

THAT THE ABOVE NAMED DEFENDANT
WILL NOT ENTER THE SILENT MOUNTAIN
DIPLOMA, THE COUNTY, NEW MEXICO.

Case Number.

4141

Application

Transcripts.

Small Exhibits

ETC.

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SIMMAS BLDG. • P. O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO



BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
June 25, 1969
EXAMINER HEARING

IN THE MATTER OF:

Application of McCasland Disposal)
System for salt water disposal,)
Lea County, New Mexico.)

Case 4141

BEFORE: ELVIS A. UTZ, Examiner

TRANSCRIPT OF HEARING

RECEIVED
JUN 26 1969
PH 1 42

MR. HATCH: Case 4141, readvertised. Application of McCasland Disposal System for salt water disposal, Lea County, New Mexico.

If the Examiner please, this Case has already been heard, but it was incorrectly advertised. It was advertised, I believe as Section 8, Township 22 South, Range 36 East, and it should be advertised as Section 6. The Case has been heard. The Case was heard on May 21, 1969.

MR. UTZ: Are there any statements regarding Case 4141? That was from Section what to what?

MR. HATCH: It was advertised as Section 8 for the Hearing of May 21, 1969, and it should have been advertised as Section 6.

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) SS

I, SAMUEL MORTELETTE, Court Reporter in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

Samuel B. Mortelette

My Commission Expires: December 6, 1972

I do hereby certify that the foregoing is a true and correct record of the proceedings in the 4141 hearing of case No. 4141 heard by me on June 22, 1969

Samuel B. Mortelette, Examiner
New Mexico Oil Conservation Commission

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO



BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

May 21, 1969

EXAMINER HEARING

IN THE MATTER OF:

Application of McCasland
Disposal System for salt
Water Disposal, Lea
County, New Mexico.

Case 4141

BEFORE: ELVIS A. UTZ, Examiner

TRANSCRIPT OF HEARING

NEW MEXICO OIL CONSERVATION COMMISSION

JUN 12 1969 PM 1 13

MR. UTZ: Case 4141.

MR. HATCH: Application of McCasland Disposal System for salt water disposal, Lea County, New Mexico.

MR. KELLAHIN: I am Jason Kellahin, appearing for the Applicant in this case, and I have one witness I would like to have sworn.

(Witness sworn)

DALLAS MC CASTLER

called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

MR. UTZ: Any other appearances? You may proceed.

MR. KELLAHIN: Would you state your name, please?

THE WITNESS: Dallas McCastler.

Q Mr. McCastler, what business are you engaged in?

A In the trucking business.

Q And in connection with your trucking business,

have you started a disposal system?

A Yes, sir.

Q Are you the Applicant in Case 4141?

A Yes, sir.

Q Is this a corporation, or are you operating as a individual?

A Individual.

Q Mr. McCastler, have you ever testified before the Oil Conservation Commission?

A Some --

Q In New Mexico?

A Several years ago. I don't recall the date.

Q But you have testified here before the Commission?

A Yes, sir.

Q Have you engaged in the oil business in your working career?

A Yes, sir. I have 20 something years experience in oil field work.

Q In oil field work?

A Yes, sir.

Q And where was this?

A In Eunice and Loco Hills, New Mexico.

Q Have you had any experience in salt water disposal operation?

A Well, I have -- presently on one well. That's the extent of my experience.

Q Now, what are you proposing in your Case 4141?

A You mean the completion of it?

Q No; briefly, just what are you proposing? What are you suppose to do?

A Well, the water will be trucked in.

Q Are you proposing to complete the J. H. Day Wells No. 1 and 2 for salt water disposal, is that what it is?

A Yes, sir.

Q And you will truck water to the well for disposal?

A Yes, sir.

Q Where will the water come from?

A Various leases throughout Lea County.

Q Will this be a commercial operation?

A Yes, sir.

Q You will dispose of water for oil operators in the area?

A Yes, sir.

Q Is that the purpose?

A Yes, sir.

Q And what volume of water do you anticipate that you will inject into these two wells?

A Approximately, 30,000 barrels a month.

Q A month?

A Yes.

Q And you have one well in the vicinity, now; is that correct?

A One location, north.

Q Are you presently using that for salt water disposal?

A Yes, sir.

Q Now referring to what has been marked as the Applicant's Exhibit 1; would you identify that exhibit, please?

A These wells formerly belong to Getty Oil Company -- J. H. Day; one and two.

Q Are they located on the 80-acre tract, circled in red?

A Yes, sir.

Q And does that plat show the offsetting ownership to those wells?

A Yes, sir.

Q To the best of your knowledge?

A Yes, sir.

Q I refer you to what has been marked as Exhibit No. 2; would you identify that exhibit?

A This is a plug-in forming bond.

Q You have qualified, then, with the Oil Conservation Commission, in New Mexico for --

A It's in the process of being completed.

Q It is in the process?

A Yes, sir.

Q Has that been filed with the Commission, as yet?

A The agent wants to mail it yesterday.

Q Okay. Referring to what has been marked as Exhibit No. 3; would you identify that exhibit?

A This is application for salt water disposal in the J. H. Day Well No. 1.

Q What interval will you dispose that water in that well?

A 3756; 3851 --- open hole.

Q Now, referring to what has been marked as Exhibit No. 4, would you identify that exhibit?

A This is in the diagram --

MR. UTZ: The diagrammatic sketch is six.

MR. KELLAHIN: C105. Or rather -- this one.

All right. Just identify the Exhibit C105; form filed with the Commission in connection with the Well No. 1; is it not?

THE WITNESS: Yes, sir.

Q Now, Exhibit No. 6; would you identify that exhibit?

A This is the diagrammatic sketch of the J. H. Day No. 1.

Q Does that show that the cement circulated on the surface string --

A Yes, sir.

Q Now, on the intermediate string, does the cement come back into the surface string?

A Yes, sir.

Q And how does it -- the surface string cemented?

A 100 sacks -- top of cement 2,456.

Q Now, will you complete this well for salt water

disposal as shown on this exhibit?

A Yes, sir.

Q You will inject the water under a packer into the tubing?

A Under a ~~tension~~-type packer, through internally coated tubing.

Q And will the ~~tension~~-type tubing-annulus be filled with an inert fluid?

A It will be loaded with treated water.

Q Will you put a pressure gauge at the surface?

A Yes, sir.

Q Referring to Exhibit -- what has been marked as Exhibit No. 7, will you identify that exhibit?

MR. HATCH: I think we got the exhibits mixed up on the number. I think the sketch is Exhibit No. 5.

MR. KELLAHIN: The diagrammatic sketch was Exhibit No. 5, rather than 6. So, the next Exhibit will No. 6. Will you identify that exhibit?

A This is the well drilling record of the formation, from zero to 3851; total depth.

Q And it showed the formation in which you will inject the water from 3,756 to 3,851?

A Yes, sir.

Q What is that formation?

A Seven Rivers.

Q Now, referring to what has been marked as Exhibit No. 7; will you identify that exhibit?

A I believe that's the right one.

A These are electrical logs for the Well No. 1; J. H. Day No. 1 and No. 2. Perforations are marked at the top and bottom.

Q Mr. McCastler, Exhibit No. 7 would be the log on No. 1 wells?

A Yes, sir.

Q Now, what information is marked on that log?

A The base of salt, at 3,293; top of the eight is 3,418; top of Seven Rivers is 3,659.

Q And the Seven Rivers; is that marked on the log?

A Yes, sir.

Q Now, referring to what has been marked as Exhibit No. 8; would you identify that exhibit?

A That's form Cl08 -- Applicant -- 4 J. H. Day Well No. 2.

Q And what would be the injection interval on this well?

A That would be 3,918 to 3,939; Seven Rivers formation.

Q And what volume of water do you anticipate you will inject into this well?

A Approximately 30,000 barrels of water a month.

Q Will the 30,000 barrels a month you are referring to be injected into both wells, or do you anticipate to inject 30,000 into each well?

A Well, we plan to complete Well No. 1 first, and then later on, the other one.

Q As the need arises; is this correct?

A Yes, sir.

Q So you will inject up to 30,000 barrels in one well, is that correct?

A Yes, sir.

Q So, you anticipate approximately, 30,000 barrels in the No. 2 well, also?

A Yes, sir.

Q Will this water also come from leases in the vicinity?

A Various leases; yes, sir.

Q And you don't know necessarily, what formation this water comes from?

A No, sir. There would be no way of knowing.

Q It will just be commercial water?

A Yes, sir.

Q Now, referring to Exhibit No. 8, would you identify that exhibit?

A It's a form C105, filed with the New Mexico Oil Conservation Commission.

Q That's on the Well No. 2?

A Yes, sir. J. H. Day Well No. 2.

Q Referring to what has been marked as Exhibit No. 9: would you identify that exhibit, please, sir?

A It's a diagrammatic sketch of the J. H. Day Well No. 2.

Q What is the cementing program on that well?

A The surface casing, cemented 450 sacks, circulated on the top -- intermediate 600 sacks, circulated to surface, and the -- oil -- 175 sacks; top of the cement 2,490.

Q Now, how will you complete this well for

injection purposes, Mr. McCastler?

A The same as number one, as in this case number one.

Q And that will be with a tension-type packer?

A Yes, sir. Entirely coated tubing, and annulus loaded treated water pressure gauge top.

Q Now, referring to what has been marked as Exhibit No. 9; would you identify that exhibit?

A This is an electrical log of the well --

MR. UTZ: We had better get our exhibit numbers ~~straightened out~~. The last one was No. 10.

MR. KELLAHIN: All right. And the next one is No. 11.

MR. UTZ: Yes, sir.

MR. KELLAHIN: And that is the driller's log.

THE WITNESS: Driller's log; yes, sir.

MR. KELLAHIN: And that, again, reflects that the interval -- you will inject in from 3,918 to 3,939 feet, in the Seven Rivers --

A Yes, sir.

Q Now, referring to what has been marked as Exhibit No. 12; would you identify that exhibit?

A That is the electric log on J. H. Day Well No. 2 -- shows the base of the -- base of the salt and top of the eight formation; 3,543, and top of the Seven Rivers, 3,760.

Q Now, were Exhibits 1 through 12 prepared by you or under your supervision, Mr. McCastler?

A Yes, sir.

MR. KELLAHIN: At this time, I offer in evidence Exhibits 1 through 12, inclusive.

MR. UTZ: Without objection, Exhibits 1 through 12 will be entered into the record in this case.

(Thereupon, Applicant's Exhibits 1 through 12 were admitted in evidence.)

MR. KELLAHIN: Mr. McCastler, is there an urgent need in the vicinity of these wells in the area you propose to serve for salt water disposal?

A Yes, sir. They are.

Q Are there any wells shut-in, to your knowledge, as a result of the lack of the --

A No, sir.

Q Do you anticipate that there will be if this is not approved?

A Well, I doubt if they shut them in, I doubt

if they shut them in -- they would have to have --
they would have to have some sort of disposing of it --

Q Is there an urgent need, though, for an
immediate disposal system?

A Yes, sir; there is.

MR. KELLAHIN: That's all I have on direct
examination.

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. McCastler, on Exhibit No. 11, I don't really
believe that shows your injection area, does it?

A On 11?

Q And on your Exhibit No. 8, the interval would
be 3,945, 3,958; and this goes to 3,848. Not that that
makes any particular difference in the case, but I think
you ought to show that part.

A Is this on the No. 1 well, sir?

Q No; it would be on the No. 2 well.

A Okay.

Q Exhibit No. 11. I think Mr. Kellahin asked
you a question that shows that. Unless you can find
something different there --

A No, sir. You are right.

Q Now, referring to Exhibit No. 10, did you say that the tubing would be internally coated, and treated water in the annulus?

A Yes, sir.

Q Would that be plastic-coated tubing?

A Yes, sir.

Q And is this true on the No. 1 well?

A Yes, sir.

Q These intervals you spoke of here, include the Seven Rivers and the Queen?

A These Seven Rivers and part of the Queen.

Q The upper Queen?

A Yes, sir.

MR. UTZ; Any questions of the witness? You may be excused. Statements? The case will be taken under advisement.

I N D E XWITNESSPAGE

DALLAS MCCAUSTLER

Direct Examination by Mr. Kellahin

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Cross Examination by Mr. Utz

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EXHIBITSMARKEDADMITTED IN
EVIDENCEApplicant's Exhibits
1 through 12

13

STATE OF NEW MEXICO)
) ss.
 COUNTY OF BERNALILLO)

I, CA FENLEY, Court Reporter in and for
 the County of Bernalillo, State of New Mexico, do
 hereby certify that the foregoing and attached
 Transcript of Hearing before the New Mexico Oil
 Conservation Commission was reported by me, and
 that the same is a true and correct record of the
 said proceedings, to the best of my knowledge, skill
 and ability.

Ch. Fenley

I do hereby certify that the foregoing is
 a complete record of the proceedings in
 the Examiner hearing of Case No. 41141
 heard by me on Dec 21, 1969.
[Signature], Examiner
 New Mexico Oil Conservation Commission



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. BOX 2088 - SANTA FE
87501

GOVERNOR
DAVID F. CARGO
CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

July 8, 1969

Mr. Jason Kellahin
Kellahin & Fox
Attorneys at Law
Post Office Box 1769
Santa Fe, New Mexico

Re: Case No. 4141
Order No. R-3781
Applicant:
McCasland Disposal System

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC x

Artesia OCC

Aztec OCC

Other State Engineer Office

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE No. 4141
Order No. R-3781

APPLICATION OF McCASLAND DISPOSAL SYSTEM
FOR SALT WATER DISPOSAL, LEA COUNTY, NEW
MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 25, 1969,
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 7th day of July, 1969, 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, McCasland Disposal System, is the
owner and operator of the Getty Oil Company J. H. Day Wells Nos.
1 and 2, located in Units C and D, respectively, of Section 6,
Township 22 South, Range 36 East, NMPM, Jalmat Pool, Lea County,
New Mexico.

(3) That the applicant proposes to utilize said wells to
dispose of produced salt water into the Seven Rivers formation,
with injection into the intervals as follows:

The open-hole interval from approximately 3756
feet to 3851 feet in the Getty Oil Company J. H.
Day Well No. 1, and

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CASE No. 4141
Order No. R-3781

The perforated interval from approximately 3918 feet to 3939 feet in the Getty Oil Company J. H. Day Well No. 2.

(4) That the injection should be accomplished through:

2 3/8-inch plastic-lined tubing installed in a packer set at approximately 3700 feet in the Getty Oil Company J. H. Day Well No. 1, and

2 3/8-inch plastic-lined tubing installed in a packer set at approximately 3680 feet in the Getty Oil Company J. H. Day Well No. 2;

that the casing-tubing annulus of each of the subject wells should be filled with an inert fluid; and that a pressure gauge should be attached to the annulus of each of the subject wells at the surface in order to determine leakage in the casing, tubing, or packer.

(5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, McCasland Disposal System, is hereby authorized to utilize the following-described wells, located in Units C and D, respectively, of Section 6, Township 22 South, Range 36 East, NMPM, Jalmat Pool, Lea County, New Mexico, to dispose of produced salt water into the Seven Rivers formation:

Getty Oil Company J. H. Day Well No. 1, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 3700 feet, with injection into the open-hole interval from approximately 3756 feet to 3851 feet, and

Getty Oil Company J. H. Day Well No. 2, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 3680 feet, with injection into the perforated interval from approximately 3918 feet to 3939 feet;

PROVIDED HOWEVER, that the tubing of each of the subject wells shall be plastic-lined; that the casing-tubing annulus of

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CASE No. 4141
Order No. R-3781

each of the subject wells shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus of each of the subject wells at the surface in order to determine leakage in the casing, tubing, or packer.

(2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

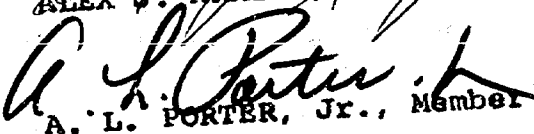
(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

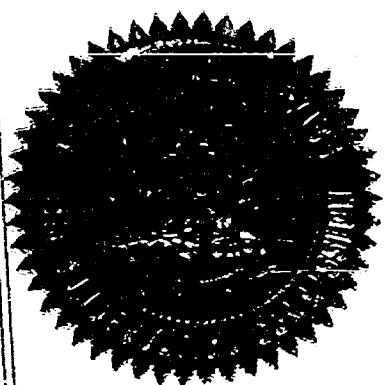
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


DAVID F. CARGO, Chairman


ALEX J. ARMIJO, Member


A. L. PORTER, Jr., Member & Secretary



esr/

DOCKET NO. 29-69

DOCKET: EXAMINER HEARING - WEDNESDAY - OCTOBER 22, 1969

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,
STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or
Elvis A. Utz, Alternate Examiner:

CASE 4213: (Continued from the September 10, 1969, Examiner Hearing)

Application of Texo Oil Company for pool redelineation, creation of a new gas pool, an unorthodox gas well location, and non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the redelineation of the vertical limits of the South Corbin-Queen Pool to permit the creation of a new basal Perrose gas pool for its Buffalo Unit Well No. 11 located at an unorthodox gas well location 2310 feet from the South line and 330 feet from the West line of Section 35, Township 18 South, Range 33 East, Lea County, New Mexico. Applicant further seeks approval of an 80-acre non-standard gas proration unit comprising the N/2 SW/4 of said Section 35, to be dedicated to the above-described well.

CASE 4230: Application of Dalport Oil Corporation for an exception to Order No. R-3221, as amended, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico. Said exception would be for applicant's AMCO Federal Well No. 2 located in the SW/4 NW/4 of Section 31, Township 14 South, Range 30 East, Double L Field, Chaves County, New Mexico. Applicant seeks authority to dispose of salt water produced by said well in an unlined surface pit located in the vicinity of said well.

CASE 4231: Application of Western States Producing Company for salt water disposal, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the perforated interval from 4174 feet to 4388 feet in its State "30" Well No. 3, located in Unit L of Section 30, Township 7 South, Range 33 East, Chaveroo-San Andres Pool, Roosevelt County, New Mexico.

EXAMINER HEARING - OCTOBER 22, 1969

DOCKET NO. 29-69

CASE 4232: Application of Pan American Petroleum Corporation for a pressure maintenance project, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance project on its Baskett "D" Lease by the injection of water into the San Andres formation through its Baskett "D" Well No. 4 located in Unit I of Section 11, Township 8 South, Range 30 East, Cato-San Andres Pool, Chaves County, New Mexico.

CASE 4233: Application of Aztec Oil & Gas Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates-Seven Rivers formations in the open-hole interval from 3929 feet to 3990 feet in its State SR Well No. 1 located in Unit G of Section 16, Township 24 South, Range 36 East, Jalmat Field, Lea County, New Mexico.

CASE 4234: Application of Gulf Oil Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the upper Morrow and lower Morrow formations underlying Section 12, Township 23 South, Range 24 East, Eddy County, New Mexico. Said acreage to be dedicated to a well to be drilled at a standard location 1650 feet from the North and East lines of said Section 12, and within one mile of the Rock Tank-Upper Morrow and Rock Tank-Lower Morrow Gas Pools. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

CASE 4235: Application of Continental Oil Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project on its Jack A-29 lease by the injection of water into the Seven Rivers-Queen formations through its Jack A-29 Wells Nos. 2 and 4 located, respectively, in Units B and C of Section 29, Township 24 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico.

CASE 4236: Application of Continental Oil Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Anderson Ranch Unit Area by the injection of water into the Wolfcamp formation through its Anderson Ranch Unit Wells Nos. 4 and 5, located, respectively, in Units B and J of Section 11, Township 16 South, Range 32 East, Anderson Ranch-Wolfcamp Pool, Lea County, New Mexico.

CASE 4237: Application of Continental Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Monument-Tubb and Weir-Blinsbry Pools in the well-bores of the following four wells located in Township 20 South, Range 37 East, Lea County, New Mexico:

Britt "B" Well No. 18 - Unit N - Section 10
Britt "B" Well No. 19 - Unit B - Section 15
Britt "B" Well No. 20 - Unit L - Section 10
Britt "B" Well No. 21 - Unit J - Section 10

CASE 4238: Application of McCasland Disposal System for the amendment of Order No. R-3781, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3781, to permit the disposal of produced salt water in the Yates formation, in addition to the previously authorized Seven Rivers formation, in its Getty Oil Company J. H. Day Well No. 2 located in Unit D of Section 6, Township 22 South, Range 36 East, Jalmat Pool, Lea County, New Mexico. Overall disposal interval would be from 3543 feet to 3939 feet.

CASE 4239: Application of Amini Oil Corporation for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Upper Pennsylvanian formation underlying the SE/4 of Section 8, Township 14 South, Range 34 East, Lea County, New Mexico. Said acreage to be dedicated to a well to be drilled at a standard location in said quarter section and within one mile of the Cerca-Upper Pennsylvanian Pool. Also to be considered will be the costs of drilling said

*were have been about 20,000
started 1st June 1969 now
take 20000 to pump 4 1st June.*

Case 4239 - Continued from Page 3 -

well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

CASE 4240: Application of Pan American Petroleum Corporation for an exception to Order No. R-3221, as amended, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks exceptions to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico. Said exceptions would be for applicant's Smernoff Federal Well No. 1 located in Unit B of Section 24 and LaRue Federal Well No. 1 located in Unit D of Section 25, both in Township 15 South, Range 29 East, Sulimar-Queen Pool, Chaves County, New Mexico. Applicant seeks authority to dispose of water produced by said wells in two unlined surface pits located in said Units B and D.

CASE 4241: Application of Pennzoil United, Inc., for a non-standard gas proration unit or the creation of a new gas pool, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 320-acre non-standard gas proration unit comprising the E/2 of Section 21, Township 24 South, Range 26 East, White City-Pennsylvanian Gas Pool, Eddy County, New Mexico, said unit to be dedicated to applicant's Allied Federal 21 Well No. 1 located at a standard location in Unit J of said Section 21. In the alternative, applicant seeks the deletion of said Section 21 from the White City-Pennsylvanian Gas Pool and the creation of a new Morrow gas pool for said Allied Federal 21 Well No. 1.

CASE 4242: Application of Pennzoil United, Inc., for a non-standard gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 104 C II, to permit the recompletion of its Mescalero Ridge Well No. 1 at a non-standard location 660 feet from the South and West lines of Section 20, Township 19 South, Range 34 East, and within one mile of the Quail Ridge-Morrow Gas Pool, Lea County, New Mexico.

October 22, 1969 - Examiner Hearing

Docket No. 29-69

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(Continued from the October 8, 1969, Examiner Hearing)

CASE 4223: Application of Resler and Sheldon for two waterflood projects, Lea County, New Mexico. Applicants, in the above-styled cause, seek authority to institute two waterflood projects by the injection of water into the Grayburg, and possibly other formations in the perforated interval from approximately 3555 feet to 3617 feet in their Kelly Well No. 3 and into the Queen, and possibly other formations in the perforated interval from approximately 3439 feet to 3689 feet in their Steeler Well No. 1, said wells being located, respectively, in Unit M of Section 16, and Unit I of Section 20, Township 23 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico. In the alternative, applicants seek authority to dispose of produced salt water in said wells in the intervals as described above.

4141

Heard 5-21-69

Rec. 5-23-69.

Grant McCasland permission to
convert 2 wells to SWD's.
Wells on the Getty - J.H. Day #1
C - b - 22S-36E. + J.H. Day #2
D - b - 22S-36E.

SA shall be injected into
the ~~4th~~ S.R. + upper Duen ~~foot~~
thru ~~tubing~~ slotted coated
tubing under a packer. The
injection interval on the #1
is open hole 3756-3851 +
the #2 open hole 3918-3939
approx 30,000 BS WP
will be injected into each
well.

Thurs 5/27

Docket No. 15-69

DOCKET: EXAMINER HEARING - WEDNESDAY - MAY 21, 1969

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,
STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Elvis A. Utz, Examiner, or Daniel S. Nutter, Alternate Examiner:

CASE 3405: (Reopened) (Continued from the May 7, 1969 Examiner Hearing).

In the matter of Case No. 3405 being reopened pursuant to the provisions of Order No. R-3081, which order established 640-acre spacing for the North Indian Hills-Morrow Gas Pool, Eddy County, New Mexico, for a period of one year after first pipeline connection in the pool. All interested parties may appear and show cause why said pool should or should not be developed on 320-acre spacing units.

CASE 4131: Application of Gulf Oil Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Jalmat and South Eunice oil pools, Lea County, New Mexico, in the wellbores of six wells located as follows:

TOWNSHIP 21 SOUTH, RANGE 36 EAST

Arnott Ramsay (NCT-D) Well No. 6 - Unit K - Section 33
Arnott Ramsay (NCT-D) Well No. 7 - Unit M - Section 33
Arnott Ramsay (NCT-D) Well No. 8 - Unit N - Section 33
Arnott Ramsay (NCT-D) Well No. 9 - Unit L - Section 33
J. F. Janda (NCT-B) Well No. 4 - Unit O - Section 32

TOWNSHIP 22 SOUTH, RANGE 36 EAST

J. F. Janda (NCT-F) Well No. 8 - Unit C - Section 4

CASE 4132: Application of Pan American Petroleum Corporation for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, after January 1, 1969. Said exception would be for three wells located in Unit D, E, and P of Section 27, Township 18 South, Range 31 East, Shugart Field, Eddy County, New Mexico. Applicant seeks authority to continue to dispose of salt water produced in two unlined surface pits located in the E/2 of said Section 27.

- CASE 4133: Application of Skelly Oil Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the West Dollarhide Drinkard Unit Area comprising 3,533.52 acres, more or less, of Fee, Federal, and State lands in Townships 24 and 25 South, Range 38 East, Lea County, New Mexico.
- CASE 4134: Application of Skelly Oil Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its West Dollarhide Drinkard Unit Area by the injection of water into the Tubb-Drinkard formation through 43 wells located in Townships 24 and 25 South, Range 38 East, Dollarhide Tubb-Drinkard Pool, Lea County, New Mexico. Applicant further seeks a procedure whereby said project may be expanded administratively without a showing of well response.
- CASE 4135: Application of Roy E. Kimsey, Jr. for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil or gas or both, on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, after January 1, 1969. Said exception would be for the P. R. Bass-Federal Well No. 1 located in Unit F of Section 3, Township 16 South, Range 30 East, West Henshaw Pool, Eddy County, New Mexico. Applicant seeks authority to continue to dispose of produced salt water in an unlined surface pit located near said well.
- CASE 4136: Application of Mallard Petroleum, Inc. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates formation in the interval from 3606 feet to 3627 feet in its Milner Federal Well No. 4 located in Unit C of Section 35, Township 20 South, Range 34 East, Lynch Pool, Lea County, New Mexico.
- CASE 4137: Application of Atlantic Richfield Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the East Shugart Unit Area comprising 1359.40 acres, more or less, of Federal and State lands in Townships 18 and 19 South, Range 31 East, Eddy County, New Mexico.

- CASE 4138: Application of Atlantic Richfield Company for a waterflood project and unorthodox injection well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Yates-Seven Rivers-Queen formations through 11 wells in Townships 18 and 19 South, Range 31 East, Shugart Pool, Eddy County, New Mexico. Applicant further seeks an exception to permit the drilling of one of said wells at an unorthodox location 100 feet from the South line and 990 feet from the West line of Section 35, Township 18 South, Range 31 East.
- CASE 4139: Application of Allied Chemical Corporation for a unit agreement, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Milnesand (San Andres) Unit Area comprising 5370.18 acres, more or less, of Federal and Fee lands in Township 8 South, Ranges 34 and 35 East, Roosevelt County, New Mexico.
- CASE 4140: Application of Allied Chemical Corporation for a waterflood project, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Milnesand (San Andres) Unit Area by the injection of water into the San Andres formation through 33 wells located in Township 8 South, Ranges 34 and 35 East, Milnesand-San Andres Pool, Roosevelt County, New Mexico. Applicant further seeks a procedure whereby said project may be expanded administratively without a showing of well response.
- CASE 4141: Application of McCasland Disposal System for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Seven Rivers formation in the intervals from approximately 3756 feet to 3851 feet and from approximately 3918 feet to 3939 feet, respectively, in the Getty Oil Company J. H. Day Wells Nos. 1 and 2, both located in the NW/4 of Section 8, Township 22 South, Range 36 East, Jalmat Pool, Lea County, New Mexico.
- CASE 4142: Application of Tamarack Petroleum Corporation, Inc., for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water by injection into the Queen formation in the interval from 4946 feet to 5040 feet in its Cabot 15 State Well No. 2 located in Unit P of Section 15, Township 19 South, Range 35 East, Pearl-Queen Pool, Lea County, New Mexico.

Examiner Hearing - May 21, 1969

-4-

Docket No. 15-69

CASE 4143: Application of Amerada Petroleum Corporation for downhole commingling and special gas-oil ratio limitation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Eumont Gas Pool and the Skaggs-Grayburg Pool in the wellbore of its Fred Turner, Jr., "A" Well No. 2, the Eumont completion of which is presently classified as a gas completion, located in Unit K of Section 18, Township 20 South, Range 38 East, Lea County, New Mexico. Applicant, further seeks the establishment of a special gas-oil ratio limitation for the subject well.

(Continued from the May 7, 1969 Examiner Hearing)

CASE 4121: Application of Roger C. Hanks for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Bar U-Pennsylvanian Pool, Lea County, New Mexico, including a provision for 160-acre spacing and proration units and the assignment of 80-acre allowables.

STATE OF NEW MEXICO
\$10,000.00 BLANKET PLUGGING AND INDEMNITY BOND

(For Use of Surety Company)
BEFORE EXAMINER UTZ

THE CONSERVATION COMMISSION

Q2/KC-10 EXHIBIT NO. 2

CASE NO. 4141

The conditions of this obligation are such that:

WHEREAS, Said leases were entered into by the said principal, subject to the requirements of the provisions of Section 7-11-20, New Mexico Statutes Annotated, 1953 Compilation, as amended; and

WHEREAS, The above principal, individually, or in association with one or more other parties, has commenced or may commence the drilling of wells to prospect for and produce oil or gas, or carbon dioxide (CO₂) gas or helium gas, or does own or may acquire, own or operate such wells, or such wells started by others on land embraced in said State oil and gas leases, or carbon dioxide (CO₂) gas leases, or helium gas leases, and on lands patented by the United States of America to private individuals, and on lands otherwise owned by private individuals, the identification and location of said wells being expressly waived by both principal and surety hereto.

AND FURTHER, If the above bounden principal and surety or either of them or their successors or assigns, or any of them, upon demand shall make good and sufficient recompense, satisfaction or payment unto the holders of State purchase contracts or holders of patents for State lands, with minerals reserved to the State, their heirs, executors, administrators, successors and assigns, for all damages to the livestock, range, water, crops, or tangible improvements on such lands as may be suffered by such purchasers or their successors in interest, by reason of such development, use or occupancy of such lands by such lessee or principal, or for such damages as a court of competent jurisdiction may determine and fix in any action brought on this bond;

PROVIDED, HOWEVER, That thirty (30) days after receipt by the Oil Conservation Commission of New Mexico of written notice of cancellation from the surety, the obligation of the surety hereunder shall terminate as to property or wells acquired, drilled, or started after said thirty (30) day period but shall continue in effect, notwithstanding said notice, as to property or wells theretofore acquired, drilled, or started.

Signed and sealed this 16th day of May, 1969.

Dallas McCasland d/b/a McCasland Disposal System. HARTFORD ACCIDENT & INDEMNITY COMPANY
PRINCIPAL SURETY

By [Signature]
Signature Dallas McCasland Title

By [Signature]
Mike Tinley Attorney-in-Fact

(Note: Principal, if corporation, affix corporate seal here.)

(Note: Corporate surety affix corporate seal here.)

(Note: If corporate surety executes this bond by an attorney-in-fact not in New Mexico, the resident New Mexico agent shall countersign here below.)

Countersigned by:
DANIELS INSURANCE, INC.

[Signature]
New Mexico Resident Agent

Box 1258, Hobbs, New Mexico 88240
Address

***** Acknowledgment Form for Natural Persons *****

STATE OF New Mexico)
COUNTY OF Lea) ss.

On this 16th day of May, 19 69, before me personally appeared Dallas McCasland, to me known to be the person (persons) described in and who executed the foregoing instrument and acknowledged that he (they) executed the same as his (their) free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

My Commission expires 9-27-70

[Signature]
Notary Public

***** Acknowledgment Form for Corporation *****

STATE OF New Mexico)
COUNTY OF Lea) ss.

On this _____ day of _____, 19_____, before me personally appeared _____, to me personally known, who, being by me duly sworn, did say that he is _____ of _____ and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

My Commission expires _____

Notary Public

***** Acknowledgment Form for Corporate Surety *****

STATE OF New Mexico)
COUNTY OF Lea) ss.

On this 16th day of May, 19 69, before me appeared Mike Tinley to me personally known, who, being by me duly sworn, did say that he is Attorney-in-Fact, of Hartford Accident & Indemnity Co and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

My Commission expires 9-27-70

[Signature]
Notary Public

(Note: Corporate surety attach power of attorney.)

APPROVED BY:

APPROVED BY:
OIL CONSERVATION COMMISSION OF NEW MEXICO

Commissioner of Public Lands

By _____

Hartford Accident and Indemnity Company
HARTFORD, CONNECTICUT

POWER OF ATTORNEY

Know all men by these Presents, That the HARTFORD ACCIDENT AND INDEMNITY COMPANY, a corporation duly organized under the laws of the State of Connecticut, and having its principal office in the City of Hartford, County of Hartford, State of Connecticut, does hereby make, constitute and appoint

MIKE TINLEY, of HOBBS, NEW MEXICO,

its true and lawful Attorney(s)-in-fact, with full power and authority to each of said Attorney(s)-in-fact, in their separate capacity if more than one is named above, to sign, execute and acknowledge any and all bonds and undertakings and other writings obligatory in the nature thereof on behalf of the company in its business of guaranteeing the fidelity of persons holding places of public or private trust; guaranteeing the performance of contracts other than insurance policies; guaranteeing the performance of insurance contracts where surety bonds are accepted by states and municipalities, and executing or guaranteeing bonds and undertakings required or permitted in all actions or proceedings or by law allowed.

in penalties not exceeding the sum of ONE HUNDRED THOUSAND DOLLARS (\$100,000.00) each, _____

and to bind the HARTFORD ACCIDENT AND INDEMNITY COMPANY thereby as fully and to the same extent as if such bonds and undertakings and other writings obligatory in the nature thereof were signed by an Executive Officer of the HARTFORD ACCIDENT AND INDEMNITY COMPANY and sealed and attested by one other of such officers, and hereby ratifies and confirms all that its said Attorney(s)-in-fact may do in pursuance hereof.

This power of attorney is granted under and by authority of the following By-Law adopted by the Stockholders of the HARTFORD ACCIDENT AND INDEMNITY COMPANY at a meeting duly called and held on the 10th day of February, 1943.

ARTICLE IV

SECTION 8. The President or any Vice-President, acting with any Secretary or Assistant Secretary, shall have power and authority to appoint, for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, one or more Resident Vice-Presidents, Resident Assistant Secretaries and Attorneys-in-fact and at any time to remove any such Resident Vice-President, Resident Assistant Secretary, or Attorney-in-fact, and revoke the power and authority given to him.

SECTION 11. Attorneys-in-fact shall have power and authority, subject to the terms and limitations of the power of attorney issued to them, to execute and deliver on behalf of the Company and to attach the seal of the Company thereto any and all bonds and undertakings, and other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-fact shall be as binding upon the Company as if signed by an Executive Officer and sealed and attested by one other of such Officers.

This power of attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Directors of the HARTFORD ACCIDENT AND INDEMNITY COMPANY at a meeting duly called and held on the 13th day of March, 1956.

RESOLVED, that, whereas the President or any Vice-President, acting with any Secretary or Assistant Secretary, has the power and authority to appoint by a power of attorney, for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, one or more Resident Vice-Presidents, Assistant Secretaries and Attorneys-in-fact;

Now therefore the signatures of such officers and the seal of the Company may be affixed to any such power of attorney or to any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached.

In Witness Whereof, the HARTFORD ACCIDENT AND INDEMNITY COMPANY has caused these presents to be signed by its Vice-President, and its corporate seal to be hereto affixed, duly attested by its Secretary, this 3rd day of March, 1966.

Attest:

HARTFORD ACCIDENT AND INDEMNITY COMPANY

Robert H. Brown
Secretary



C. M. O'Dowd
Vice-President

STATE OF CONNECTICUT, }
COUNTY OF HARTFORD, } ss.

On this 3rd day of March, A. D. 1966, before me personally came C. M. O'Dowd, to me known, who being by me duly sworn, did depose and say: that he resides in the County of Hartford, State of Connecticut; that he is the Vice-President of the HARTFORD ACCIDENT AND INDEMNITY COMPANY, the corporation described in and which executed the above instrument; that he knows the seal of the said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation and that he signed his name thereto by like order.

STATE OF CONNECTICUT, }
COUNTY OF HARTFORD, } ss.



CERTIFICATE

Robert H. Brown
Notary Public
My commission expires March 31, 1967

I, the undersigned, Assistant Secretary of the HARTFORD ACCIDENT AND INDEMNITY COMPANY, a Connecticut Corporation, DO HEREBY CERTIFY that the foregoing and attached POWER OF ATTORNEY remains in full force and has not been revoked; and furthermore, that Article IV, Sections 8 and 11, of the By-Laws of the Company, and the Resolution of the Board of Directors, set forth in the Power of Attorney, is now in force.

Signed and sealed at the City of Hartford. Dated the 16th day of May 19 69



J. C. Quinn
Assistant Secretary

NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR McCasland Disposal System		ADDRESS Box 206, Eunice, New Mexico	
LEASE NAME J. H. Day	WELL NO. 1	FIELD Eunice 7 Rvrs - Queen South	COUNTY Lea
LOCATION UNIT LETTER C ; WELL IS LOCATED 660 FEET FROM THE North LINE AND 1980 FEET FROM THE West LINE, SECTION 6 TOWNSHIP 22S RANGE 36E NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	10-3/4"	258'	200	circulated	
INTERMEDIATE	7-3/8"	3259'	700	200'	calculated
LONG STRING	5-1/2"	3756'	100	2456'	calculated
TUBING	2-3/8"	3700'	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Model AD 1 Tension Packer		
NAME OF PROPOSED INJECTION FORMATION Seven Rivers - Queen			TOP OF FORMATION 3813'		BOTTOM OF FORMATION 3851'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES? Open hole		PROPOSED INTERVAL(S) OF INJECTION 3753' - 3851'	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH Not applicable					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 225'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3715		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA Grayburg - est. 4000'	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 500	MINIMUM 1500	MAXIMUM closed	OPEN OR CLOSED TYPE SYSTEM Gravity	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity	APPROX. PRESSURE (PSI) 0
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE Yes		WATER TO BE DISPOSED OF Yes		NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? No
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) W. T. Tivie, Box 72, Oil Center, New Mexico					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL					
Continental Oil Company		P. O. Box 460, Hobbs, New Mexico 88240			
Cities Service Oil Company		P. O. Box 69, Hobbs, New Mexico 88240			
Gulf Oil Company - U.S.		P. O. Box 670, Hobbs, New Mexico 88240			
Tenneco Oil Company		18th Floor-Wilco Building, Midland, Texas 79701			
L. F. Peterson		Petroleum Building, Fort Worth, Texas 76102			
Ralph L. Clarke		P. O. Box 2310, Hobbs, New Mexico 88240			
Barnett & Rector		P. O. Box 670, Roswell, New Mexico 88201			
Late Oil Company		P. O. Drawer 71, San Angelo, Texas 76901			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER Yes		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAY OF AREA Yes		ELECTRICAL LOG Yes	DIAGRAMMATIC SKETCH OF WELL Yes

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

BEFORE EXAMINER UTZ

5-1-69

OIL CONSERVATION COMMISSION

(Title)

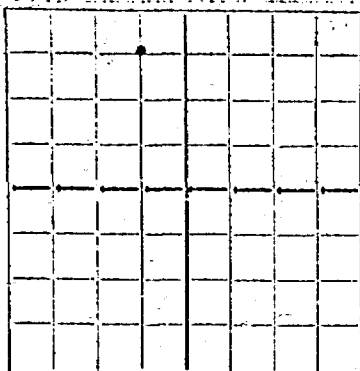
(Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15 day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

EXHIBIT NO. 3
CASE NO. 11141

N.

NEW MEXICO OIL CONSERVATION COMMISSION

AREA 640 ACRES
LOCATE WELL CORRECTLY

Santa Fe, New Mexico

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

WELL RECORD EXHIBIT NO. 4

CASE NO. 4141

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPPLICATE.

Tide Water Associated Oil Company. Box 731-Tulsa, Okla.

J.M. Day

Company or Operator

Well No. 1

In

NW 1/4

of Sec.

6

T.

22

R. 36, N. M. P. M. South Eunice Field, Lea County.

Well is 660 feet south of the North line and 1980 feet west of the East line of Section 6-22-36

If State land the oil and gas lease is No. Assignment No. 50164

If patented land the owner is James H. Day Address ?

If Government land the permittee is Address

The Lessee is Tide Water Associated Oil Company Address Box 731-Tulsa, Okla

Drilling commenced 6/2/37 19 Drilling was completed 6/24/37 19

Name of drilling contractor H.W. Bass Drilling Company Address Dallas, Texas

Elevation above sea level at top of casing 3575 feet 3586 feet - DF

The information given is to be kept confidential until 19

OIL SANDS OR ZONES

No. 1, from 3795 to 3851 No. 4, from to

No. 2, from to No. 5, from to

No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from 100 to 225 feet

No. 2, from 100 to feet

No. 3, from to feet

No. 4, from to feet

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM TO	PURPOSE
10-3/4" OD	40	10	LWS	246' 1"	TP			Surface String
7-5/8" OD	26.40	8	SS	3259' 2"	Larkin			Salt String
5-1/2" OD	17	10	SS	3758' 5"	Larkin			Oil String
2-3/8" OD	4.7	10	SS	3851'	Tubing set on bottom w/packer set at 3780' w/perforation below.			

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
15"	10-3/4"	258'	200	Halliburton	11 1/2	Hole Full
9-3/4"	7-5/8"	3259'	700	"	11 1/2	Hole Full
6-3/4"	5-1/2" OD	3756'	100	"	11 1/2	Hole Full

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth Set

Adapters—Material Size

RECORD OF DISINTEGRATING CHEMICAL TREATMENT

SIZE	SUBJECT HOLE	CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
------	--------------	---------------	----------	------	-----------------------	-------------------

				FROM	TO	
10-3/4" OD 40	10	LWD	240' 1"	XP		Surface String
7-5/8" OD 26.40	8	SS	3259' 2"	Larkin		Salt String
5 1/2" OD 17	10	SS	3758' 5"	Larkin		Oil String
2-3/8" OD 4.7	10	SS	3851'	Tubing set on bottom w/packer set at 3780' w/perforation below.		

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
15"	10-3/4"	250'	200	Halliburton	11.7	Hole Full
9-3/4"	7-5/8"	3259'	700	"	11.7	Hole Full
6-3/4"	5 1/2" OD	3756'	100	"	11.7	Hole Full

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
 Adapters—Material _____ Size _____

RECORD OF CHEMICAL TREATMENT

SIZE	BRAND USED	CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
		Dowell X	1000-Gals	6/28/37		

Results of shooting or chemical treatment: When well was completed it flowed 11-bbls per hour with estimated 2,500,000 cu ft gas. Set Packer at 3780' with perforation below and well swabbed about 10-bbls per hour with very little gas, treated w/1000-Gals. Dowell X Acid and it flowed 22-bbls per hour with estimated 750,000 gas.

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from 0 feet to 3851 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing July 1, 1937, 19_____
 The production of the first 24 hours was 528 barrels of fluid of which .98 % was oil; .02 % emulsion; _____ % water; and _____ % sediment. Gravity, Bo 33.0
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

S.E. Taylor _____ Driller Eddie Corruith _____ Driller
 H.O. Griffin _____ Driller _____ Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this 3 _____

day of July 1937

Alicia Mahoney
 Notary Public

My Commission expires October 24, 1937

Hobbs, New Mexico July 1, 1937

Name *P. Schmidt*

Position Prod. Supt.

Representing *Elido Water Associated Oil Co.*
 Company or Operator

Address *Drawer KK Hobbs, New Mexico.*

DUPLICATE

RECEIVED
 JUL 3 1937

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

EXHIBIT NO. *4-A*

CASE NO. _____

FROM	TO	THICKNESS IN FEET	FORMATION
0	40	40	Caliche
40	100	60	Sand
100	225	125	Sand & Shells
225	264	39	Red Bed & Red Rock
264	305	41	Red Bed & Shells
305	350	45	Hard Lime
350	400	50	Shale & Shells
400	495	95	Red Rock & Shells
495	700	205	Red Bed & Red Rock
700	945	245	Red Bed
945	1102	157	Lime Shells & Red Rock
1102	1621	519	Red Rock & Shells
1621	1720	99	Red Rock & Lime Shells
1720	1750	30	Anhydrite
1750	1830	80	Salt
1830	1845	15	Anhydrite & Red Rock
1845	1945	100	Salt & Anhydrite
1945	2125	180	Anhydrite & Red Bed
2125	2269	144	Salt & Anhydrite
2269	2364	95	Anhydrite & Red Rock
2364	2537	173	Salt & Streaks Of Potash
2537	2818	281	Salt & Potash
2818	2853	35	Anhydrite
2853	2880	27	Salt
2880	2893	13	Anhydrite
2893	2928	35	Salt
2928	2945	17	Anhydrite
2945	3005	60	Salt
3005	3012	7	Anhydrite
3012	3035	23	Salt
3035	3050	15	Anhydrite
3050	3194	144	Salt
3194	3228	34	Salt & Anhydrite
3228	3260	32	Anhydrite
3260	3278	18	Lime & Anhydrite
3278	3715	437	Lime (Hard Gray)
3715	3728	13	Broken Lime
3728	3735	7	Lime (Brown)
3735	3741	6	Broken Lime
3741	3813	72	Lime (Brown)
3813	3818	5	Sand
3818	3823	5	Sandy Lime
3823	3828	5	Lime (Brown)
3828	3833	5	Sand
3833	3843	10	Lime
3843	3851	8	Lime. Total Depth

McCasland Disposal System
Diagrammatic Sketch of
Salt Water Disposal Well

J. H. Day No. 1 SWD

NE/4-NW/4 Sec. 6 - T22S-R36E

Loa County, New Mexico

258' - 10-3/4" O.D. Casing
200 sack cement - circulated

3259' - 7-5/8" O.D. Casing
700 sacks cement - top of cement
into surface casing.

2-3/8" x 5-1/2" Tension Packer
set on 3700' 2-3/8" O.D. Tubing

3756' - 5-1/2" O.D. Casing
100 sacks cement - top cement @ 2456'

Salt water disposal Interval
Zone 3756' - 3851'
Seven Rivers - Formations

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

EXHIBIT NO. 5

CASE NO. 4141

RECORD OF FORMATIONS

J. H. Day #1

From	To	Thickness in Feet	Formation
0	40	40	Caliche
40	100	60	Sand
100	225	125	Sand & Shells
225	264	39	Red Bed & Red Rock
264	305	41	Red Bed & Shells
305	350	45	Hard Lime
350	400	50	Shale & Shells
400	495	95	Red Rock & Shells
495	700	205	Red Bed & Red Rock
700	945	245	Red Bed
945	1102	157	Lime Shells & Red Rock
1102	1621	519	Red Rock & Shells
1621	1720	99	Red Rock & Lime Shells
1720	1750	30	Anhydrite
1750	1830	80	Salt
1830	1845	15	Anhydrite & Red Rock
1845	1945	100	Salt & Anhydrite
1945	2125	180	Anhydrite & Red Bed
2125	2269	144	Salt & Anhydrite
2269	2364	95	Anhydrite & Red Rock
2364	2537	173	Salt & Streaks of Potash
2537	2818	281	Salt & Potash
2818	2853	35	Anhydrite
2853	2880	27	Salt
2880	2893	13	Anhydrite
2893	2928	36	Salt
2928	2945	17	Anhydrite
2945	3005	60	Salt
3005	3012	7	Anhydrite
3012	3035	23	Salt
3035	3050	15	Anhydrite
3050	3194	144	Salt
3194	3228	34	Salt & Anhydrite
3228	3260	32	Anhydrite
3260	3278	18	Lime & Anhydrite
3278	3715	437	Lime (Hard Gray)
3715	3728	13	Broken Lime
3728	3735	7	Lime (Brown)
3735	3741	6	Broken Lime
3741	3813	72	Lime (Brown)
3813	3818	5	Sand
3818	3823	5	Sandy Lime
3823	3828	5	Lime (Brown)
3828	3833	5	Sand
3833	3843	10	Lime
3843	3851	8	Lime. Total Depth

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 6
CASE NO. 4141

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR McCasland Disposal System		ADDRESS P. O. Box 206, Eunice, New Mexico	
LEASE NAME J. H. Day		COUNTY Lea	
WELL NO. 2		FIELD Eunice - 7 Rvrs Queen South	
LOCATION West		FEET FROM THE North LINE AND 990 FEET FROM THE	
UNIT LETTER D	WELL IS LOCATED 660	NMPM.	
LINE, SECTION 6	TOWNSHIP 22S	RANGE 36E	

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13"	280'	450	circulated	
INTERMEDIATE	9-5/8"	1703'	600	200'	calculated
LONG STRING	7"	3765'	175	2490'	calculated
	5"	3959	50	3708'	
TUBING	2-3/8"	3680'			

NAME, MODEL AND DEPTH OF TUBING PACKER
Baker Model AD 1 **Tension Packer**

NAME OF PROPOSED INJECTION FORMATION
Seven Rivers - Queen

IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?
Open hole

PERFORATIONS OR OPEN HOLES
3792'

PROPOSED INTERVAL(S) OF INJECTION
3945' - 3958'

HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE?
Yes

IS THIS A NEW WELL DRILLED FOR DISPOSAL?
No

IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED?
Oil production

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH
4JSPF 3918'-39' & 3945'-58'; squeezed 3945'-58' with 75 sacks cement

DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA
Grayburg - est. 4000'

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA
225'

DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA
3715'

ANTICIPATED DAILY INJECTION VOLUME (BBLs.)
500

MINIMUM
1500

MAXIMUM

OPEN OR CLOSED TYPE SYSTEM
close

IS INJECTION TO BE BY GRAVITY OR PRESSURE?
Gravity

NATURAL WATER IN DISPOSAL ZONE
Yes

ARE WATER ANALYSES ATTACHED?
No

ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE -
Yes

NAME AND ADDRESS OF SURFACE OWNER OR LESSEE, IF STATE OR FEDERAL LAND
W. T. Tivis, Box 72, Oil Center, New Mexico

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL

Continental Oil Company	P. O. Box 460, Hobbs, New Mexico 88240
Cities Service Oil Company	P. O. Box 69, Hobbs, New Mexico 88240
Gulf Oil Company - U.S.	P. O. Box 670, Hobbs, New Mexico 88240
Tenneco Oil Company	18th Floor-Wilco Building, Mckinland, Texas 79701
L. F. Peterson	Petroleum Building, Fort Worth, Texas 76102
Ralph L. Clarke	P. O. Box 2310, Hobbs, New Mexico 88240
Barnett & Rector	P. O. Box 670, Roswell, New Mexico 88201
Late Oil Company	P. O. Drawer 71, San Angelo, Texas 76901

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?
Yes

ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?
Yes

SURFACE OWNER
Yes

PLAT OF AREA
Yes

EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL
Yes

ELECTRICAL LOG
Yes

DIAGRAMMATIC SKETCH OF WELL
Yes

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Owner
5-1-69 (Date)

BEFORE EXAMINER UTZ

NOTICE: Should any person or company within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If the application is not received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

CASE NO. 4141

N.

NEW MEXICO OIL CONSERVATION COMMISSION

AREA 610 ACRES
LOCATE WELL CORRECTLY

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
applicants EXHIBIT WELL RECORD
CASE NO. 4141

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE.

DUPLICATE
RECEIVED
MAR 14 1938
HOUSTON OFFICE

Tide Water Associated Oil Company. Box 731-Tulsa, Okla

J.H. Day Company or Operator 2 in NW 1/4 of Sec. 6 T. 22
Well No. 36 in South Eunice Lea
R. 660 N. M. P. M. 990 Field. E W
Well is 660 feet south of the North line and 990 feet west of the East line of Section 6-22-36
If State land the oil and gas lease is No. Assignment No. 50164
If patented land the owner is James H. Day Address ?
If Government land the permittee is Tide Water Associated Oil Company Address Box 731-Tulsa, Okla.
The Lessee is Tide Water Associated Oil Company Address Box 731-Tulsa, Okla.
Drilling commenced 1/30/38 Drilling was completed 3/5/38
Name of drilling contractor H. W. Bass Drilling Co. Dallas, Texas
Elevation above sea level at top of casing 3573 feet. 3584' - DP
The information given is to be kept confidential until 19__

OIL SANDS OR ZONES

No. 1, from 3801 to 3848 No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.
No. 1, from 85 to 130 feet.
No. 2, from to feet.
No. 3, from to feet.
No. 4, from to feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM TO	PURPOSE
13" OD	50	8	LW	261	TP			Surface String
9-5/8" OD	36	8	LW	1701	Larkin			Salt String
7" OD	24	10	SS	3786'	"			Oil String
2-3/8" OD	4.7	10	SS	Tabing	set on bottom	W/Robinson HP Gas		
				Packer	set at 3781'	W/perforation below.		

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
17"	13" OD	280	450	Halliburton	11 1/2	Hole Full
12"	9-5/8"	1703	600	"	"	" "
8-3/4"	7" OD	3765	175	"	"	" "

PLUGS AND ADAPTERS

Heavy plug--Material Length Depth Set

7-00	24	10	99	3786'	"			DATE OF LOGGING
2-3/2"OD	4.7	10	99	Tabing	set on bottom W/Robinson HP Gas			Oil string
				Packer	set at 3781' W/perforation below.			

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WIRELINE SBT	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
17"	13"OD	280	450	Halliburton	11.4	Hole Full
12"	9-5/8	1703	600	"	"	" "
8-3/4"	7"OD	3765	175	"	"	" "

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
 Adapters—Material _____ Size _____

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
		Dowell X Acid	2000-gals	3/7/38		
		Dowell X Acid	1000-gals	3/10/38		

Results of shooting or chemical treatment Before treatment well made 1-bbl per hour W/est.
 300,000 cu ft gas. After first treatment made 7 1/2-bbls per hour W/est. 6,000,000
 cu ft gas. Set packer at 3781' and swabbed 5-bbls per hour. Treated W/1000
 gals. acid & flowed 2 1/2-bbls pipe line oil per hour W/1 1/2-million cu. ft. gas.

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from 0 feet to 3843 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing March 12, 1938, 19____
 The production of the first 24 hours was 587 barrels of fluid of which 99.8% was oil; .02%
 emulsion; _____% water; and _____% sediment. Gravity, Ba 32.9
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

M.E. Self, Driller O.B. Perryman, Driller
 W.D. Whitzel, Driller _____, Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this 12
 day of March, 1938

Notary Public

My Commission expires November 22, 1941

Hobbs, New Mexico 3/12/38

Place

Name Elmer Paul P. P.

Position Prod. Sup't

Representing Tide Water Associated Oil Company

Address Drawer KK, Hobbs, New M

FORMATION RECORD.

FROM	TO	THICKNESS IN FEET	FORMATION
0	85	85	Caliche
85	130	45	Sand
130	250	120	Red Bed & Shells
250	282	32	Red Bed & Red Rock
282	289	7	Red Bed & Red Rock
289	320	31	Red Bed & Gravel
320	352	32	Blue Shale
352	360	8	Lime
360	365	5	Shale
365	590	225	Red Bed & Red Rock
590	630	40	Red Bed & Shells
630	725	95	Red Bed
725	815	90	Red Bed & Red Rock
815	870	55	Red Rock
870	915	45	Red Bed & Blue Shale
915	950	35	Red Bed
950	969	19	Shale & Shells
969	1018	49	Red Bed & Red Rock
1018	1085	67	Red Rock & Shale
1085	1140	55	Red Bed & Red Rock
1140	1180	40	Red Rock & Blue Shale
1180	1202	22	Red Rock
1202	1227	25	Red Bed & Red Rock
1227	1261	34	Red Bed
1261	1365	104	Red Bed & Red Rock
1365	1408	43	Red Bed
1408	1460	52	Red Rock
1460	1494	34	Red Bed & Shells
1494	1630	136	Red Rock
1630	1712	82	Anhydrite
1712	1722	10	Anhydrite
1722	1740	18	Anhydrite & Salt
1740	1998	258	Salt
1998	2160	162	Salt, Anhydrite & Potash
2160	2260	100	Salt & Anhydrite
2260	2535	275	Salt
2535	2600	65	Anhydrite
2600	2630	30	Salt
2630	2645	15	Anhydrite
2645	2830	185	Salt
2830	3105	275	Salt & Anhydrite
3105	3124	19	Anhydrite
3124	3268	144	Salt
3268	3302	34	Salt & Anhydrite
3302	3410	108	Anhydrite
3410	3526	116	Lime & Anhydrite
3526	3659	133	Lime (Gray)
3659	3663	4	Sandy Lime (Gas)
3663	3740	77	Lime (Gray)
3740	3757	17	Sandy Lime (Gas)
3757	3784	27	Lime (Gray & Brown)
3784	3792	8	Lime Hard
3792	3801	9	Lime (Some Saturation)
3801	3821	20	Lime brown (Oil)
3821	3835	14	Sandy Lime
3835	3848	13	Lime Hard (Oil) TD

McCasland Disposal System
Diagrammatic Sketch of
Salt Water Disposal Well

J. H. Day No. 2 SWD

NW/4-NW/4 Sec. 6-T22S-R36E

Lea County, New Mexico

280' - 13" O.D. Casing
450 sacks cement - circulated

See Planter

1703' - 9-5/8" O.D. Casing
600 sacks cement - top cement into
surface casing

BEFORE EXAMINER (LITZ)

OIL CONSERVATION COMM.

apparently EXHIBIT NO. 10

CASE NO. 4141

2-3/8" x 7" Tension Packer
set on 3680' 2-3/8" O.D. tubing

3765' - 7" O.D. casing
175 sacks cement - top cement @ 2490'

251' - 5" O.D. liner set on packer
@ 3708', cemented with 50 sacks

Salt water disposal interval
Zone 3918' - 3939', 7-Rvrs formation

3765
3708
251
3959

Total Depth 3959'

RECORD OF FORMATIONS

J. H. Day #2			
From	To	Thickness in Feet	Formation
0	85	85	Caliche
85	130	45	Sand
130	250	120	Red Bed & Shells
250	282	32	Red Bed & Red Rock
282	289	7	Red Bed & Red Rock
289	320	31	Red Bed & Gravel
320	352	32	Blue Shale
352	360	8	Lime
360	365	5	Shale
365	590	225	Red Bed & Red Rock
590	630	40	Red Bed & Shells
630	725	95	Red Bed
725	815	90	Red Bed & Red Rock
815	870	55	Red Rock
870	915	45	Red Bed & Blue Shale
915	950	35	Red Bed
950	969	19	Shale & Shells
969	1018	49	Red Bed & Red Rock
1018	1085	67	Red Rock & Shale
1085	1140	55	Red Bed & Red Rock
1140	1180	40	Red Rock & Blue Shale
1180	1202	22	Red Rock
1202	1227	25	Red Bed & Red Rock
1227	1261	34	Red Bed
1261	1365	4	Red Bed & Red Rock
1365	1408	43	Red Bed
1408	1460	52	Red Rock
1460	1494	34	Red Bed & Shells
1494	1680	186	Red Rock
1680	1712	32	Anhydrite
1712	1722	10	Anhydrite
1722	1740	18	Anhydrite & Salt
1740	1998	258	Salt
1998	2160	162	Salt, Anhydrite & Potash
2160	2260	100	Salt & Anhydrite
2260	2585	325	Salt
2585	2600	15	Anhydrite
2600	2630	30	Salt
2630	2645	15	Anhydrite
2645	2830	185	Salt
2830	3105	275	Salt & Anhydrite
3105	3124	19	Anhydrite
3124	3268	144	Salt
3268	3302	34	Salt & Anhydrite
3302	3410	108	Anhydrite
3410	3526	116	Lime & Anhydrite
3526	3659	133	Lime (Gray)
3659	3663	4	Sandy Lime (Gas)
3663	3740	77	Lime (Gray)
3740	3757	17	Sandy Lime (Gas)
3757	3784	27	Lime (Gray & Brown)
3784	3792	8	Lime Hard
3792	3801	9	Lime (Some Saturation)
3801	3821	20	Lime brown (Oil)
3821	3835	14	Sandy Lime
3835	3848	13	Lime Hard (Oil) TD

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION

EXHIBIT NO. 11

30
BEFORE THE
OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION
OF McCASLAND DISPOSAL SYSTEM FOR
APPROVAL OF SALT WATER DISPOSAL
LEA COUNTY, NEW MEXICO

Case 4141

A P P L I C A T I O N

Comes now McCasland Disposal System, Eunice, New Mexico, and applies to the Oil Conservation Commission of New Mexico for approval of the disposal of salt water and produced oil field brines in the Jalmat Pool, Lea County, New Mexico, and in support thereof would show the Commission:

1. Applicant proposes to convert the Getty Oil Company J. H. Day Wells No. 1 and No. 2, located in the NW/4 of Section 8, Township 22 South, Range 36 East, N.M.P.M., Lea County, New Mexico, for disposal of salt water and produced brines.
2. Disposal in the No. 1 well will be in an open-hole interval in the Seven Rivers formation from 3756 feet to 3851 feet. Disposal will be through internally coated tubing, under a packer, and the casing-tubing annulus will be filled with an inert fluid, with the casing-tubing annulus either open at the surface or equipped with a pressure guage.
3. Disposal in the No. 2 well will be through the perforated interval from 3918 feet to 3939 feet, in the Seven Rivers formation. Disposal will be through internally coated tubing, under a packer, and the casing-tubing annulus will be filled with an inert fluid, with the casing-tubing annulus either open at the surface or equipped with a pressure guage.
4. It is anticipated that approximately 30,000 barrels of water will be injected in the two wells, per month.
5. The proposed disposal wells are located within two miles of wells that are producing or have produced from the Seven Rivers

DOCKET MADE

5-269
Date

formation.

WHEREFORE applicant prays that this application be set for hearing before the Commission or the Commission's duly appointed examiner, and that after notice and hearing as required by law, this application be approved.

Respectfully submitted,

MCCASLAND DISPOSAL SYSTEM

By Jason W. Kellahin
KELLAHIN & FOX
P. O. Box 1769
Santa Fe, New Mexico

Attorneys for Applicant

DRAFT

GMH/esr

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE No. 4141

Order No. R- 3781

APPLICATION OF McCASLAND DISPOSAL SYSTEM
FOR SALT WATER DISPOSAL, LEA COUNTY, NEW
MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 25, 1969, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this July day of May, 1969, 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, McCasland Disposal System, is the owner and operator of the Getty Oil Company J. H. Day Wells Nos. Units C and D, respectively, 6 1 and 2, ~~both~~ located in ~~the NW/4~~ of Section 6, Township 22 South, Range 36 East, NMPM, Jalmat Pool, Lea County, New Mexico.

(3) That the applicant proposes to utilize said wells to dispose of produced salt water into the Seven Rivers formation, with injection into the intervals as follows:

open-hole
The ~~open-hole~~ interval from approximately 3756 feet to 3851 feet in the Getty Oil Company J. H. Day Well No. 1, and

perforated
The ~~perforated~~ interval from approximately 3918 feet to 3939 feet in the Getty Oil Company J. H. Day Well No. 2.

- (4) That the injection should be accomplished through:

2 3/8 -inch plastic-lined tubing installed in a packer set at approximately 3700 feet in the Getty Oil Company J. H. Day Well No. 1, and 2 3/8 -inch plastic-lined tubing installed in a packer set at approximately 3680 feet in the Getty Oil Company J. H. Day Well No. 2;

that the casing-tubing annulus of each of the subject wells should be filled with an inert fluid; and that a pressure gauge should be attached to the annulus of each of the subject wells ~~or the annulus left open~~ at the surface in order to determine leakage in the casing, tubing, or packer.

- (5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

- (1) That the applicant, McCasland Disposal System, is hereby authorized to utilize the following-described wells, ~~both~~ located *Units C and D, respectively,* in ~~the NW/4~~ of Section 8, Township 22 South, Range 36 East, NMPM, Jalmat Pool, Lea County, New Mexico, to dispose of produced salt water into the Seven Rivers formation:

Getty Oil Company J. H. Day Well No. 1, injection to be accomplished through 2 3/8 -inch tubing installed in a packer set at approximately 3700 feet, with injection into the ^{open-hole} ~~open-hole~~ interval from approximately 3756 feet to 3851 feet, and Getty Oil Company J. H. Day Well No. 2, injection to be accomplished through 2 3/8 -inch tubing installed in a packer set at approximately 3680 feet, with injection into the ^{perforated} ~~perforated~~ interval from approximately 3918 feet to 3939 feet;

PROVIDED HOWEVER, that the tubing of each of the subject wells shall be plastic-lined; that the casing-tubing annulus of each of the subject wells shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus of each of the subject wells ~~or the annulus left open~~ at the surface in order to determine leakage in the casing, tubing, or packer.

(2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(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.

CASE 4142: Appli. of TAMARACK
PETROLEUM CORP., FOR SALT WATER
DISPOSAL, LEA COUNTY, NEW MEXICO.