bound	Leak	Date	Remarks
FAN ANERICAN PET. CORP (Cont)	ר ה ני	10-10-36	ן קאַ <i>/</i> בּוּ	10" 151.375	07/ 5107 33		9/23/53	B <sup>11</sup> 0/227	11/2/54	
Terry 1 Sept 1'32 Hobbs			16. 196/100	10% 1593/75	0	DV 3374/450			13/ 0/ LL	
Terry 2 June 1'32 Hobbs	T-2	JC/19/38	16" 204/125	10" 1597/75	en 4034/150	5. 4175/100	66/82/6		+(/>/+-	
						DV 38397450	11/11/53	0911/2311 سئ	10/17/54	
State B Sept 15730 Hobbs	2-5	33-16-36	12# 200	çi≊ 2300	7:: 4012	511 1515 VIOG 9/25/53	9/25/53	7:4	4/7/54	
0	26-P	3 <b>3-1</b> ⊴£	161: 209/125	10" 2752/400	811 <b>3946 /140</b>	54 4220/300	8/26/4ć	onNo leak found	e/12/46	
State A Tr 3 Nov 30130 Hobbs	26-ĭ	26-2 4-19-38	16" 193/50	10" 3275/650	وي 39&3 <b>/1</b> 00	58 4190/63	E/13/47	🕬 🕆 1043	24/41/2	Liner 3939/4190
State A Tr l Feb 16132 Hobbs	11-C	11-0 4-19-38	164 201/125	10" 2754/400	.:: 3776 <b>/1</b> 50	5% 4212/75	6/30/48	6 <sup>4</sup> ≥ 5 <b>3</b> 6	€/24/48	Liner 3900/4212.
B. H. Turner Tr 1 Sept 1'34 Hobbs		34-18-36	16" 223/90	10ª 1646/350	7:: 3975/150	511 3372/50	2/17/43	7: 815/1180	3/4/43	Liner 3872/4221
SAEDAN CIL CO.										עים הבימים איזיין ערם הבימים איזיין
State B Oct 11'35 Hobbs	1-1	25-13-37	12" 205/175		71 4039/500				45/2T/3	ro recora in wei Zile.
State C June 21'34 Hotbs	2 <b>-</b> K	24-13-37	12" 212/150	çi <sup>ε</sup> 2323/200	7- 3983/150	5" 3917 4171/50	1/2/51	7# > 2163	1/8/51	
SHELL CIL CONFANY (Cost to add packers & Sweet Cil Rice Sept 4,'32 Hobbs 1-P 13-18-37 12"	packer 1-P	rs & Sweet 13-18-37	0il in annulus 12" 228/200	to Floring wells 9" 2786/600	in Hobbs Pool \$ 7:: 3922/250	\$30,000(1953 §	1946) 2/14/57	7' 1500 p.s.i	с Юл <i>(</i> сл	
Rice Dec. 14°35 Hobbs State B June 12°34 Hobbs	3-H 2-C	13-18-37 33-18-38	12" 264/200 12" 296/150	9" 1591/600 9" 2760/150	7:: 3960/160 7:: 3930/250	5° 3884/256 9/2°/53	\$/4/54 9/23/53	7" prove 400	9/3/54	
							, in the second s			
								_		

HOBBS LEAR & TILATED POCLS

CASING LEAKS & LEAKS REPAIRED JULY 1957

Bad Collars Renarks Repaired Date 12/11/55 5/26/54 10/21/53 5/4/54 4/26/54 4/2/54 4/2/54 7/20/50 5/10/57 6/6/57 6/5/57 7<sup>11</sup> 1226/1650 7<sup>11</sup> 1877/1±52 7<sup>14</sup> 77/3790 4<sup>n</sup> 3300/2575 String and No Leak 7" 7 Ko leak Depth of 76 2 300 9/30/53 7" 3100 Leak Ĩ, 12/5/55 9/28/53 9/28/53 9/28/53 5/9/53 4/23/57 7/ /57 7/10/56 3/2/57 3/27/57 3/26/54 Found Leak 4211/325 4: 4072/400 45 4100 NA. 4163/50 4175 NA 4200/65 Patch Liner Pull String 5. 0-572 Liner 55 72 3964/450 72 3973/450 Produétion<sup>†</sup> 3954/225 4000 NA 4000 NA 4000 NA 10001/6601 130 7- 4066/458 7: 4075/250 4060/250 7:: 3550/425 1: 4097/1400 3951/300 CASING PROGRAM (All fractions Dropped) ~~~~ ен. **С**те ..-Intermediateori 2796/1400 2750/1400 2746/500 2900 NA 2900 NA 2900 NA 2900 NA 9" 1645/200 911 2750/600 91 1646/350 2822/725 55 5.5.5.5 ії С 208/300 266/1≅5 12" 192/190 12" 200 NA 12" 200 NA 12" 200 NA 12" 257/155 SH 1592/525 233/700 104 255/175 13" 242/150 12" 252 /200 Surface da 800 2 Z 12:1 J3" 31-1°-3 31-13-33 1-1 23-13-37 3-J 27-15-38 2-8 27-13-33 21-13-38 31-15-38 21-16-38 29-19-36 5-19-38 5-19-38 5-19-38 5-19-38 S-1-2 1-1 UNIT UNIT 2-5 9 1-P 2-0 1-4 2-H 4-G STEEDARD OF TEXAS T/A State Sept 17'30 Bowers McKinley Aug 15730 Hobbs McKinley Aug 13730 Hobbs McKinley Aug 19730 Hobbs McKinley Oct 16730 Hobbs Hobbs Hobbs mger Inv. Co. Jun 15135 Sanger Inv. Cc. Feb. 1'35 Morris B Nov 28 137 Hobbs Hobbs SURRAY MID-CONTINENT CIL CO. Fowler Nov 12'30 Hobbs Hobbs Hobbs State F Dec 10%41 Bowers SOUTHERN PET. EX'L CO. INC. iorris A Mar 1º36 Hobbs Hobbs Hobbs SHELL OIL CC. (Continued) EERSETURDATE COMP - POOL SUN OIL COLPANY SKILLY OIL CO. Fowler. Fowler OPERATOR

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HOBBS ARE4 & WELATED FOOLS

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CASING LEAKS & LEAKS REFAIRED JULY 1957

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		CASING PROGRAM	CASING PROGRAM (All fractions D	Dropped)	Patch Liner	T.eak	Denth of	Renaired	
	S-1-R	Surface Cement	lithtemediater.	Producitionnt	Full String	Found	Leak	Date	Remarks
N N	24-16-37 24-16-37	20" 105/125 12" 215/200	12" 1521/300 9" 2810/400	9" 2815/700 • 7: 3878/300	r7" 3880/200	9/30/53 7 <sup>W</sup> No Leak just remedial	7" 2350 ial	3/15/57 7/9/56	
1-1-1-1	19-18-38 29-18-38	12" 217/200 15" 228/200	9" 2750/600 9" 2715/600	7" 3952/300 7" 3900/300	5" 3691 4233/120	12/18/42 7" x 9" 10/18/46 7" 368/	12/18/44 7" × 9" 10/18/46 7" 368/403	2/23/43 11/1/46	
••	29-18-38	15" 230/200	9" 2718/600	711 3880/300	5" 3350/100	9/25/46	7" Bad Conditions 9/27/46	ons 9/27/46	
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-	TED STATES	N.M. Oil Cons. 1625 N. French	Dr. FORM APPROVED Budget Burgan No. 1004-0125
· · · · · · · · · · · · · · · · · · ·	NT OF THE INTERIOR LAND MANAGEMENT	Hobbs, NM 882	5. Lease Designation and Serial No.
•			NMLC032233A
Do not use this form for proposals to d	AND REPORTS ON W rill or to deepen or reent R PERMIT" for such p	ry to a different reservoir.	6. If Indian, Allottee or Tribe Name
	T IN TRIPLICATE		7. If Unit or CA, Agreement Designation
I. Type of Well Oil Gas Well Well X Other OTI, WE		מקדד	8. Well Name and No.
2. Name of Operator	LLS IN OGALLALA AQ	DIFER	GRIMES (see attached
WINDMILL OIL COMPANY	·	···	9. API Well No.
3. Address and Telephone No.	WW 00040 E0E /0	, , ,	10. Field and Pool, or Exploratory Area
1008 W. BROADWAY, HOBBS, 4. Location of Well (Footage, Sec., T., R., M., or Survey I	NM 88240 505/3 Description)	93-2727	HOBBS OGALLALA
	· · ·		11. County or Parish, State
			LEA, NM
12. CHECK APPROPRIATE BOX	S) TO INDICATE NAIL	· · · · · · · · · · · · · · · · · · ·	NI, UN UINER DAIA
		TYPE OF ACTION	
X Notice of Intent			Change of Plans
Subsequent Report	Recomplet		New Construction
			Water Shut-Off
Final Abandonment Notice	Altering C	esing	Conversion to Injection
	Other	· `	Dispose Water (Note: Report results of multiple completion on W
P&A'D 04/01/2000 Pulled approx. 10' csg wells not more than 55'		lled hole to surface	e - shallow
· · · ·			-
		Approved as to plug Liability under bond gurtaga restoration is	In paralments
14. I hereby certify that the foregoing is true and correct Signed Signed	Title	Agent	Date05/31/2000
(Oplice SGD.) DAVID R. voved by (Oplice SGD.) DAVID R. vors of approval, if any:	GLASS Title PETR	oleum engineer	Date JUN 0 1 2000
<u>CEF ATTACHED</u>	FOR PROVAL <sup>ally to make to a</sup>	ny department or agency of the United	states any faise, fictitious or fraudulent statem
SUA distant & Minthal MA in Minthouns. In	*See Instruction on		

Windmill Oil Company Attachment to Sundry Notice Grimes P & A All in Section 30, Township 18 South, Range 38 East Lea County, New Mexico

Grimes #2 #3 #8 #11 #12 #14 #21 #26 #30 #33 #35

#36 #39

BUREAU U		DII CG:18. DIVISICI N. French Dr. N. M. 7824 S. Lease Designation and Serial No.
Do not use this form for proposals to	S AND REPORTS ON WELLS drill or to deepen or reentry to a differe OR PERMIT—" for such proposals	<u>NMLC032233A</u> 6. If Indian, Allottee or Tribe Name nt reservoir.
SUBM	IT IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Oil Gas Well Well Other OTI. W		8. Well Name and No.
2. Name of Operator	ELLS IN OGALLALA AQUIFER	GRIMES (see attached
WINDMILL OIL COMPANY 3. Address and Telephone No.		9. API Well No.
3. Address and Telephone No.	. NM 88240 505/393-2727	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey		HOBBS OGALLALA
		11. County or Parish, State
		LEA, NM
2. CHECK APPROPRIATE BOX	X(s) TO INDICATE NATURE OF NOT	
TYPE OF SUBMISSION		E OF ACTION
X Notice of Intent	X Abandonment	Change of Plans
		New Construction
X Subsequent Report	Plugging Back	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	Other	(Note: Report results of multiple completion on
P&A'D 04/01/2000	from ea. well & filled hole	to surface - shallow
Pulled approx. 10' csg wells not more than 55		
	j' deep.	
	j' deep.	ved as to plugging of the seal ball. W under band is retained unit a restoration is completed.
wells not more than 55 4. I hereby certify that the foregoing is true and correct	j' deep.	ved as to plugging of this and basis. Y under band is retained total a restoration is completed. 05/31/2000
Wells not more than 55 14. I hereby certify that the foregoing is true and correct Signed	/tipro Liebus Juffag Tide Agen:	t Date05/31/2000
4. I hereby certify that the foregoing is true and correct Signed	Agen Title Agen R. GLASS Title PETROLEUM EN	t 05/31/2000 GINEER

Windmill Oil Company Attachment to Sundry Notice Grimes P & A All in Section 30, Township 18 South, Range 38 East Lea County, New Mexico

Grimes #2 #3 #8 #11 #12 #14 #21 #26 #30 #33 #35 #36

#39

		N.M. Oil Cons. E	<b>Divis</b> ica
	UNITED STATES MENT OF THE INTERIOR OF LAND MANAGEMENT	1625 N. French I Hobbs, NM 3824	Dr. FORM APPROVED Budget Burgen No. 1004-0135
Do not use this form for proposals	CES AND REPORTS ON WE to drill or to deepen or reentry N FOR PERMIT—" for such pro	to a different reservoir.	NMLC032233A 6. If Indian, Allottee or Tribe Name
SUI	BMIT IN TRIPLICATE		7. If Unit or CA, Agreement Designation
Type of Well     Oil     Oil     Well     Well     Well     Well     Other     OII     Other     OII	WELLS IN OGALLALA AQUI	FER	8. Well Name and No.
WINDMILL OIL COMPANY 3. Address and Telephone No.			GRIMES (see attached lis 9. API Well No.
1008 W. BROADWAY, HOP 4. Location of Well (Footage, Sec., T., R., M., or Su	BS, NM 88240 505/393 rvey Description)	3-2727	<ol> <li>Field and Pool, or Exploratory Area HOBBS OGALLALA</li> <li>County or Parish, State</li> <li>LEA, NM</li> </ol>
12. CHECK APPROPRIATE E	BOX(s) TO INDICATE NATUR	E OF NOTICE, REPOR	
TYPE OF SUBMISSION		TYPE OF ACTION	
X Notice of Intent X Subsequent Report	Abandonment	k	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off
Final Abandonment Notice	Altering Casi		Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
<ol> <li>Describe Proposed or Completed Operations (Clearly give subsurface locations and measured and trus P&amp;A *D 04/01/2000</li> </ol>	state all pertinent details, and give pertinent dat e vertical depths for all markers and zones per	es, including estimated date of starting a tinent to this work.)*	ny proposed work. If well is directionally drilled.
Pulled approx. 10' of wells not more than	sg from ea. well & fill 55' deep.	led hole to surface	- shallow
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		· .	;; .
		Anproved as to plugg Lipbility under bond is dufface restoration is	
14. I hereby certify that the foregoing is true and correct Signed Dury Heard	z Title	Agent	Date05/31/2000
(This space for Federal or State office use) Approved by(OP.IG. SGD.) DAVII Conditions of approval, if any:	DR. GLASS	LEUM ENGINEER	JUN 0 1 2090
Title 18 U.S.C. Section 100 maker in the T	DFOR APPROVAL <sup>tully to make to any</sup>	department or agency of the United S	tates any false, fictitious or fraudulent statements
	*See instruction on Re	verse Side	

<b>*</b> **		The mark that a second s	N.M. Oil Cons.	Jivisica
Form 3160-5 (June 1990)	DEPARTME	ITED STATES NT OF THE INTERIOR LAND MANAGEMENT	1625 N. French Hobbs, NM 082	Dr. FORM APPROVED Budget Burgan No. 1004-0135
Do not use th	his form for proposals to d	AND REPORTS ON WI rill or to deepen or reentry PR PERMIT—" for such pro-	to a different reservoir.	NMLC032233A 6. If Indian, Allottee or Tribe Name
· · · · · · · · · · · · · · · · · · ·	SUBMI	T IN TRIPLICATE		7. If Unit or CA, Agreement Designation
1. Type of Well Oil Well 2. Name of Operator	Gas Well Other OIL WE	LLS IN OGALLALA AQU	IFER	8. Well Name and No. GRIMES (see attached list
WIND 3. Address and Telep	MILL OIL COMPANY	·····		9. API Well No.
4. Location of Well (	WBROADWAY, HOBBS, (Footage, Sec., T., R., M., or Survey E	<u>NM 88240 505/39</u> Rescription)	3-2727	10. Field and Pool, or Exploratory Area         HOBBS       OGALLALA         11. County or Parish, State         LEA, NM
12. CHE	CK APPROPRIATE BOX	s) TO INDICATE NATU	RE OF NOTICE, REPO	
	E OF SUBMISSION		TYPE OF ACTION	
_	otice of Intent ubsequent Report	X Abandonmer Recompletio Plugging Ba Casing Repa	n Sk	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off
D F	inal Abandonment Notice	Altering Cas		Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
give subsurfa P&A Pul	or Completed Operations (Clearly state a ce locations and measured and true vertic 'D 04/01/2000 led approx. 10' csg ls not more than 55'	cal deputs for all markers and zones pe from ea. well & fil	rtinent to this work.)*	g any proposed work. If well is directionally drilled. e - shallow
WET	IS NOT MOLE LIAM 33			
	· · ·			
			711/211946d as to plug Liegility under bond guffage restoration (	10 Valala in an
14. I hereby certify the Signed	at the foregoing is true and correct x. Heard	Tide	Agent	Date 05/31/2000
	deral or State office use) (OPIG. SGD.) DAVID R. roval, if any:		Leum Engineer	JUN 0 1 2000
Title 18 U.S.C. Section	<u>REE ATTACHED</u>	FOR PROVATeday to make to an	department or agency of the United	States any false, fictitious or fraudulent statements
······································		*See Instruction on R	everse Side	<u> </u>

- A.J.-

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<b>2 * 5</b>			N.M. Oil Cons.	<b>Divis</b> ica
Form 3160-5 (June 1990)	DEPARTME	TED STATES NT OF THE INTERIOR LAND MANAGEMENT	1625 N. French Hobbs, NM 382	I Budget Bureau No. 1004-0135
Do not use this	form for proposals to d	AND REPORTS ON WE rill or to deepen or reentry R PERMIT—" for such pro	to a different reservoir.	NMLC032233A 6. If Indian, Allottee or Tribe Name
	SUBMIT	IN TRIPLICATE	· · · · · · · · · · · · · · · · · · ·	7. If Unit or CA, Agreement Designation
1. Type of Well Oil Gas Well Wel 2. Name of Operator	LL OIL COMPANY	LLS IN OGALLALA AQUI	FER	8. Well Name and No. GRIMES (see attached list 9. API Well No.
3. Address and Telephone 1008 W		<u>NM 88240 505/393</u> escription)	-2727	10. Field and Pool, or Exploratory Area HOBBS OGALLALA 11. County or Parish, State
12. CHECK		s) TO INDICATE NATUR	E OF NOTICE, REPO	LEA, NM RT, OR OTHER DATA
	FSUBMISSION		TYPE OF ACTION	
-	e of Intent quent Report Abandonment Notice	X Abandonment Recompletion Plugging Back Casing Repair Altering Casin Other	K .	Change of Plans Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
P&A'D Pulle	04/01/2000	aidepths for all markers and zones per from ea. well & fill deep.		e – shallow
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			Character of the plug Classifies under bond durface restoration (	sein <b>g of the stall Lumb.</b> Is retsin <b>ed Lumb</b> s completed.
14. I hereby certify that the Signed	e foregoing is true and correct Heart	Title	Agent	Date 05/31/2000
	P.IG. SGD.) DAVID R.		LEUM ENGINEER	JUN 0 1. 2000
Title 18 U.S.C. Section II or representations as to an	EE ATTACHED			i States any false, fictitious or fraudulent statements
		*See instruction on Re	verse side	

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		70	N.M. Oil Cons	
J-5 ,90)	UNITED STAT DEPARTMENT OF THE	<b>INTERIOR</b>	1625 N. Frenc Hobbs, NM 38	324 Expires: March 31, 1993
•	BUREAU OF LAND MA	NAGEMENT		5. Lease Designation and Serial No.
	DRY NOTICES AND REP			6. If Indian, Allottee or Tribe Name
	r proposals to drill or to de PPLICATION FOR PERMIT-			r.
	SUBMIT IN TRIPL	ICATE		7. If Unit or CA, Agreement Designation
1. Type of Well Oil Gas Well Well X Or	therOIL WELLS IN O	GALLALA AQUIF	R	8. Well Name and No.
2. Name of Operator	20WD3 NT			GRIMES (see attached 9. API Well No.
WINDMILL OIL 3. Address and Telephone No.	COMPANY			
	DWAY, HOBBS, NM 8824	0 505/393-	2727	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., 1				HOBBS OGALLALA
		•		11. County or Parish, State
				LEA, NM
12. CHECK APPRO	OPRIATE BOX(s) TO IND	ICATE NATURE	OF NOTICE, REPO	
	SSION		TYPE OF ACTIO	N
Notice of Intent		Abandonment		Change of Plans
X Subsequent Report		Recompletion		New Construction
ron 2nosedneut kebou	·	Casing Repair		Water Shut-Off
Final Abandonmen	nt Notice	Altering Casing		Conversion to Injection
		Other		(Note: Report results of multiple completion on W
<ol> <li>Describe Proposed or Completed O give subsurface locations and it</li> </ol>	measured and true vertical deputs for all	markers and zones pertine	at to this work.)*	
<ol> <li>Describe Proposed or Completed Og give subsurface locations and i P&amp;A *D 04/01,</li> </ol>	÷	markers and zones pertind	at to this work.)*	,,,,,,, _
give subsurface locations and p P&A'D 04/01, Pulled appr	/2000 ox. 10' csg from ea.	•	· · · · · · · · · · · · · · · · · · ·	
give subsurface locations and p P&A'D 04/01, Pulled appr	/2000	•	· · · · · · · · · · · · · · · · · · ·	
give subsurface locations and p P&A'D 04/01, Pulled appr	/2000 ox. 10' csg from ea.	•	· · · · · · · · · · · · · · · · · · ·	
give subsurface locations and p P&A'D 04/01, Pulled appr	/2000 ox. 10' csg from ea.	•	· · · · · · · · · · · · · · · · · · ·	
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give subsurface locations and p P&A'D 04/01, Pulled appro	/2000 ox. 10' csg from ea.	•	· · · · · · · · · · · · · · · · · · ·	
give subsurface locations and p P&A'D 04/01, Pulled appr	/2000 ox. 10' csg from ea.	•	A hole to surfa A hole to surfa COPROVED as to public Liebility under bon	ce - shallow
give subsurface locations and P&A'D 04/01, Pulled appr wells not m	/2000 ox. 10' csg from ea. ore than 55' deep.	•	hole to surfa	ce - shallow
give subsurface locations and p P&A 'D 04/01, Pulled appr wells not m 14. I hereby cergify that the foregoing	/2000 ox. 10' csg from ea. ore than 55' deep.	well & fille	A hole to surfa A hole to surfa COPROVED as to public Liebility under bon	ce - shallow
give subsurface locations and the P&A 'D 04/01, Pulled approvells not movells not movella not movells not movells not movella	/2000 ox. 10' csg from ea. fore than 55' deep.	well & fille	Approved as to philipping a store to surface restoration	ce - shallow
give subsurface locations and the p&A 'D 04/01, Pulled approved by	/2000 ox. 10' csg from ea. fore than 55' deep.	well & fille	Anproved as to plus Liebility under bon sufface restoration	ce - shallow
give subsurface locations and the P&A 'D 04/01, Pulled approvells not movells not movella not movells not movells not movella	/2000 ox. 10' csg from ea. fore than 55' deep.	well & fille	Approved as to philipping a store to surface restoration	ce - shallow
give subsurface locations and the p&A 'D 04/01, Pulled approved by	/2000 fox. 10' csg from ea. fore than 55' deep. is true and correct ffice use) GD.) DAVID R. GLASS GD.) DAVID R. GLASS The	well & fille	Anproved as to phy Liebility under bon surface restoration Agent	ce - shallow

(990) DEPARTME	TED STATES NT OF THE INTERIOR LAND MANAGEMENT	N.M. Oil Cons. 1625 N. French Hobbs, NM 382	Dr. Fo Budget	RM APPROVED Bureau No. 1004-0135 res: March 31, 1993 mation and Serial No.
Do not use this form for proposals to d	AND REPORTS ON WE rill or to deepen or reentry R PERMIT—" for such pro	to a different reservoir.		032233A Illottee or Tribe Name
	T IN TRIPLICATE	<u>,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, </u>	7. If Unit or C	CA, Agreement Designation
	LLS IN OGALLALA AQUI	FER	8. Well Name a	and No.
2. Name of Operator WINDMILL OIL COMPANY 3. Address and Telephone No.			9. API Well No	
1008 W. BROADWAY, HOBBS, 4. Location of Well (Footage, Sec., T., R., M., or Survey E	<u>NM 88240 505/393</u> Rescription)	-2727		ool, or Exploratory Area OGALLALA Parish, State
2. CHECK APPROPRIATE BOX	S) TO INDICATE NATUR	E OF NOTICE BEPO	LEA, BT. OB OTH	
TYPE OF SUBMISSION		TYPE OF ACTION		
X Notice of Intent	X Abandonment			
Subsequent Report	Plugging Back	k ·	New Con	tine Fracturing
Final Abandonment Notice	Altering Casi		Conversio	on to Injection
3. Describe Proposed or Completed Operations (Clearly state a give subsurface locations and measured and true verts P&A'D 04/01/2000 Pulled approx. 10' csg wells not more than 55'	from ea. well & fill	tinent to this work.)*		:
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		Citality and as to plug Linkiliky under bond durfaga restoration (	18 7865/mail	
14. I hereby certify that the foregoing is true and correct Signed Signed	Tide	Agent	Date	05/31/2000
(This space for Federal or State office use) Approved by (ORIG. SGD.) DAVID R. Conditions of approval, if any:		LEUM ENGINEER		JUN 0 1 2890
Constitutions of approver, it may				
Title 18 U.S.C. Section JUOL makers in the Party of the P		department or agency of the United		

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		ED STATES	1625 N. French	
(June 1990)		OF THE INTERIOR	Hobbs, NM 88	5. Lease Designation and Serial No.
S	SUNDRY NOTICES A	ND REPORTS ON WE		NMLC032233A
Do not use this form	n for proposals to dril	or to deepen or reentry PERMIT—" for such pro	to a different reservoir.	6. If Indian, Allottee or Tribe Name
		N TRIPLICATE		7. If Unit or CA, Agreement Designation
I. Type of Well				
2. Name of Operator	X Other OIL WELL	LS IN OGALLALA AQU	IFER	8. Well Name and No.
•	OIL COMPANY			GRIMES (see attached 9. API Well No.
-	ROADWAY, HOBBS, I	M 88240 505/39	3-2727	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, S	Sec., T., R., M., or Survey Des			HOBBS OGALLALA
		· .		11. County or Parish, State
				T DA NM
12. CHECK AP				LEA, NM
· · · · · · · · · · · · · · · · · · ·				RT, OR OTHER DATA
			TYPE OF ACTION	· · · · · · · · · · · · · · · · · · ·
X Notice of Int	tent	Abandonmen	,	Change of Plans
X Subsequent F				
LALI Subsequent P	Kepon			Water Shut-Off
Final Abando	onment Notice			Conversion to Injection
		Other		Dispose Water
				(Note: Report results of multiple completion on Completion or Recompletion Report and Log fo
give subsurface locations				
P&A'D 04, Pulled ap		com ea. well & fil. leep.	led hole to surfac	e - shallow
P&A'D 04, Pulled ap	pprox. 10' csg fi		led hole to surfac	e - shallow
P&A'D 04, Pulled ap	pprox. 10' csg fi		led hole to surfac	e - shallow
P&A'D 04, Pulled ap	pprox. 10' csg fi		led hole to surfac	e - shallow
P&A'D 04, Pulled ap	pprox. 10' csg fi		led hole to surfac	e - shallow
P&A'D 04, Pulled ap	pprox. 10' csg fi		Approved as to plug Liebility under band Suffage restoration	eging of the well take,
P&A'D 04, Pulled an wells not	pprox. 10' csg fi t more than 55' d	leep.	Approved as to plug Liebility under bond surface restoration	Seing of the maticula, is retained unit is completed.
P&A'D 04, Pulled an wells not 14. I hereby certify that the foreg Signed	pprox. 10' csg fi t more than 55' o going is true and correct Kard	leep. 	Appinyed as to plug Liebility under bond surfage restoration Agent	Eging of the and take, is retained units a completed, Date05/31/2000
P&A'D 04, Pulled an wells not 14. I hereby certify that the foreg Signed (This space for Federal or Sto (OPIG	pprox. 10' csg fi t more than 55' o going is true and correct Kard	leep. 	Approved as to plug Liebility under bond surface restoration	Eging of the and Laim, is retained unit s completed. Date05/31/2000 JUIN 0 1 2090
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P&A'D 04, Pulled ap wells not 14. I hereby certify that the force Signed	pprox. 10' csg fi t more than 55' of going is true and correct Kard Take office use) a. SGD.) DAVID R. G	Title LASS Title Title	Approved as to plug Liebility under bond surfage restoration Agent LEUM ENGINEER	Eging of the and Laim, is retained unit s completed. Date05/31/2000 JUIN 0 1 2090

Č.	1		N.M. Oil Cons.	Divisica
Form 3160-5 (June 1990)	DEPARTME	ITED STATES NT OF THE INTERIOR LAND MANAGEMENT	1625 N. French Hobbs, NM 38	PT. FORM APPROVED
	form for proposals to d	AND REPORTS ON V rill or to deepen or reent R PERMIT—" for such p	ry to a different reservoir.	NMLC032233A 6. If Indian, Allottee or Tribe Name
	SUBMI	T IN TRIPLICATE		7. If Unit or CA, Agreement Designation
1. Type of Well Oil Gas Well Well 2. Name of Operator	X Other OIL WE	LLS IN OGALLALA AQ	UIFER	8. Well Name and No. GRIMES (see attached list
WINDMII 3. Address and Telephone	LL OIL COMPANY		······································	9. API Well No.
4. Location of Well (Foot	BROADWAY, HOBBS, age, Sec., T., R., M., or Survey E	<u>NM 88240 505/3</u> (escription)	93-2727	10. Field and Pool, or Exploratory Area HOBBS OGALLALA 11. County or Parish, State
12. CHECK	APPROPRIATE BOX	s) TO INDICATE NATI	JRE OF NOTICE, REPO	LEA, NM RT, OR OTHER DATA
TYPE OF	SUBMISSION		TYPE OF ACTION	
Final A 13. Describe Proposed or C give subsurface loc P&A 'D Pullec	uent Report Abandonment Notice ompleted Operations (Clearly state a cations and measured and true vertis 04/01/2000	aidepths for all markers and zones from ea. well & fi	tion Back pair Casing dates, including estimated date of startin	Change of Plans  Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) ag any proposed work. If well is directionally drilled,
	<u>.</u>	:	Copinyed as to plu Liebility under bond duffaus restoration	zzing of the and take, is retained taxes is completed.
Han	foregoing is true and correct	Title	Agent	05/31/2000
Conditions of approval,	PIG. SGD.) DAVID R		OLEUM ENGINEER	
Title 18 U.S.C. Section III or representations as to any	EF ATTACHED			i States any false, fictitious or fraudulent statements
		*See instruction on	ua <b>46126</b> 9106	

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	UNITED STATES EPARTMENT OF THE INT REAU OF LAND MANAG	TERIOR Hob	I. Oil Cons. Div 5 N. French Dr. bs, NM 3824 <u>0</u> 5.	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 Lease Designation and Serial No.
Do not use this form for prop	NOTICES AND REPORT posals to drill or to deepen CATION FOR PERMIT—" fe	or reentry to a diff		NMLC032233A If Indian, Allottee or Tribe Name
	SUBMIT IN TRIPLICA	TE	7.	If Unit or CA, Agreement Designation
. Type of Well Oil Gas Well Well X Other	OIL WELLS IN OGALI			Well Name and No.
Ull Gas Other		GRIMES (see attached ]		
WINDMILL OIL COM	PANY		9.	API Well No.
Address and Telephone No.	HORRS NM 00040	505/393-2727	10.	Field and Pool, or Exploratory Area
Location of Well (Footage, Sec., T., R., I	M., or Survey Description)			HOBBS OGALLALA
	. · ·		11.	. County or Parish, State
	, 			LEA, NM
CHECK APPROPRI	ATE BOX(s) TO INDICAT	TE NATURE OF N	OTICE, REPORT,	
TYPE OF SUBMISSION	······································		TYPE OF ACTION	
X Notice of Intent		X Abandonment		Change of Plans
_		Recompletion		New Construction
X Subsequent Report	}	Plugging Back Casing Repair	Ĺ	Water Shut-Off
Final Abandonment Notice	.   <u>`</u>	Altering Casing	Ĭ	Conversion to Injection
	<u> </u>		=	
Describe Proposed or Completed Operations give subsurface locations and measure	s (Clearly state all pertinent details, and g ed and true vertical depths for all marke	Other	estimated date of starting any p	Dispose Water Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.
give subsurface locations and measure P&A <sup>*</sup> D 04/01/200	ed and true vertical depths for all marke )0 10' csg from ea. we]	give pertinent dates, including and zones pertinent to this	C estimated date of starting any p work.)*	Dispose Water Note: Report results of multiple completion on Wel Completion or Recompletion Report and Log form. proposed work. If well is directionally drill
give subsurface locations and measure P&A'D 04/01/200 Pulled approx.	ed and true vertical depths for all marke )0 10' csg from ea. we]	give pertinent dates, including and zones pertinent to this	C estimated date of starting any p work.)*	Dispose Water Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) proposed work. If well is directionally drille
give subsurface locations and measure P&A'D 04/01/200 Pulled approx.	ed and true vertical depths for all marke )0 10' csg from ea. we]	Other give pertinent dates, including, ars and zones pertinent to this ll & filled hol	C estimated date of starting any p work.)*	Dispose Water Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) proposed work. If well is directionally drille shallow
give subsurface locations and measure P&A'D 04/01/200 Pulled approx.	od and true vertical depths for all marke	Other give pertinent dates, including of an and zones pertinent to this 11 & filled hol 11 & filled hol 01 01 01 01 01 01 01 01 01 01 01 01 01	cetimated date of starting any p work.)* .e to surface - .e to	Dispose Water Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) proposed work. If well is directionally drille shallow
give subsurface locations and measure P&A'D 04/01/200 Pulled approx. wells not more . I hereby certify that the foregoing is true a Signed Markana	ed and true vertical depths for all marke 10' csg from ea. wel than 55' deep. and correct	Other give pertinent dates, including ars and zones pertinent to this ll & filled hol (): Lie gu	cetimated date of starting any p work.)* .e to surface - .e to	Dispose Water Note: Report results of multiple completion on Wel Completion or Recompletion Report and Log form. proposed work. If well is directionally drill shallow shallow

'See Instruction on Reverse Side

		k se statistica se	N.M. Oil Coas. i	<b>Divis</b> ica		
Form 3160-5 (June 1990)	UNITED STATE DEPARTMENT OF THE BUREAU OF LAND MAN	INTERIOR	1625 N. French Hobbs, NM 382	Dr. Budget	DRM APPROVED Bureau No. 1004-013 ires: March 31, 1993 gnation and Serial No.	- ,
Do not use this form t	JNDRY NOTICES AND REPO for proposals to drill or to deep "APPLICATION FOR PERMIT—"	DRTS ON WEL	o a different reservoir.	NMLC	2032233A Alloue or Tribe Name	
	SUBMIT IN TRIPLIC	CATE		7. If Unit or (	CA, Agreement Design	nation
1. Type of Well Oil Gas Well Well	Other OIL WELLS IN OGA	LLALA AOUTE	'ER	8. Well Name a	ind No.	
2. Name of Operator WINDMILL OI				_	S (see attack	hed list)
3. Address and Telephone No. <u>1008 W. BRC</u> 4. Location of Well (Footage, Sec	OADWAY, HOBBS, NM 88240 c., T., R., M., or Survey Description)	505/393-	-2727	HOBBS 11. County or I		
I2. CHECK APP	PROPRIATE BOX(s) TO INDIC	ATE NATURE	OF NOTICE PERCE	LEA,		
TYPE OF SUB	······		TYPE OF ACTION	., on UII		
X Notice of Inten		X Abandonment		Change o	of Plans	
X Subsequent Rep		Recompletion Plugging Back		New Con	nstruction nine Fracturing	
Final Abandonr	ment Notice	Casing Repair Altering Casing Other		Dispose	on to Injection	
give subsurface locations an	d Operations (Clearly state all pertinent details, a and measured and true vertical depths for all ma	and give pertinent dates, arkers and zones pertin	, including estimated date of starting sent to this work.)*		Recompletion Report and Lo	
P&A'D 04/0	01/2000					
	prox. 10' csg from ea. w more than 55' deep.	well & fill(	ed hole to surface	e – shallc	אכ	
	· · ·		Amplemed as to plugg Clability under bond to durfage restoration is	10 Valata (1)	18 (2010), 19	
14. I hereby certify that the foregoin	and		• • • •		05/31/2020	 D
Signed De Contra	Title		Agent	Date	05/31/2000	
Approved by (ORIG. Conditions of approval, if any:	SGD.) DAVID R. GLASS	PETROL	EUM EHGINEER	Date	JUN 0 1 200	N
	ATTACHED FOR	R.H.				
Title 18 U.S.C. Section 101 makes or representations as to any makes			epartment or agency of the United S	States any false, fi	ictitious or fraudulent	statements
··	*See In	struction on Rev	erse Side			

		N.M. Oil Cons.	<b>Divisi</b> ca	
(June 1990) DEPARTME	NTED STATES ENT OF THE INTERIOR LAND MANAGEMENT	1625 N. French Hobbs, NM 082	24 Budget Expi	ORM APPROVED Bureau No. 1004-0135 res: March 31, 1993 gnation and Serial No.
Do not use this form for proposals to o	S AND REPORTS ON WEI drill or to deepen or reentry f OR PERMIT—" for such prop	o a different reservoir.	NML( 6. If Indian, A	2032233A Allottee or Tribe Name
SUBMI	IT IN TRIPLICATE		7. If Unit or (	CA, Agreement Designation
1. Type of Well         Oil         Well         Well         Well         Other         OIL Will         2. Name of Operator         WINDMILL OIL COMPANY	ELLS IN OGALLALA AQUI	FER	8. Well Name GRIMI 9. API Well N	S (see attached list
<ol> <li>Address and Telephone No.</li> <li><u>1008 W. BROADWAY, HOBBS</u></li> <li>Location of Well (Footage, Sec., T., R., M., or Survey</li> </ol>	<u>, NM 88240 505/393</u> Description)	-2727	-	
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATUR	E OF NOTICE, REPO		
TYPE OF SUBMISSION		TYPE OF ACTION	· · · · ·	
X Notice of Intent X Subsequent Report	Abandonment Recompletion Plugging Back		Non-Rou	astruction time Fracturing
Final Abandonment Notice	Casing Repair Altering Casin Other	3	_ Dispose	on to Injection
give subsurface locations and measured and true ver P&A'D 04/01/2000 Pulled approx. 10' csg wells not more than 55	from ea. well & fill		e - shallo	۰ <b>WC</b>
· · · · · · · · · · · · · · · · · · ·	· · ·	Connections to plug Linkilley under bond sufface restoration b	IS TREAMS	
14. I hereby certify that the foregoing is true and correct	**** <u>*********************************</u>		<u></u>	<u> </u>
Signed Day Heard	Title	Agent	Date	05/31/2000
(This space for Federal or State office use) Approved by (ORIG. SGD.) DAVID F Conditions of approval, if any:	R. GLASS THE PETROL	EUM ENGINEER	Date	JUN 0 1 2000
Title 18 U.S.C. Section 1101 maleret a time in an pro-	*See Instruction on Rev	lepartment or agency of the United	States any false, f	ictitious or fraudulent statements

	A CONTRACT OF A	en en en en en en engeger en	N.M. Oil Cons.	Divisica
Form 3160-5 (June 1990)	UNITED STAT DEPARTMENT OF THI BUREAU OF LAND MA	E INTERIOR	1625 N. French Hobbs, NM 382	Dr. FORM APPROVED
Do not use this form	UNDRY NOTICES AND REP for proposals to drill or to de "APPLICATION FOR PERMIT	epen or reentry t	o a different reservoir.	NMLC032233A 6. If Indian, Allottee or Tribe Name
	SUBMIT IN TRIPL	LICATE		7. If Unit or CA, Agreement Designation
	Other OIL WELLS IN O	GALLALA AQUII	PER	8. Well Name and No.
2. Name of Operator WINDMILL O 3. Address and Telephone No.	DIL COMPANY			GRIMES (see attached list 9. API Well No.
<u>1008 W. BR</u>	OADWAY, HOBBS, NM 8824 x., T., R., M., or Survey Description)	0 505/393	-2727	10. Field and Pool, or Exploratory Area HOBBS OGALLALA 11. County or Parish, State LEA, NM
I2. CHECK API	PROPRIATE BOX(s) TO IND		E OF NOTICE, REPO	
TYPE OF SUE	MISSION		TYPE OF ACTION	· · · · · · · · · · · · · · · · · · ·
X Notice of Inte		X Abandonment Recompletion Plugging Back		Change of Plans Change of Plans New Construction Non-Routine Fracturing
Final Abando	nment Notice	Casing Repair Altering Casing Other	s	Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
give subsurface locations P&A'D 04/ Pulled ap	and measured and true vertical depths for all	l markers and zones perti	nent to this work.)*	g any proposed work. If well is directionally drilled, e - shallow
werts not	. <i>more enen 33 dee</i> p.			
			·	· · ·
	• .		Control of the plug Cleaning under bond dufface restoration (	zging of the and take, is retained take is completed.
14. I hereby certify that the forego	oing is true and correct	le	Agent	Date 05/31/2000
	SGD.) DAVID R. GLASS	PFTROL	EUM ENGINEER	
Title 18 U.S.C. Section 1001		fully to make to any o	lepartment or agency of the United	l States any false, fictitious or fraudulent statements
		Instruction on Rev	erse Side	

Grimes #2 #3 #8 #11 #12 #14 #21 #26 #30 #33 #35 #36

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#39

# Lawyer Displays-Samples Showing Pollution by C

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e rains > from led .83 s Ad-Lea r skies ughout ernoon 18 of-

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By VIC JAMESON TER oilwells may be penetrating this area's water pearing sands and threatening Hobbs' \$2 million water system last night promited city officials to seek state corrective action. Make Corrective action. A server City commissioners agreed to apply to the Oil Conservation Commission for a hearing on the case. Their decision came after the presentation of evidence by attorneys W. D. Girand and S. O. Walton, indicating that some private wells already contain as heavy concentration of oil. The problem was brought are by Girand, who appeared before the commissioners in tan other wise foutine mid-month meeting. Cited in his discussion was an area about a mile and one-half west of Turner where it high sects with Bender Blvd, on prop-erty owned by W. H. Ellisonsee A number of tests were mide there, around an oilwell that here eral years ago was found to have there around an ollwall that first eral years ago was found to have a leaky casing, Girand gaid Uning-teen water wells were inrelied around the offiwell, and follose south and east of the oil installing lies were cound to have all in the water, we added dirand alishayed five follow of fluid which, he explained, came from 30 and 35 foot wells in the area concarned. Both con-tained liquid that anteared to be nearly completely oil. The dil apparently is that which leaked from wells in the past, he-fore chaing leaks were discover-ed and sorrected several years ago, Girand said.

tawyer Displays ---

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"but we have no way of knowing deck how much all ballated the water sheen sands before they were correct ago, ed." is the Oll that het

H s ago, cu. ig the Oli that backs into water bear-in an up sands pould migrate' into enemy central areas and eventually be nds. It pulled into the dity's mater sys-that ten, the officials theorized This, t could they said, could foul the entire events more than a set of the officials theorized the entire system which now represents in Ħ ¢π. SI i could iney said, could foul the entire strang-of the sailors because tion was presented by Walton, rs later who said oil in a water aupply has "ruined three lawns" for G a ack in-in the area. buried City Attorney Donald Hallam st in the City Attorney Donald Hallam st in the City Attorney Donald Hallam st is constructed to seek a hearing or other appropriate action from cl in play-the OCC in the case, start is con-the outine business took up the fr commission: of the meeting The th W. Goins, who lives in the same a. Both oth goe i seem. Approved payment of \$12,-one of 186.65 in regular bills and \$23,-rawing every. Okayed refunds totaling \$101,-O] a every Okayed refunds totaling \$101,-Hun 26, for overcharges in paying lassical projects; Discussed methods of payment ill and way; four Approved a resolution asking ship, approval from the state board of ent of finance for the purchase of three on an adding machines; perting Okayed a bid by Lembke, dk, the Clough and King Construction Co., for building foundations for an elevated water tank at a cost taken ship's of \$11,500 of \$11,500; Agreed on a price of \$3,500, for a city audit, by Durwin Sprouse, subject to approval of the state comptoller: And asked Hallam for an opin-ion on the legality of a move asked by the library board. The board had asked that Mrs. Metha Mae Atking acting librarian be ig else is paid Dinner he secbecame: would e subrdment n little Mae Atkins, acting librarian, be moved into a part-time job while r large<sub>:</sub> she completes nine months of colgot in: (June lege training to qualify as a full time librarian. Mrs. Atkins would a fine board, receive \$150 a month for extenbacks sive record-keeping work while that taking the college courses. The short and efficiently conpacks if ducted meeting closed at 9:30. 🛬 at a buns EL.

# Water Pollution Problem Referred to Committee

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oil materials and acid have b placed. The OCC recommended on J 19, members of that body s later, that city, well No. 13 shut in: Most Interest on the tour y

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## CALCULATED EVAPORATION OF SALINE WATER FROM SEALED PITS IN THE VICINITY OF HOBBS, NEW MEXICO

(Calculations for the period October 1940 to December 1942, inclusive, for different surface areas per barrel of saline water placed in pits per month)

Prepared by

D. E. Gray and P. D. Akin

STATE ENGINEER OFFICE SANTA FE, NEW MEXICO SEPTEMBER 1958

#### Page 1

#### ESTIMATE OF NET EVAPORATION OF SALINE WATER FROM PITS NEAR HOBES, NEW MEXICO

(1)	(2)	(3)		(4)		(5)		(6)			(7)	
			. : E		• 1	Estimated gross			• 1	Retime		+•
1	:	:Portales	. • D	an evan.	• •	evapsaline	•	Hobbe		Secima Svan -	eteu ne ⊷∽oolin	
• •	•	:(inches)	· · P	Hobbs		vater from pits						
•	•			inches)	:	near Hobbs		(Inches)			r Hobbs	
•	•	•	• •	Inches/	:	(inches)			-		es)(fee	-
1940	):Jan.	: 1.425	<u> </u>	1.54				0.05			0.072	
	:Feb.		:	4.73		2.84	:	0.05		2.28	Q. 190	
•	:Mar.		•	9.20	:	5.52	•	0.30		5.27	0.439	
•	:Apr.	-	•	9.93	:	5.96	•	1.25		4.71	0.392	
•	:May		•	10.78	:	6.47		0.63		5.84	0.352	
•	+ -	: 11.518	•	12.48	:	7.49		4.10	-	3.39	0.282	-
•		: 14.775	•	16.02	•	9.61	•	0.55		9.06	0.755	
•	•	: 8.919	•	9.67	•	5.80		2.80		3.00	0.250	•
•	-	: 10.248	:	11.11	:	6.67		-		6.67	0.250	
•	:0ct.		•	7.54	:	4.52	•	- 3.45				Col.3-Taken from State F
•	:Nov.		:	5.19	:	3.11		1.09	-			:Tech.Rept.#5, page #266
•	:Dec.		•	3.05	:	1.83		0.33				:Values are minimum recor
•		: 93.399	÷	101.24	÷	60.74		15.06				ed for period of record
• 1041	:Jan.	the second s	<u>;</u>		<u>.</u>	1.55		.0.22	_	1.33		:1934-1954.
. 1011	:Feb.		:	3.47	•	2.08		0.84		1,24	0.103	
•	:Mar.		•	6.32	•	3.79		2.88		0.91		: :Col.4-Taken from Fig. 7,
•	:Apr.		•	9.47	•	5.68		2.88		4.99		:p.54 Tentative Plan for
•	:May		•	10.81	•	6.49		9.19				:Develop. of land & water
•	:June		•	10.01	•	6.42		3.03				:Resources-NM Portion-AWR
	July		•	10.62	•			2.32		<b>4.</b> 05		:Portales-4000' elev. gav
	:Aug.		:	9.04	•	6.37 : 5.42 :			-	4.03		:67". Hobbs-3600' elev.ga
	:Sept.:		:	6.98	:	4.19		<b>6.72</b>	•	2.20	-0.211	$:72.6'' - Ratio \frac{72.6}{2} = 1.0$
	:Oct. :		•	5.63	•	3.38		4.66		1 90	-0.107	$\frac{1}{67}$ = 1.0
	:Nov.			3.74	•	2.24		4.00 0.08			0.180	
	:Dec.		•	3.04	•	1.82		0.08	-	1.45		: :Col.5- 0.60-Conversion f
			<u>.</u>	82.41	<u>.</u>	49.43						:tor from pan evap. to su
	:Jan.			2.53**	-	1.52			_			:face water evap. for sa-
	:Feb.			4.68**		2.81 :		-		2.81		:line water. See p.39"Pos-
-	:Mar. :		•	9.60		5.76 :				5.26		sible Improvement of Qua
		7.752	•	8.40	•	5.04 :		1.71		3.33		:ity of Water of the Pecos
	-	12,100	•	13.12	•	7.87 :		1.47		6.40		River by Diversion of Br:
		12.726	•	13.79	•	8.27 :		1.51		6.76		at Malaga Bend, Eddy Cty
		11.826	•	12.82	•	7.69		1.10		6.59		:NM," USGS-Dec. 1954.
	-	10.458	•	11.34	•	6.80				3.91	0.326	
-	Sept.:		•	7.00	•	4.20				3.53		:Col.6-Page 187-State Eng:
-	:Oct. :		•	5.74	•	3.44		0.07		2.58		:Tech. Rept.#6-Mean Month.
-	Nov.		•	5,13	•	3.08		0.80		3.08		:values for period of rec
•	Dec.		•	3,12	•							:1913-1954.
		90.706	<u>.</u>		<u>.</u>							
·	. IOIAL:	30.100	<u> </u>	51,41	:	58.35 :		12.75	:4	0.00	3.803	

Portales evaporation record not available for these months.
 Figures are pan evaporation from Lake McMillan station.

Col.7-Equals Column #5 minus Column #6.

\*\* See note Col. 4.

Evaporation at Lake McMillan (3280' elevation) = 76.7"

Evaporation at Hobbs (3600' elevation) = 72.6"

Ratio = 
$$\frac{72.6}{76.7}$$
 = 0.946

#### BY MONTHS FROM OCTOBER 1940 TO DECEMBER 1942, INCLUSIVE

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(Surf	la	ce area	25	square	e feet per	bar	rel of saline wa	ter		)		
<pre>:: :: water placed in :saline water from ;Col.3 minus :depth of water ::</pre>	(1)		(2)			(3)		(4)		(5)		(6)	
<pre>: : : water placed in :saline water from ;Col.3 minus :depth of water :</pre>	:Year	:	Month	:	Depth	of saline	:E	stimated net eva	p: D	ifference	:		:
:       :       pits (feet)       :pits near Hobbs(ft:Col.4(feet)       :in pits (feet)         :       :       :       :       :       :       :         :       :       :       :       :       :       :       :         :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       : <td::< td=""> <td::< td=""> <td:< td=""><td>:</td><td>:</td><td></td><td>:</td><td>water</td><td>placed in</td><td>:s</td><td>aline water from</td><td>;Co</td><td>1.3 minus</td><td>:de</td><td>epth of water</td><td>:</td></td:<></td::<></td::<>	:	:		:	water	placed in	:s	aline water from	;Co	1.3 minus	:de	epth of water	:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	:	:		:	pits	(feet)	:p	lts near Hobbs(f	t:Co	1.4(feet)	;i1	n pits (feet)	:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	:	:		:			:	· · · · · · · · · · · · · · · · · · ·	:		:		:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	:1940	:	Oct.	:		.224	:	.089	:		:		:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	:1940	:	Nov.	:		.224	:	.168	:		:		:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	:1940	:	Dec.	:		.224	:	.125	:	.099	:		:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	:1941	:	Jan.	:		.224	:	.111	:	:113	:		:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	:1941	:	Feb.	:		.224	:	.103	:		:		:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	:1941	:	Mar.	:		.224	:	.076	:	.148	:		:
1941       June       .224       .283      059       .870       :         :1941       July       .224       .338      114       .756       :         :1941       Aug.       .224       .338      114       .756       :         :1941       Aug.       .224       .352      128       .628       :         :1941       Sept.       .224      107       .331       1.394       :         :1941       Oct.       .224       .121       .435       : 1.063       :         :1941       Nov.       .224       .107       .331       1.394       :         :1941       Nov.       .224       .121       .103       : 1.541       :         :1941       Dec.       .224       .113       .111       1.652       :         :1942       Jan.       .224       .235      011       1.641       :         :1942       Jan.       .224       .235      011       1.641       :         :1942       Mar.       .224       .235      011       1.641       :         :1942       Mar.       .224       .278      054       : 1.373<	:1941	:	Apr.	:		.224	•	.416	:	192	:		:
1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	:1941	:	May	:		.224	:	225	:	.449	:		:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	:1941	:	June	:		.224	:	<b>,</b> 283	:	059	:	,870	:
:1941 : Aug. :       .224       : .352      128 : .628 :         :1941 : Sept. :       .224       .211       .435 : 1.063 :         :1941 : Oct. :       .224       .107 : .331 : 1.394 :         :1941 : Nov. :       .224 : .107 : .331 : 1.394 :         :1941 : Dec. :       .224 : .113 : .044 : 1.438 :         :1941 : Dec. :       .224 : .121 : .103 : 1.541 :         :       :       :         :1942 : Jan. :       .224 : .113 : .111 : 1.652 :         :1942 : Feb. :       .224 : .235 :011 : 1.641 :         :1942 : Mar. :       .224 : .235 :011 : 1.641 :         :1942 : Mar. :       .224 : .278 :054 : 1.373 :         :1942 : May :       .224 : .534 :310 : 1.063 :         :1942 : June :       .224 : .564 :340 : .723 :         :1942 : June :       .224 : .550 :326 : .397 :         :1942 : July :       .224 : .255 : .009 : .225 :         :1942 : Sept. :       .224 : .215 : .009 : .224 :         :1942 : Oct. :       .224 : .215 : .009 : .234 :	. :	:		:		-	:		:		.:		:
:1941: Sept.:       .224      211       .435       : 1.063         :1941: Oct.:       .224      107       .331       : 1.394         :1941: Nov.:       .224       .107       : 331       : 1.438         :1941: Nov.:       .224       .107       : 331       : 1.438         :1941: Nov.:       .224       .180       .044       : 1.438         :1941: Dec.:       .224       .121       : 103       : 1.541         :       :       :       :       :       :         :1942: Jan.:       .224       .113       : 111       : 1.652         :1942: Mar.:       .224       .235       :011       : 1.641         :1942: Mar.:       .224       .235       :011       : 1.641         :1942: Mar.:       .224       .235       :011       : 1.641         :1942: May       .224       .278       :054       : 1.373         :1942: May       .224       .534       :310       : 1.063         :1942: June:       .224       .550       :326       : .397         :1942: July       .224       .326       :102       : .295         :1942: Sept.       .224       .294<	:1941	:	July	;		.224	;	<b>.</b> 338	:	114	:		:
:1941: Oct.:       .224      107       : .331:       1.394         :1941: Nov.:       .224       .180       .044       1.438         :1941: Dec.:       .224       .121       .103       1.541         :1941: Dec.:       .224       .121       .103       1.541         :1941: Dec.:       .224       .113       .103       1.541         :1942: Jan.:       .224       .113       .111       1.652         :1942: Mar.:       .224       .235      011       1.641         :1942: Mar.:       .224       .235      011       1.427         :1942: Mar.:       .224       .278      054       1.373         :1942: May       .224       .534      310       1.063         :1942: June:       .224       .564      340       .723         :1942: July       .224       .550      326       .397         :1942: July       .224       .550      326       .295         :1942: Sept.:       .224       .294      070       .225         :1942: Sept.:       .224       .294      070       .225         :1942: Oct.:       .224       .257       .009       .	:1941	:	Aug.	:		.224	:	<b>.</b> 352	:	128	:		:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	:1941	:	Sept.	:		.224	:	211	:	.435	:		:
:1941 : Nov. :       .224       :       .180       :       .044       :       1.438       :         :1941 : Dec. :       .224       :       .121       :       .103       :       1.541       :         :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       : <td></td> <td></td> <td>-</td> <td>:</td> <td></td> <td>.224</td> <td>:</td> <td>107</td> <td>:</td> <td><b>.</b>331</td> <td>:</td> <td></td> <td>:</td>			-	:		.224	:	107	:	<b>.</b> 331	:		:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				:		.224	:	.180	:	.044	:		:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				:		.224	:	.121	:	.103	:	1.541	:
1942       Feb.       .224       .235      011       1.641         1942       Mar.       .224       .438      214       1.427         1942       Apr.       .224       .438      054       1.373         1942       May       .224       .534      310       1.063         :1942       June       .224       .564      340       .723         :1942       June       .224       .564      340       .723         :1942       June       .224       .564      340       .723         :1942       July       .224       .564      0102       .295         :1942       July       .224       .265       .397       :         :1942       July       .224       .326      102       .295         :1942       Sept.       .224       .294      070       .225         :1942       Oct.       .224       .215       .009       .234         :1942       Oct.       .224       .257       .033       .201         :1942       Nov.       .224       .257       .033       .201	:	:		:			:		:		:		:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	:1942	:	Jan.	:		.224	:	.113	:	.111	:		:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			Feb.	:		.224	:	.235	:		:		: :
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			Mar.	:		,224	:	<b>.</b> 438	:	214	:		:
:1942 : May       .224       .534      310       1.063       :         :1942 : June       .224       .564      340       .723       :         :1942 : July       .224       .550      326       .397       :         :1942 : July       .224       .550      326       .397       :         :1942 : July       .224       .326      102       .295       :         :1942 : Sept.       .224       .294      070       .225       :         :1942 : Oct.       .224       .215       .009       .234       :         :1942 : Nov.       .224       .257       .033       .201			Apr.	:		.224	:	.278	:	054	:		:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			-	:		.224	:	•234	:	310	:		:
:       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :       :			-	•		.224	:	564	:	340	:	.723	:
:1942       Aug.       :224       :326      102       :295         :1942       :Sept.       :224       :294      070       :225         :1942       :Oct.       :224       :294       :009       :234         :1942       : Nov.       :224       :215       :009       :234         :1942       : Nov.       : .224       : .257       :033       : .201	:		- · ·	:			:		;		:		:
:1942 : Aug. :       .224 :       .326 :      102 :       .295 :         :1942 : Sept. :       .224 :       .294 :      070 :       .225 :         :1942 : Oct. :       .224 :       .215 :       .009 :       .234 :         :1942 : Nov. :       .224 :       .257 :      033 :       .201 :	1942		Julv	:		.224	:	<b>.</b> 550	:	326	:		:
:1942 : Sept. :       .224 :       .294 :      070 :       .225 :         :1942 : Oct. :       .224 :       .215 :       .009 :       .234 :         :1942 : Nov. :       .224 :       .257 :      033 :       .201 :			•	:			:		:	102	:	<b>2</b> 95	:
:1942 : Oct. :       .224 :       .215 :       .009 :       .234 :         :1942 : Nov. :       .224 :       .257 :      033 :       .201 :	-		-	:			:	.294	:	070	:	,225	:
:1942 : Nov. : .224 : .257 :033 : .201 :			-	:			:		:	.009	:		:
496				:			:		:	033	:		:
				:			:		:	+.225	:	<b>.</b> 426	:
	:	•		:			:		:	·	:		:

Col. 3 - One barrel = 42 gallons = 5.615 cubic feet. Depth of water =  $\frac{5.615}{25}$  = 0.224 feet.

Col. 4 - From Col. 7, page 1.

Page 2

#### BY MONTHS FROM OCTOBER 1940 TO DECEMBER 1942, INCLUSIVE

(Surfa (1)	ace area (2)	30	square feet per (3)	barrel o	of saline (4)	water p	er month) (5)	(6	· ·
	: Month	_		. 17 - 44	• •		)ifference	+	nulated :
: Year	: MONTA		Depth of saline				1.3 minus		
	•		water placed in				1.4(feet)		
<u>.</u>			pits (feet)	pits	near Hob	DS(IL:CC	1.4(leet)	:in pres	(IBEL)
:	:	:	107	:	000	:	000		.098
:1940		:	.187	:	.089	:	.098 .019	1	.117
:1940		. •	.187	:	.168	:			.179
:1940	: Dec.	:	.187	:	.125	:	.062	•	4113
:	:	:	107	:		:	070	:	.255
:1941		:	.187	:	.111	<b>.</b> :	.076	:	
:1941		:	.187	:	.103	:	.084	:	.339
:1941		:	.187	:	.076	:	.111	:	.450
:1941	-	:	.187	. :	.416	:	229	:	.221
:1941		:	.187	:	225	:	.412	:	.633
:1941	: June	:	.187	:	<b>.</b> 283	:	096	:	•537
:	:	:		:		:		<b>:</b> ·	:
:1941		:	.187	:	.338	:	151	:	<b>.386</b>
:1941	: Aug.	:	187 ه	:	<b>.</b> 352	:	165	:	.221
:1941	: Sept.	:	.187	:	211	:	.398	:	.619
:1941	: Oct.	:	.187	<b>:</b> ,	107	:	.294	:	.913
:1941	: Nov.	:	.187	:	.180	:	<b>,007</b>	•	.920
:1941	: Dec.	:	.187	:	.121	:	٥66 ،	:	.986
:	:	:		:		:		:	:
:1942	: Jan.	:	.187	:	.113	:	.074	: 1	.060
:1942	: Feb.	•	.187	•	<b>.</b> 235	:	048	: ]	.012
:1942	: Mar.	:	.187	:	.438	:	251	:	.761
:1942		:	.187	:	.278	:	091	•	<b>,67</b> 0
:1942	. –	:	.187	:	.534	:	347	:	.323
:1942	-	:	.187	:	.564	•	377	:	0
:	:	:					• - • •	:	
:1942	· ; July	:	.187	:	.550	•	363	•	0
:1942	•	ľ	.187	:	.326		-,139	:	0 :
:1942	· •	7	.187	:	.294	•	107	:	0
:1942	-	•	.187	•	.215	•	028	•	0
:1942		•	.187	•	.210	•	-,070	•	0
:1942		•	.187	•	-v001	•	188	•	.188
•	: Dec.	•		•		•	,200	•	
<u>.</u>	<u>.                                    </u>	<u> </u>				·		·	

Col. 3 - One barrel = 42 gallons = 5.615 cubic feet. Depth of water =  $\frac{5.615}{30}$  = 0.187 feet

Col. 4 - From Col. 7, page 1.

#### BY MONTHS FROM OCTOBER 1940 TO DECEMBER 1942, INCLUSIVE

(1)	(2)	(3)	(4) ;Estimated net evap:	(5) Difference	: Accumulated
IGHL	: Month	: Depth of saline : water placed, in	seline water from :	Col.3 minus	denth of water
		-	:pits near Hobbs(ft:	Col 4(feet)	in nits (feet)
	<u></u>	: pits (feet)	pits near Hobbs (It	COTIECTORCY	
1940	: Oct.	140	.089	.051	.051
940	Nov.	.140	.168	028	; ,023
1940	Dec.	.140	: .125 :	.015	: .038
	<b>I</b>	:	: 1	020	: .067
1941	-	140	: .111 :	.029	•
1941	· ·	.140	: .103 :	.037	: .104
1941		.140	: .076 :	.064	168
1941		.140	: .416 1	276	1 0
1941	-	.140	.: -,225 :	.365	1 .365
1941	June	.140	1 .283 1	143	.222
941	l July	.140	1 .338 1	-,198	.024
		.140	1 .352 1	-,212	1 0
941	· · · ·		· · · · · · · · · · · · · · · · · · ·	.351	351
.941	Sept.	.140	1 -,107	.247	.598
941		.140	•	-,040	.558
1941	Nov.	.140	,180 1	.019	.577
.941 ;	Deg.	.140	4 · .121 ·	* UTB	
942	Jan.	140	.113	.027	.604
942	Feb.	.140	1 ,235 1	-,095	: .509
942	Mar.	,140	1 .438 1	-,298	1 .911
942	Apr.	.140	.278	-,138	1 .073
942		.140	.894	394	1
942	June	.140	1 .564	=,494	t _0
649	<b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>	1	1 .550	-,410	
942	July	1 140	1 ,326	-,186	1 0
942	Aug.	140		=,184	1 0 -
942	Sept.	140	1 1294	=,075	
942	Oet.	140	1 ,215		1 0
.942 .942	Nev. Dec.	1 .140 1140	1 <b>.</b> 257	=,117 ,141	1 .141

Col. 3 = One barrel = 42 gallens = 5.615 cubic feet. Depth of water =  $\frac{5.615}{40}$  = 0.140 feet.

Col. 4 - From Col. 7, page 1.

Page

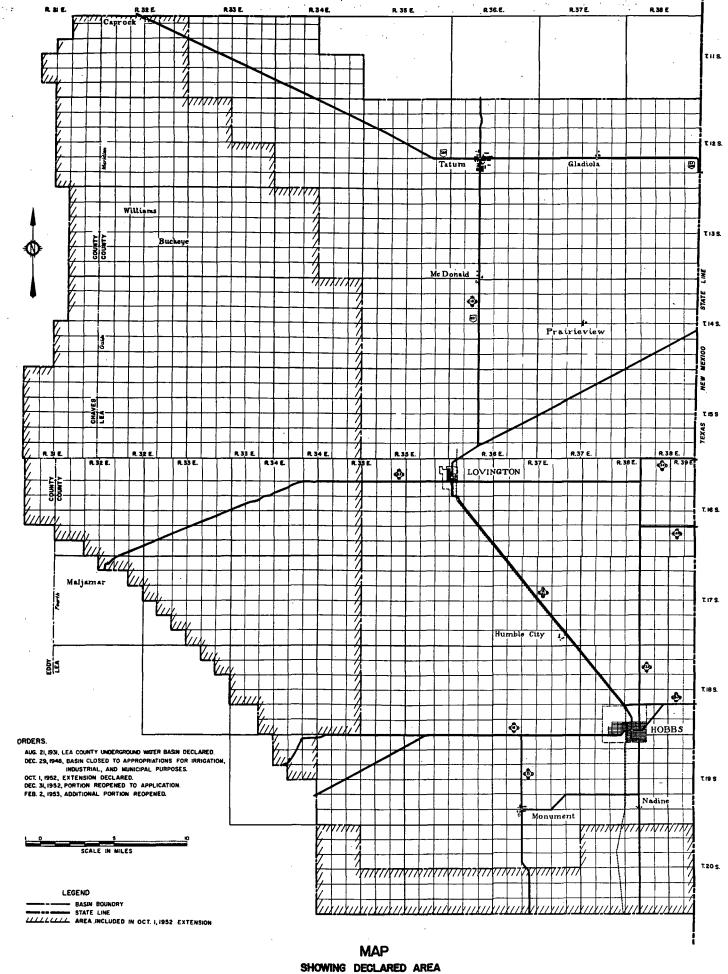
#### BY MONTHS FROM OCTOBER 1940 TO DECEMBER 1942, INCLUSIVE

(1)	(2) : Month	:	(3) Depth of saline	.Eet	(4) imated net e	vent	Difference	• Ac	(6) cumulated	
		:	water placed in	•sal	ine water fr	com :Ce	ol.3 minus	-		
F I	•	:	pits (feet)	· nit	s near Hobbs	(ft:C	ol.4(feet)	in t	its (feet)	)
	•	<u> </u>		:					· · · · ·	
1940	: Oct.	:	0.112	:	.089	:	.023	:	.023	;
1940		:	0.112	:	.168	:	-,056	:	0	1
1940		:	0.112	:	.125	:	013	:	0	4
	:	:		:		:		:		1
1941	: Jan.	:	0.112	:	.111	:	.001	:	.001	
1941			0.112	•	.103	:	.009	:	.010	1
1941		:	0.112	:	.076	:	.036	:	.046	:
1941		:	0.112	:	.416	:	304	:	0	1
1941	-		0.112		225	:	.337	1	.337	
1941		•	0.112	•	.283		171	:	.166	
	:			•				:		
1941	: July		0.112	:	.338	:	-,226	:	0	•-
1941	-		0.112	:	.352	:	240	:	0	•
1941			0.112	:	211	:	.323	:	.323	
1941	· •	•	0.112	:	107	:	.219	:	.542	
1941		:	0.112	•	.180	:	068	:	.474	
1941		:	0.112	:	.121	:	009	:	.465	
	•	:		:		:		:		
1942	: Jan.	:	0.112	:	.113	:	001	:	.464	•
1942		:	0.112	:	.235	:	123	;	.341	
1942	-	:	0.112	:	.438	:	326	:	.015	
1942		;	0.112	:	.278	:	166	:	0	
1942	-		0.112		.534	:	-,422	:	0	
1942	•	:	0.112	:	.564	:	452	:	0	
	:	:		:	• • • •	:		:		
1942	: July	:	0.112	:	.550	:	438	:	0	
1942	-	:	0.112	:	.326	:	214	:	0	
1942	-	:	0.112	;	.294	:	182	:	· O ·	
1942	-	:	0.112	:	.215	:	103	:	0.	
1942		:	0.112	:	.257	:	145	:	0	
1942		:	0.112	:	001	:	.113	:	.113	
	•	•		:		•		:		

Col. 3 - One barrel = 42 gallons = 5.615 cubic feet. Depth of water =  $\frac{5.615}{50}$  = 0.112 feet.

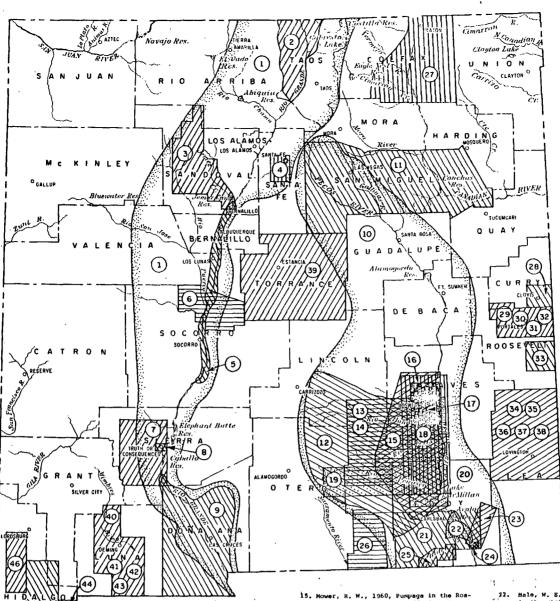
Col. 4 - From Col. 7, page 1.

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LEA COUNTY UNDERGROUND WATER BASIN

STATE ENGINEER OFFICE



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MAJOR BASIC AND PROGRESS GROUND-WATER STUDIES

1

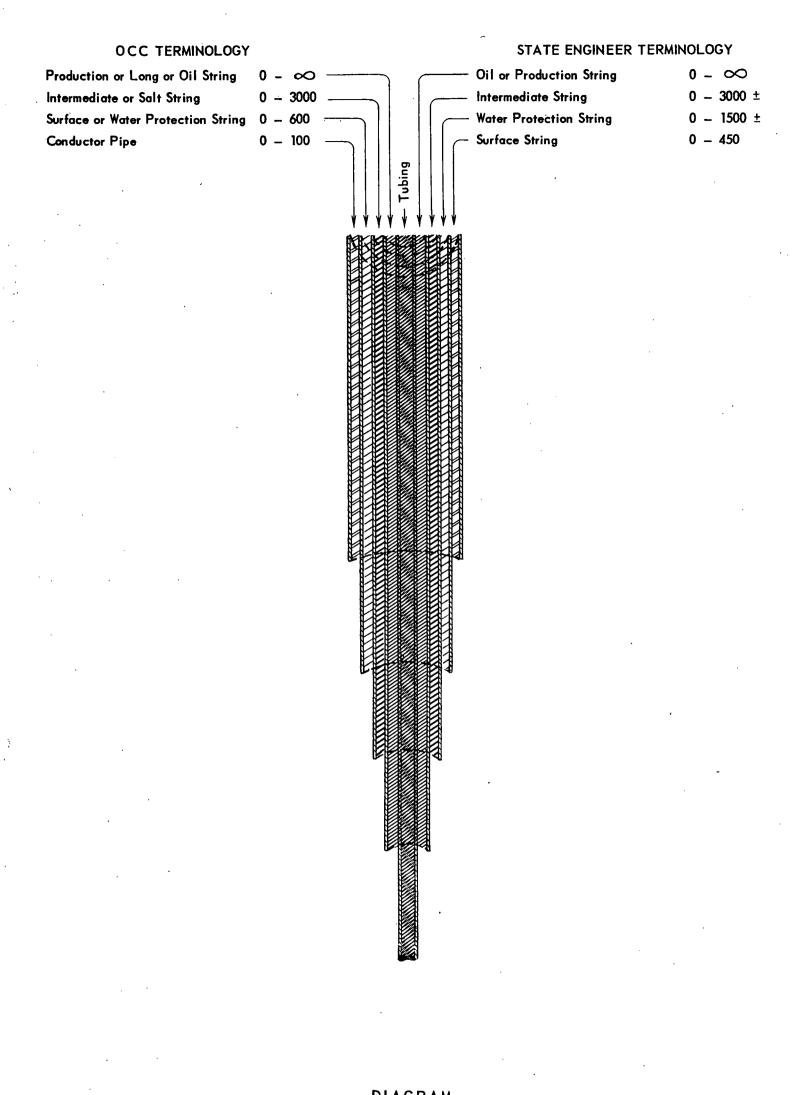
#### BY THE U.S. GEOLOGICAL SURVEY

UNDER COOPERATIVE AGREEMENTS WHEREIN THE STATE ENGINEER IS A PARTY

JUNE - 1960

STATE ENGINEER OFFICE DRAWN BY M.H. BOYCE JUNE 1960

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### DIAGRAM o f

WELL CASING IN ARTESIAN BASINS

for the purpose of demonstrating the difference in the terminology of the State Engineer Office and the Oil Conservation Commission, and to clarify State Engineer Order No. 63 issued on 11 September 1956. No mention of liners or a second intermediate string, which might be required for an extremely deep hole, is made since neither would have significance in this program. Note that the curved, dashed lines connect the comparable casing walls and that the lengths of the two outer strings may vary considerably.

#### CALCULATED EVAPORATION OF

SALINE WATER FROM SEALED

PITS IN THE VICINITY OF

HOBBS, NEW MEXICO

(Calculations for the period October 1940 to December 1942, inclusive, for different surface areas per barrel of saline water placed in pits per month)

Prepared by

D. E. Gray and P. D. Akin

#### STATE ENGINEER OFFICE SANTA FE, NEW MEXICO SEPTEMBER 1958

#### ESTIMATE OF NET EVAPORATION OF SALINE WATER FROM PITS NEAR HOBBS, NEW MEXICO

	•	•			-		•		:	
(1)	(2)	(3)	(4)		(5)		(6)		(7)	
Year	:Month	Pan evap.	:Estimated	:Est	imated gr	oss:	Precip.	:Estima	ted net	
1	:	Portales	:pan evap.	:eva	p∹sali	ne :	Hobbs	;evap	tsaline	
1	: :	(inches)	: Hobbs	;wat	er from p	its:	(inches)	:water	from pit	<b>t:</b>
	:		:(inches)	1	near Hobb	s :		: near	Hobbs	:
	: :		:	:	(inches)	:		:(inche	s)(feet	:
1940	Jan.	1.425	: 1.54	:	0.92	:	0.05	: 0.87	0.072	
ţ.	:Feb.	4.365	: 4.73	:	2.84	:	0.56	: 2.28	0.190	
	:Mar. :	8.484	: 9.20	:	5.52	:	0,25	: 5.27	0.439	
,	:Apr. :	9.161	: 9.93	:	5.96	:	1.25	: 4.71	0.392	
۰.	:May :	9,945	: 10.78	•	6.47	:	0.63	: 5.84	0,486	<b>:</b>
· . ·	June	11.518	: 12.48	:	7.49	<b>:</b> .	4.10	: 3.39	0, 282	•
	July :	14.775	: 16.02	:	9.61	:	0.55	: 9.06	0.755	:
		8.919	: 9.67	:	5.80	:	2.80	: 3.00	0.250	
i .		10.248	: 11.11	:	6.67	:	-	: 6.67	0.555	
	:Oct. :		: 7.54		4.52	:	3.45	: 1.07	0.089	:Col.3-Taken from State Eng
••••	:Nov. :		: 5.19	:	3.11	:	1.09	: 2.02		:Tech.Rept.#5, page #266.
		2.810	: 3.05	:	1.83	:	0.33	: 1.50		:Values are minimum record-
,		93.399	: 101.24	:	60.74	:	15.06	:45.68		ed for period of record
1941	:Jan. :	the second s	: 2.59	:	1,55	:	0.22	: 1.33	0.111	:1934-1954.
	:Feb. :		: 3.47	:	2.08	. :	0'.84	: 1.24	0.103	<b>:</b>
•	:Mar. :		: 6.32	:	3,79	:	2.88	: 0.91		:Col.4-Taken from Fig. 7,
	:Apr. :		: 9.47	:	5.68	:	0.69	: 4.99	0.416	:p.54 "Tentative Plan for
	:May :		: 10.81	:	6.49	:	9.19			:Develop. of land & water
	:June :		: 10.70	:	6.42	:	3.03	: 3.39	0.283	:Resources-NM Portion-AWR"
	;July :			:	6.37	:	2.32	: 4.05	0.338	:Portales-4000' elev. gave
	:Aug. :		9.04	:	5,42	:	1.19	: 4.23	0.352	:67". Hobbs-3600' elev.gave
	:Sept.:		: 6.98	:	4.19	•	6.72			$:72.6'' - \text{Ratio} \frac{72.6}{2} = 1.084$
	:Oct. :		: 5.63	:	3.38	:	4.66		-0.107	
	:Nov. :		: 3.74	:	2.24	:	0.08	: 2.16	0.180	
	:Dec. :	. –	: 3.04	:	1.82	:	0.37	: 1.45	0.121	:Col.5- 0.60-Conversion fac
		76.023		:	49.43	:	32.19	:17.24		:tor from pan evap. to sur-
	Jan.			:	1.52	:	0.16	: 1.36		:face water evap. for sa-
	:Feb. :				2.81	:	· 🗕	: 2.81		:line water. See p.39"Pos-
	:Mar. :		: 9.60	:	5.76	:	0.50	: 5.26		:sible Improvement of Qual-
	Apr. :	-		:	5.04	:	1.71	: 3.33	0.278	:ity of Water of the Pecos
		12,100	: 13.12	:	7.87	:	1.47	: 6.40	0.534	:River by Diversion of Brin
	•	12.726	: 13.79	:	8.27	:	1.51	: 6.76	0.564	:at Malaga Bend, Eddy Cty,
· · · · · · · · · · · · · · · · · · ·		11.826	: 12.82	:	7.69	:	1.10	: 6.59	0.550	:NM,"USGS-Dec. 1954.
		10.458	: 11.34	:	6.80	:	2.89	: 3.91	0.326	
		6.462	. 7.00	:	4.20	:	0.67	: 3.53		:Col.6-Page 187-State Engr.
	:Oct. :		: 5.74	:	3.44	:	0.86	: 2.58		:Tech. Rept.#6-Mean Monthly
	:Nov. :	-	5.13	:	3.08		0	: 3.08		:values for period of reco
		2.876	: 3.12		1.87	:	1.88			:1913-1954.
		90.706	97.27	:	58,35		12,75	:45.60	3.803	
				• •						 Col.7-Equals Column #5

Portales evaporation record not available for these months. Figures are pan evaporation from Lake McMillan station. COL.7-Equals Col minus Column #6.

2

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See note Col. 4.

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Evaporation at Lake McMillan (3280' elevation) = 76.7"

Evaporation at Hobbs (3600' elevation) = 72.6"

Ratio = 72.6 Ξ 0.946 76.7

#### BY MONTHS FROM OCTOBER 1940 TO DECEMBER 1942, INCLUSIVE

} .	(Sur	lac	e area	25	square	e feet per	barrel	of salin	e water	per month)		. *. 
	(1)	•	(2)		· ·	(3)		(4)		(5)	(6)	
ો :	Year	:	Month	:	Depth	of saline	:Estin	nated net	evap:	Difference	: Accumu	
:		•,		:	water	placed in	:sali	ne water	from ;C	ol.3 minus	:depth of	water :
:	<u> </u>	:		:	pits	(feet)	:pits	near (Hob	bs(ft:C	ol.4(feet)	in pits	(feet) :
. :	•••	:		:			:		:		•	:
. :	1940	:	Oct.	:		.224	<b>1</b>	.089	:	.135		135 :
	1940		Nov.	:		.224	:	.168	`:	。056		191 :
	1940		Dec.	:		.224	:	.125	:	۰099		290 :
-	1941		Jan.	:		.224	:	.111	. :	۵113 -		403 :
	1941	-	Feb.	:		.224	· •	.103	. :	.121	•	524 :
: :	1941	<b>:</b> -	Mar.	:		.224	.:	<b>6</b> 076	:	.148		672 :
. :	1941	1.	Apr.	:		.224	•	.416	:	192	•	480 ;
:	1941	:	May	:		.224	:	225	· •	.449	•	929 :
. :	1941	, <b>:</b> -	June	:		.224	•	<u>.</u> 283	:	059	: .	870 :
:		:	n.	:			:		:		.:	
	1941		July	\$		.224	:	<b>。</b> 338	:	114	-	756 :
:	1941	:	Aug.	:	•	.224	:	<b>.</b> 352	:	128	•	628 :
:	1941	:	Sept.	:		.224	:	211	•	<b>.</b> 435	-	063 📋 :
:	1941	•	Oct.	<b>:</b> -		. 224	:	107	:	.331	-	394 :
:	1941	:	Nov.	:		.224	:	<b>.</b> 180	:	.044	-	438 :
:	1941	:	Dec.	:		.224	:	.121	: .	.103	: 1.	541 :
:		:		:	· · ,		:	-	:		:	· <b>'</b>
:	1942	:	Jan.	:		.224	:	.113	:	.111		652 :
:	1942	:	Feb.	:		.224	:	.235	:	011		641 🦾 🚦
:	1942	:	Mar.	:		.224	:	.438	:	214		427 :
:	<b>1942</b> .	:	Apr.	:	-	.224	:	.278	:	054	· ·	373 :
· :	1942	:	May	:		.224	:	.534	:	310	-	063 · :
. :	1942	•	June	:		.224	:	<b>.</b> 564	:	340	• •	723 :
	•	:	•	:			:		. :		:	
. :	1942	:	July	1	•••	.224	:	<b>•5</b> 50	· · · · · :	-,326		397 :
· ••	1942	:	Aug	:		,224	:	<b>.</b> 326	:	102	•	295
:	1942	: :	Sept.	: .		.224	:	294ء	· · · •	070		225
:	1942	•	Oct.	:	• •	.224	:	.215	•	٥09 ،	-	234 <sub>(* -</sub>
:	1942	:	Nov.	:	,	.224	:	.257	:	033	••	201 :
	1942		Dec	:		.224	:	001	•	+.225	: •	426 :
:		:		:			: `		· •		:	· .
_ <u></u>								······································	<u> </u>			

Col. 3 - One barrel = 42 gallons = 5.615 cubic feet. Depth of water =  $\frac{5.615}{25}$  = 0.224 feet.

Col. 4 - From Col. 7, page 1.

15

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#### BY MONTHS FROM OCTOBER 1940 TO DECEMBER 1942, INCLUSIVE

(1)	(2) : Month	-	(3) Depth of saline	(4)	at ana-	(5) : Difference		6) mulated
Iear	: Month		water placed in			:Col.3 minus		
		:	pits (feet)			:Col.4(feet)		
	<u>.</u>		pits (leet)	; pits near n	onna († r	:01.4(1001)	<u>:10 pro</u>	<u>,9 (1861)</u>
1940	· •	:	107	.08		: • • 098		.098
1940		•	.187	: .16		: .019		.117
1940 1940		•	.187	: .12		: .019	•	。179
1940	: Dec.	:	.187	: 012	<i>.</i> э	002	•	4113
1941	i Tan	:	.187	:	: ٦	.076		.255
1941				: .11		: .084	•	.339
1941 1941		:	.187 .187	: .07		: .111	•	.450
						-,229	•	.221
1941	-		.187	: .41 :22		.412	• • •	.633
1941 <sup>·</sup>	· · · · ·	:	<b>.</b> 187			: .412 :096	1	•033 •537
1941	: June		.187	: ,28	ن د. ا	· -•090	•	1001
1941	: July		<b>.187</b>	: .33	0	:151		.386
1941	•		187	: .35		:165	•	.221
	: Aug. : Sept.		.187	:2]		: .398		.619
1941 ·		•	.187	:10		: .294	•	.913
1941 1941			.187	:18		007	•	.920
1941		•	.187	: .12		066	• •	.986
1941	. Dec.	•	• 101		·L 6		•	
1942	· Jan.		.187	: .1]	3	074	•	1.060
1942		•	.187	: .23		048	• •	1.012
1942		•	.187	43		251	•	.761
1942	: Apr.	•	.187	: .27	,	091	•	.670
1942			.187	53		:347	•	.323
1942	· •		.187	56		377	•	0
	: .			: .		1	•	الم ، <sup>3</sup>
1942	: July		.187		0	- • 363	:	0
1942	. •	1	.187			139	:	0
1942	<b>v</b>	1	.187	: .29		107	: .	0
1942	· · · ·	:	.187	21		028	• • • • • •	0
1942		:	.187	: .25		070	•	0
1942		:	.187	; -v00		. +.188	•	.188
	•.			•	-	•	•	_

Col. 3 - One barrel = 42 gallons = 5.615 cubic feet. Depth of water =  $\frac{5.615}{30}$  = 0.187 feet

Col. 4 - From Col. 7, page 1.

## ESTIMATED ACCUMULATED DEPTH OF SALINE WATER IN SEALED PITS NEAR HOBBS

Page 4

## BY MONTHS FROM OCTOBER 1940 TO DECEMBER 1942, INCLUSIVE

Suriac			feet per bi (3)	arrei (	(4)	water	. ber	(5)		8)
• •	Month :		of saline	tEstin	ated net	evap:	Dif	ference	: Accu	nulated
			placed, in	salin	ne wâter	from :	Coli	3 minus	:depth	of wate:
1			(feet)	:pits	near Hob	bs (1t:	Col.	4(feet)	:in pit	s (feet
. :				:		;			1	· • •
1940 :	Oct. i	· · ·	.140	1	.089			.051	<b>:</b>	.051
1940 :	Nov.		.140	<b>'</b>	.168	1		028	<b>1</b> 1 1	.023
1940 :	Dec. i	1	.140	1	.125	. :	i è	.015	<b>1</b> • •	.038
- 1	``f	1. 	· · · · · ·	<b>.</b> •		<b>, 1</b>	ł		• • • • • • •	100
1941 :	Jan.	· ·	.140	:	.111	. 1		.029	1	.067
1941 1	Feb.		.140	1	.103	1	(	.037	1	,104
1941 :	Mar.	· · ·	.140	1	.076	1	• .	.064 ·	1	.168
1941 :	Apr.		.140	1.	.416	1		276	1	.365
1941 :	May	÷ .	.140	1	225		1	.365	1 ··.	.300
1941 :	June	· •	.140	1 5	.283			143	i i	
		, .	146	1				198	•	. 024
1941 :	July		.140	1	.338			190		
1941 :	Aug.	<u>\</u> •	.140	1	.352 211	1		214		.351
	Sept. 1		.140	1	211 107			.247		.598
1941 : 1941 :	Nov. 1		.140	1	.180			040	•	.558
1941 :	Deg. 1	,	.140	- <b>i</b>	.121			.019	•	.577
TOAT 1	Dad!	· •	144V.	6	14 <b>**</b> 4		6 1. 1	1476	•	
1942 :	Jan.		.140	8 F	.113			.027	•	.004
1942	Feb.	· ·	.140	1	,295		•	095	1	.509
1942	Mar.		.140		.498	3			1	.911
1942	Apr. (		.140	• •	.278	1. E.		-,138	1	.073
1942	May	14 	.140	•	,594			394		. 0
1942	June		.140	1	.564			494	E Ba	· · · O = _
· · ·			• • • •	I					1	
1942	July	• • •	. 140	- <b>1</b>	.880	ľ		410	· I ·	0
1942	Aug		.140	1 .	. 326		<b>1</b> • • •	=,186	1	0
1942	Sept.		e 140	1	.204	3 - A - <b>I</b>	l'	= 154	1	0.0
1942 :	0et.	· · · · ·	.140	l	,215	<b>. 1</b>		=,075	1	0
1942	Nev. I	N <sub>R</sub>	<b>:140</b>	1 1	.287	: ; . <b> </b>	l'	=:117	1	0
1042	Dee. I	• · · · · · ·	.140	1	-,001	· .	1	.141	1	, 141

1 ; Col. 3 = One barrel = 48 gallens = 5.015 cubic feet. Depth of water = 5.615 ₩. 0,140 feet 40

- From Col: 7, page 1.

# ESTIMATED ACCUMULATED DEPTH OF SALINE WATER IN SEALED PITS NEAR HOBBS

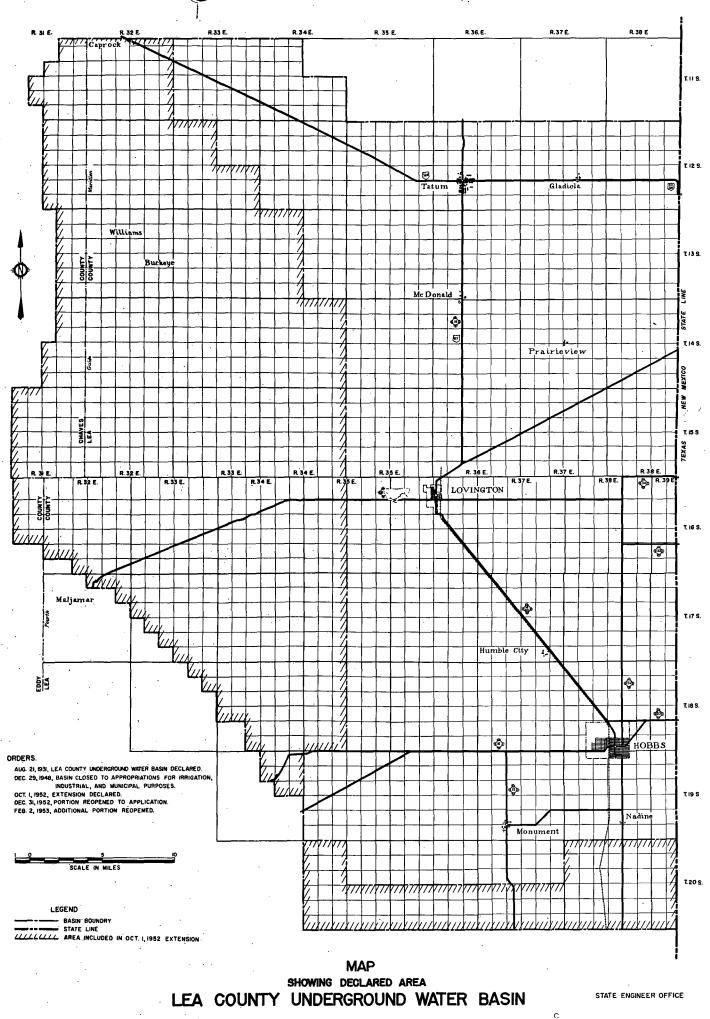
## BY MONTHS FROM OCTOBER 1940 TO DECEMBER 1942, INCLUSIVE

(Surfac (1)	ce area 50 (2)	square feet per ba (3)	arrel of saline wa (4)	ter per month) (5)	(6)
	Month :	Depth of saline	:Estimated net ev	ap: Difference	: Accumulated :
:	: • •	water placed in	:saline water from	m :Col.3 minus	:depth of water :
:	:	pits (feet)	:pits near Hobbs(	ft:Col.4(feet)	:in pits (feet) :
• • /	: :		:	;	:
:1940	: Oct. :	0.112	. 089	.023	: .023 :
:1940	Nov. :	0.112	. 168	:056	: 0 :
:1940	Dec. :	0.112	: .125	:013	: 0 :
: j i	: :	.*	:	:	:
:1941		0.112	: .111	: .001	: .001 :
:1941		0.112	: .103	: .009	: .010 :
:1941	Mar. :	0.112	: .076	: .036	: .046 :
:1941 ;	Apr. :	0.112	.416	:304	: 0 :
:1941	: Máy :	0.112	:225	: .337	: .337 ;
:1941	June :	0.112	.283	:171	.166 :
• • • • • • •	: 1	i si se s I se si s	:	:	• · · · · · · · · · · · · · · · · · · ·
:1941	July :	0.112	: .338	:226	• • • •
:1941	Aug. :	0.112	: .352	:240	: 0 :
:1941 :	Sept. :	0.112	:211	: .323	: .323 :
:1941 :	Oct. :	0.112	:107	: .219	: .542 :
:1941 :	Nov. :	0.112	: .180	:068	: .474 :
;1941 :	Dec. :	0.112	: .121	:009	: .465 :
:	:		:	:	:
:1942 :		0.112	: .113	:001	: .464 :
:1942 :		0.112	.235	:123	: .341 :
:1942 :	Mar. :	0.112	: .438	:326	: .015 :
:1942		0.112	: .278	:166	: 0 : ·
:1942 :	May :	0.112	: .534	:422	: 0 :
:1942 :	June :	0.112	: .564	:452	: 0 :
. <b>!</b> ( <b>!</b>	:		:	:	:
:1942 :	•	0.112	: .550	:438	: 0 :
:1942 :	· · · · · · · · · · · · · · · · · · ·	0.112	: .326	:214	: 0 :
:1942 :	-	0.112	: .294	:182	: 0 :
:1942 :	<b>Oct.</b> :	0.112	: .215	:103	: 0 :
:1942 :	Nov. :	0.112	: .257	:145	: 0 :
:1942	Dec. :	0.112	:001	: .113	: .113 :
: :	:	· •	•	•.	

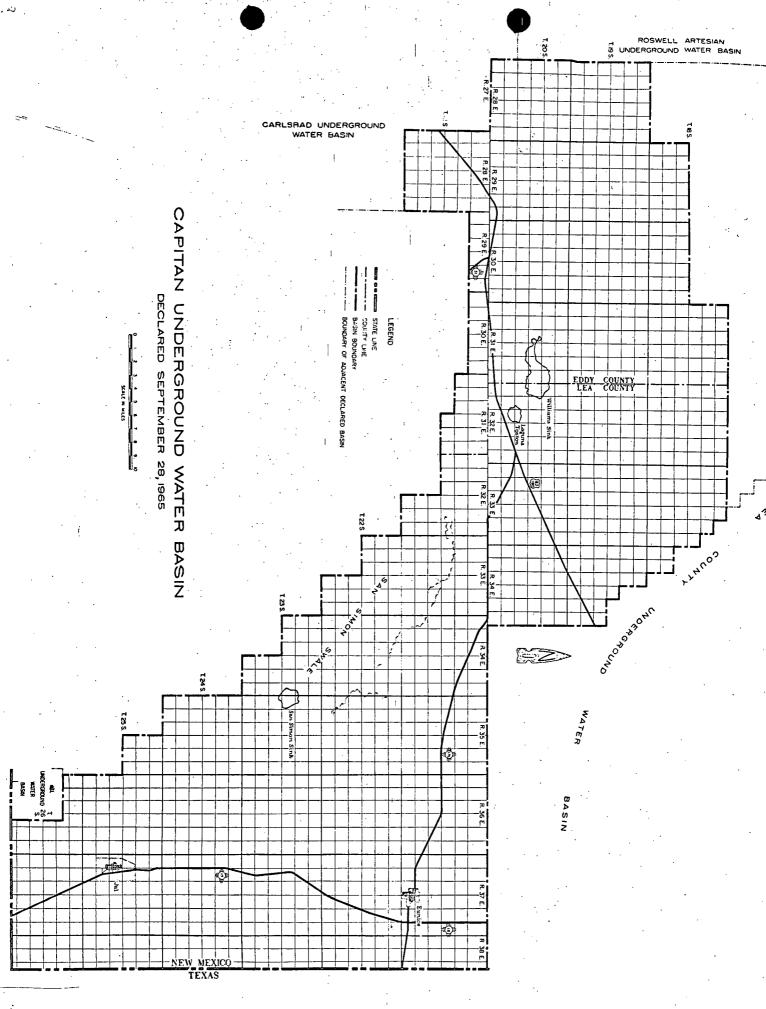
Col. 3 - One barrel = 42 gallons = 5.615 cubic feet. Depth of water =  $\frac{5.615}{50}$  = 0.112 feet.

Col. 4 - From Col. 7, page 1.

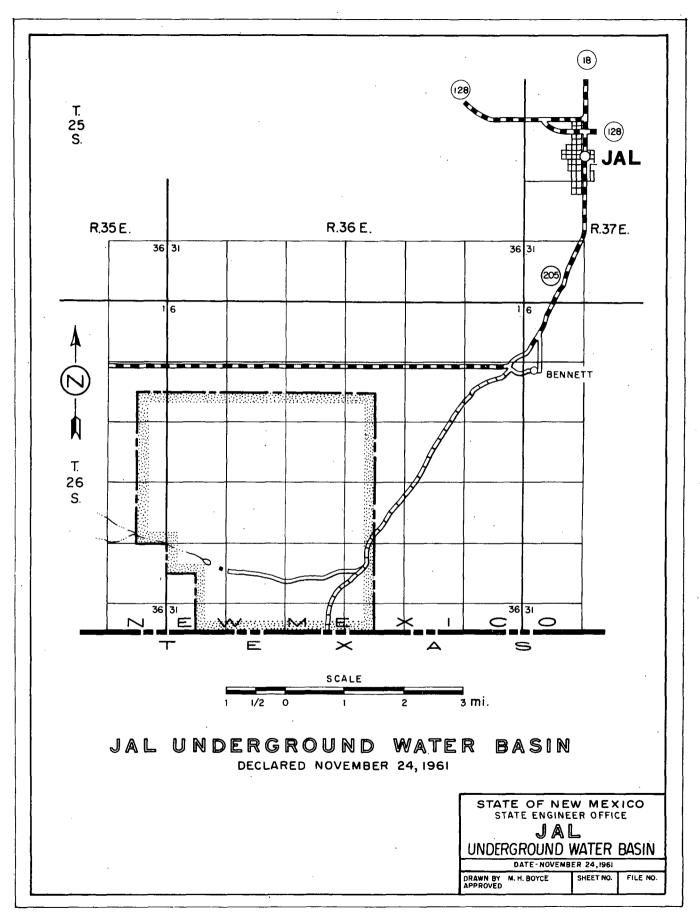
Page 5



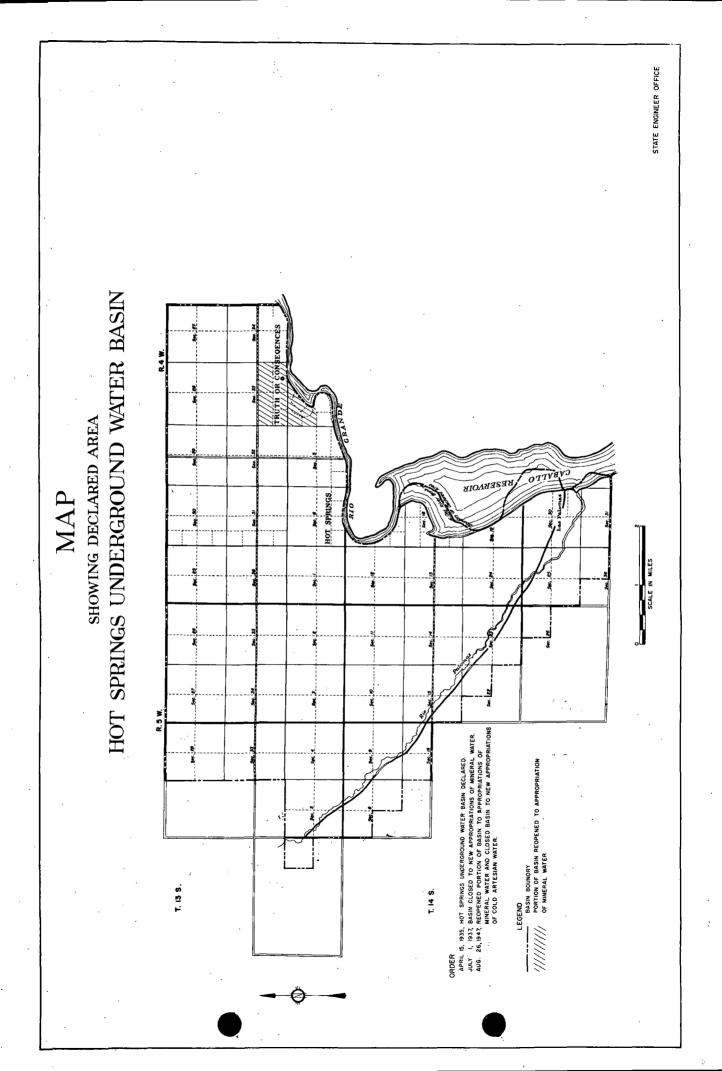
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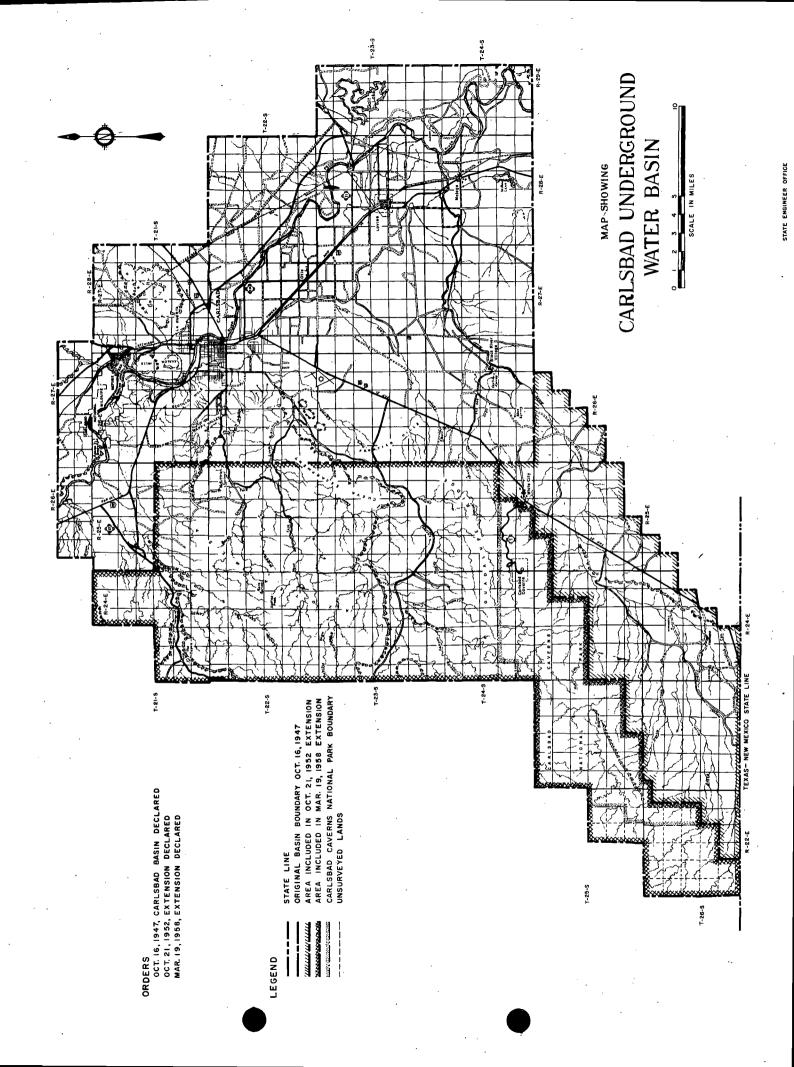


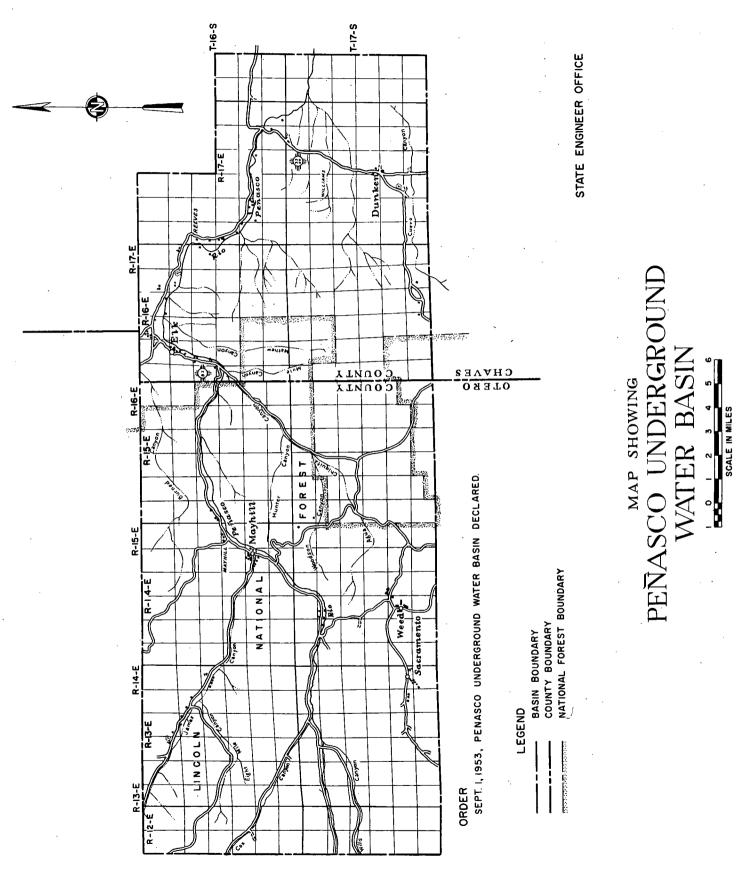
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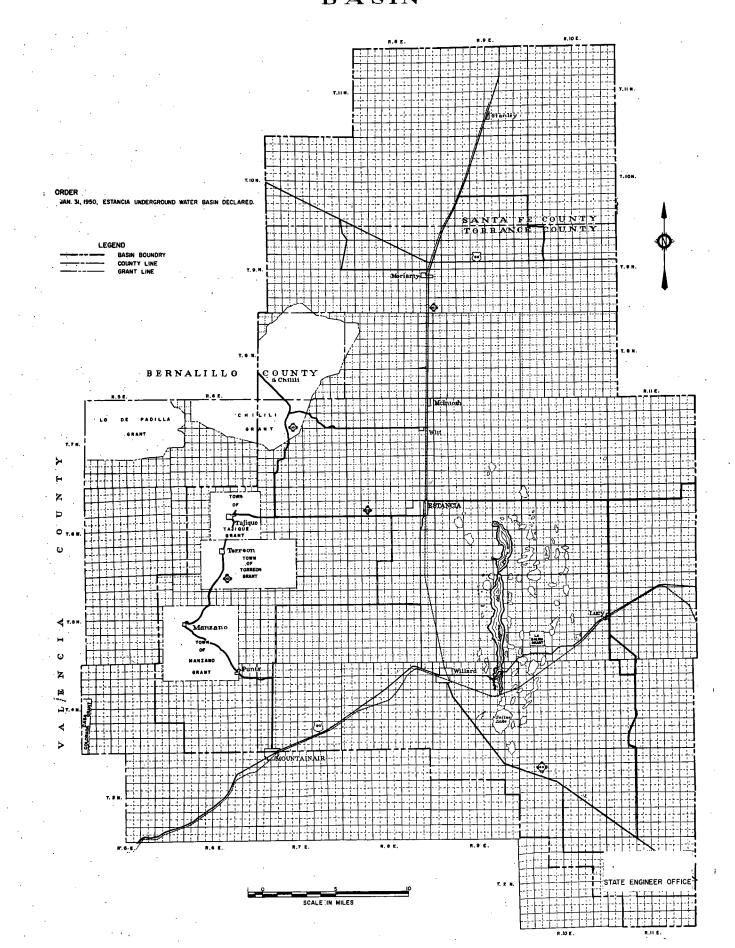


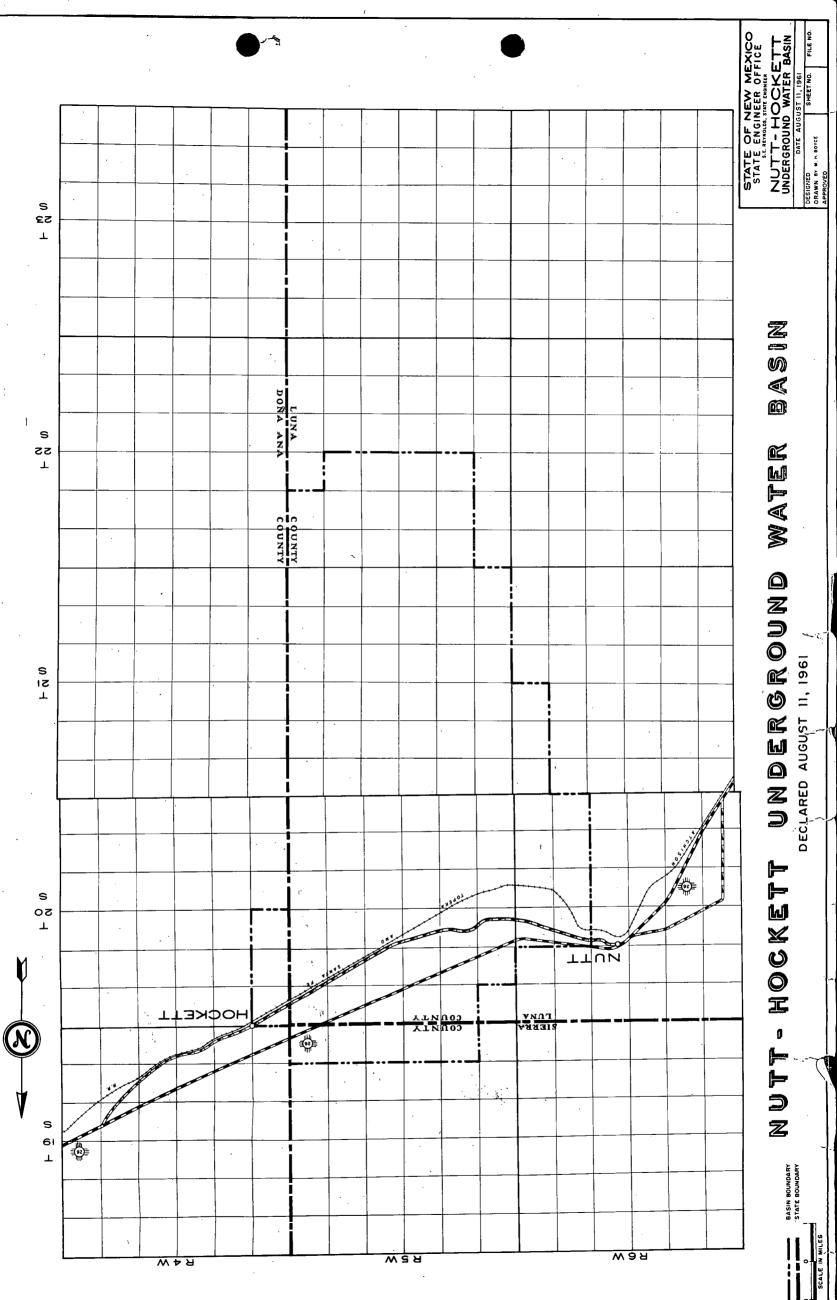






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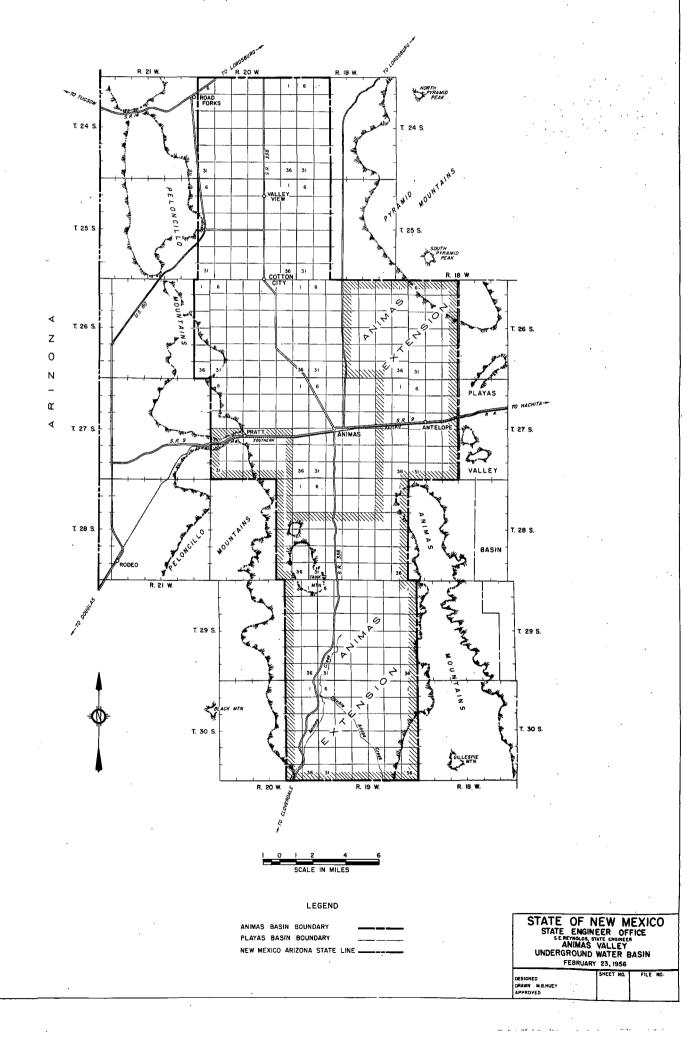
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# ANIMAS VALLEY UNDERGROUND WATER BASIN

 May
 5, 1948, Animas Valley Underground Water Basin declared.

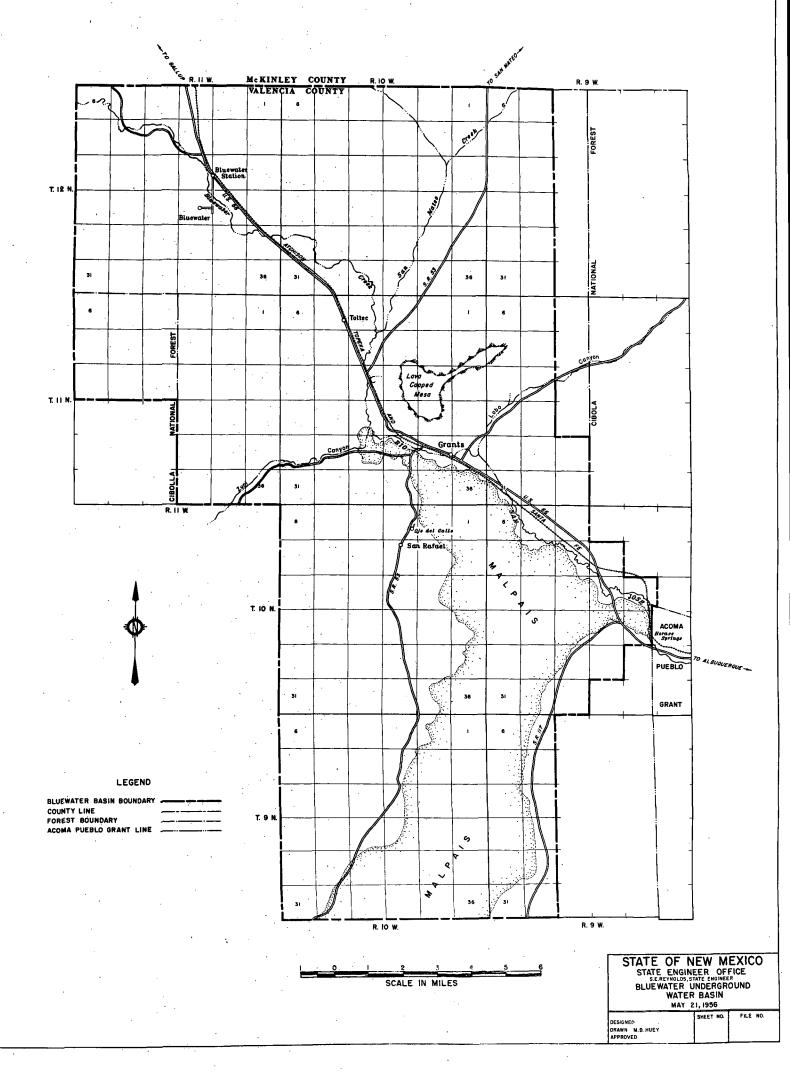
 June
 14, 1948, Basin closed to appropriations for irrigation, municipal, and industrial purposes.

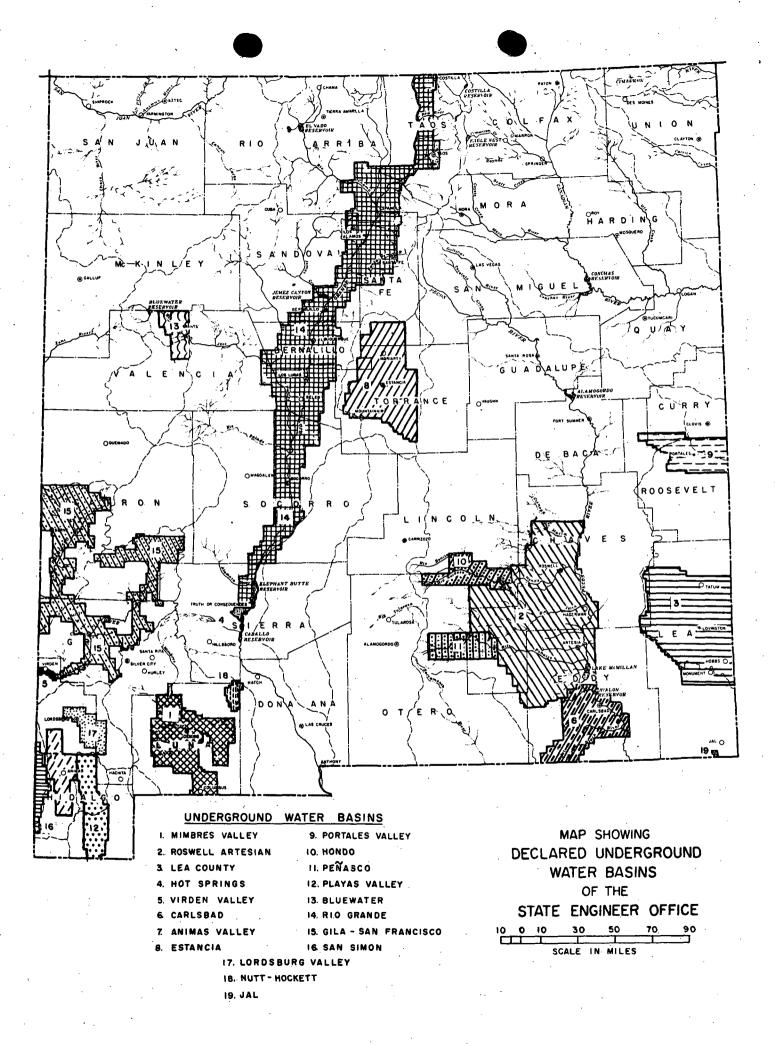
 Feb. 23, 1956, Extension declared and closed.

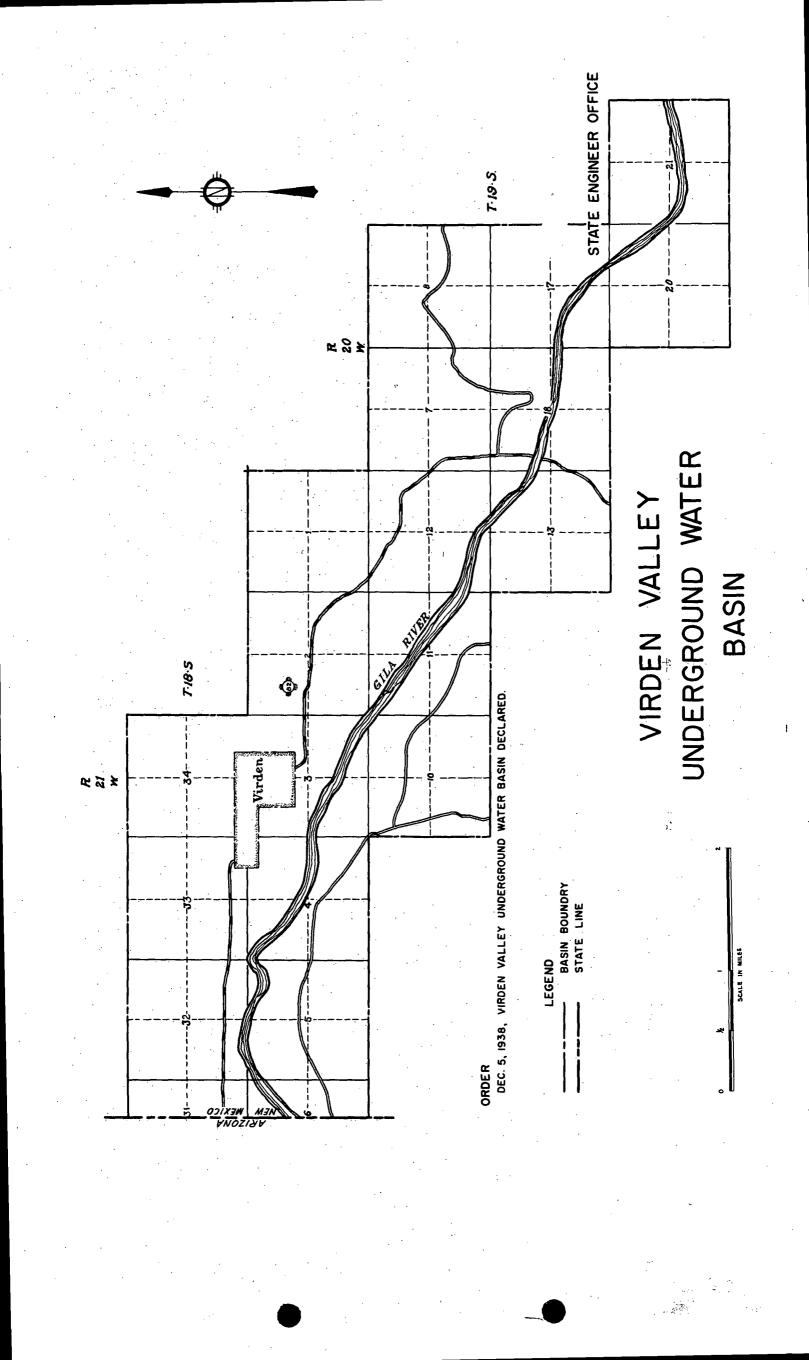


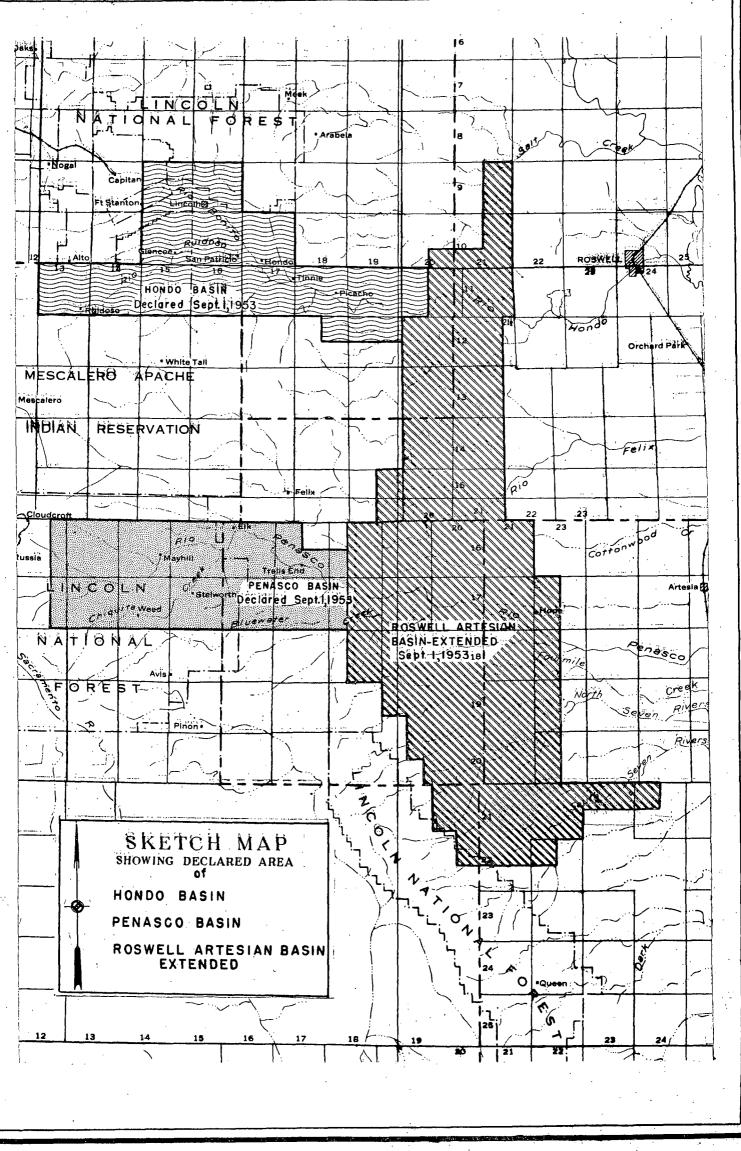
# BLUEWATER UNDERGROUND WATER BASIN

May 21, 1956, Bluewater Underground Water Basin declared and closed to appropriations for irrigation, industrial, and municipal purposes.









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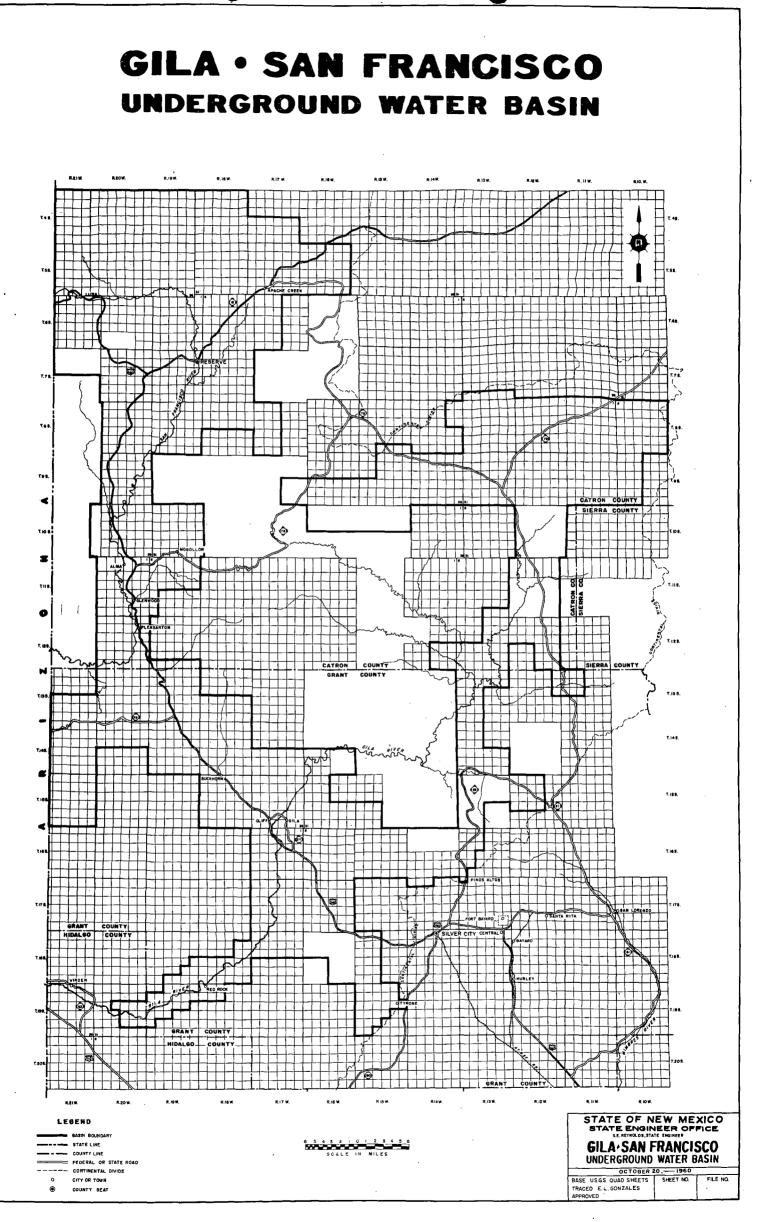
DECLARATION OF EXTENSION OF THE UNDERGROUND WATER BASIN IN CHAVES AND EDDY COUNTIES KNOWN AS THE ROSWELL ARTESIAN BASIN, DECLARED SEPTEMBER 1, 1953, CLOSED SEPTEMBER 1, 1953

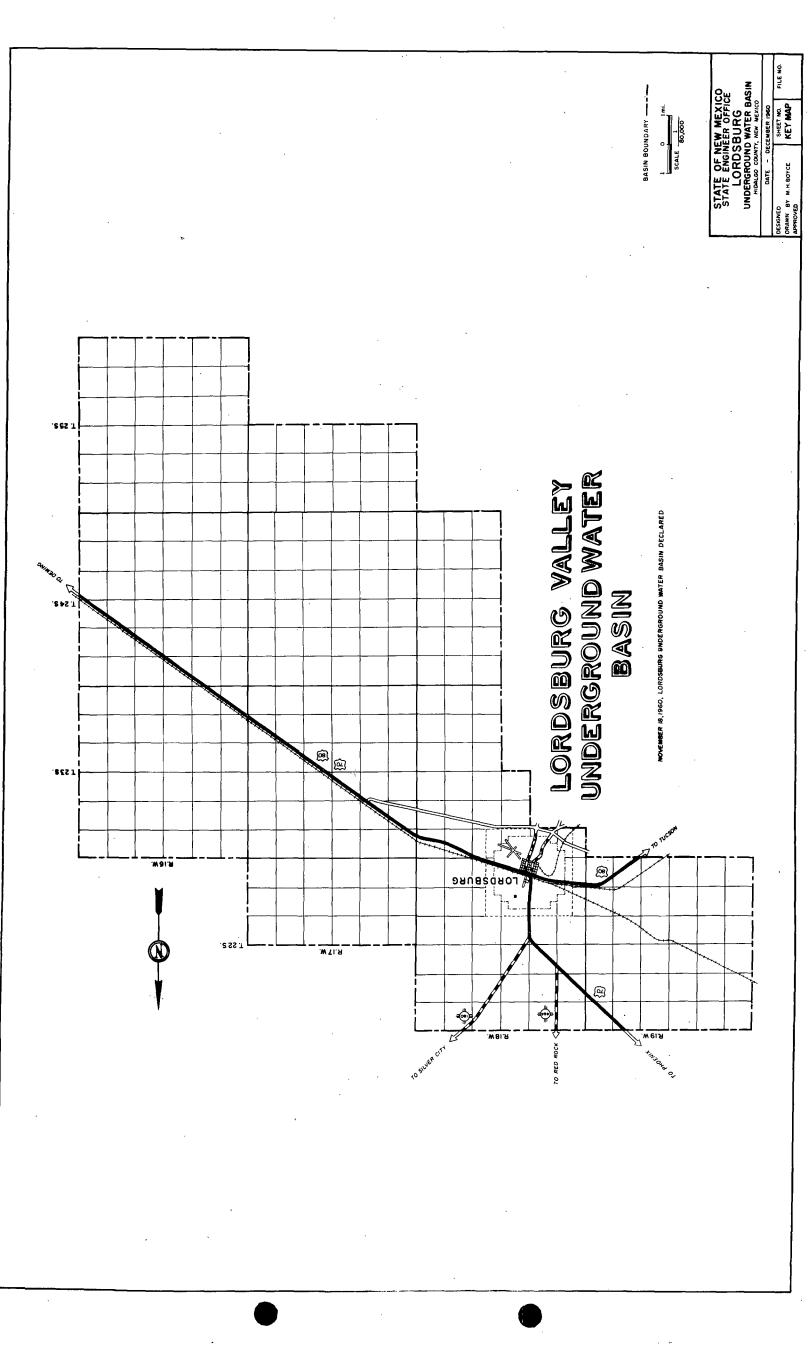
Twp. 98	Rge. 21E	Sections" 1 to 3, 10 to 15 22 to 27, 34 to 36	<b>Tvp.</b> 185	Rge. 18E	Sections 1 to 4, 9 to 16 21 to 28, 33 to 36	• • •
105	20E	25 to 27, 34 to 36	18S	19E -	A11	
108	21F	1 to 3, 10 to 15	185	20E	A11	
115	201	22 to 36 1 to 3, 10 to 15	185	21E	A11	а.
	2 OI	22 to 27, 34 to 36	185	23E	4 to 9, 16 to 21	
115	21E	A11	195	192	28 to 33 1 to 27, 34 to 36	÷.,
125	20E	A11	196	20E	A11	
125	21E	All	198	21E	ÂÌÌ	
135	20E	All	198	23E	4 to 9, 16 to 21	
135	21F	AII			28 to 33	
14S	20E	A11	208	19E	1 to 3, 10 to 15	* <i>1</i> * +
145	21E	All		· ·	24, 25, 36	
158	19E	1 to 3, 10 to 15	208	20E	All .	,
•		22 to 27, 34 to 36	205	21E	All	
158	20E		205	2 <b>3</b> E	4 to 9, 16 to 21	· ·
158	2]E	All			28 to 33	1.1.1
165	182	1 to 4, 9 to 16	2025	20E	Âll	· · ·
		21 to 28, 33 to 36	2055	21E	<b>A11</b>	
16S	19E	A11	20 <del>§</del> S	22E	All	
165	20E	A11	20 <mark>8</mark> 5	2 <b>3</b> E	A11	
16S	21E	All	218	20E	1 to 30, 34 to 36	
175	18E	1 to 4, 9 to 16	215	2]E	Á11	
		21 to 28, 33 to 36	215	22E	All	· · ·
175	19E	A11	215	23E	1 to 18	
175	20E	A11	215	24E	4 to 9, 16 to 18	•
178	21E	All	225	20E	1 to 3, 10 to 15	
175	230	4 to 9, 16 to 21	225	21E	1 to 18	
	-	28 to 33	229	22E	4 to 9, 16 to 18	
		THE HONDO UNDERGROUND WATE	R BASIN IN LI	INCOLN C	COUNTY, NEW MEXICO,	, , ,
Tvp.	Rge.	Sections	Twp.	Rge.	Sections	4 -
98 26	15E	All	115	15E	A11	· · ·
.98	16E	A11	115	16E	<u>A11</u>	
105	15E	A11	115	17E	A11	
106	16E	A11	115	18E	A11	
105	17E	A11	115	19E	A11	
					4 to 9, 16 to 21, 2	28 to 33
<b>دید</b> .	lár	All	125	196	1 to 3, 10 to 15	
11S 11S DECLAR	13E 14E	A11 A11 THE PENASCO UNDERGROUND WA	11S 12S 12S	20E 18E 19E	1 to 3, 10 to 1 to 18	15

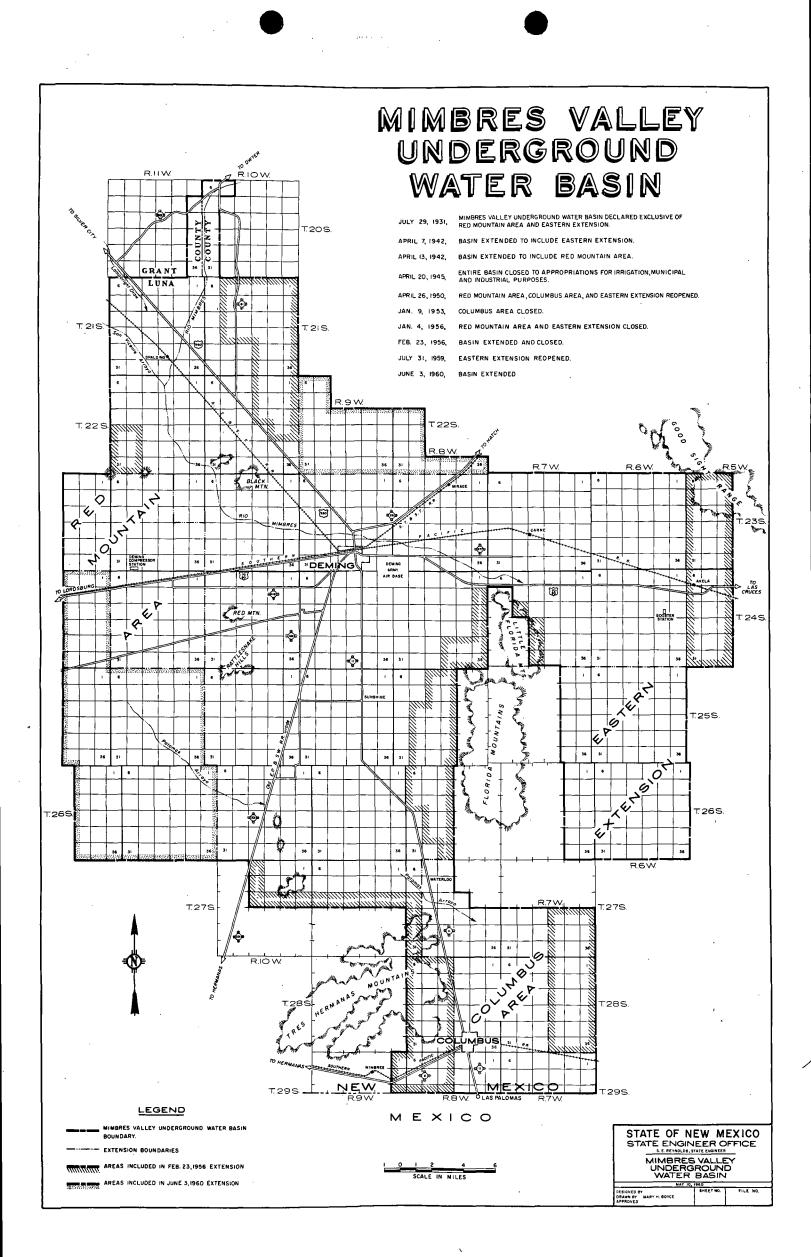
DECLARATION OF THE PENASCO UNDERGROUND WATER BASIN IN OTERO AND CHAVES COUNTIES, NEW MEXICO, DECLARED SEPTEMBER 1, 1953

Twp.	Rge.	Sections	Twp.	Rge.	Sections
16S	12E	1, 2, 11 to 14,	175	1ŽE	1, 2, 11 to 14, 23 to 26
		23 to 26, 35, 36	,		35, 36
16S	13E	A11	175	1 <i>3</i> E	A11
16S	14E	All	175	14E	A11
165	15E	A11	17S	15E	A11
16S	16E	A11	175	16E	All
16S	17E	4 to 9, 16 to 36	17S	17E	A11
16S	18E	19 to 20, 29 to 32	175	18E .	5 to 8, 17 to 20
			·		29 to 32

\*All sections are inclusive.

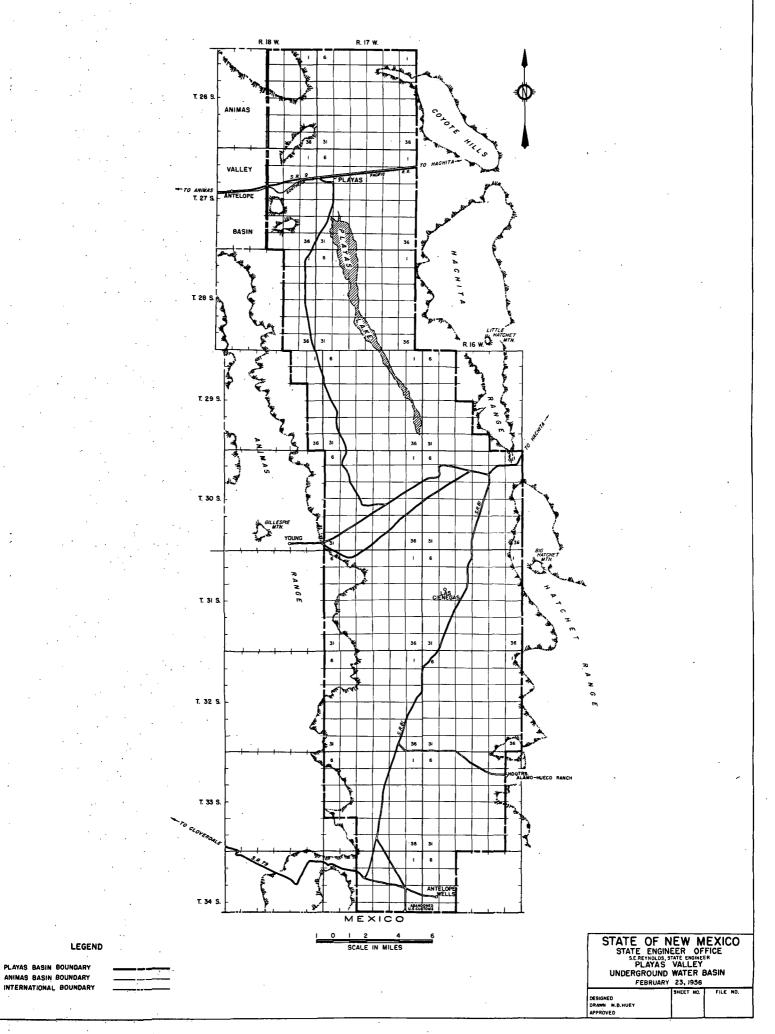




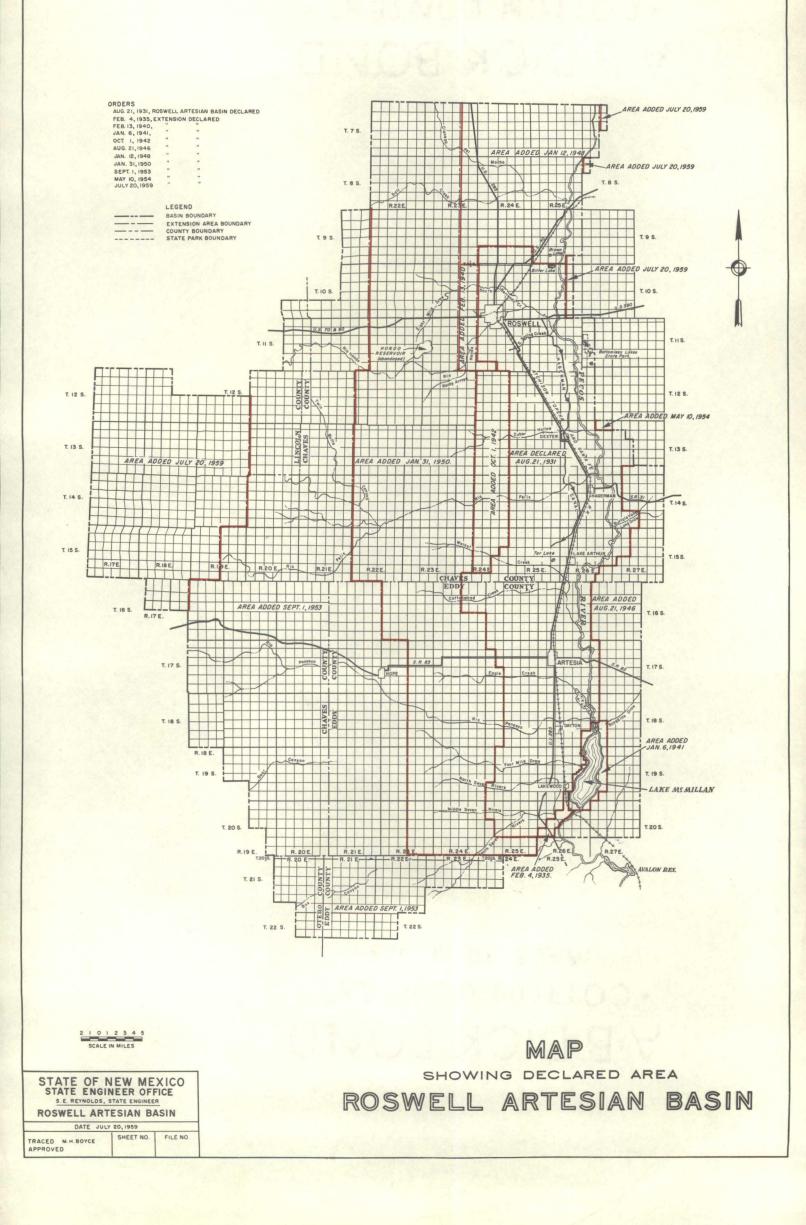


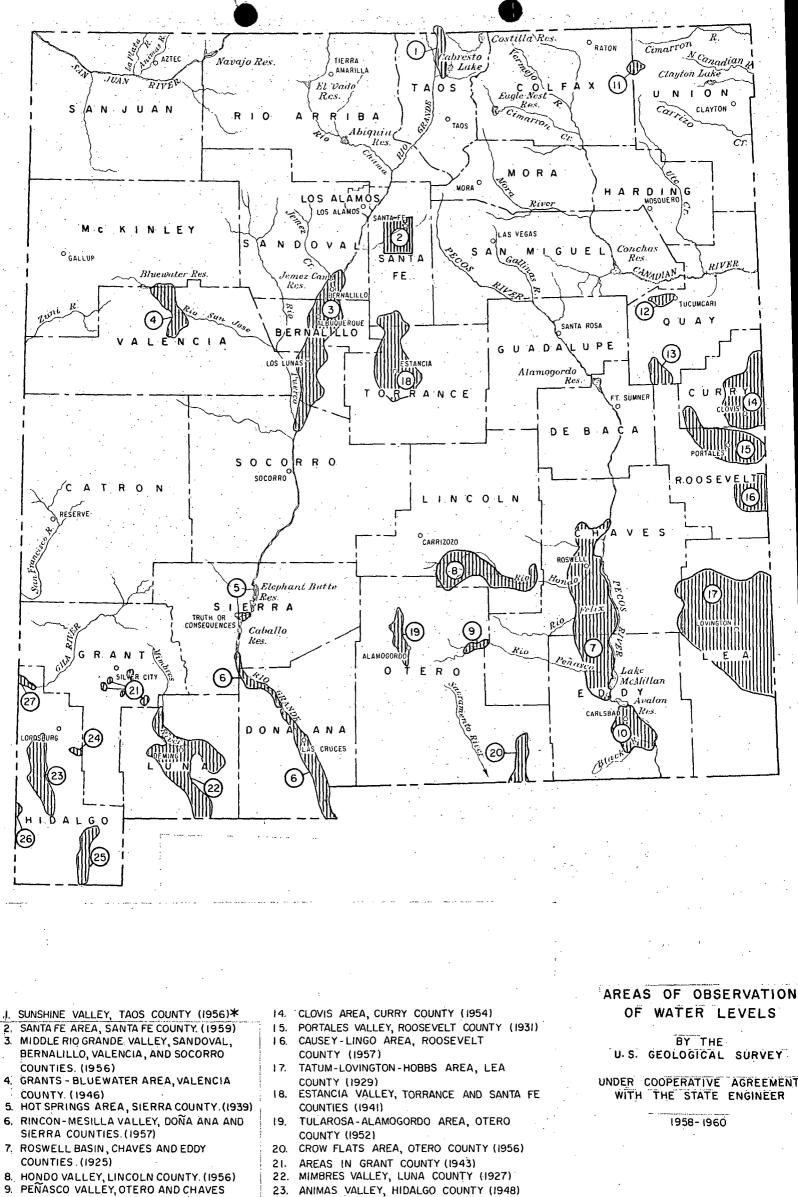
# PLAYAS VALLEY UNDERGROUND WATER BASIN

February 23, 1956, Playas Valley Underground Water Basin declared



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ANIMAS VALLEY, HIDALGO COUNTY (1948) LORDSBURG VALLEY, HIDALGO COUNTY (1956) 23.

- 24.
  - PLAYAS VALLEY, HIDALGO COUNTY (1948)
- 25. RODEO AREA, HIDALGO COUNTY (1958)
- 26 VIRDEN VALLEY, HIDALGO COUNTY. (1939)
- 27.
- 12. TUCUMCARI AREA, QUAY COUNTY (1953) 13. HOUSE AREA, QUAY COUNTY (1940)

CARLSBAD AREA, EDDY COUNTY. (1942)

II. CAPULIN AREA, UNION COUNTY (1957)

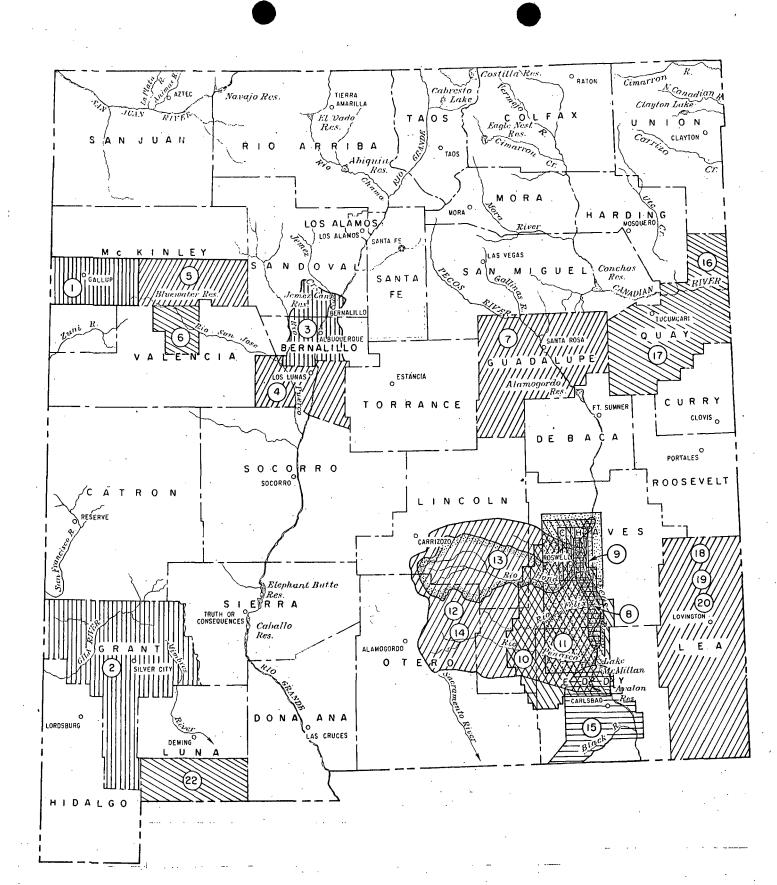
COUNTIES (1955)

0

★ NUMBERS IN PARENTHESES REFER TO YEAR OBSERVATION PROGRAM WAS STARTED

STATE ENGINEER OFFICE DRAWN BY A BACIGALUPA

JUNE 1960 0 5 10 20 30 40 SCALE IN MILES 50



#### DESCRIPTION OF PROGRAMS

#### LOWER COLORADO RIVER BASIN

- GALLUP AREA, MCKINLEY COUNTY: GEOLOGY AND GROUND-WATER CONDITIONS.
   GRANT COUNTY: GEOLOGY AND GROUND-WATER CONDITIONS.

#### RIO GRANDE BASIN

- ALBUQUERQUE AREA, BERNALILLO AND SANDOVAL COUNTIES: GEOLOGY AND GROUND-WATER RESOURCES.

- COUNTIES: GEOLOGY AND GROUND-WATER RESOURCE CONDITIONS AND GEOLOGY.
  SOUTHEASTERN MCKINLEY COUNTY: GROUND-WATER OCCURENCE AND GEOLOGY.
  GRANTS-BLUEWATER AREA, VALENCIA COUNTY: GEOLOGY AND GROUND-WATER CONDITIONS.

### PECOS RIVER BASIN

- RIVER HASIN
   GUADALUPE COUNTY: GEOLOGY AND WATER RESOURCES.
   ROSWELL BASIN, CHAVES AND EDDY COUNTIES: APPRAISAL OF POTENTIAL GROUND-WATER SALVAGE ALONG THE PECOS RIVER BETWEEN ACME AND ARTESIA.
   ROSWELL BASIN, CHAVES COUNTY: OCCURRENCE OF SALINE WATER EAST OF ROSWELL (STATE ENGINEER TECHNICAL REPORT 17, JUNE 1960).
   ROSWELL BASIN, CHAVES AND EDDY COUNTIES: EVALUATION OF PUMPAGE (OPEN-FILE REPORT, JUNE 1960, FOR PUBLICATION BY STATE ENGINEER).

- 11.
- ROSWELL BASIN, CHAVES AND EDDY COUNTIES: SALINE GROUND-WATER CON-DITIONS (OPEN-FILE REPORT, MAY 1960). ROSWELL BASIN: RECHARGE STUDY. HONDO VALLEY, LINCOLN COUNTY: WATER RESOURCES. ROSWELL BASIN: TRITIUM STUDY. CARISBAD AREA. EDDY COUNTY: GEOLOGY 13.
- 14.
- ROSWELL BASIN: TRITIUM STUDY. CARLSBAD AREA, EDDY COUNTY: GEOLOGY AND WATER RESOURCES (OPEN-FILE REPORT, DEC.1959, TO BE PUBLISHED BY U.S. GEO-LOGICAL SURVEY). QUAY COUNTY: GEOLOGY AND GROUND-WATER CONDITIONS. QUAY COUNTY: GROUND-WATER CONDITIONS IN STRUCTURAL BASINS WEST OF TUCUM-CARI. NORTHERN LEA COUNTY: PROGRESS REPORT 15.
- 16,
- 17.
- CARI. NORTHERN LEA COUNTY: PROGRESS REPORT ON GROUND-WATER RESOURCES. NORTHERN LEA COUNTY: HYDROLOGIC ATLAS. NORTHERN LEA COUNTY: RECHARGE STUDY. SOUTHERN LEA COUNTY: GEOLOGY AND GROUND-WATER CONDITIONS. 18.
- 19.
- 20. 21.
- CLOSED BASINS 22. SOUTHERN LUNA COUNTY: PROGRESS REPORT ON GROUND-WATER RESOURCES.

## GROUND-WATER INVESTIGATIONS

# BY THE U. S. GEOLOGICAL SURVEY

UNDER COOPERATIVE AGREEMENTS WHEREIN THE STATE ENGINEER IS A PARTY

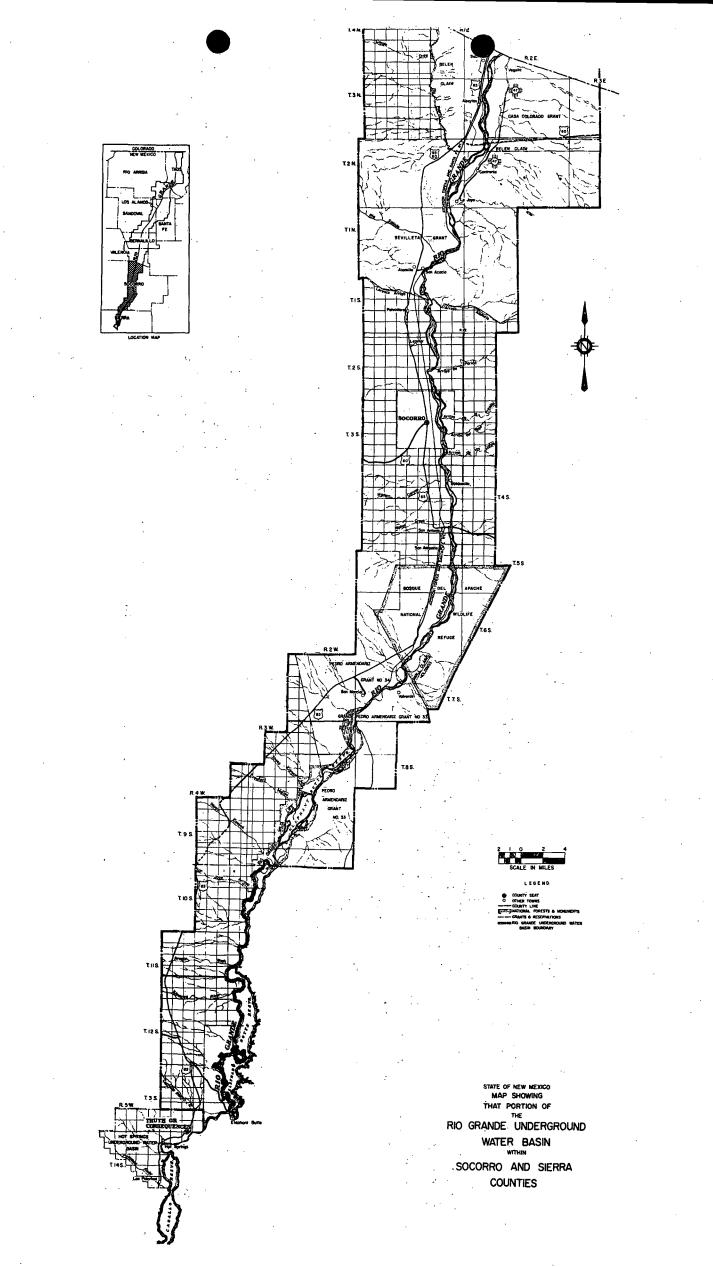
#### 1958-1960

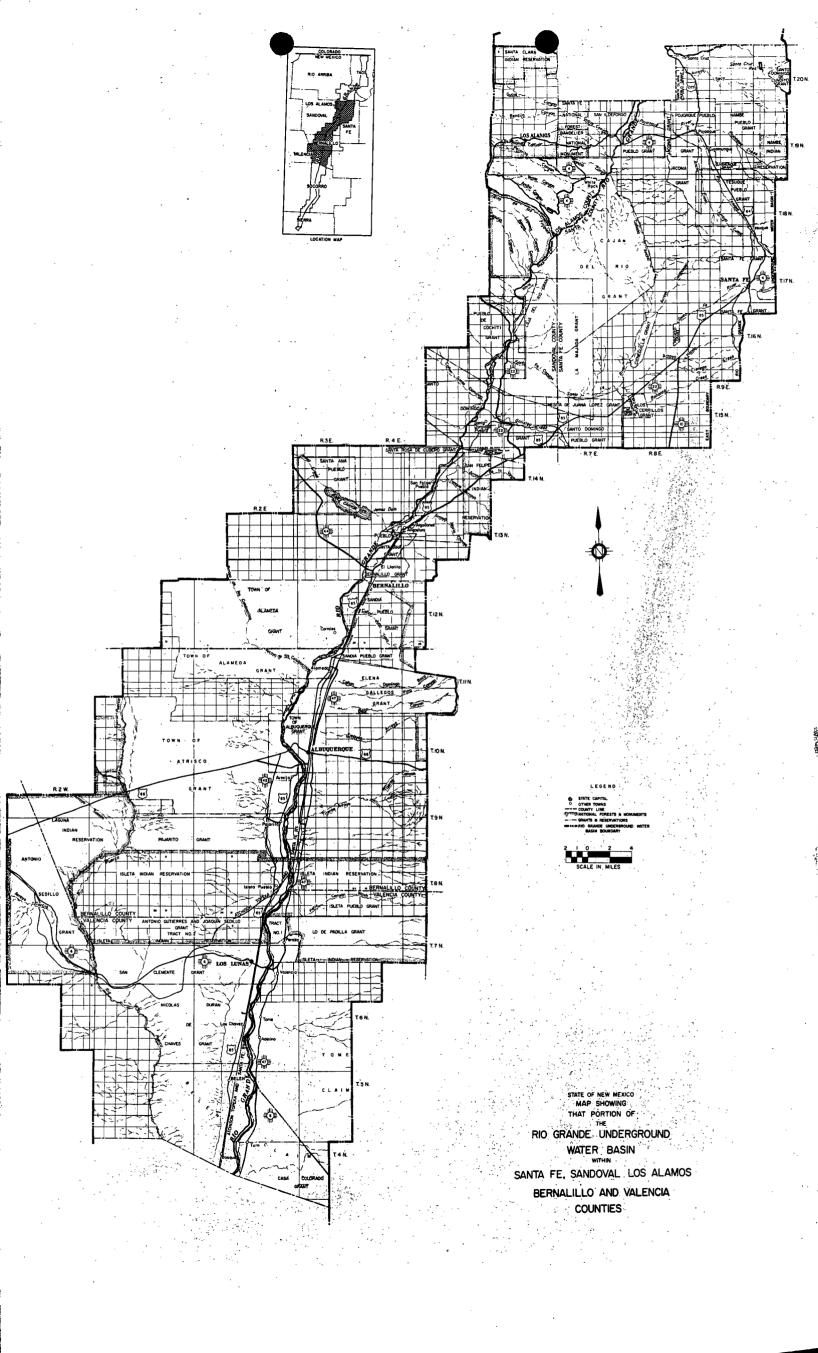
#### . • STATE ENGINEER OFFICE

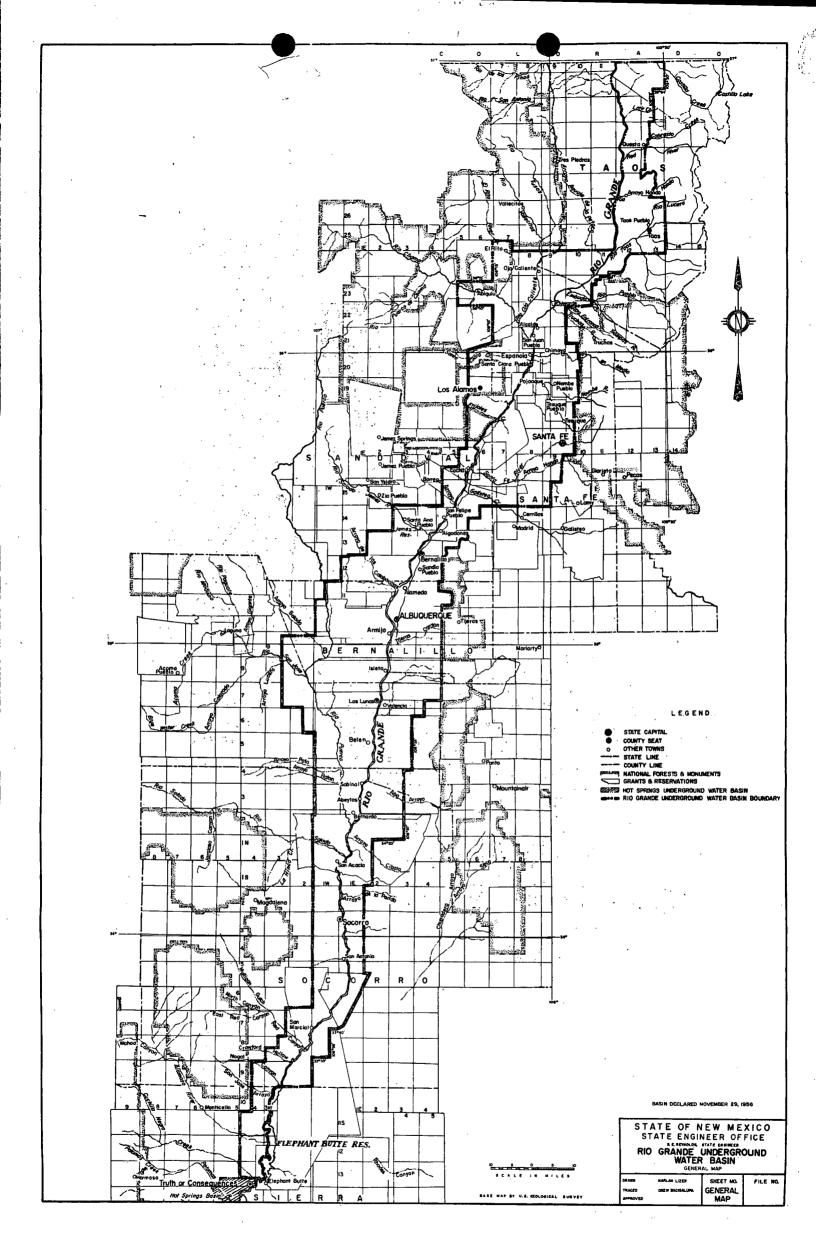
DRAWN BY M.H. BOYCE

# **JUNE 1960**

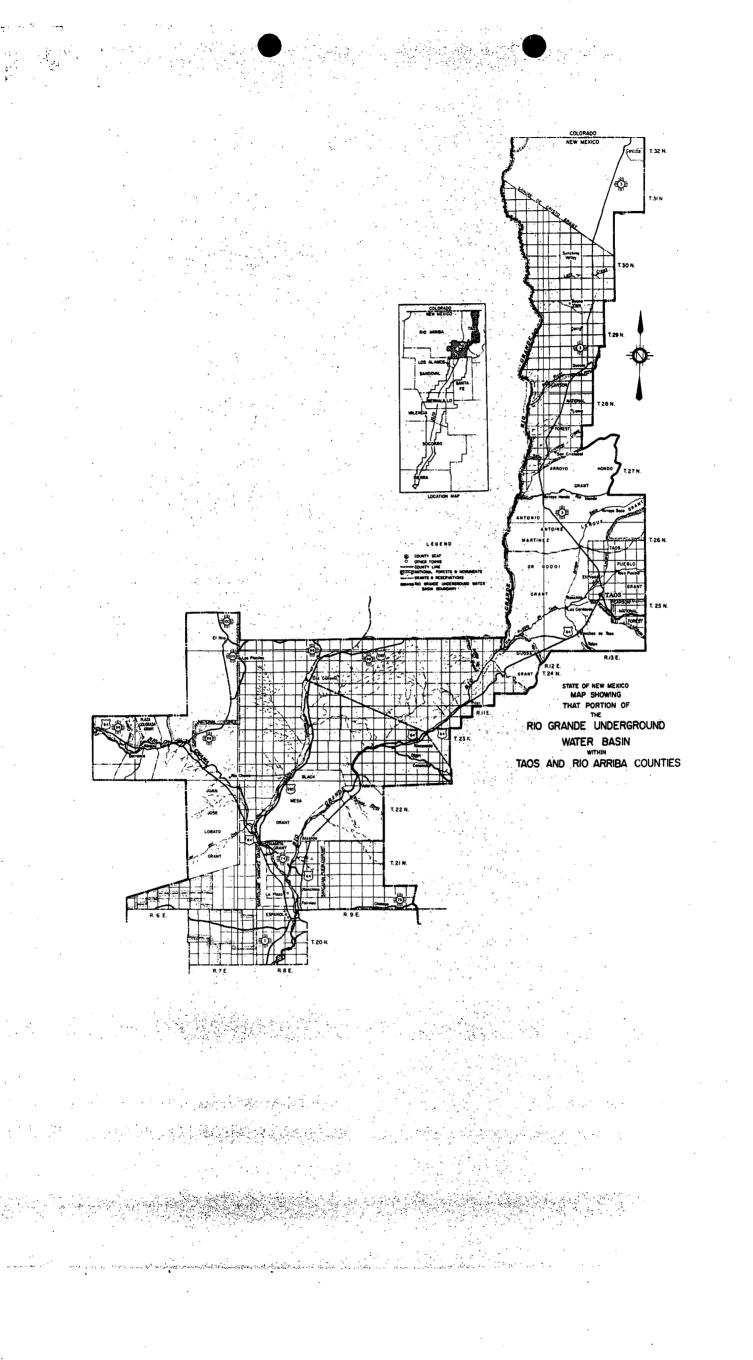
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o	5	10	20	30	40	50	a.	
-	_	SC	ALE IN	MIL	ES			
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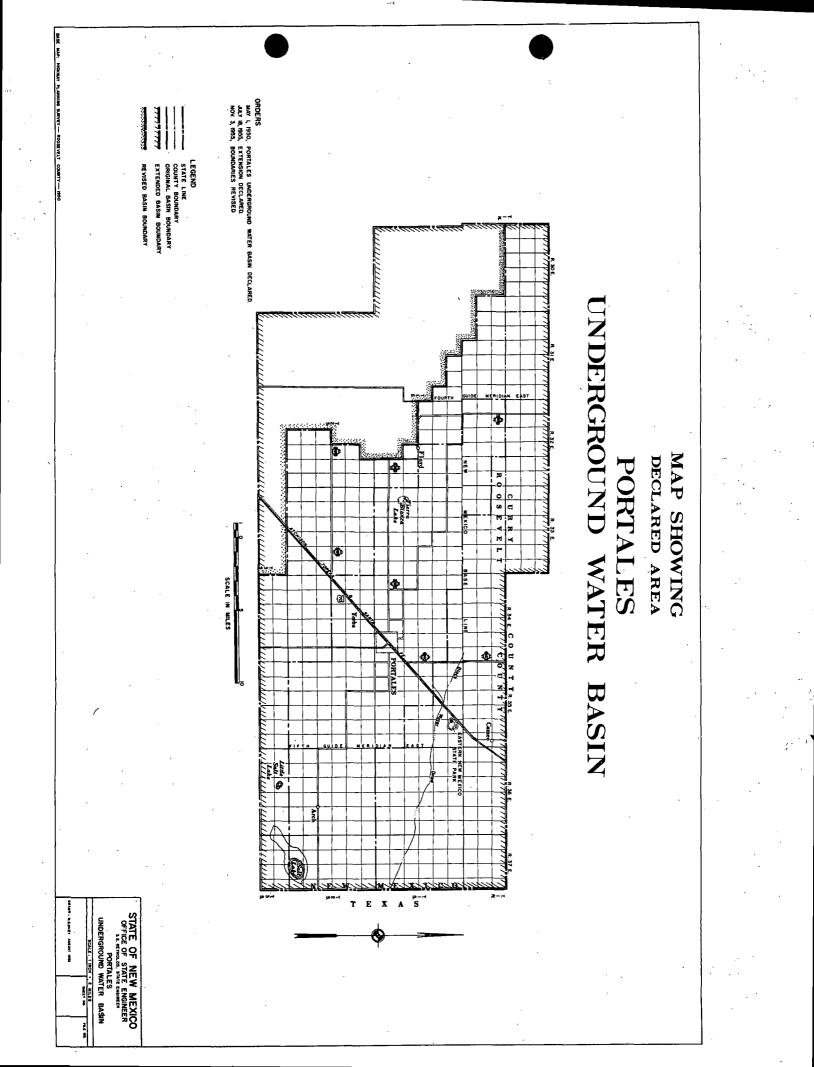


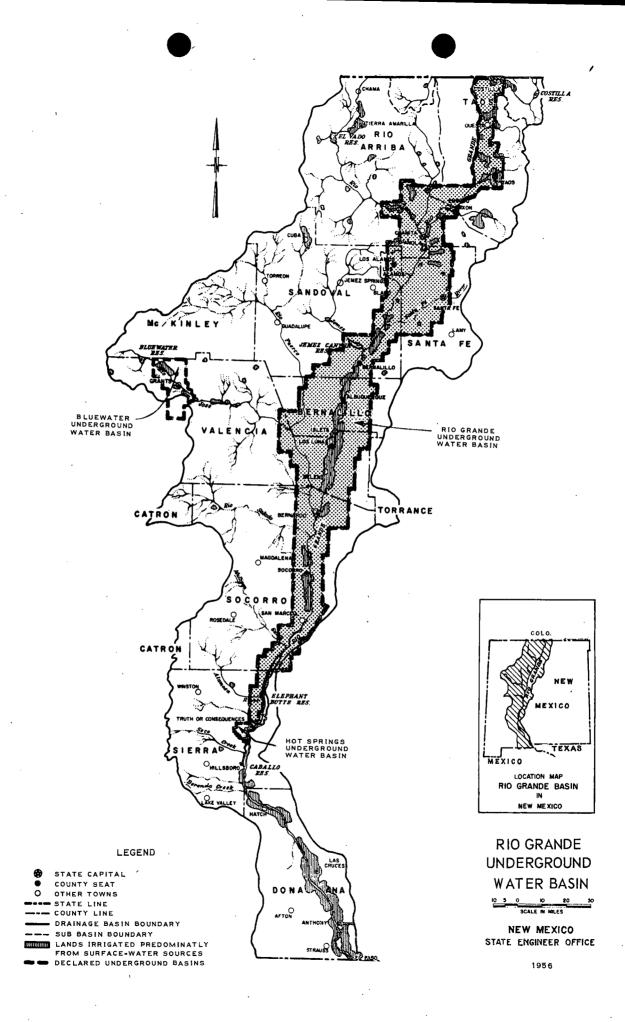


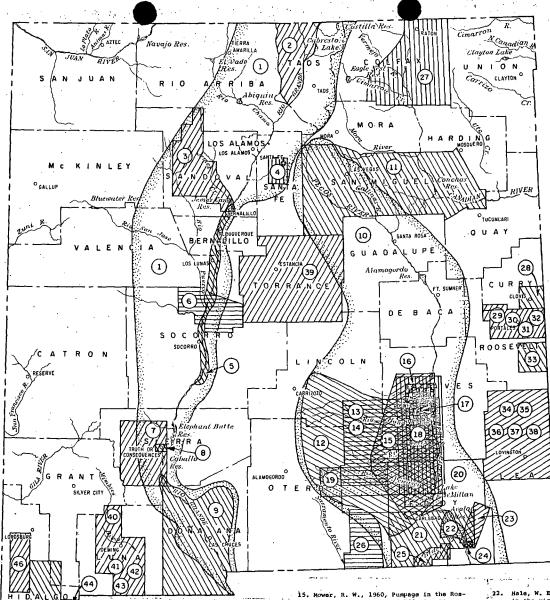


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MAJOR BASIC AND PROGRESS GROUND-WATER STUDIES

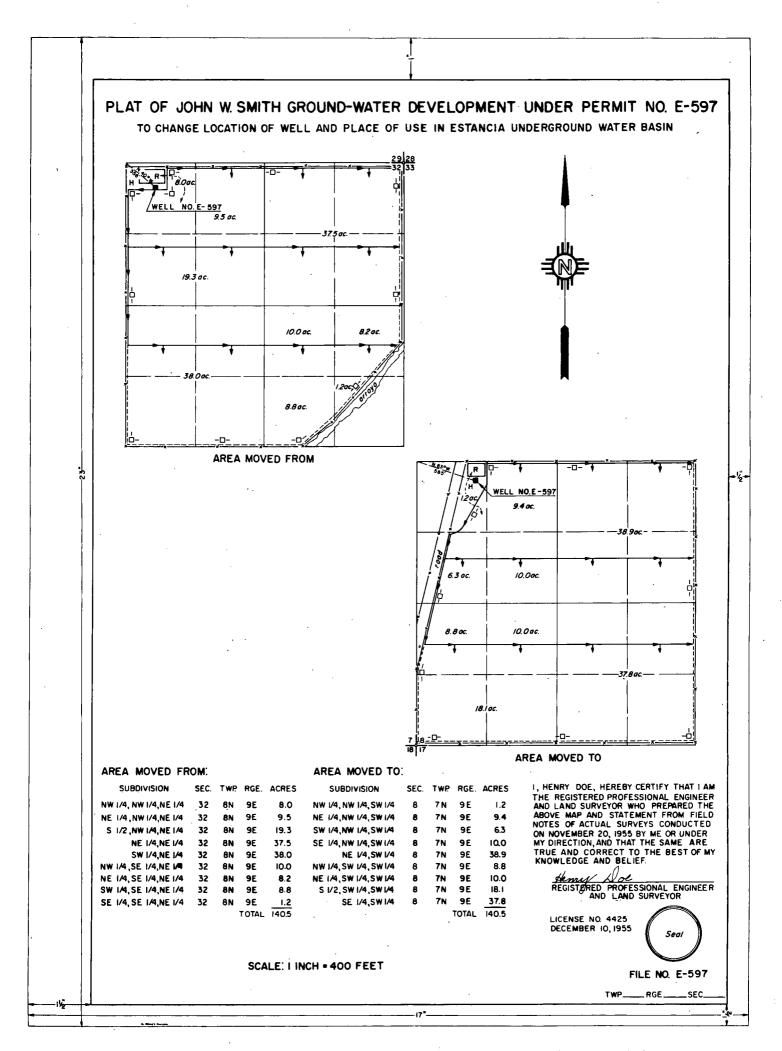
BY THE U.S. GEOLOGICAL SURVEY

UNDER COOPERATIVE AGREEMENTS WHEREIN THE STATE ENGINEER IS A PARTY

JUNE - 1960

STATE ENGINEER OFFICE DRAWN BY M.H. BOYCE JUNE 1960

0 5 10 20 30 40 50



The sample plat shown above has been reduced to approximately one-half its original size for printing purposes. The water right is controlled by natural or artificial boundaries which limit cropping practice and include all water-using areas created by irrigation structures and works adjoining the cropped area. Storage reservoirs where isolated from the cropped area shall be shown as part of the water right.

# SAMPLE PLAT OF WATER RIGHT FILING MAP

STATE ENGINEER OFFICE

# DRILL HOLE RECORD

INSTRUCTIONS: This form should be executed in duplicate, preferably typewritten, and submitted to the near-est district office of the State Engineer. All sections pertaining to the specific drill hole shall be answered as completely and accurately as possible. Any additional remarks or information pertinent to the plugging or construction and operation and maintenance of the drill hole should be included in Section 7.

### Section 1

	City			State
	Hole is located in the	<sup>1</sup> ⁄4	<sup>1</sup> /4	<sup>1</sup> /4 of Section _
_ <b>_</b>	Twp	Rge:		·
	(B) Drilling Contractor			
<b></b>	Street and Number			
	City			

Elevation at top of casing in feet above sea level \_\_\_\_ \_\_\_\_Total depth of hole\_ Check whether water encountered is is shallow or in artesian. Depth to water upon completion \_

## Section 2

### PRINCIPAL WATER-BEARING STRATA

N	Depth in Feet		Thickness in	Description of Water-Bearing Formation					
No.	From	То	Feet						
1									
2				· ·					
3									
4									
5									

Section 3	ection 3 RECORD OF CASING							
Dia Pounds	Threads Depth		pth	Feet	Type Shee	Perforations		
in.	ft.	in	Тор	Bottom	reet	Type Shoe	From	То
		<u> </u>						
								· · · · · · · · · · · · · · · · · · ·

Section	4	

# RECORD OF MUDDING AND CEMENTING

	in Feet	Diameter	Tons	No. Sacks of	Methods Used	
From	То	Hole in in.	Clay	Cement		
					· · ·	
<u> </u>		1				

Section 5

## PLUGGING RECORD

Name of Plugging Contractor			
Street and Number	City	State	
Tons of Clay used	Tons of Roughage used	Type of roughage	
Plugging method used		Date Plugged	19
Plugging approved by:		Cement Plugs were placed as follow	's:

Basin Supervisor	No.	Depth From	of Plug To	No. of Sacks Used
FOR USE OF STATE ENGINEER ONLY				
Date Received				
				· · · · · · · · · · · · · · · · · · ·
File NoUse	<u></u>	L	ocation No.	

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Depth	in Feet	Thickness	Color	The of Material Reconstand
From	То	in Feet	Color	Type of Material Encountered
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Section 7. Remarks and additional information

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller



STATE ENGINEER OFFICE



# WELL RECORD

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INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed. Section 1

J	(A) Owner of well		
	Street and Number		
	City	State .	
	Well was drilled under Permit No	aı	nd is located in the
		Twp	Rge.
	(B) Drilling Contractor	Lic	ense No
	Street and Number		
	City	State .	
	Drilling was commenced		
	Drilling was completed		
(Plat of 640 acres)			

State w	hether w	vell is	shallow	or a	rtesianI	Dept	h to	o wate	er upon	completion	

Section	2		PRINCIPAL	WATER-BEARING STRATA
No.	Depth i	n Feet	Thickness in	Description of Water-Bearing Formation
	From	То	Feet	
1				
2				
3				
4				
5				

Section	3			RECOR	D OF CAS	SING			
Dia	Pounds	Threads	De	epth	pth Feet	Trme Shee	Perforations		
in.	ft.	in	Тор	Bottom	гее	Type Shoe -	From	То	_
	-				·				
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Section 4			RECORD	OF MUDDING A	ND CEMENTING
Depth	in Feet	Diameter	Tons	No. Sacks of	Methods Used
From	То	Hole in in.	Clay	Cement	Methods Used
			<del>~ .</del>		

Section 5	PLUGGING	RECO	RD			
Name of Plugging Contractor				Li	icense No.	
Street and Number	City	y	State			
Tons of Clay used					oughage	
Plugging method used						
Plugging approved by:			Cement Pl	ugs were	placed as follows:	
	Basin Supervisor	No.	Depth of From	Plug To	No. of Sacks Used	
FOR USE OF STATE 1	ENGINEER ONLY					
Date Received						
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File No	Use	·····	Locat	ion No		

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From	То	in Feet	Color	Type of Material Encountered
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller

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# Important-Read Instructions on Back Before Filling Out This Form

## APPLICATION FOR PERMIT TO DRILL FOR OIL

(required in artesian underground basins only)

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Арр	lication No			Book	~	Date Received	
	Name of applicar						
	Post Office add	ress		; Ci	ty or To	wn	
	County of			, Sta	ate of	wn	
2.	Well is to be dr						
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	on land owned by	· · · · · · · · · · · · · · · · · · ·		of		· · · · · · · · · · · · · · · · · · ·	
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	Casing and cemer						
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	Commission or th	e U.S.Geolog (has)	gical Survey	•		ith the Oil and <b>G</b> as C nd approved with the	1
7.	Time required to Time required to	commence cons complete the	struction works	<u> </u>			
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							applica
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	Subscribed and s A. D., 19	worn to before	e me this	*	day of	£	
	Www.compilesies					Notary Public	i
	My commission ex	htlee	·	· · ·			,

WR-28

APPROVAL OF THE STATE ENGINEER

· · · · · · · · · · · · · · · · · · ·	
Page	Date returned for correction
Recorded in Book	Application received
	Date received corrected

Works shall be completed and completion or plugging report filed on or before

run or cemented except in the presence of a representative of the State Engineer's Office. Engineer pertaining to the drilling of wells, and further provided, that casing shall not be Commission and provided that the applicant complies with all rules and regulations of the State This application is approved subject to the prior approval of the Oil and Gas Conservation

This is to certify that I have examined the above application for permit to drill for oil

to the foregoing provisions and conditions. to are structure of the state of New Wexload because and hereby approved by the state of the state of the state

-, к. р., 19 \_да увь\_ witness my hand and seal this

By: Chief,

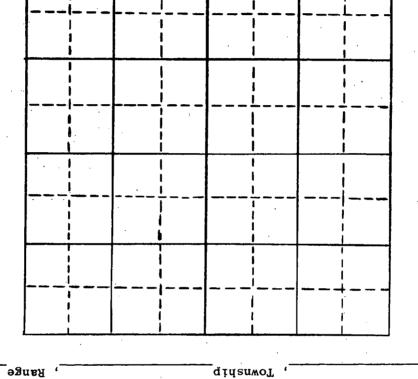
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Water Rights Division

.M.T.M.N

LOCATE WELL AS ACCURATELY AS POSSIBLE ON FOLLOWING PLAT:

gach of triplicate copies must be properly signed and attested. This form shall be executed, preferably typewritten, in triplicate.



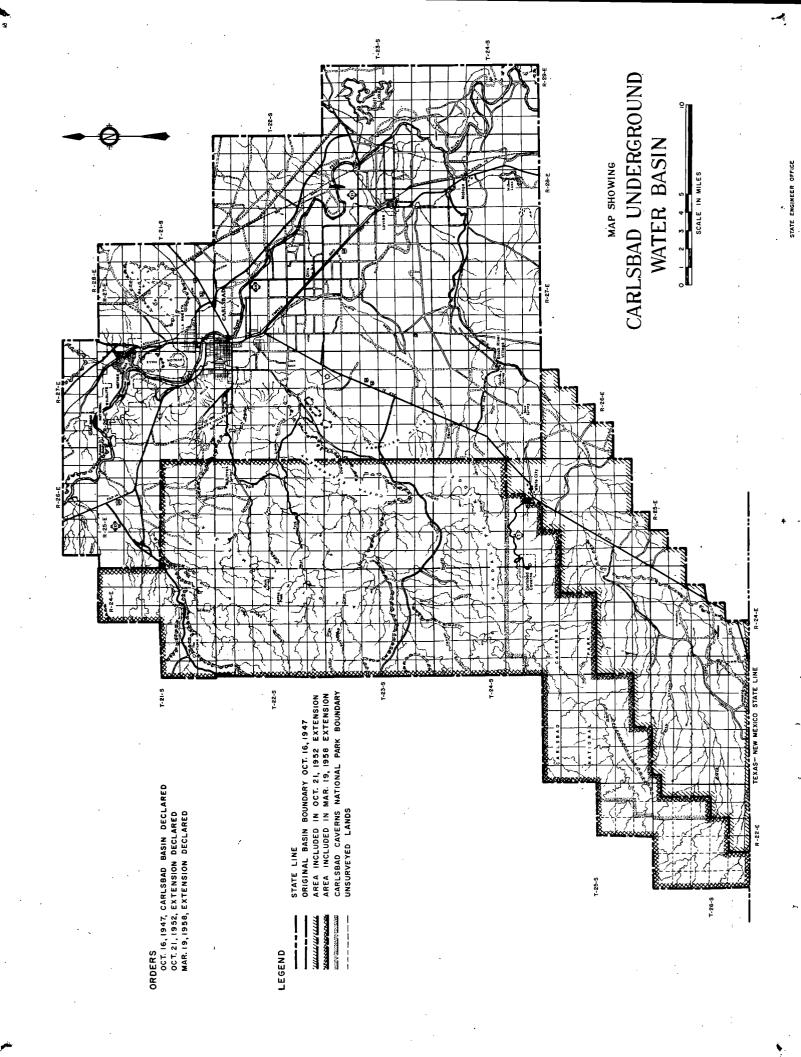
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•əsn All casing shall be inspected and approved by a representative of the State Engineer before Drilling shall not commence until approval of the State Engineer is obtained. If additional space is necessary, use a separate sheet or sheets and attach securely hereto. sec. 7----Estimate time reasonably required to commence and to complete project. Secs. 1-4---Fill out all blanks fully and accurately. A separate application for permit must be filed for each well used.

Log of well shall be filed with the District Supervisor, Box 810, Roswell, New Mexico, upon State Engineer or his representative. If well proves to be non-productive the well shall be plugged under the supervision of the

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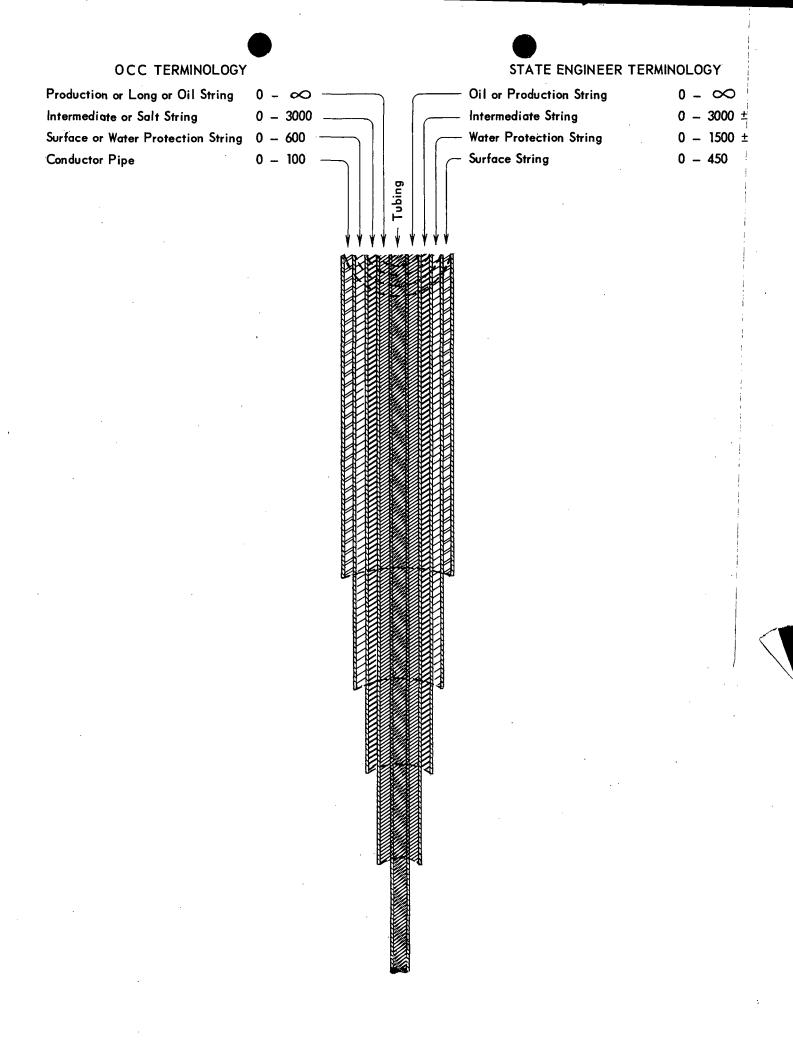
ORDERS AUG. 21, 1931, ROSWELL ARTESIAN BASIN DECLARED FEB. 4, 1935, EXTENSION DECLARED FEB. 3, 1940, " " JAN. 6, 1941, " " AUG. 21, 1942, " " AUG. 21, 1946, " " JAN. 31, 1950, " SEPT. 1, 1953, " " MAY 10, 1954, " " JULY 20, 1959, " " 罪 AREA ADDED JULY 20, 1959 T. 7 S. AREA ADDED JULY 20.1959 T. 8 S. T. 8 S. LEGEND BASIN BOUNDARY EXTENSION AREA BOUNDARY COUNTY BOUNDARY STATE PARK BOUNDARY R.22E. T. 9 S. T. 9 S. AREA ADDED JULY 20. 1959 T. 10 S T. 10 S. 5.380 ROSWELL U.S. 70 8 T. 11 S. T. II S. T. 12 S T. 12 S. AREA ADDED MAY 10, 1954 LINCOLN CHAVES 1942 Bullie T. 13 S. T. 13 S. AREA ADDED JULY 20, 1959 OCT. ADDED T. 14 S. AREA T.14 S R27E T. 15 S. T. 15 S T. 16 S. R. 17 E. R.ITE AREA ADDED RIVER AUG.21, 1946 T. 16 S. C T. 17 S. T. 17 S CHAVES R.18 E. T. 18 S. T. 18 S. AREA ADDED T. 19 S. T. 19 S. -LAKE MS MILLAN T. 20 S. T.20 S. R.27E. R.19 E. R.25 IS R 24 F AVALON RES. R 21 E TELE AREA ADDED FEB. 4, 1935. T. 21 S. E T. 22 S. MAP SHOWING DECLARED AREA STATE OF NEW MEXICO STATE ENGINEER OFFICE

ROSWELL ARTESIAN BASIN

DATE JULY 20, 1959 TRACED M.H.BOYCE APPROVED

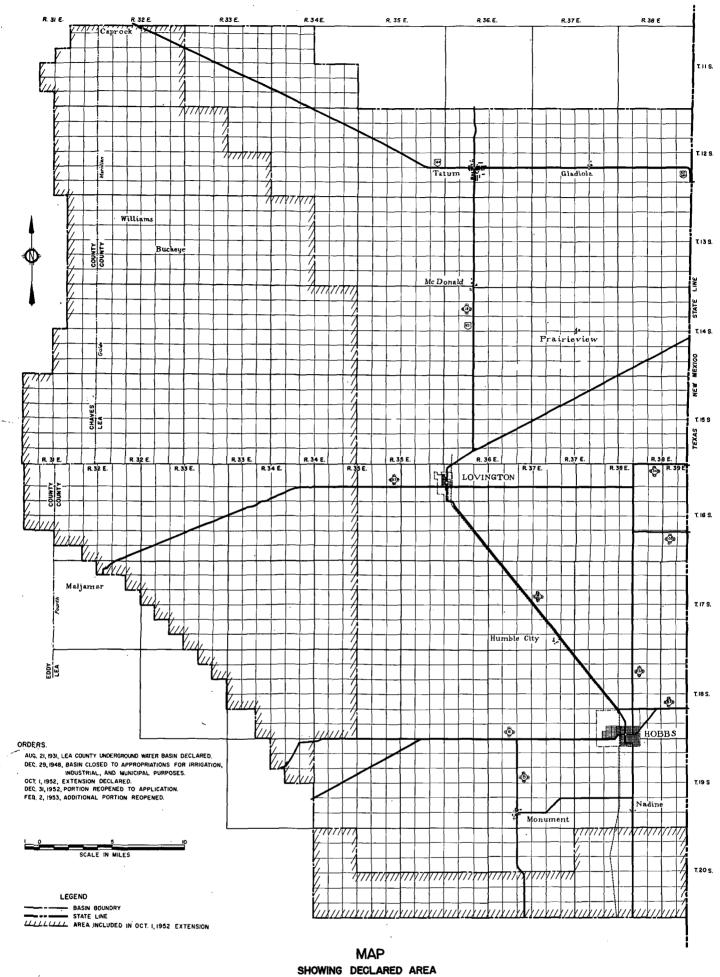
S.E. REYNOLDS, STATE ENGINEER ROSWELL ARTESIAN BASIN

FILE NO



# DIAGRAM of WELL CASING IN ARTESIAN BASINS

for the purpose of demonstrating the difference in the terminology of the State Engineer Office and the Oil Conservation Commission, and to clarify State Engineer Order No. 63 issued on 11 September 1956. No mention of liners or a second intermediate string, which might be required for an extremely deep hole, is made since neither would have significance in this program. Note that the curved, dashed lines connect the comparable casing walls and that the lengths of the two outer strings may vary considerably.



LEA COUNTY UNDERGROUND WATER BASIN

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STATE ENGINEER OFFICE

نسنيته:

# R. W. Byram & Co., - Oct., 1969

# OGALLALA FORMATION Lea County, New Mexico

Order No. R-3288, Adopting Operating Rules for the Production of Oil from the Ogaliala Formation, Lea County, New Mexico, August 1, 1967.

Application of Charles E. Seed for Four Ogailala Oil Proration Units and Special Rules, Lea County, New Mexico.

> CASE NO. 3628 Order No. R-3288

# ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on July 26, 1967, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 1st day of August, 1967, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That the applicant, Charles E. Seed, seeks authority to develop each of the quarter-quarter sections comprising the SW/4 of Section 30, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, for the production of oil from the Ogaliala formation to a maximum density of one well per 0.625-acre tract with no well being nearer than 82.5 feet to the outer boundary of a 40-acre unit and no nearer than 165 feet to another oil well producing from the Ogaliala formation, provided that an exception should be made for existing wells located on the aforesaid tracts which are not located in conformance with said spacing rules.

(3) That the applicant also seeks a temporary exception to Rule 307 of the Commission Rules and Regulations for each well to be drilled on the aforesaid quarter-quarter sections to the Ogaliala formation in order to permit the utilization of a vacuum-type drilling unit during the drilling and completion of said wells.

(4) That the applicant further seeks authority to produce all wells, authorized by this order, on each 40-acreunit at capacity even though the aggregate production from said wells exceeds the 40-acre normal unit allowable.

(5) That the Ogallala formation is the major source of fresh water in the Lea County Underground Water Basin as declared by the State Engineer.

(6) That the oil existing in the Ogailala formation is not the result of a natural accumulation of oil and, therefore, does not constitute an oil pool as commonly understood in the oil and gas business. (7) That the presence of oil in the Ogallala formation constitutes a hazard to the fresh water supplies therein,

(8) That said oil should be removed from the Ogallala formation, a fresh water aquifer, as quickly and efficiently as possible.

(9) That the utilization as proposed by the applicant of a vacuum-type drilling unit during the drilling and completion of said wells will not damage any stratum containing oil or gas.

(10) That in order to facilitate the removal of oil, an adulterous substance when present in the Ogallala formation, from said aquifer, the applicant should be authorized to develop the aforesaid quarter-quarter sections for the production of oil from the Ogallala formation to the density requested by the applicant, to utilize a vacuum-type drilling unit during drilling and completion of said wells, and to produce said wells at capacity.

(11) That the applicant, Charles E. Seed, is the owner of four "water" wells located in the aforesaid quarter section and drilled under authority granted by the State Engineer.

(12) That said four "water" wells are capable of and are producing oil from the Ogallala formation.

(13) That upon expiration of the water well permits authorizing the aforesaid four "water" wells, said wells should be classified as oil wells.

IT IS THEREFORE ORDERED:

(1) That the applicant, Charles E. Seed, is hereby authorized to develop each of the quarter-quarter sections comprising the SW/4 of Section 30, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, to a maximum density of one well per 0.625-acre tract for the purpose of removing oil from the Ogailala formation, a fresh water aquifer.

PROVIDED HOWEVER, that no well shall be drilled nearer than 8.5 feet to the outer boundary of a 40-acre tract and no nearer than 165 feet to another oil well located on said tract.

(2) That the locations of the four "water" wells presently completed in and producing oil from the Ogallala formation are hereby approved as oil wells, effective upon the termination of the water well permits authorizing said wells; that the operator of the four "water" wells shall notify the Hobs District Office of the Commission in writing of the name and location of said four wells upon expiration of the water well permits and shall also file with said office Forms C-101 and C-102 in accordance with Rules 1101 and 1102 of the Commission Rules and Regulations.

(3) That the applicant is hereby authorized, as an exception to Rule 307 of the Commission Rules and Regulations, to utilize a vacuum-type drilling unit during the drilling and completion of each of the oil wells authorized by Order No. (1) of this order.

(4) That the applicant is hereby authorized to produce each of the wells authorized by this order at maximum capacity until further order of the Commission.

(5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

# SECTION II

# SOUTH PRAIRIE-DEVONIAN POOL Roosevelt County, New Mexico

Order No. R-3533, Adopting Temporary Operating Rules for the South Prairie-Devonian Pool, Roosevelt County, New Mexico, October 23, 1968.

Order No. R-3533-A, October 14, 1969, makes permanent the rules adopted in Order No. R-3533.

Application of J. M. Huber Corporation for the Creation of a New Oil Pool and for Special Pool Rules, Roosevelt County, New Mexico.

> CASE NO. 3881 Order No. R-3533

# ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a. m. on October 9, 1968, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 23rd day of October, 1968, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That the applicant, J. M. Huber Corporation, seeks the creation of a new oil pool for Devonian production in Roosevelt County, New Mexico, and the promulgation of special rules and regulations governing said pool, including a provision for 80-acre spacing units.

(3) That the J. M. Huber Corporation Lone Star Federal Well No. 1, located in the NE/4 NE/4 of Section 20, Township 8 South, Range 36 East, NMPM, Roosevelt County, New Mexico, has discovered a separate common source of supply which should be designated the South Prairie-Devonian Pool; that the vertical limits of said pool should be the Devonian formation; that the horizontal limits of said pool should be the E/2 NE/4 of the aforesaid Section 20.

(4) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, temporary special rules and regulations providing for 80-acre spacing units should be promulgated for the South Prairie-Devonian Pool.

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and a state of the s State of the state of (5) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.

(6) That the temporary special rules and regulations should be established for a one-year period in order to allow the operators in the subject pool to gather reservoir information to establish the area that can be efficiently and economically drained and developed by one well.

(7) That this case should be reopened at an examiner hearing in October, 1969, at which time the operators in the subject pool should be prepared to appear and show cause why the South Prairie-Devonian Pool should not be developed on 40-acre spacing units.

# IT IS THEREFORE ORDERED:

(1) That a new pool in Roosevelt County, New Mexico, classified as an oil pool for Devonian production, is hereby created and designated the South Prairie-Devonian Pool, with vertical limits comprising the Devonian formation, and horizontal limits comprising the E/2 NE/4 of Section 20, Township 8 South, Range 36 East, NMPM, Roosevelt County, New Mexico.

(2) That temporary Special Rules and Regulations for the South Prairie-Devonian Pool, Roosevelt County, New Mexico, are hereby promulgated as follows:

# SPECIAL RULES AND REGULATIONS FOR THE SOUTH PRAIRIE-DEVONIAN POOL

RULE 1. Each well completed or recompleted in the South Prairie-Devonian Pool or in the Devonian formation within one mile thereof, and not nearer to or within the limits of another designated Devonian oil pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. Each well shall be located on a standard unit containing 80 acres, more or less, consisting of the N/2, S/2, E/2, or W/2 of a governmental quarter section; provided, however, that nothing contained herein shall be construed as prohibiting the drilling of a well on each of the quarter-quarter sections in the unit.

RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit comprising a governmental quarter-quarter section or lot, or the unorthodox size or shape of the tract is due to a variation in the legal subdivision of the United States Public Land Surveys. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset

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# R. W. Byram & Co., - Feb., 1975

# SECTION II

# (SLICK ROCK-DAKOTA POOL - Cont'd.)

from the same pool; provided, however, that in no event shall said well or wells be completed or recompleted nearer than 165 feet to the boundary of acreage owned by an offset operator.

RULE 3. The Secretary-Director of the Commission shall have authority to grant exceptions to Rule 2 without notice and hearing where an application therefor has been filed in due form and the necessity for the exception is based on topographical conditions.

All operators owning acreage within 330 feet of the proposed location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all operators owning acreage within 330 feet of the proposed location or if no such operator has entered an objection to the unorthodox location within 20 days after the Secretary-Director has received the application.

RULE 4. A 40-acre proration unit shall not produce in excess of the 40-acre top unit allowable for wells in the 0-5000 foot depth range in Northwest New Mexico, regardless of the number of wells on the unit.

# IT IS FURTHER ORDERED:

(1) That the locations of all wells presently drilling to or completed in the Slick Rock-Dakota Oil Pool or in the Dakota formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Aztec District Office of the Commission in writing of the name and location of the well on or before June 15, 1967.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

# OGALLALA FORMATION Lea County, New Mexico

Order No. R-3261, Adopting Operating Rules for the Production of Oil from the Ogallala Formation, Lea County, New Mexico, June 16, 1967.

Application of Amerada Petroleum Corporation for an Ogallala Oil Proration Unit, Special Rules for Said Unit and Authority for Fresh Water Disposal, Lea County, New Mexico.

> CASE NO. 3594 Order No. R-3261

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on June 6, 1967, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 16th day of June, 1967, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

# FINDS:

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

(2) That the applicant, Amerada Petroleum Corporation, seeks authority to develop the SE/4 NW/4 of Section 30, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, for the production of oil from the Ogallala formation to a maximum density of one well per 0.625-acre tract with no well being nearer than 82.5 feet to the outer boundary of the unit and no nearer than 165 feet to another oil well producing from the Ogallala formation, provided that an exception should be made for existing wells located on the aforesaid tract which are not located in conformance with said spacing rules.

(3) That the applicant also seeks a temporary exception to Rule 307 of the Commission Rules and Regulations for each well to be drilled on the aforesaid quarter-quarter section to the Ogallala formation in order to permit the utilization of a vacuum-type drilling unit during the drilling and completion of said wells.

(4) That the applicant further seeks authority to produce all wells authorized by this order at capacity even though the aggregate production from said wells exceeds the 40-acre normal unit allowable.

(5) That the Ogallala formation is the major source of fresh water in the Lea County Underground Water Basin as declared by the State Engineer.

(6) That the oil existing in the Ogallala formation is not the result of a natural accumulation of oil and, therefore, does not constitute an oil pool as commonly understood in the oil and gas business.

(7) That the presence of oil in the Ogallala formation constitutes a hazard to the fresh water supplies therein.

(8) That said oil should be removed from the Ogallala formation, a fresh water aquifer, as quickly and efficiently as possible.

(9) That the utilization as proposed by the applicant of a vacuum-type drilling unit during the drilling and completion of said wells will not damage any stratum containing oil or gas.

(10) That in order to facilitate the removal of oil, an adulterous substance when present in the Ogallala formation, from said aquifer, the applicant should be authorized to develop the aforesaid quarter-quarter section for the production of oil from the Ogallala formation to the density requested by the applicant, to utilize a vacuum-type drilling unit during drilling and completion of said wells, and to produce said wells at capacity.

(11) That the applicant, Amerada Petroleum Corporation, is the owner of two "water" wells located in the aforesaid quarterquarter section and drilled under authority granted by the State Engineer.

(12) That said two "water" wells are capable of and are producing oil from the Ogallala formation.

(13) That upon expiration of the water well permits authorizing the aforesaid twc "water" wells, said wells should be classified as oil wells.

# Page 280 New Mexico

# (OGALLALA FORMATION - Cont'd.)

(14) That applicant's request for authority to dispose of fresh water produced with the oil back into the Ogallala formation was dismissed, at the request of the applicant, without prejudice to the right of the applicant to utilize surface pits for the disposal of water to be produced with oil produced from the Ogallala formation.

# IT IS THEREFORE ORDERED:

(1) That the applicant, Amerada Petroleum Corporation, is hereby authorized to develop the SE/4 NW/4 of Section 30, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, to a maximum density of one well per 0.625-acre tract for the purpose of removing oil from the Ogallala formation, a fresh water aquifer;

**PROVIDED, HOWEVER, that no well shall be drilled nearer** than 82.5 feet to the outer boundary of said tract and no nearer than 165 feet to another oil well located on said tract.

(2) That the locations of the two "water" wells presently completed in and producing oil from the Ogallala formation are hereby approved as oil wells, effective upon the termination of the water well permits authorizing said wells; that the operator of the two "water" wells shall notify the Hobbs District Office of the Commission in writing of the name and location of said two wells upon expiration of the water well permits and shall also file with said office Forms C-101 and C-102 in accordance with Rules 1101 and 1102 of the Commission Rules and Regulations.

(3) That the applicant is hereby authorized, as an exception to Rule 307 of the Commission Rules and Regulations, to utilize a vacuum-type drilling unit during the drilling and completion of each of the oil wells authorized by Order No. (1) of this order.

(4) That the applicant is hereby authorized to produce each of the wells authorized by this order at maximum capacity until further order of the Commission.

(5) That jurisdication of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

SECTION II

# CARLSBAD PERMO-PENNSYLVANIAN GAS POOL Eddy County, New Mexico

Order No. R-3282-A, Rescinding the Temporary Operating Rules Adopted for the Carlsbad Permo-Pennsylvanian Gas Pool, Eddy County, New Mexico, October 1, 1974.

In the Matter of Case 3608 Being Reopened Pursuant to the Provisions of Order No. R-3282, Which Order Established Temporary Rules for the Carlsbad Permo-Penn Gas Pool, Eddy County, New Mexico, Including a Provision for 640-Acre Spacing.

> CASE NO. 3608 Order No. R-3282-A

> > 1.50

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on July 10, 1974, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 30th day of July, 1974, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That by Order No. R-3282, dated July 27, 1967, temporary rules were promulgated for the Carlsbad Permo-Penn Gas Pool, Eddy County, New Mexico, establishing temporary 640-acre spacing units.

(3) That pursuant to the provisions of Order No. R-3282, this case was reopened to allow the operators in the subject pool to appear and show cause why the Carlsbad Permo-Penn Gas Pool should not be developed on 320-acre spacing units.

(4) That no cause was shown why said pool should not be developed on 320-acre spacing.

(5) That in order to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, the temporary rules promulgated by Order No. R-3282 should be rescinded and the pool should be governed by the Statewide Rules for gas pools of Pennsylvanian age or oider, effective October 1, 1974.

# IT IS THEREFORE ORDERED:

(1) That the Temporary Rules governing the Carlsbad Permo-Penn Gas Pool, Eddy County, New Mexico, promulgated by Order No. R-3282, are hereby rescinded, effective October 1, 1974.

(2) That after October 1, 1974, the Permo-Penn Gas Pool shall be governed by the Statewide Rules for gas pools of Penn-sylvanian age or older.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

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Form 9-831a (Feb., 1926)

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# DEPARTMENT OF THE INTERIOR

U.S. Land Office Las Cruces

Serial Number 032233-A State of the is GEOLOGICAL SURVEY 7 the fearmine Lease or Permit B. A. Bowers

# SUNDRY NOTICES AND REPORTS ON WELLS 1

NOTICE OF INTENTION TO DRILL	SUBSEQUENT RECORD OF SHOOTING
NOTICE OF INTENTION TO CHANGE PLANS	RECORD OF PERFORATING CASING
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING
REPORT ON RESULT OF TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO ABANDON WELL
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO SHOOT	SUPPLEMENTARY WELL HISTORY
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Мо	Camey, Texas. April 3, 1930, 192
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NOTE.-Reports on this form to be submitted in triplicate to the Supervisor for approval

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Form 9-331a (Feb., 1926)

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# U.S. Land Office Las Cruces

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Serial Number 032233

Lease or Permit B. A. Bowers

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# SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT RECORD OF SHOOTING
NOTICE OF INTENTION TO CHANGE PLANS		RECORD OF PERFORATING CASING
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING
REPORT ON RESULT OF TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO ABANDON WELL
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO SHOOT		SUPPLEMENTARY WELL HISTORY

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, CR OTHER DATA)

McCamey, Lexas. March 27, 1950, 192

	Fol	lowing is a	notice of inter	ntion to do work cxctone	n land under	{permit lease } described	d as follows:
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		(State or Territory)		(County or S	ubdivision)		(Field)
Well	No.	2	SE 1/4	Section 30	18-Sou	th 38-East	
				and Sec. No.)	(Twp.)	(Range)	(Meridian)
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# DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

We expect to set approximately 204'7'' of 12 1/2'' Casing and cement with 180 sacks. To set 2750' of 9 5/8'' Casing and cement with 630 sacks. To set 3962'' of 7''' Casing and cement with 528 sacks.

Approved	(Date)	Company Humble Oil & Refining Co. By Accura include
Title	GEOLOGICAL SURVEY	Title Division Supit.
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	NOTIGE OF INVENTION TO EXCOLO
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	MCCamey, <sup>1</sup> Czzus, May 12, 1930 192
۰	Following is a report of work done of the second done of the second down and the secon
	<u>IIOW Mexiloo IIOE IIOD bs</u>
	(Carry a Statistic) (Carry
	The well is located <u>350</u> . It. S of <u>II</u> line and <u>350 . It. E</u> of <u>M</u> line of sec. <u>SPH 399050</u>
	The devation of the denick floor above see level is ft.
	. DETAILS OF PLAN OF WORK
	மை வாக்கு உரியில் விரியில் விரியின் குளியை குளிய குளியது முறையில் விரிய குளியில் கில் விரியி கொண்டு மாடு கொடு (மில்ல கோணி காசியி)
<b>BAIRO</b>	
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ù.	Holo meddod fra dottom (106º) to 66º and generited from 66º
a.	
	to dottom of collar with 25 seeks canant. Coller filled up
	and comonfied with 15 sucks coment. One 10° joint of 9 5/3"
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-	10 0 10 - A MANAN AND FRANKING
•	Tine Divery Supervisor Tine Division Sup
Ř	THE LEVIEL OF SUP CONTRACT THE DELVIEL OF SUP '60
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