

CASE 4134: Application of SKELLY
OIL COMPANY FOR A WATERFLOOD
PROJECT, LEA COUNTY, N. MEX.

Case Number.

4134

Application

Transcripts.

Small Exhibits

ETC.

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

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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

May 21, 1969

EXAMINER HEARING

IN THE MATTER OF:

Application of Skelly Oil
Company for unit agreement,
Lea County, New Mexico.

Case 4133

Application of Skelly Oil
Company for a waterflood
project, Lea County, New
Mexico.

Case 4134

BEFORE: ELVIS A. UTZ, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: Case 4133.

MR. HATCH: Application of Skelly Oil Company for unit agreement, Lea County, New Mexico.

MR. JACOBS: If the Examiner please, Ronald Jacobs, appearing for the Applicant, Skelly Oil Company. The Commission's file should have a letter from Mr. L. C. White, indicating that he is local Counsel for us in the following case. If the Examiner please, the two Cases No. 4133 and No. 4134 cover the same area. One, is for the unit agreement and the other is for the waterflood. They cover the same general subject matter and, consequently, we move that the cases be consolidated for the purposes of testimony.

MR. UTZ: Case 4133 and Case 4134 will be consolidated for the purposes of testimony.

MR. HATCH: Case 4134; Application of Skelly Oil Company for a waterflood project, Lea County, New Mexico.

MR. JACOBS: If the Examiner please, we have two witnesses, dealing with the unitization, and one dealing with the waterflood. We would like them both sworn at this time, please.

(Witnesses sworn)

FRANK MC ATEE

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

DIRECT EXAMINATION

BY MR. JACOBS

Q Will you state your name, by whom you are employed, and in what capacity?

A Frank D. McAtee, employed by Skelly Oil Company, and I am Senior Unitization Engineer, in Tulsa, Oklahoma.

Q Have you previously testified as an expert witness before the Oil Conservation Commission?

A No, I have not.

Q Would you, please, and briefly, outline your education and experience in the field of petroleum engineering and unitization?

A I was graduated in 1960 from the Oklahoma State University, having a Bachelor of Science degree in mechanical engineering, holding a petroleum option. I was employed by Skelly Oil Company in their New Mexico Oil District Office at Hobbs, for 3 1/2 years, where I was engaged in the planning and operating of secondary

recovery projects, as well as other normal activities. Since 1966, I have been employed in Skelly's Tulsa Office as the Unitization Engineer.

Q And you are familiar with the unitization proposed by the West Dollarhide Drinkard Unit Area?

A Yes, sir.

MR. JACOBS: Mr. Examiner, we move that his qualifications be accepted as an expert witness.

MR. UTZ: We will consider him qualified.

MR. JACOBS: Now, Mr. McAtee, I direct your attention to what has been marked for identification as Exhibit No. 1 in Case 4133. Would you briefly describe what this exhibit is?

A Exhibit 1 is a unit agreement, providing for the unitization of those lands shown in Exhibit A of that agreement, and described under Exhibit B of that agreement as to the unitized formation only.

Q Now, the unit agreement -- you mentioned that Exhibit A is attached to it; that is a plat -- is that correct?

A Yes, sir.

Q And it describes, in graphical form the area --

the geographical area sought to be unitized in this particular agreement?

A Yes, sir.

Q Now, the lands contained in the proposed unit area are of what nature?

A The lands are B lands, Federal lands and State of New Mexico lands.

Q Now, Exhibit B to the unit agreement contains the detailed description of the tracts; is that correct?

A Yes, sir.

Q Now, Mr. McAtee, on the application filed in this case, there is a complete description of the geographical areas sought to be unitized by this unit agreement, is that correct?

A Yes, sir.

Q For the record, Mr. McAtee, would you read or define the unitized interval?

A The unitized interval is the Tubb-Drinkard formation, underlying the unitized land. This interval has been found to occur in Kelly's New Mexico L No. 3, which is located 1980 feet from the east line, and 660 feet from the north line of Section 5, Township 25

South, Range 38 East, Lea County, New Mexico, at an indicated depth of 5,950 feet to 7,367 feet.

Q Mr. McAtee, what is the proposed participation formula in this unit?

A The participation formula in this unit comprises three phases. The First phase is based on each tract's percentage of current oil and gas income, as contributed from within the entire unit area. This phase will remain in effect until 1,000,000 barrels have been produced from the unitized formation, after September 1, 1967. Phase Two participation is based 25 percent on current oil and gas income, and 75 percent on remaining primary oil reserves in a unitized formation, as of September 1, 1967. Phase two will be effective upon expiration of the effectiveness of Phase One, and will remain in effect until 1,672,835 barrels have been produced after the termination of Phase One. Phase Three participation percentages are based 100 percent on ultimate primary oil recoverable from the unitized formation, and will be in effect from the termination of Phase Two until the termination of the unit.

Q Now, these formulae are obtained in the unit

agreement; are they not?

A Yes, sir.

Q Is this unit agreement similar to other units, heretofore approved by the Oil Conservation Commission?

A Yes, sir.

Q Mr. McAtee, what success have you had with regard to sign-up within this unit?

A We have secured execution of 99.91 percent of the royalty interests in this unit, and 99.97 percent of the working interests, based on Phase Three participation percentages.

Q I direct your attention to what has been marked for identification as Exhibit No. 2 in this case; would you relate to the Examiner what that shows?

A Exhibit 2 is a map similar to Exhibit A, attached to the unit agreement, except that we have shown for each tract depicted thereon, the percentage of royalty interests and working interests committed to the unit agreement as of this date, and the total percentages of the unit, based on Phase Three percentages.

Q Mr. McAtee, does the unit agreement contemplate the secondary recovery and injection of extraneous fluids

into the unitized formation?

A Yes, sir.

Q In your opinion, Mr. McAtee, is the unit agreement reasonably necessary to prevent waste and protect correlative rights of the parties within the unit?

A Yes, sir.

MR. JACOBS: That's all I have of this witness, Mr. Examiner. We do have another witness as to the waterflood.

MR. UTZ: Are there any questions of the witness? The witness may be excused. You may proceed.

LARRY HALL

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

DIRECT EXAMINATION

BY MR. JACOBS:

Q Will you please state your name, by whom you are employed, and what capacity?

A Larry R. Hall; I am employed with Skelly Oil Company as a Senior Reservoir Engineer in Hobbs, New Mexico.

Q Mr. Hall, have you previously testified before

this Commission as a Petroleum Engineer and had your qualifications accepted?

A Yes, sir; I have.

Q Are you familiar with the application in this Case, No. 4134, for permission to conduct waterflood project in the West Dollarhide Drinkard Unit Area?

A Yes, sir; I am.

Q Mr. Hall, would you explain what is being sought by this application?

A This is the application of Skelly Oil Company, as the operator of this proposed West Dollarhide Drinkard Unit for approval to commence water injection into forty-three proposed water injection wells.

Q Referring to what has been marked for identification as Exhibit A in this Case, would you describe that and what it shows?

A Exhibit A is a map, showing the leases, locations of the wells included in this project, and all other New Mexico wells within a radius of two miles from the proposed injection wells. Formations from which the said wells have produced or are producing is shown. The major portion of the Dollarhide field lies in Andrews County, Texas.

And this is an area of multi-paid production in which this Drinkard reservoir, or Tubb-Drinkard reservoir, is both overlaying and underlaying but productive reservoir. The proposed unit boundary of the Dollarhide Drinkard Unit is outlined in yellow, and the wells contained within the unit area are indicated by red. Also, on this Exhibit, we have shown the unit boundary of the presently Skelly Oil -- South Skelly Oil Company; West Dollarhide and Sand Unit, which was established in 1963, and the Gulf operated West Dollarhide Devonian Unit.

Q Mr. Hall, is the Tubb-Drinkard reservoir unitized in the Texas portion?

A Yes; this leaves only the New Mexico portion to be unitized, for secondary recovery. And on this Exhibit A, we have a portion of the Drinkard Well in the waterflood project that cross the Texas Stateline. And these are the Cities Service, north Dollarhide Clear Fork Unit, which is shown in Section 15, and the Union Oil Company of California, operated -- the Dollarhide Clear Fork Unit. I might say at this point, the designation of Clear Fork is synonymous with the Drinkard, as far as New Mexico is concerned.

Q Mr. Hall, the geographical area of the Unit is

the same geographical area that Mr. McAtee testified to earlier; is it not?

A Yes, sir. It is. I might say that our proposed project does include all the wells in the Dollarhide Tubb-Drinkard Pool, in the State of New Mexico.

Q All the wells in this Dollarhide Tubb-Drinkard Pool are going to be taken into and be a part of this proposed unit?

A Yes, sir.

Q Referring to what has been marked as Exhibit B, would you describe what it shows?

A Yes, sir. Exhibit B is a listing of the injection wells and a plat showing the Dollarhide Tubb-Drinkard Wells and the proposed injection pattern. Skelly is the unit operator -- proposed to inject water into the Tubb-Drinkard formation through thirty nine wells, initially, using an eighty-acre five-spot pattern. Our future plans include the conversion of four unit wells along the Texas-New Mexico Statelines, for injection, at such time as lease line agreements are negotiated between the Texas operators and the propose West Dollarhide Drinkard.

Q I noticed on that list that you have shown the former operator as -- for instance, Sinclair. That, in truth, in fact, is Atlantic Richfield; is that correct?

A Yes, sir. All the maps and exhibits do reflect Sinclair. And, I might add, also, that our proposed pattern for the eighty to five spot is a continuation of the waterflood pattern being utilized in the Texas flood.

Q Mr. Hall, what water rates do you anticipate and, approximately, what pressure do you anticipate using in this waterflood project?

A Our anticipated waterflood injection rates are nine hundred to a thousand barrels of water per day, per well, and our maximum injection pressure is expected to be fifteen hundred psi. The injection will be confined in the unitized interval, which is the Tubb Drinkard formation, as was defined in the unit agreement. Injection will be down internally-lined tubing, set on a packer approximately fifty feet above the zone open for injection. Our primary and cementing operation at the time of the original completion, will prevent further migration up the hole, behind the casing, and any mechanical failure will be promptly repaired, when detected.

Q Mr. Hall, do you anticipate utilizing corrosion-inhibited fluid between the tubing casing annulus?

A Yes. I might, at this point, elaborate on our proposed method for converting these wells. We proposed, initially, to pull the rods and tubing from the wells, rerun bare tubing in the packer and inject for an estimated thirty-day period, until the well will hold a static column of fluid. In primary operations we have experienced a lot of clean-out problems in this Drinkard reservoir -- with sand fill-up. And we proposed to inject until the well will hold a static column of fluid, and use the reversing to clean out the TD; at which time, and we are estimating a thirty-day period -- we will run back in, pull the rods and tubing -- I mean, pull the tubing and packer out of the well, run a coated tubing and injection packer, load the annulus with an inhibited fluid at that time.

Q Mr. Hall, have you made a calculation to determine, approximately, what the unit waterflood allowable or the project waterflood allowable may be?

A I have calculated a normal waterflood allowable. When the normal was forty-two barrels a day -- and I calculate sixty-six-nineteen barrels per day alone.

This proposed West Dollarhide Drinkard Unit contains eighty-seven units, and will ultimately contain forty

four producing wells and forty-three injection wells; and as I stated earlier, thirty-nine of these wells will be initially converted, and the remaining four, when the loose line agreements permit. Skelly, by this application, is requesting approval to convert all forty-three wells to injection. And we further ask that the provision be made to allow for additional wells to be converted by injection; by administrative approval, by the Secretary-Director, in the event that additional wells be needed to convert to injection before production response is received.

Q Mr. Hall, referring to what has been marked as Exhibit Number C, would you relate to the Commissioner what that shows?

A Exhibit C is a primary performance graph for the West Dollarhide Tubb-Drinkard Pool, and it indicates the remaining primary oil to be two point two million barrels, as of January 1, 1969. And the current monthly oil producing rate for the Tubb-Drinkard wells ranges between twenty-one and twenty-four thousand barrels of oil per month.

Q When was the first development of the Drinkard

reservoir in the State of New Mexico, in this general area?

A The New Mexico development began with the completion of the Skelly Oil Company K Number One in December of 1951. The unitized vertical interval for the West Dollarhide Drinkard Unit is to be the same as that that has been established for this Clear Fork Unit in Texas -- the same as was established for the Clear Fork in Texas. This includes the Tubb-Drinkard, and Abo Baish section. These comprises a growth interval of ranging from six hundred to approximately a thousand feet. The proposed unit area was fully developed by mid-year, 1958, and we have shown on Exhibit C a number of producing wells and this can be noted -- with eighty-seven completions -- currently eighty-three of these wells continue to produce -- we have one temporarily abandoned and three shut-in wells.

Q Mr. Hall, what has been your experience with regard to production and recovery from this unit area so far?

A From the statistical reports; the operators report that thirteen-million ninety-six thousand-six

hundred and sixteen barrels of stock tank oil have been producing from these unit areas since January 1, 1969. This is an average well accumulative of a hundred fifty-thousand five-hundred and thirty-six barrels. The ultimate recovery by primary has been estimated to be fifteen-million three-hundred ninety-nine thousand ninety barrels. The proposed unit is eighty-five per cent depleted, by the primary drive mechanism solution, gas drive, as of January 1, 1969. This reservoir produces oil at approximately thirty-six degrees api gravity.

Q Mr. Hall, referring to what has been marked for identification as Exhibit D; would you explain what that exhibit shows?

A Shown on Exhibit D is the well completion data for all the wells within the unit completion data. We have a tabulation of operator, lease and well number; the location, the elevation -- total depth, casing program, including the diameters and setting depths; the volume of cement used in the producing intervals. And also, in the remarks column we have denoted which wells will be converted to water injection service. And on the eighty-seven wells in the unit area, forty of these wells are

are completed behind pipe; sixteen are completed open-hole, with the remaining thirty-one wells being a combination. All wells are completed either by using five-and-a-half and seven-inch production casing.

Q Mr. Hall, referring to what has been marked for identification as Exhibit E, would you explain to the Examiner what this shows?

A Exhibit E is supplemental well data, on which we have shown the initial and current producing rates in the accumulative oil production for January 1, 1969. The current producing data rates on the wells in this unit area range from one to twenty-two barrels of oil per day, with an average of nine per day per well. The produced water from the unit area is approximately two-hundred seventy-five to three-hundred barrels of water per day. And this produced water will be transported to our injection plant for reinjection as soon as possible after being reunitized.

Q So, you do anticipate utilizing the produced water in the injection operations also?

A Yes, sir.

Q Now, Mr. Hall, referring to what has been marked

for identification as Exhibit F; will you explain what that exhibit is?

A Yes. Exhibit F consists of the forty-three downhole diagrammatic sketches of the proposed injection wells. On this Exhibit, of course, we have shown the casing string, the diameters, setting depths, quantity of cement used, and the tops of the cement, and the cement intervals, the tubing strings between the diameters and the setting depths, and the location of the packers. All of these wells will be conventional well hook-ups, with the exception of four wells. These wells are currently the Queen Drinkard duals. Injection will be below a packer and the Queen produced from the casing tubing annulus. And these four wells -- I might give you the tabulation of them. Sinclair Oil and Gas, which is now Atlantic, McClure No. 19, and Unit J, Section 19, Township 24, Range 38. The Texaco, E. M. Buyers No. 1, located in Unit L, of Section 19, The Texaco Stephens, the State No. 2; and Unit D of Section 19; the Texaco United Royalty A, Number Three, in Unit F of Section 19.

MR. UTZ: Well, I haven't found the Texaco -- United Royalty?

THE WITNESS: Yes, sir. The United Royalty A,
Number Three.

MR. UTZ: Three and what?

THE WITNESS: And the other one is the Stevens
~~Estate~~No. 2.

MR. UTZ: And those were dualled in what zone?

THE WITNESS: The Queen-Drinkard duals.

MR. UTZ: Okay.

MR. JACOBS: Mr. Hall, do you have a copy of the
available log from the proposed injection wells?

A Yes. I have included, as Exhibit G, Xerox log
sections of the available well logs.

Q Approximately, how many logs are there, Mr. Hall?

A I think we have all but just five or six
injection wells.

Q These were all of the logs that were available
to you?

A Yes, sir.

Q Referring to what has been marked for identification
as Exhibit H; would you explain what that Exhibit shows?

A Exhibit H is an analysis of the produced water

from the unit area, and our proposed water supply source. The water supply source will be the Skelly-Jal water supply system. And this system is presently delivering produced water from the Seven Rivers formation and Capitan Reef. The Seven Rivers water is produced in association with the oil production from Skelly wells, located in Section 3, Township 24, Range 36 East, Lea County, New Mexico. Capitan Reef water is produced from water supply wells, located in Section 4 and 16, Township 24, Range 36, Lea County, New Mexico.

Q Mr. Hall, referring to what has been marked for identification as Exhibit I; would you explain what Exhibit I shows?

A Exhibit I is a structural map, and this shows the Dollarhide Tubb-Drinkard Pool to be the northwest southeast inter-cline. The various pay sections to be the Tubb-Drinkard Abo are composed of finely crystalline shale dolomite and limestone, of premium age. We have four colors; and from these, we will determine the average rock properties. And our porosity, is about seven per cent; the permeability is about four millidarcies, and the connate water section is twenty-eight per cent. The geometry of this reservoir is that it lends itself favorably to the proposed eighty-acre five-spot pattern.

And we have estimated that ultimate secondary, by waterflood, will be eleven point five five million barrels. These reserves were determined by assuming that recoverable secondary oil would be equal to seventy five per cent of estimated ultimate primary, which is approximately fifteen million four hundred barrels. We expect a response from the injection program to result in a maximum oil producing rates in the fourth year of unitized operations.

Our total project life is estimated to be fifteen and a half years.

Q Mr. Hall, will the granting of this application result in any waste?

A No. In my opinion, the unitization in the waterflood and in the west Dollarhide Drinkard Unit will prevent waste by recovering oil that would not be recovered by primary operations.

Q Mr. Hall, will the granting of this operation result in any impairment of the correlative rights of any of the interested parties, both within and without the unit area?

A No, sir.

Q Were Exhibit A through I, and the various subdivisions of those Exhibits prepared by you or under your

supervision and direction?

A Yes, they were.

MR. JACOBS: If the Examiner please, we would like to offer into evidence Exhibits A through I in Case 4134, and, also, Exhibits 1 and 2 in Case 4133.

MR. UTZ: The Exhibits will be accepted into each case.

MR. HATCH: Do you have Exhibit G?

THE WITNESS: Yes; it's a little package of logs.

MR. JACOBS: That's all the direct testimony we have Mr. Examiner. I do have two listings that may be of benefit. We have to find unit well numbers to these, and here is a listing of the old operator, with the new. And also of a listing showing the old operator and also we have marked the proposed injection wells with the new numbers on them. We anticipate, for effective date on this one, June 1, 1969. That is, we hope we can make that the effective date of this unit.

MR. UTZ: These lists both include forty-three wells?

MR. JACOBS: Includes all of the wells.

THE WITNESS: Eighty-seven.

MR. JACOBS: Eighty-seven -- but the wells marked here are the proposed injection wells. These two lists are the same except this list, that has the injection wells marked.

MR. UTZ: Are you proposing to use the new designation for the wells in the Order?

MR. JACOBS: I think it might be clearer, Mr. Examiner -- that the new unit designation be included, if you desire.

MR. UTZ: Do you have any objections?

MR. HATCH: I have no objections.

MR. UTZ: Let's see; you gave us the four duals; didn't you?

THE WITNESS: Yes, sir; I did.

MR. UTZ: That would probably be easier than giving them to me again.

THE WITNESS: The first one was -- Sinclair is still reflected in this list --

MR. JACOBS: The old, but the new has the correct names.

THE WITNESS: Atlantic McClure No. 19 -- this is

in Unit J, Section 19.

MR. UTZ: Let me find it on this. No. 19?

THE WITNESS: Yes.

MR. UTZ: All right.

THE WITNESS: The Texaco E. M. Buyers, No. 1,
of Unit L of 19.

MR. UTZ: E. M. Buyers?

THE WITNESS: Yes; it ought to have a real
low well number -- Unit Number Nine; I believe, sir.

MR. UTZ: All right.

THE WITNESS: The next one is the Texaco Stevens
State No. 2, and as shown on this list, is Unit Number
Three -- W. L. Stevens.

MR. UTZ: All right.

THE WITNESS: Texaco United Royalty A Number
Three. I believe, it's Well Number Five, located in F
of 19.

MR. UTZ: Yes.

CROSS EXAMINATION

BY MR. UTZ:

Q Now, you have schematics on those four duals?

A Yes, sir. These schematics are in alphabetical order.

MR. JACOBS: By what; operator?

THE WITNESS: Operator. Operator; and then by lease. One of them is at the back -- in fact, it's the second sheet from the back, sir. If we are in the same order.

MR. UTZ: The only difference between the single and the dual is the extra tubing and all four will be completed in the same manner?

THE WITNESS: Yes, sir.

Q And all are Queen producers?

A That is correct. Queen and -- and they will be Drinkard injections.

Q Now, on the single completion, do you intend to load the annulus?

A Yes, sir. As I stated earlier, we intend to load the annulus with inhibited fluid, but we are proposing to initiate -- and we are talking about a short, short term project here -- to go in and inject this well, until we can circulate clean, and save considerably on clean-out money. At that time, and then, we will run out internally-

lined tubing and then, load the annulus with the fluid.

Q Now, I believe you said that you were going to use Capitan-Seven Rivers water for injection. Now, is that going to be all your injection water, or --

A We will reinject the water -- the produced water, as soon as we can get out tank battery consolidation -- we have to make a unit inventory, and we have it set up, tentatively, for the third of June, and as soon as we do see what materials are available, we can start on our tank battery consolidation, as soon as possible. And the produced water will be gathered -- brought to our injection plant to be reinjected.

Q What is the chloride content of the Capitan water, again?

A The chloride contents as shown on Exhibit H, of the Jal -- the Capitan Reef water, Jal water system, is twenty-four hundred.

Q The producing water will undoubtedly be higher?

A Yes, sir. It is a hundred-twenty-five-thousand two-hundred and fifty. We have run compatibility tests on these wells.

Q So, you will have unlined tubing in the wells

for approximately thirty days?

A Yes, sir.

Q How much oil did you say you would be able to recover? On the secondary recovery?

A Secondary recovery is eleven point five five million barrels.

Q You are asking approval in this Order of forty three wells, is that right?

A Yes, sir.

Q Now, there was a few of those wells -- four of them; was there? That you had to have lease-line agreements on?

A Yes, sir. Would you like the number --

Q I think they are shown.

A On the plats; yes, sir. They are right adjacent to the Texas Stateline.

Q I believe you requested administrative approval for additional injection wells; don't this complete the unit?

A It currently contains all the wells within the Pools, but should these -- agewell drill, or any other problems, well -- well, on additional wells, this is

what we have asked for. At the present time, it does contain all the wells in the pool.

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

I N D E XWITNESSPAGE

FRANK MC ATEE

Direct Examination by Mr. Jacobs

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LARRY HALL

Direct Examination by Mr. Jacobs

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Cross Examination by Mr. Utz

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EXHIBITSMARKEDADMITTED INTO
EVIDENCEApplicant's Exhibits
One and Two; and Exhibits
A through I

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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.

CA Fenley
 I do hereby certify that the foregoing is
 a complete record of the proceedings in
 the Examiner hearing of Case No. 4133,
 heard by me on May 21 1969.
Michael J. [Signature] Examiner
 New Mexico Oil Conservation Commission



OIL CONSERVATION COMMISSION

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

May 27, 1969

GOVERNOR
DAVID F. CARGILL
CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER

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

Mr. Ronald J. Jacobs
Skelly Oil Company
Post Office Box 1650
Tulsa, Oklahoma 74102

Re: Case No. 4134
Order No. R-3768
Applicant:
Skelly Oil Company

Dear Sir:

Enclosed herewith is a copy of the above-referenced Commission order recently entered in the subject case. Letter pertaining to conditions of approval and maximum allowable to follow.

Very truly yours,

Very truly yours,
A. L. Carter, Jr.

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC **x**
 Artesia OCC
 Aztec OCC
 State Engineer **x**

[illegible]

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

May 29, 1969

Mr. Ronald J. Jacobs
Skelly Oil Company
Post Office Box 1650
Tulsa, Oklahoma 74102

Dear Sir:

Reference is made to Commission Order No. R-3768, recently entered in Case No. 4134, approving the Skelly West Dollarhide Drinkard Waterflood Project.

Injection is to be through the 43 authorized water injection wells, each of which shall be equipped with plastic-lined tubing set in a packer approximately 50 feet above the uppermost perforation or, in the case of open-hole completions, within approximately 50 feet of the casing shoe. Exceptions to these packer setting depths are the Sinclair McClure No. 19, the Texaco Stevens Estate No. 2, and the Texaco United Royalty A No. 3, in which the packers are to be set 70 feet, 110 feet, and 89 feet, respectively, above the perforations. The casing-tubing annulus of each injection well shall be loaded with a corrosion-inhibited fluid and equipped with a pressure gauge at the surface to facilitate detection of leakage in the casing, tubing, or packer.

As to allowable, our calculations indicate that when all of the authorized injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 6624 barrels per day when the Southeast New Mexico normal unit allowable is 42 barrels per day or less.

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the Commission and the appropriate district proration office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behooves him to promptly

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

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Mr. Ronald J. Jacobs
Skelly Oil Company
Post Office Box 1650
Tulsa, Oklahoma 74102

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notify both of the aforementioned Commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/DSN/ir

cc: Oil Conservation Commission
Hobbs, New Mexico

U. S. Geological Survey
Hobbs, New Mexico

Mr. D. E. Gray
State Engineer Office
Santa Fe, New Mexico

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. 4134
Order No. R-3768

APPLICATION OF SKELLY OIL COMPANY
FOR A WATERFLOOD PROJECT, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 21, 1969,
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 28th 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, Skelly Oil Company, seeks permis-
sion to institute a waterflood project in the West Dollarhide
Drinkard Unit Area, Dollarhide Tubb-Drinkard Pool, by the injec-
tion of water into the Tubb-Drinkard formation through 43 injec-
tion wells in Townships 24 and 25 South, Range 38 East, NMPM,
Lea County, New Mexico.

(3) That the applicant further seeks an administrative
procedure whereby said project could be expanded to include
additional lands and injection wells in the area of the said
project as may be necessary in order to complete an efficient
injection pattern; that said administrative procedure should
provide for administrative approval for conversion to water
injection in exception to the well response requirements of
Rule 701 E-5 of the Commission Rules and Regulations.

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CASE No. 4134

Order No. R-3768

(4) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.

(5) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(6) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations; provided however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

IT IS THEREFORE ORDERED:

(1) That the applicant, Skelly Oil Company, is hereby authorized to institute a waterflood project in the West Dollarhide Drinkard Unit Area, Dollarhide Tubb-Drinkard Pool, by the injection of water into the Tubb-Drinkard formation through the following-described 43 wells in Lea County, New Mexico:

COMPANY	LEASE	Well		LOCATION		
		No.	Unit	Sec.	T - R	
Texaco Inc.	Paul Stephens	2	D	19	24S	38E
Texaco Inc.	E. M. Byers	1	L	19	24S	38E
Texaco Inc.	United Royalty "A"	3	F	19	24S	38E
Texaco Inc.	United Royalty "A"	5	N	19	24S	38E
Sinclair Oil & Gas Co.	McClure Fed.	21	B	19	24S	38E
Sinclair Oil & Gas Co.	McClure Fed.	19	J	19	24S	38E
Sinclair Oil & Gas Co.	McClure Fed.	18	P	19	24S	38E
Gulf Oil Corporation	Ramsay "D"	2	N	28	24S	38E
Skelly Oil Company	Mexico "K"	1	P	29	24S	38E
Skelly Oil Company	Mexico "K"	4	N	29	24S	38E
Skelly Oil Company	Mexico "K"	6	L	29	24S	38E
Skelly Oil Company	Mexico "K"	9	J	29	24S	38E
Skelly Oil Company	Mexico "K"	13	F	29	24S	38E
Skelly Oil Company	Mexico "K"	15	D	29	24S	38E
Ralph Lowe	F. Hair	1	F	30	24S	38E
Sinclair Oil & Gas Co.	L. E. Vance	1	N	30	24S	38E
Sinclair Oil & Gas Co.	McClure Fed.	1	P	30	24S	38E
Sinclair Oil & Gas Co.	McClure Fed.	5	J	30	24S	38E

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CASE No. 4134
Order No. R-3768

COMPANY	LEASE	Well		LOCATION		
		No.	Unit	Sec.	T - R	
Sinclair Oil & Gas Co.	McClure Fed.	8	H	30	24S	38E
Sinclair Oil & Gas Co.	McClure Fed.	16	B	30	24S	38E
Texaco Inc.	J. B. McGhee	6	J	31	24S	38E
Texaco Inc.	J. B. McGhee	7	P	31	24S	38E
Elliott Production	Elliott "R"	7	B	31	24S	38E
Elliott and Hall	Elliott "R"	1	H	31	24S	38E
Sunshine Royalty	Elliott Fed.	1	F	31	24S	38E
Skelly Oil Company	Mexico "J"	7	L	32	24S	38E
Skelly Oil Company	Mexico "J"	9	J	32	24S	38E
Skelly Oil Company	Mexico "J"	16	P	32	24S	38E
Skelly Oil Company	Mexico "J"	20	N	32	24S	38E
Pan American	State "Y"	11	H	32	24S	38E
Pan American	State "Y"	8	F	32	24S	38E
Pan American	State "Y"	10	B	32	24S	38E
Pan American	State "Y"	6	D	32	24S	38E
Gulf Oil Corporation	Leonard "I"	2	F	33	24S	38E
Gulf Oil Corporation	Leonard "G"	11	D	33	24S	38E
Gulf Oil Corporation	Leonard "G"	14	L	33	24S	38E
Gulf Oil Corporation	Leonard "G"	15	N	33	24S	38E
Gulf Oil Corporation	Leonard "G"	12	F	4	25S	38E
Gulf Oil Corporation	Leonard "G"	19	D	4	25S	38E
Skelly Oil Company	Mexico "L"	15	D	5	25S	38E
Skelly Oil Company	Mexico "L"	17	B	5	25S	38E
Skelly Oil Company	Mexico "L"	18	H	5	25S	38E
Skelly Oil Company	Mexico "L"	20	F	5	25S	38E

(2) That the subject waterflood project is hereby designated the Skelly West Dollarhide Drinkard Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve expansion of the Skelly West Dollarhide Drinkard Waterflood Project to include such additional lands and injection wells in the area of said project as may be necessary to complete an efficient water injection pattern; that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

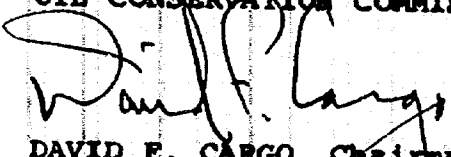
-4-

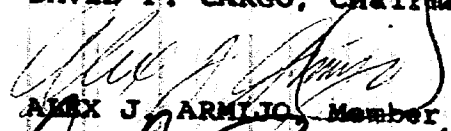
CASE No. 4134
Order No. R-3768

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

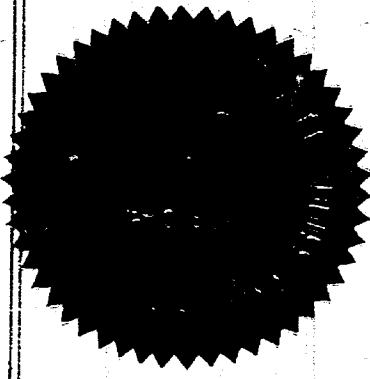
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


DAVID F. CARGO, Chairman


ALEX J. ARMILJO, Member


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


esr/

4134

Heard 5-21-69

Rec. 5-23-69.

Grant Shelly's request for permission to convert 4 wells to ^{H₂O} injection for their Mt. Dollarhide unit waterflood. All tubing to be internally plastic coated. Injection to be thru the tubing and under a packer into the ~~sub~~ ^{Drunk} and ^{fur}.

4 of these wells are Drunk.
Prod. from the ^{Drunk} ^{Dollarhide}

tubing + Injection into Dr. fur.
thru tubing... These are noted
on the list.

All other wells are lubed
w/ packer set above the
Dr. All injection tubing
shall be plastic coated
w/ inert ^{to} in Annulus.
Injection wells will be
2400 at Capilans Ref. S.R. +
Produced (25,250) water.
Thru A. Ref.
over

Admin procedure for pipe
injection wells or changes
in these approvals.

EDH

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.

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.

ROUGH DRAFT FOR WATER

Mr. Ronald J. Jacobs
Skelly Oil Company
Post Office Box 1650
Tulsa, Oklahoma 74102

Dear Sir:

Reference is made to Commission Order No. R-3768, ^{recently} entered in Case No. 4134, approving the Skelly West Dallerhide Drinkard Waterflood Project.

Injection is to be through the 43 authorized water injection wells, each of which shall be equipped with plastic ~~plastic~~ tubing set in a packer approximately 50 feet above the uppermost perforation or, in the case of open-hole completions, within approximately 50 feet of the casing shoe. Exceptions to these packer setting depths are the Sinclair McClure No. 1, the Texas Stevens Estate No. 2, and the Texas United Royalty A No. 3, in which the packers are to be set at 70 feet, 110 feet, and 89 feet, respectively, above the perforations. As to allowable, our calculations indicate that when all of the authorized injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 6624 barrels per day when the Southeast New Mexico normal unit allowable is 42 barrels per day or less.

Please report any error in this calculated maximum allowable immediately, both to the Santa Fe office of the Commission and the appropriate district proration office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable provisions of Rule 701, it behooves him to promptly notify both of the aforementioned Commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

cc: OCC: Hobbs X
Artesia
Aztec

USGS Hobbs

Mr. Frank Irby, State Engineer Office, Santa Fe, New Mexico

Mr. D. E. Gray

set 70 feet, 110 feet, and 89 feet, respectively, above the perforations. The casing-tubing annulus ~~shall~~ of each injection well shall be loaded with a corrosion-inhibited fluid and equipped with a pressure gauge at the surface to facilitate detection of leakage in the casing, tubing, or packer.

Attached is a plat which shows the development of the West Dollarhide Drinkard Pool and the proposed Unit boundary. The proposed injection wells are indicated on this plat and are tabulated below:

COMPANY	LEASE	WELL #	LOCATION	
			UNIT	SEC-T-R
Texaco, Inc.	Paul Stephens	2	D	19-24-38
Texaco, Inc.	E. M. Byers	1	L	19-24-38
Texaco, Inc.	United Royalty "A"	3	F	19-24-38
Texaco, Inc.	United Royalty "A"	5	N	19-24-38
Sinclair Oil & Gas Company	McClure Fed.	21	B	19-24-38
Sinclair Oil & Gas Company	McClure Fed.	19	J	19-24-38
Sinclair Oil & Gas Company	McClure Fed.	18	P	19-24-38
Ralph Lowe	F. Hair	1	F	30-24-38
Sinclair Oil & Gas Company	L. E. Vance	1	N	30-24-38
Sinclair Oil & Gas Company	McClure Fed.	1	P	30-24-38
Sinclair Oil & Gas Company	McClure Fed.	5	J	30-24-38
Sinclair Oil & Gas Company	McClure Fed.	8	H	30-24-38
Sinclair Oil & Gas Company	McClure Fed.	16	B	30-24-38
Skelly Oil Company	Mexico "K"	1	P	29-24-38
Skelly Oil Company	Mexico "K"	4	N	29-24-38
Skelly Oil Company	Mexico "K"	6	L	29-24-38
Skelly Oil Company	Mexico "K"	9	J	29-24-38
Skelly Oil Company	Mexico "K"	13	F	29-24-38
Skelly Oil Company	Mexico "K"	15	D	29-24-38
* Gulf Oil Corporation	Ramsay "D"	2	N	28-24-38
* Gulf Oil Corporation	Leonard "I"	2	F	33-24-38
Gulf Oil Corporation	Leonard "G"	11	D	33-24-38
Gulf Oil Corporation	Leonard "G"	14	L	33-24-38
* Gulf Oil Corporation	Leonard "G"	15	N	33-24-38
Skelly Oil Company	Mexico "J"	7	L	32-24-38
Skelly Oil Company	Mexico "J"	9	J	32-24-38
Skelly Oil Company	Mexico "J"	16	P	32-24-38
Skelly Oil Company	Mexico "J"	20	N	32-24-38
Pan American	State "Y"	11	H	32-24-38
Pan American	State "Y"	8	F	32-24-38
Pan American	State "Y"	10	B	32-24-38
Pan American	State "Y"	6	D	32-24-38
Texaco, Inc.	J. B. McGhee	6	J	31-24-38
Texaco, Inc.	J. B. McGhee	7	P	31-24-38
Elliott Production	Elliott "H"	7	B	31-24-38
Elliott and Hall	Elliott "R"	1	H	31-24-38
Sunshine Royalty	Elliott Fed.	1	F	31-24-38
Skelly Oil Company	Mexico "L"	15	D	5-25-38
Skelly Oil Company	Mexico "L"	17	B	5-25-38
Skelly Oil Company	Mexico "L"	18	H	5-25-38
Skelly Oil Company	Mexico "L"	20	F	5-25-38
* Gulf Oil Corporation	Leonard "G"	12	F	4-25-38
Gulf Oil Corporation	Leonard "G"	19	D	4-25-38

*Conversion of these four wells will be temporarily delayed until lease line agreements are made.

SKELLY OIL CO.

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. _____
CASE NO. _____

EXHIBIT NO. B
DOCKET OR
CASE NO. 4134
DATE 5/21/69

WELL COMPLETION DATA
DOLLARHIDE TUBB-DRINKARD
PROPOSED UNIT
LEA COUNTY, NEW MEXICO

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
CASE NO. _____
EXHIBIT NO. _____

EXHIBIT NO. D
DOCKET OR
CASE NO. 4139

OPERATOR	LOCATION	ELEVATION	TOTAL DEPTH	CASING PROGRAM	PRODUCING DATE	REMARKS
Well No.	Sec., Township, Range	D.F. (Feet)	(Feet)	Size (Inches)	Depth (Feet)	Interval (Feet)
Elliott and Elliott Federal "H" #2	990 FNL & 330 FEL 31-24S-38E	3157	6514	13 3/8 9 5/8 7	215 3002 6411	200 2050 400
					(Circ.) (Circ.)	OH 6411-6514
#6	2310 FNL & 1650 FEL 31-24S-38E	3135	6850	13 3/8 9 5/8 7	209 3023 6410	225 750 500
						OH 6410-6850
#7	480 FNL & 1650 FEL 31-24S-38E	3136	6521	10 3/4 7 5/8 5 1/2	208 3020 6400	150 450 400
						OH 6400-6521 Convert to WIN
Elliott and Hall Elliott "R" #1	2310 FNL & 330 FEL 31-24S-38E	3138	6488	16 10 3/4 7	161 3009 6325	125 2500 400
						OH 6325-6488 Convert to WIN
Elliott "S" #2	990 FNL & 2310 FNL 31-24S-38E	3115	6750	13 3/8 8 5/8 5 1/2	221 3016 6750	140 750 480
						Perf 6448-6730
Gulf Leonard "H" NCT G #10	631 FEL & 667 FNL 4-25S-38E	3171	6890	10 3/4 7	301 6252	150 1350
						OH 6252-6890
	#11 990 FNL & 990 FNL 33-24S-38E	3193	8170 PB 6960	13 3/8 9 5/8 7	327 2903 6959	350 850 750
						Perf 6555-6896 Convert to WIN
#12	1980 FNL & 630 FEL 4-25S-38E	3167	6840	10 3/4 7	299 6309	300 1010
						OH 6309-6840 Convert to WIN
#13	1980 FSL & 630 FEL 33-24S-38E	3183	6850	10 3/4 7	306 6300	275 1171
						OH 6300-6850

WELL COMPLETION DATA
DOLLARHIDE TUBB-DRINKARD
PROPOSED UNIT
LEA COUNTY, NEW MEXICO

GENERATOR Well No.	LOCATION Sec., Township, Range	ELEVATION D.F. (Feet)	TOTAL DEPTH (Feet)	CASING PROGRAM Size (Inches) Depth (Ft) Cement (Sacks)	PRODUCING INTERVAL (Feet)	REMARKS:
Galif Leonard "H" NCT G #14	1980 FSL & 660 FWL 33-24S-38E	3181	6870	8 5/8 5 1/2 308 275 6869 1236	Perf 6490-6860	Convert to WIN
#15	560 FSL & 781 FEL 33-24S-38E	3172	6850	9 5/8 295 275 7 6250 810	OH 6250-6850	Convert to WIN
#19	990 FNL & 330 FWL 4-25S-38E	3165	6870	9 5/8 413 275 7 6389 1125	OH 6389-6870	Convert to WIN
#20	1650 FNL & 660 FWL 4-25S-38E	3160	6860	9 5/8 350 275 7 6349 2035	OH 6349-6860	
#21	2310 FNL & 330 FWL 33-24S-38E	3193	6900	9 5/8 335 275 7 6349 1265	OH 6349-6900	
#23	330 FSL & 660 FWL 33-24S-38E	3173	6869	8 5/8 267 250 5 1/2 6869 1065	Perf 6464-6830	
Ramsey NCT D #1	660 FSL & 660 FWL 28-24S-38E	3224	8222	9 5/8 300 300 7 5/8 6399 820	OH 6399-6890	
#2	660 FSL & 779 FEL 28-24S-38E	3201	8277	13 3/8 310 335 9 5/8 2999 1595 7 8080 387	Perf 6650-6832	Convert to WIN
#3	330 FSL & 330 FWL 20-24S-38E	3190	6799	8 5/8 258 225 5 1/2 6799 2200	Perf 6484-6788	
Leonard "H" NCT H #2	660 FNL & 660 FEL 33-24S-38E	3205	6878	9 5/8 312 250 7 6399 3826	OH 6399-6878	
Leonard NCT I #2	629 FEL & 1980 FNL 33-24S-38E	3198	6900	10 3/4 320 225 7 6279 1225	OH 6279-6900	Convert to WIN

WELL COMPLETION DATA
DOLLARHIDE TUBB-DRINKARD
PROPOSED UNIT
LEA COUNTY, NEW MEXICO

WELL No.	LOCATION Sec., Township, Range	ELEVATION D.F. (Feet)	TOTAL DEPTH (Feet)	CASING PROGRAM			PRODUCING INTERVAL (Feet)	REMARKS
				Size (Inches)	Depth (Feet)	Cement (Sacks)		
Ralph Lowe Well #1	1980 FNL & 1980 FWL	3124	6626	10 3/4	340	200		
	30-24S-38E			7 5/8	3650	1700		
				5 1/2	6545	325	OH 6545-6626	Convert to WIA
#2	535 FNL & 2310 FWL	3156	6910	10 3/4	325	300		
	30-24S-38E			7 5/8	3240	1700		
				5 1/2	6910	600	Perf 6614-6710	
Pan American State "Y" #2	1980 FNL & 660 FWL	3168	8920	13 3/8	323	375		
	32-24S-38E		PB 6879	9 5/8	3139	350		
				7	7003	658	Perf 6041-6846	
#3	660 FNL & 660 FWL	3213	8100	13 3/8	316	375		
	32-24S-38E		PB 7040	9 5/8	3135	360		
				7	8053	575	Perf 6580-6989	
#5	1980 FNL & 1980 FWL	3209	7956	13 3/8	318	290		
	32-24S-38E		PB 7096	9 5/8	3145	350		
				7	7203	783	Perf 6175-6916	
#6	660 FNL & 660 FWL	3176	7020	13 3/8	300	290		
	32-24S-38E		PB 6932	9 5/8	3149	350		
				7	7020	236	Perf 6446-6760	Convert to WIA
#8	2310 FNL & 1980 FWL	3182	6912	13 3/8	302	250		
	32-24S-38E			8 5/8	3144	350		
				5 1/2	6641	236	Perf 6155-6566	Convert to WIA
#9	990 FNL & 1980 FWL	3192	6922	13 3/8	313	290		
	32-24S-38E		PB 6600	8 5/8	3150	350		
				5 1/2	6627	236	Perf 6108-6580	
#10	660 FNL & 1980 FWL	3220	6950	13 3/8	309	290		
	32-24S-38E			9 5/8	3150	350		
				5 1/2	6715	236	Perf 6180-6690	Convert to WIA

WELL COMPLETION DATA
DOLLARHIDE TUBB-DRINKARD
PROPOSED UNIT
LEA COUNTY, NEW MEXICO

OPERATOR Well No.	LOCATION Sec., Township, Range	ELEVATION D.F. (Feet)	TOTAL DEPTH (Feet)	CASING PROGRAM			PRODUCING INTERVAL (Feet)	REMARKS:
				Size (Inches)	Depth (Ft)	Cement (Sacks)		
Pan American State "Y" #11	2310 FNL & 660 FWL 32-24S-38E	3197	6927	13 3/8 9 5/8 5 1/2	318 3150 6682	290 290 236	(Circ.) Perf 6169-6602 OH 6682-6927	Convert to MW
Sinclair State 283 #3	330 FNL & 330 FEL 6-25S-38E	3116	6840	13 3/8 8 5/8 5 1/2	307 3149 6840	325 1475 578	Perf 6382-6805	
Mc Clure #1	330 FSL & 990 FEL 30-24S-38E	3141	6800	13 3/8 8 5/8 5 1/2	285 3200 6529	300 750 600	Perf 6395-6470 OH 6529-6800	Convert to MW
#2	2310 FNL & 1980 FEL 30-24S-38E	3141	6850	13 8 5/8 5 1/2	293 3174 6699	300 1600 700	Perf 6510-6510 OH 6699-6850	
#4	330 FSL & 1980 FEL 30-24S-38E	3125	6960	13 3/8 8 5/8 5 1/2	301 3131 6959	300 1500 450	Perf 6396-6730	
#5	1650 FSL & 1980 FEL 30-24S-38E	3136	6850	13 3/8 8 5/8 5 1/2	308 3156 6849	300 1650 550	Perf 6459-6810	Convert to MW
#6	1650 FSL & 660 FEL 30-24S-38E	3175	6885	13 3/8 8 5/8 5 1/2	257 3064 6638	280 1500 590	Perf 6503-6585 OH 6638-6885	
#8	2310 FNL & 660 FEL 30-24S-38E	3178	6875	13 3/8 8 5/8 5 1/2	283 3149 6874	275 1813 580	Perf 6555-6866	Convert to MW

WELL COMPLETION DATA
DOLARHIDE TUBE-DRINKARD
PROPOSED UNIT
LEA COUNTY, NEW MEXICO

OPERATION Well No.	LOCATION Sec., Township, Range	ELEVATION D.F. (Feet)	TOTAL DEPTH (Feet)	CASING PROGRAM				PRODUCING		REMARKS:
				Size (Inches)	Depth (Ft)	Cement (Sacks)		INTERVAL (Feet)		
<u>Sinclair</u>										
McClure #14	990 FNL & 990 FEL 30-24S-38E	3184	6900	13 3/8 8 5/8 5 1/2	305 3200 6900	275 1600 440				Perf 6623-6835
	990 FNL & 1650 FEL 30-24S-38E	3173	6900	13 3/8 8 5/8 5 1/2	305 3210 6899	300 1700 500				Perf 6604-6704 Convert to WIM
	#17	330 FSL & 1980 FEL 19-24S-38E	3157	6900	8 5/8 5 1/2	3225 6900	2100 525			
#18	330 FSL & 990 FEL 19-24S-38E	3181	6900	9 5/8 5 1/2	3325 6900	1500 550				Perf 6675-6738 Convert to WIM
#19	1650 FSL & 1980 FEL 19-24S-38E	3180	6900	8 5/8 5 1/2	3254 6899	800 525				(Circ.) Perf 6670-6723 Convert to WIM Drk-Qn Dual Model D 6600'
#20	2310 FNL & 2310 FEL 19-24S-38E	3180	6900	8 5/8 5 1/2	3224 6899	1000 525				(Circ.) Perf 6662-6895 Drk-Qn Dual Model D 6550'
#21	990 FNL & 2310 FEL 19-24S-38E	3181	6900	8 5/8 5 1/2	3234 6900	1000 550				(Circ.) Perf 6666-6724 Convert to WIM
Vance #1	330 FSL & 2310 FNL 30-24S-38E	3109	6525	13 3/8 8 5/8 5 1/2	340 3099 6524	320 1000 650				Perf 6415-6480 Convert to WIM
	1980 FSL & 2310 FNL 30-24S-38E	3110	7000 PB 6808	13 3/8 8 5/8 5 1/2	304 3163 6837	300 2900 450				Perf 6470-6710
	<u>Skelly</u>									
Mexico "J" #7	2310 FSL & 510 FNL 32-24S-37E	3154	6850	13 3/8 8 5/8 5 1/2	250 3150 6850	250 1600 450				(Circ.) Perf 6086-6768 Convert to WIM Page No. 5

WELL COMPLETION DATA
DOLLARHIDE TUBB-DRINKARD
PROPOSED UNIT
LEA COUNTY, NEW MEXICO

OPERATOR	LOCATION	ELEVATION	TOTAL DEPTH	CASING PROGRAM	PRODUCING	REMARKS:
Well No.	Sec., Township, Range	D.F. (Feet)	(Feet)	Size (Inches) Depth (Feet) Cement (Sacks)	INTERVAL (Feet)	
<u>Skelly</u>						
Mexico "J" #9	1980 FSL & 1980 FSL 32-24S-38E	3195	6902	13 3/8 250 9 5/8 3150 5 1/2 6902	250 250 1800 450	(Circ.) Perf 6137-6850 Convert to WIN
#10	1980 FSL & 1980 FSL 32-24S-38E	3177	6878	13 3/8 250 9 5/8 3150 5 1/2 6878	250 250 1800 450	(Circ.) Perf 6120-6940
#15	510 FEL & 2130 FSL 32-24S-38E	3193	6915	8 5/8 3150 5 1/2 6610	1800 450	(Circ.) Perf 6174-6572 OH 6610-6915
#16	510 FEL & 810 FSL 32-24S-38E	3180	6900	8 5/8 3150 5 1/2 6565	2000 450	(Circ.) Perf 6121-6516 OH 6565-6900 Convert to WIN
#19	2130 FEL & 510 FSL 32-24S-38E	3166	6900	8 5/8 3150 5 1/2 6500	2000 450	(Circ.) Perf 6057-6468 OH 6500-6900
#20	660 FSL & 1830 FSL 32-24S-38E	3157	6890	8 5/8 3150 5 1/2 6490	2000 450	(Circ.) Perf 6050-6461 OH 6490-6890 Convert to WIN
#21	660 FSL & 660 FSL 32-24S-38E	3147	6860	8 5/8 3150 5 1/2 6460	2000 450	(Circ.) Perf 6049-6436 OH 6460-6860
Mexico "K" #1	660 FEL & 660 FSL 29-24S-38E	3219	9177 PB 6960	13 5/8 300 9 5/8 3250 5 1/2 8221	300 1800 700	(Circ.) (Circ.) Perf 6333-6940 Convert to WIN
#2	660 FSL & 660 FSL 29-24S-38E	3181	6900	13 3/8 250 9 5/8 3150 5 1/2 6900	250 1600 450	(Circ.) Perf 6410-6878
#4	660 FSL & 1980 FSL 29-24S-38E	3217	6938	8 5/8 1280 5 1/2 6850	400 450	(Circ.) Perf 6256-6833 OH 6850-6938 Convert to WIN
#5	1980 FEL & 660 FSL 29-24S-38E	3216	6940	13 3/8 250 9 5/8 3150 5 1/2 6940	250 1800 450	(Circ.) Perf 6298-6933

WELL COMPLETION DATA
DOLLARHIDE TUBE-DRAINARD
PROPOSED UNIT
LEA COUNTY, NEW MEXICO

OPERATION Well No.	LOCATION Sec., Township, Range	ELEVATION D.F. (Feet)	TOTAL DEPTH (Feet)	CASING PROGRAM			PRODUCING INTERVAL (Feet)	REMARKS
				Size (Inches)	Depth (Feet)	Cement (Sacks)		
Skelly Mexico "K" #6				13 3/8	250	250	(Circ.)	
		1980 FSL & 660 FWL	3186	9 5/8	3150	1800	Perf 6521-6774	
		29-24S-38E		5 1/2	6790	450	OH 6790-6905	Convert to WIN
	#8	2060 FSL & 1980 FWL	3220	8 5/8	3150	1800	Perf 6610-6720	
		29-24S-38E		5 1/2	6740	450	OH 6740-6940	
	#9	1980 FSL & 1980 FSL	3221	8 5/8	3150	2000	Perf 6417-6588	
		29-24S-38E		5 1/2	6636	450	OH 6636-6935	Convert to WIN
	#10	660 FSL & 1980 FSL	3219	8 5/8	3150	1900	Perf 6467-6550	
		29-24S-38E		5 1/2	6640	450	OH 6640-6930	
	#12	1980 FSL & 660 FWL	3200	8 5/8	3150	2000	Perf 6328-6722	
		29-24S-38E		5 1/2	6830	450	OH 6830-6910	
	#13	1980 FSL & 1980 FWL	3235	8 5/8	3150	2000	Perf 6720-6760	
		29-24S-38E		5 1/2	6850	450	OH 6850-6970	Convert to WIN
	#14	1980 FSL & 1980 FSL	3223	8 5/8	3150	2000	Perf 6740-6760	
		29-24S-38E		5 1/2	6870	200		
	#15	990 FSL & 330 FWL	3212	8 5/8	3150	2000	Perf 6656-6727	
		29-24S-38E		5 1/2	6810	450	OH 6810-6950	Convert to WIN
	Mexico "L" #14	516 FSL & 1830 FWL	3144	8 5/8	3150	800	Perf 6078-6433	
		5-25S-38E		5 1/2	6460	450	OH 6460-6860	
		666 FSL & 660 FWL	3130	8 5/8	3153	2000	Perf 6043-6190	Convert to WIN
		5-25S-38E		5 1/2	6300	450	OH 6300-6850	
	#16	510 FSL & 810 FSL	3170	8 5/8	3150	2000	Perf 6065-6500	
				5 1/2	6540	450	OH 6540-6890	
	#17	810 FSL & 2130 FSL	3159	8 5/8	3150	2000	Perf 6048-6430	
		5-25S-38E		5 1/2	6480	450	OH 6480-6880	Convert to WIN

WELL COMPLETION DATA
DOLLARHIDE TUBB-DRINKARD
PROPOSED UNIT
LEA COUNTY, NEW MEXICO

OPERATION Well No.	LOCATION Sec., Township, Range	ELEVATION D.F. (Feet)	TOTAL DEPTH (Feet)	CASING PROGRAM Size (Inches) Depth (Ft) Cement (Sacks)	PRODUCING INTERVAL (Feet)	REMARKS
Skelly Mexico "L" #18	1656 FNL & 990 FEL 5-25S-38E	3171	6880	8 5/8 5 1/2 3150 2000 6420 450	(Circ.)	Perf 6109-6320 OH 6420-6880 Convert to WIA
	1656 FNL & 1980 FEL	3159	6870	8 5/8 5 1/2 3150 2000 6385 450	(Circ.)	Perf 6085-6293 OH 6385-6870
	1662 FNL & 2130 FNL 5-25S-38E	3143	6870	8 5/8 5 1/2 3150 2000 6375 450		Perf 6067-6234 OH 6375-6870 Convert to WIA
	1650 FNL & 990 FNL 5-25S-38E	3130	6860	8 5/8 5 1/2 3150 2000 6355 450		Perf 6104-6274 OH 6355-6860
	#21					
Sunshine Royalty Elliott Fed. #1	1650 FNL & 2310 FNL 31-24S-38E	3114	6574	13 3/8 8 5/8 195 160 2998 450 6411 550	(Circ.)	OH 6411-6574 Convert to WIA
	660 FNL & 1981 FSL 19-24S-38E	3142	6686	13 3/4 9 5/8 324 350 3675 2300 6386 200	(Circ.)	Perf 6632-6666 Drk-Qn Dual
Texaco Byers #1	1980 FSL & 660 FEL 31-24S-38E	3138	8735 PB 7755	13 3/8 9 5/8 320 2200 3498 1162 8705	(Circ.)	Perf 6076-6724 Drk-Dev Dual Model "D" 7365
	2090 FSL & 1650 FEL 31-24S-38E	3125	6800	13 3/8 8 5/8 321 320 3780 1900 6642 500	(Circ.)	Perf 6122-6314 OH 6642-6800 Convert to WIA
#5	660 FSL & 560 FEL 31-24S-38E	3128	6800	13 3/8 5 1/2 333 300 6580 800	(Circ.)	Perf 6112-6544 OH 6580-6800 Convert to WIA
	#7					
#8	2312 FSL & 2309 FNL 31-24S-38E	3127	6800	13 3/8 8 5/8 350 400 3680 2100 6700 700	(Circ.)	Perf 6273-6608 OH 6700-6880

WELL COMPLETION DATA
DOLARHIDE TUBE-DRINKARD
PROPOSED UNIT
LEA COUNTY, NEW MEXICO

OPERATOR	LOCATION	ELEVATION	TOTAL DEPTH	CASING PROGRAM	PRODUCING	REMARKS
Well No.	Sec., Township, Range	D.F. (Feet)	(Feet)	Size (Inches) Depth (Feet) Cement (Sacks)	INTERVAL (Feet)	
Texaco						
Penny #6	2323 FSL & 660 FEL 5-25S-38E	3144	6875	13 3/8 330 400 8 5/8 3910 2200 5 1/2 6450 700	OH 6450-6875	
Royalty Hold ng #1	1700 FNL & 984 FWL 19-24S-38E	3155	6830 PB 6810	13 3/8 385 400 8 5/8 3235 2000 5 1/2 6830 550	(Circ.) (Circ.)	Drk-Qn Dual Model D 6500'
Stevens Est. #1	990 FNL & 2305 FWL 19-24S-38E	3174	6815 PB 6805	13 3/8 376 400 8 5/8 3253 2000 5 1/2 6815 400	(Circ.)	Model D 6550' Drk-Qn Dual
#2	660 FNL & 660 FWL 19-24S-38E	3167	6820 PB 6798	13 3/8 356 400 8 5/8 3249 2000 5 1/2 6820 400	(Circ.)	Model D 6550' Convert to WTW Drk-Qn Dual
United Royalty "A" #3	2310 FNL & 2310 FWL 19-24S-38E	3186	6875	13 3/8 389 400 8 5/8 3245 2000 5 1/2 6875 400	(Circ.)	Convert to WTW Drk-Qn Dual Model D 6530'
#4	1980 FSL & 2310 FNL 19-24S-38E	3174	6855	13 3/8 352 400 8 5/8 3250 2000 5 1/2 6855 400	(Circ.)	Drk-Qn Dual Model D 6540'
#5	660 FSL & 2305 FWL 19-24S-38E	3157	6850	13 3/8 374 400 8 5/8 3250 2000 5 1/2 6849 400	(Circ.)	Perf 6664-6708 Convert to WTW

BEFORE EXAMINER UTZ
OIL CONTAMINATION COMMISSION
WELL DATA
CASE NO.

SKELLY OIL CO.

EXHIBIT NO. E
DOCKET OR
CASE NO. 4134

DOLLAR PER TON - INTEREST

DATE 5-21-69

OPERATOR LEASE AND WELL NUMBER	COMPLETION DATE	OIL PRODUCTION RATE		CUMULATIVE OIL PRODUCTION TO 1 - 1 - 69
		INITIAL	B/D CURRENT Feb. Prod.	
ELLIOTT Federal "H"	2	12-20-52	456	185,063
	6	9-28-53	240	132,772
	7	2-3-54	336	131,693
ELLIOTT & HALL Elliott "R"	1	9-11-52	264	212,659
	2	11-2-53	168	104,948
GULF Leonard "G"	10	5-25-53	561	189,074
	11	8-3-53	458	193,695
	12	7-23-53	712	186,640
	13	7-30-53	278	169,888
	14	9-16-53	667	199,268
	15	9-9-53	336	221,908
	19	7-21-54	232	133,421
	20	10-14-54	592	101,723
	21	9-15-54	93	134,581
	23	3-1-56	144	124,695
GULF Ramsay NCT-D	1	2-17-53	367	118,140
	2	5-22-53	168	91,792
	3	8-5-57	P 19	36,632
GULF Leonard "H"	2	4-12-53	492	113,156
	2	5-29-53	220	100,523
RALPH LOWE Hair	1	3-6-53	P 117	40,863
	2	6-12-58	P 105	28,116
PAN AMERICAN State "Y"	2	12-24-52	156	270,648
	3	4-2-53	99	252,019
	5	5-27-53	124	241,617
	6	7-23-53	207	231,619
	8	1-7-54	124	251,291
	9	2-13-54	131	220,132
	10	3-24-54	104	205,230
	11	5-2-54	133	220,324
SINCLAIR State 263 Mc Clure	3	6-28-54	120	58,346
	1	4-2-53	335	169,654
	2	6-13-53	288	200,824
	4	8-1-53	384	146,216
	5	9-24-53	320	165,839
	6	2-16-54	338	160,830
	8	6-17-54	432	139,546
	14	6-24-55	134	122,695
	16	4-8-56	230	144,060
	17	5-30-56	135	172,361
	18	8-4-56	169	140,085
	19	11-15-56	141	126,800
	20	1-26-57	348	134,838
	21	4-1-57	156	134,059

SUPPLEMENTAL

WELL DATA

DOLLAHIDE TUBB-DRINKARD

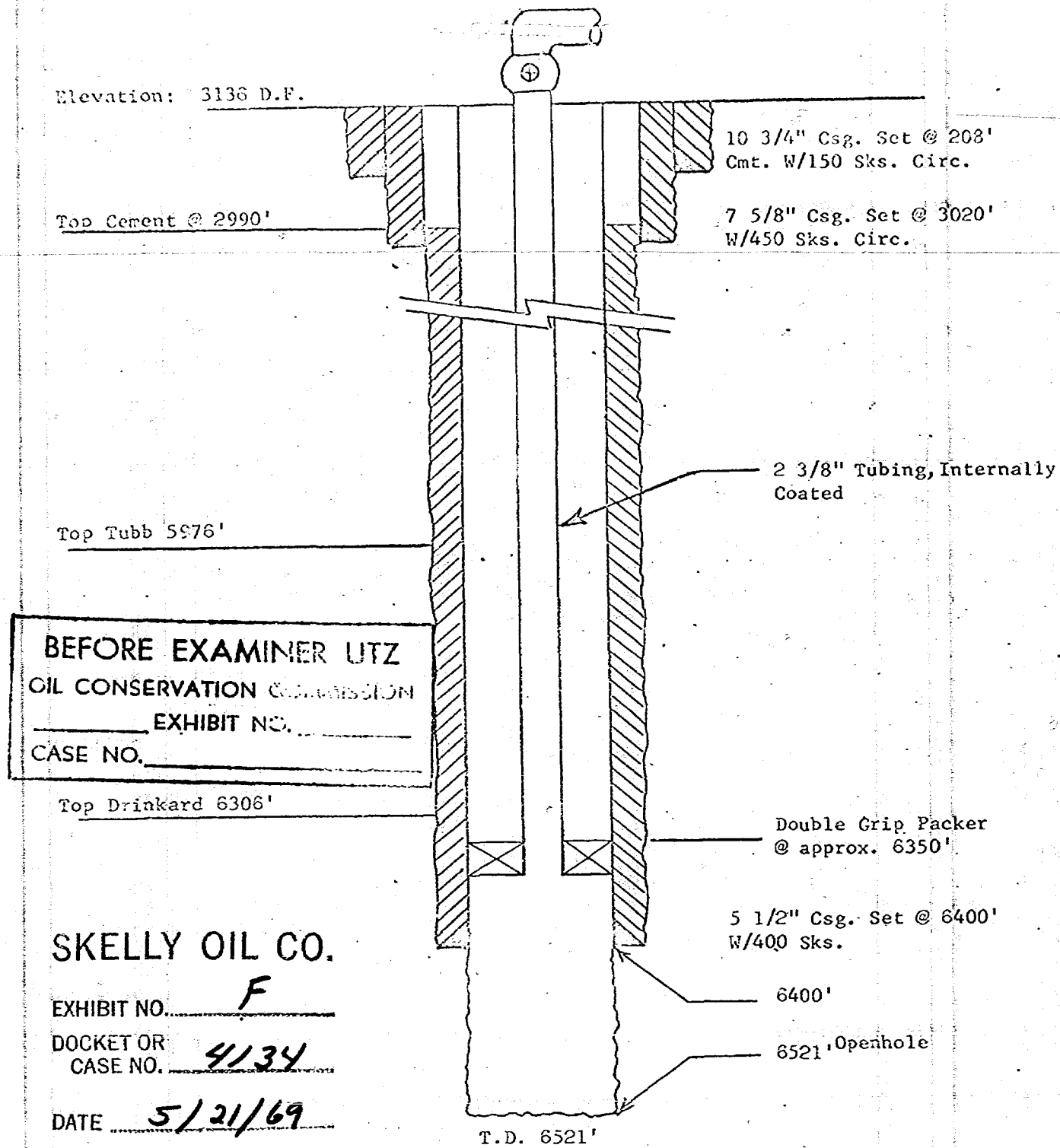
OPERATOR LEASE AND WELL NUMBER		COMPLETION DATE	OIL PRODUCTION RATE		CUMULATIVE OIL PRODUCTION TO 1 - 1 - 69
			INITIAL	B/D CURRENT Feb. Prod.	
SINGLARS Vance	1	5-4-53	68	2.2	49,140
	2	7-18-53	228	5.8	89,493
SKEELLY Mexico "J"	7	4-2-53	211	13.6	262,686
	9	11-23-53	777	19.4	276,241
	10	9-19-53	912	19.4	270,955
	15	12-9-53	211	14.6	240,928
	16	12-10-53	346	22.3	284,112
	19	4-21-54	352	18.5	249,307
	20	5-19-54	225	11.6	222,435
	21	5-15-54	365	11.7	205,378
	1	12-1-51	139	7.0	143,268
	2	5-13-53	720	6.0	174,593
Mexico "K"	4	10-24-53	412	9.0	201,740
	5	9-9-53	309	9.0	185,379
	6	11-11-53	305	9.0	205,932
	8	12-7-53	257	9.0	160,048
	9	12-9-53	247	9.0	136,809
	10	12-24-53	P 94	8.0	88,983
	12	3-22-54	133	8.0	150,903
	13	3-8-54	640	9.0	166,335
	14	7-11-54	208	9.0	102,721
	15	5-22-56	396	9.0	131,270
Mexico "L"	14	12-11-53	270	8.7	195,983
	15	12-7-53	197	4.9	135,554
	16	4-5-54	204	9.8	173,124
	17	4-11-54	268	15.5	201,226
	18	5-24-54	244	7.8	170,873
	19	5-21-54	205	7.8	172,126
	20	11-3-54	238	4.9	143,318
	21	11-26-54	211	4.9	133,548
SUNSHINE ROYALTY Elliott Fed	1	12-6-53	408	4.5	72,993
TEXACO Byers	1	10-5-53	P 38	SI	8,286
Mc Gee	1	9-24-52	69	6.0	129,586
	6	6-29-53	196	6.0	100,737
	7	11-10-53	139	5.3	88,212
	8	4-26-54	P 44	2.3	35,533
Penny	6	6-22-55	36	-0-	28,010
Royalty Holding	1	10-17-57	184	6.1	49,642
Stephens	1	8-15-57	180	15.5	137,698
	2	12-22-57	131	5.3	45,284
United Royalty "A"	3	5-3-57	71	5.1	57,766
	4	6-30-57	90	8.4	97,219
	5	11-18-57	114	8.4	60,959

L2H/bh

May, 19, 1969

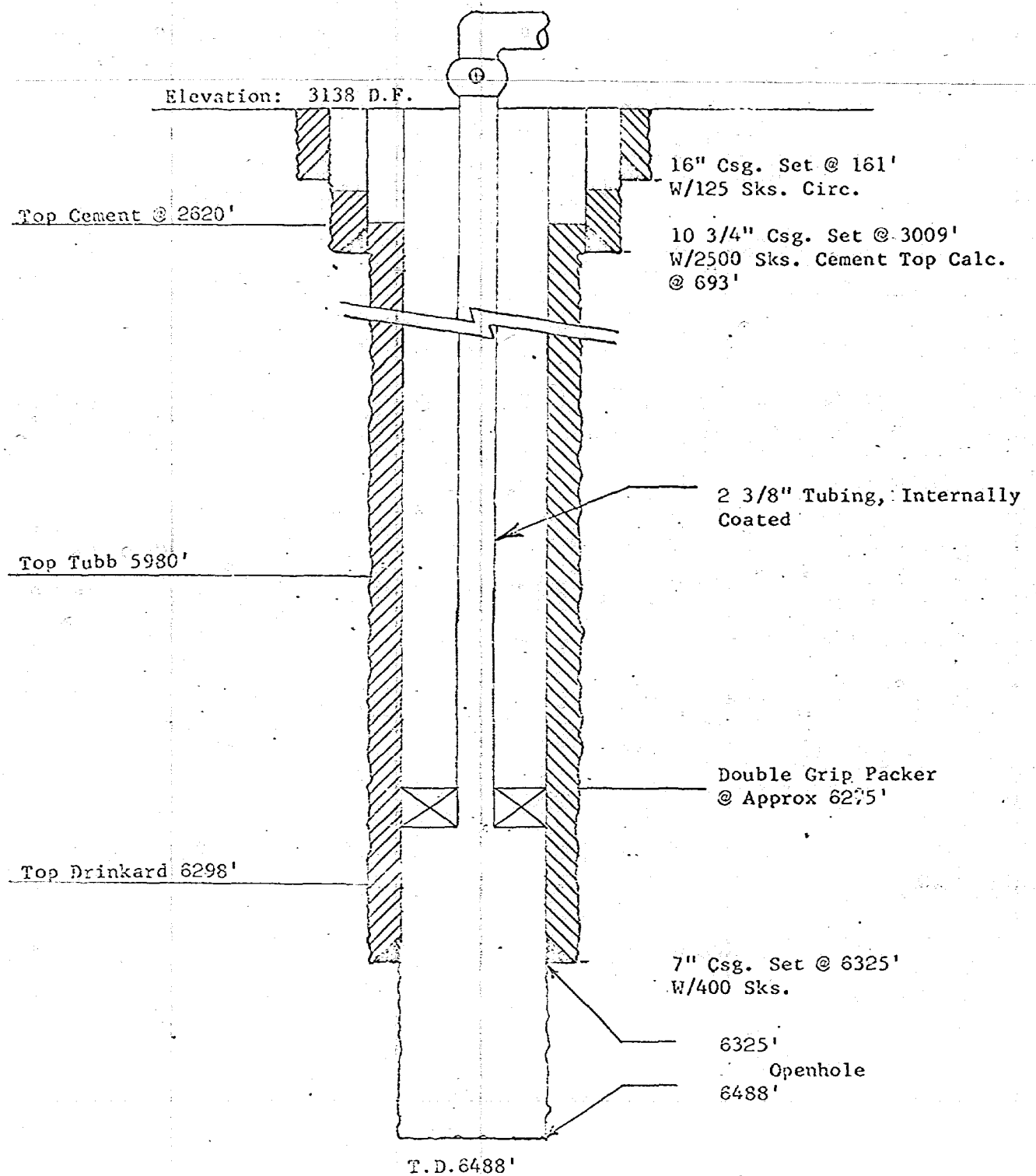
PROPOSED DOLLARIDE DRINKARD UNIT

ELLIOTT & ELLIOTT, INC.
Federal "H" Well No. 7
480' FN. & 1850' FEL, Section 31, T 24 S, R 38 E
Lea County, New Mexico



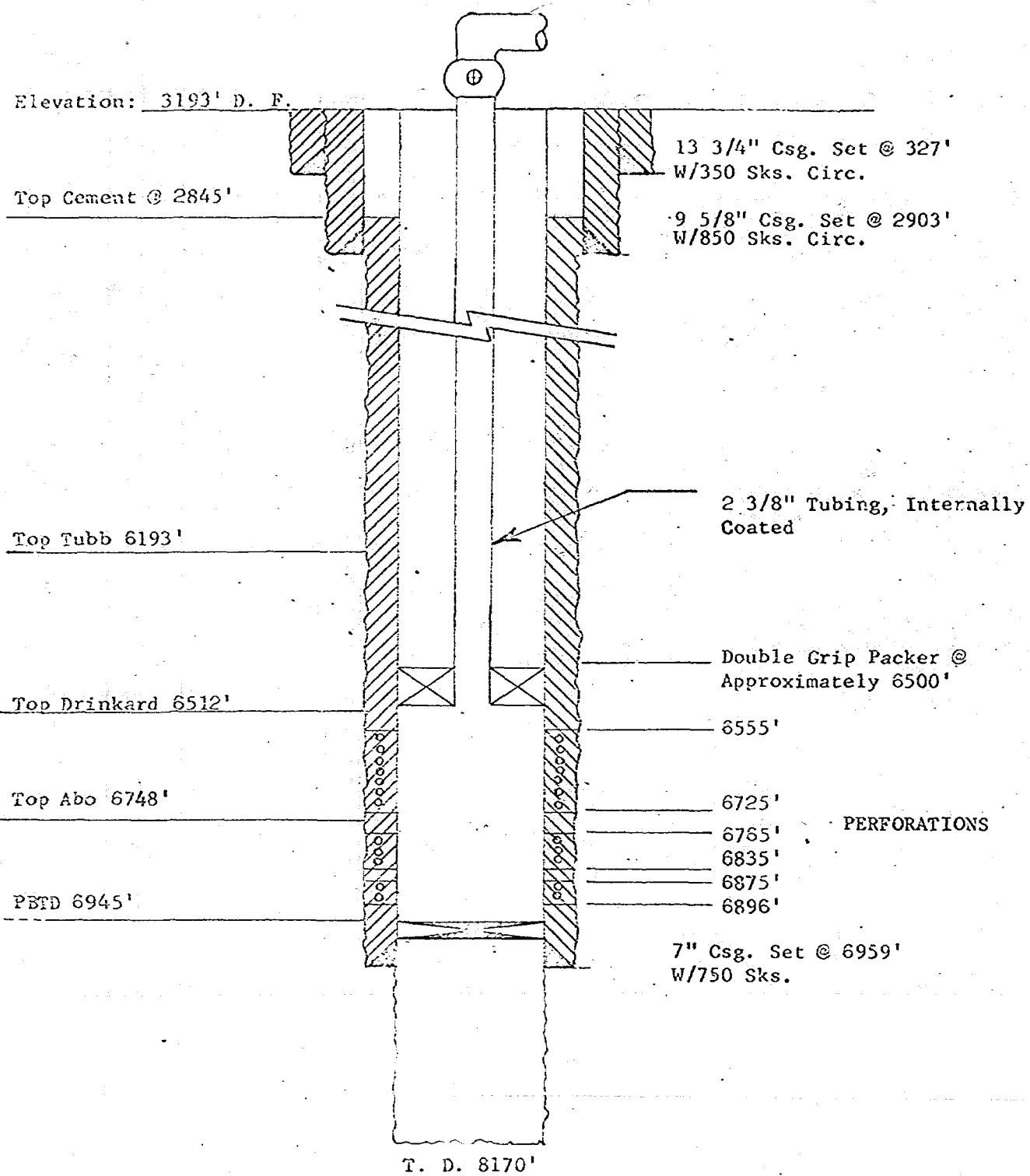
PROPOSED DOLLASHIDE DRINKARD UNIT

ELLIOTT AND HALL
ELLIOTT "R" WELL NO. 1
2310' FNL & 330' FEL, Section 31-24S-38E
Lea County, New Mexico



PROPOSED DOLLARHIDE DRINKARD UNIT

GULF OIL CORPORATION
LEONARD "G" WELL NO. 11
990' FNL & 990' FWL, Section 33-24 S- 38 E
Lea County, New Mexico



PROPOSED DOLLARHIDE DRINKARD UNIT

GULF OIL CORPORATION
LEONARD "C" WELL NO. 12
1980' FNL & 630' FEL, Section 4, T 25 S, R 38 E
Lea County, New Mexico

Elevation: 3167' R.B.

D. V. Tool @ 1254'
Cement Circ. above
Tool. (Calc.)

10 3/4" Csg. Set @ 299'
W/300 Sks. Circ.

Top Cement @ 2472'.
Below D. V. Tool. (Calc.)

2 3/8" Tubing, Internally
Coated.

Top Tubb 6147'

Double Grip Packer
@ Approx. 6250'

Top Drinkard 6458'

7" Csg. Set @ 6309'
W/1010 Sks.

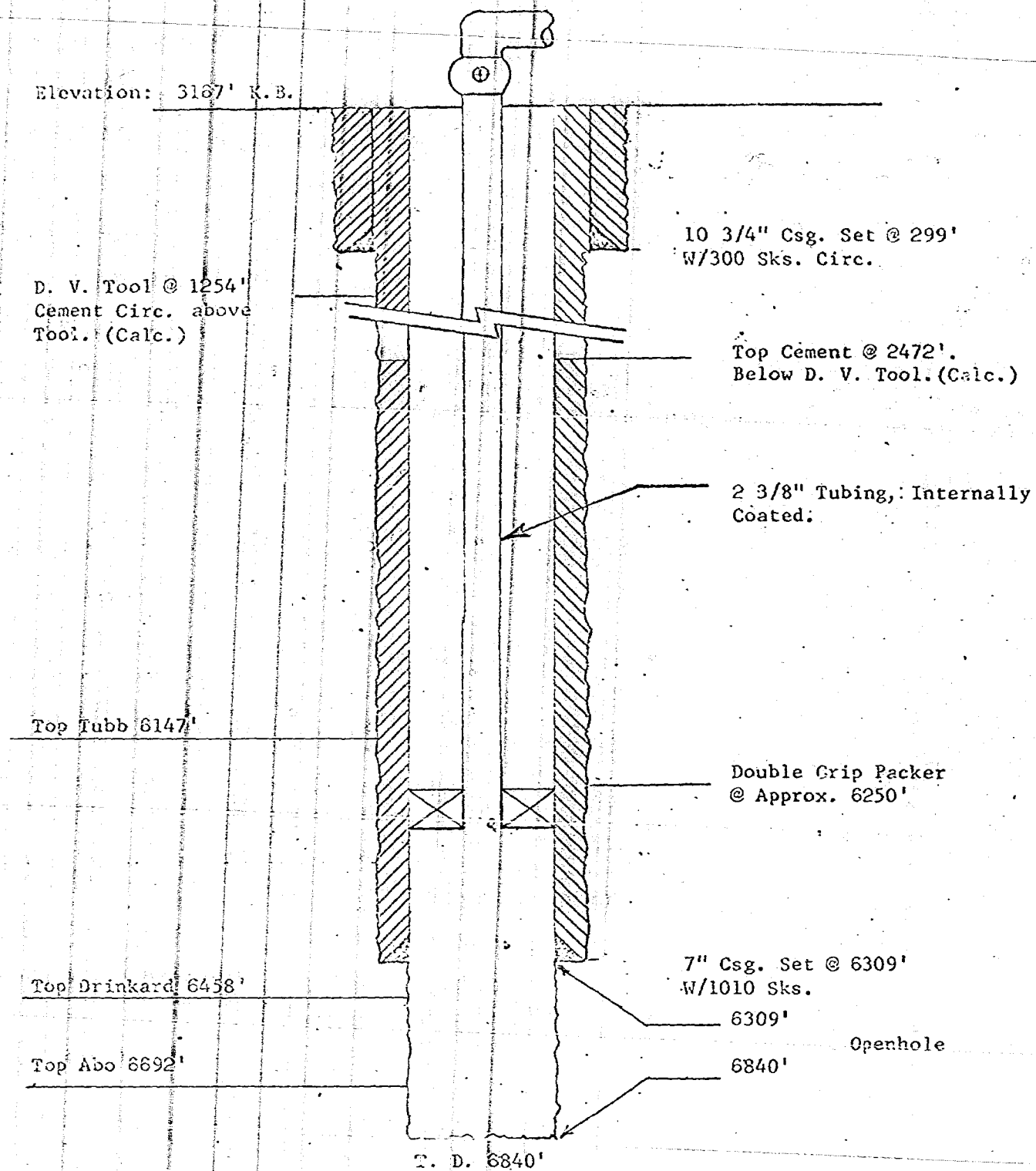
Top Abo 6692'

6309'

Openhole

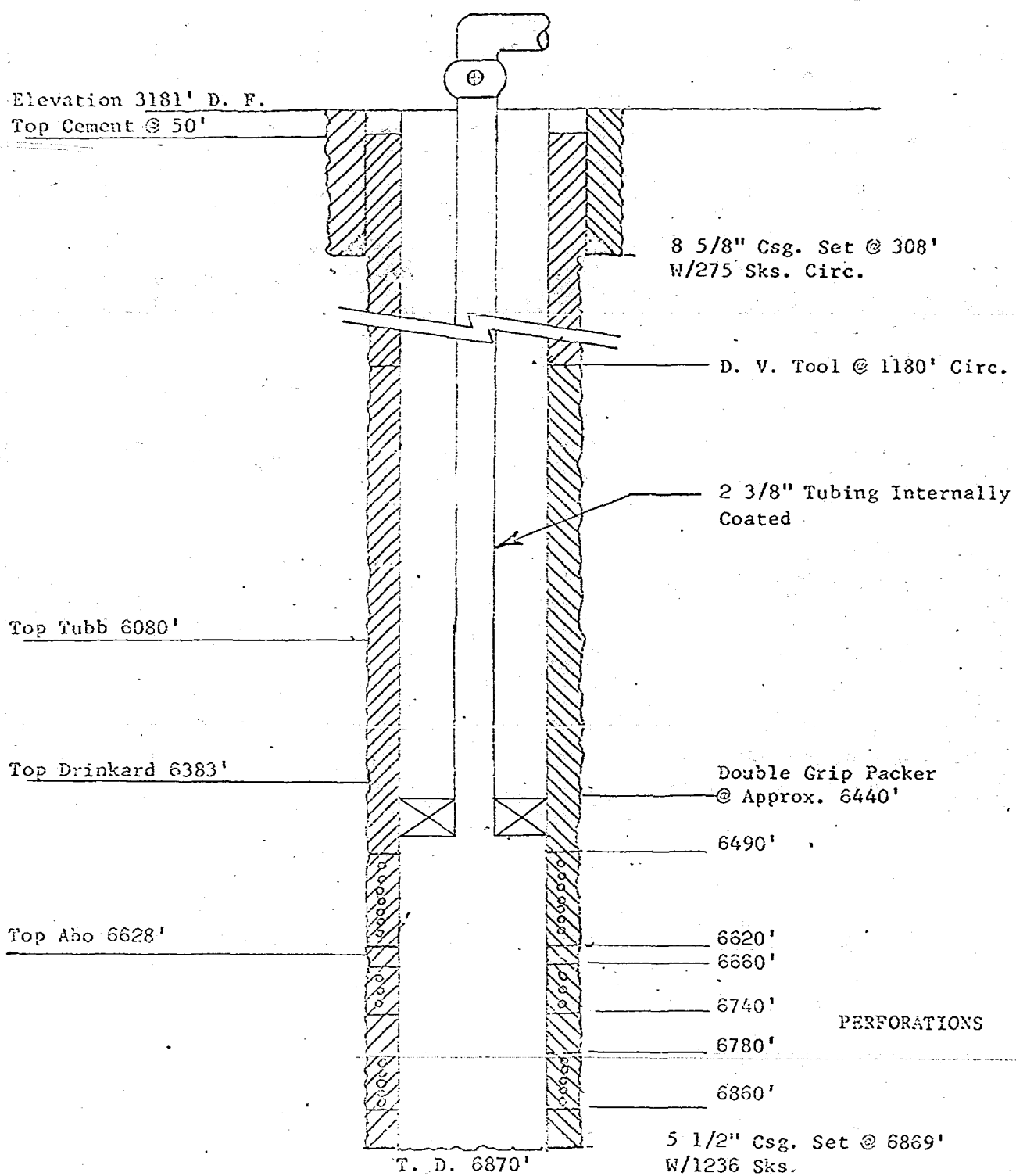
6840'

T. D. 6840'



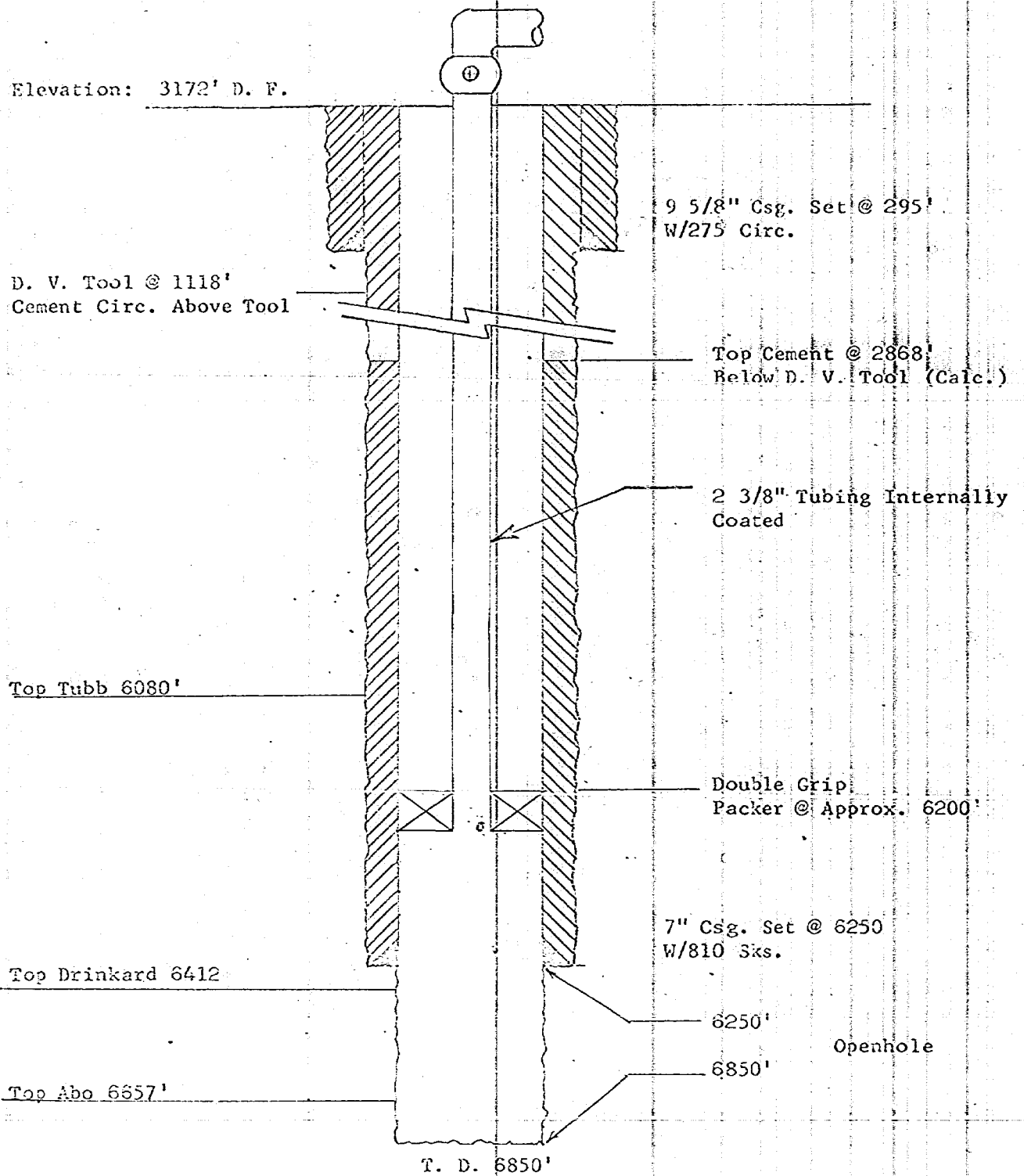
PROPOSED DOLLARHIDE DRINKARD UNIT

GULF OIL CORPORATION
LEONARD "G" WELL NO. 14
1980' FSL & 660' FWL, Section 33, T 24 S, R 38 E
Lea County, New Mexico



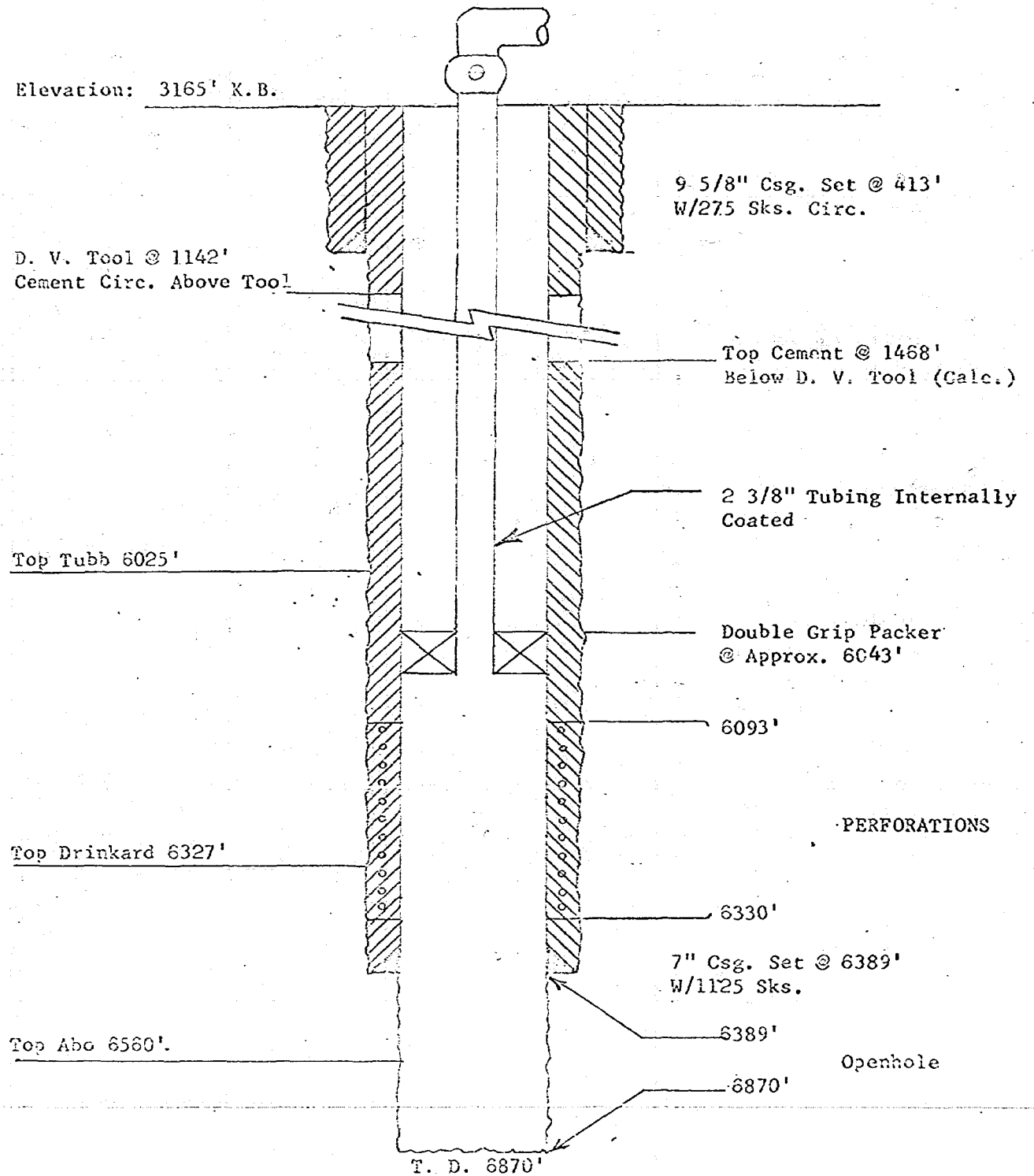
PROPOSED DOLLARHIDE DRINKARD UNIT

GULF OIL CORPORATION
LEONARD "G" WELL NO. 15
560' FSL & 781' FEL, Section 33, T 24 S, R 38 E
Lea County, New Mexico



PROPOSED DOLLARHIDE DRINKARD UNIT

GULF OIL CORPORATION
LEONARD "G" WELL NO. 19
990' FNL & 330' FWL, Section 4, T 25 S, R 38 E
Lea County, New Mexico



PROPOSED DOLLARHIDE DRINKARD UNIT

GULF OIL CORPORATION
LEONARD "I" WELL NO. 2
629' FEL & 1980' FNL, Section 33, T 24 S, R 38 E
Lea County, New Mexico

Elevation: 3198' K.B.

Top Cement @ 297

10 3/4" Csg. Set @ 320'
W/225 Sks. Calc. Top Cement
@ 35'

2 3/8" Tubing Internally
Coated

Top Tubb 6150'

Double Grip Packer @
Approx. 6229'

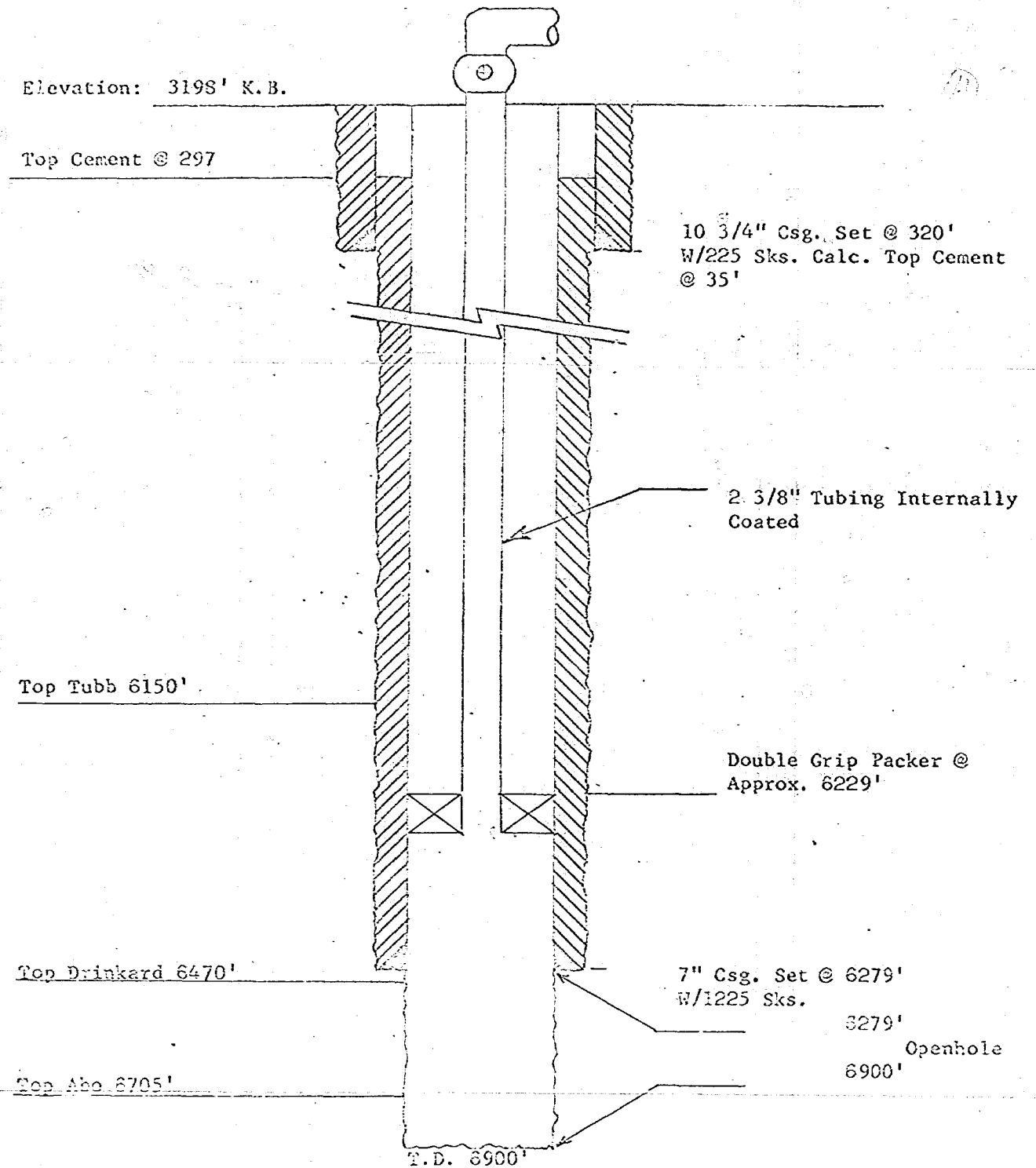
Top Drinkard 6470'

7" Csg. Set @ 6279'
W/1225 Sks.

6279'
Openhole
6900'

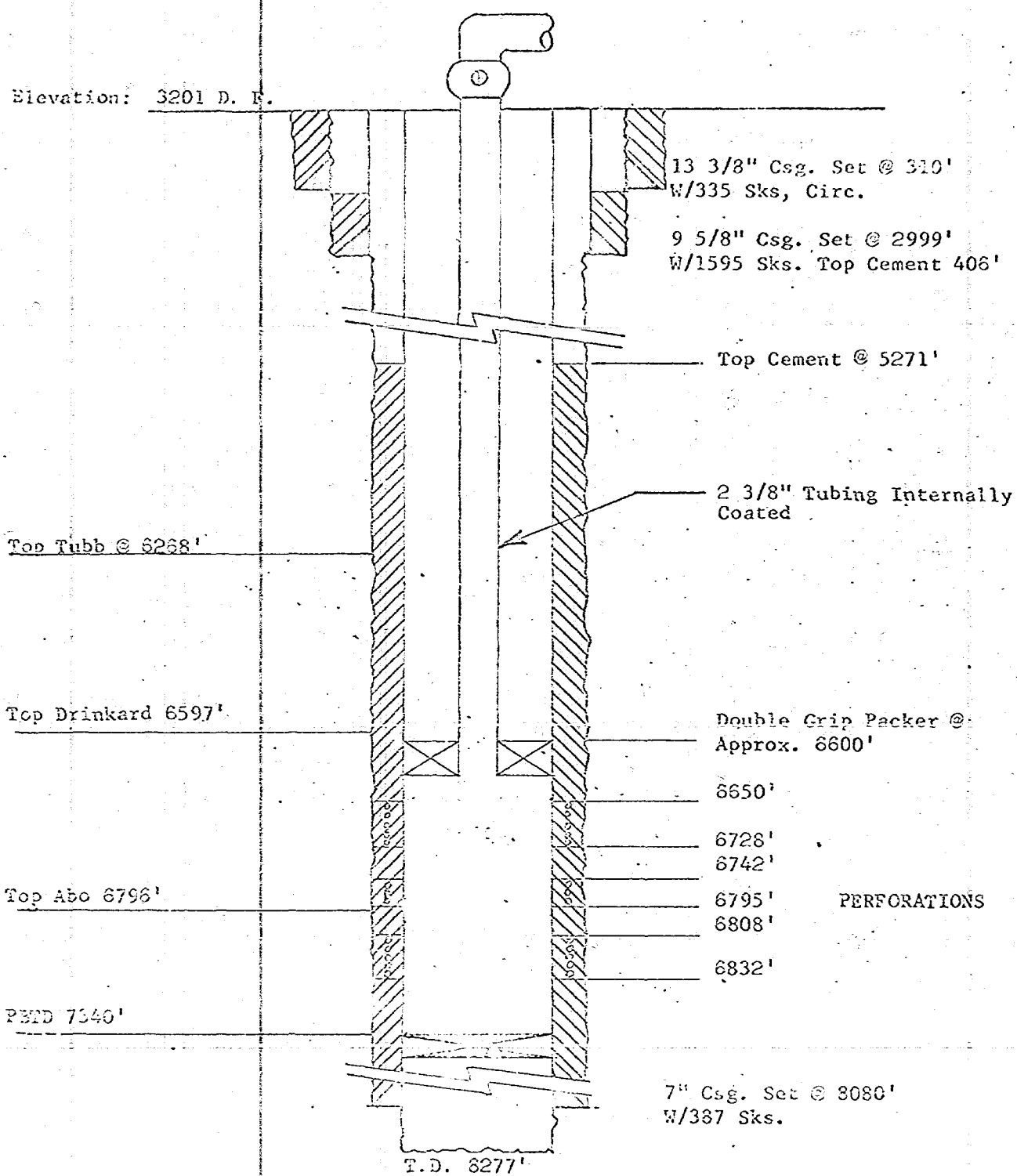
Top Abc 6705'

T.D. 6900'



PROPOSED DOLLARHIDE DRINKARD UNIT

GULF OIL CORPORATION
W. A. RAMSAY "D" WELL NO. 2
660' FSL & 779' FEL, Section 28, T 24 S, R 38 E
Lea County, New Mexico



PROPOSED DOLLARHIDE DRINKARD UNIT

RALPH LOWE
F. HAIR WELL NO. 1
1980' FNL & 1980' FWL, Section 30, T 24 S, R 38 E
Lea County, New Mexico

Elevation: 3124' D.F.

Top Cement @ 3065'

10 3/4" Csg. Set @ 340'
W/200 Sks. Circ.

7 5/8" Csg. Set @ 3650'
W/1700 Sks. Top Cement 829' (Calc.)

2 3/8" Tubing Internally
Coated

Top Tub @ 6150'

Double Grip Packer
@ Approx. 6495'

Top Drinkard 6428'

5 1/2" Csg. Set @ 6545'
W/325 Sks.

6545'

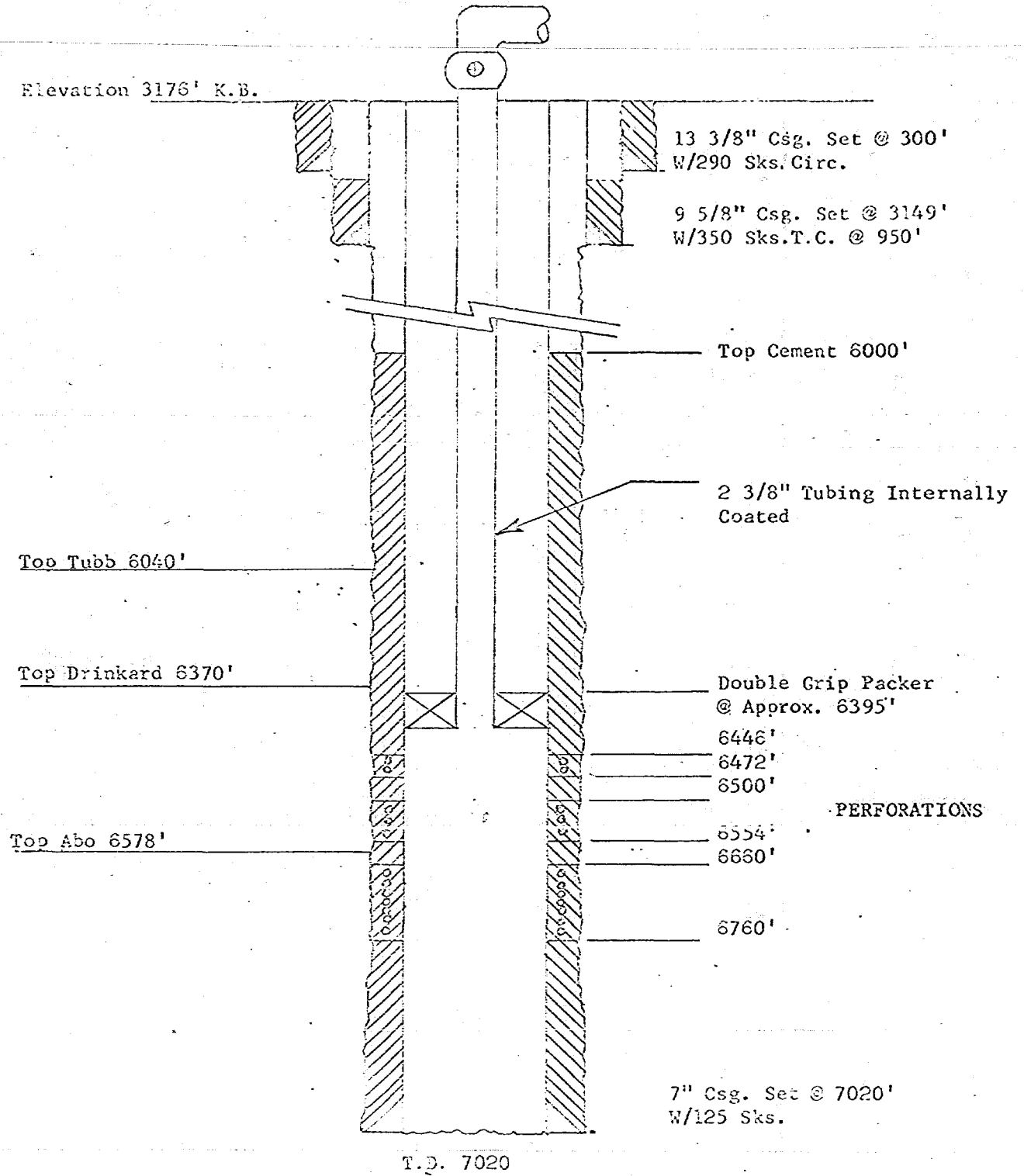
Openhole

6626'

T.D. 6626'

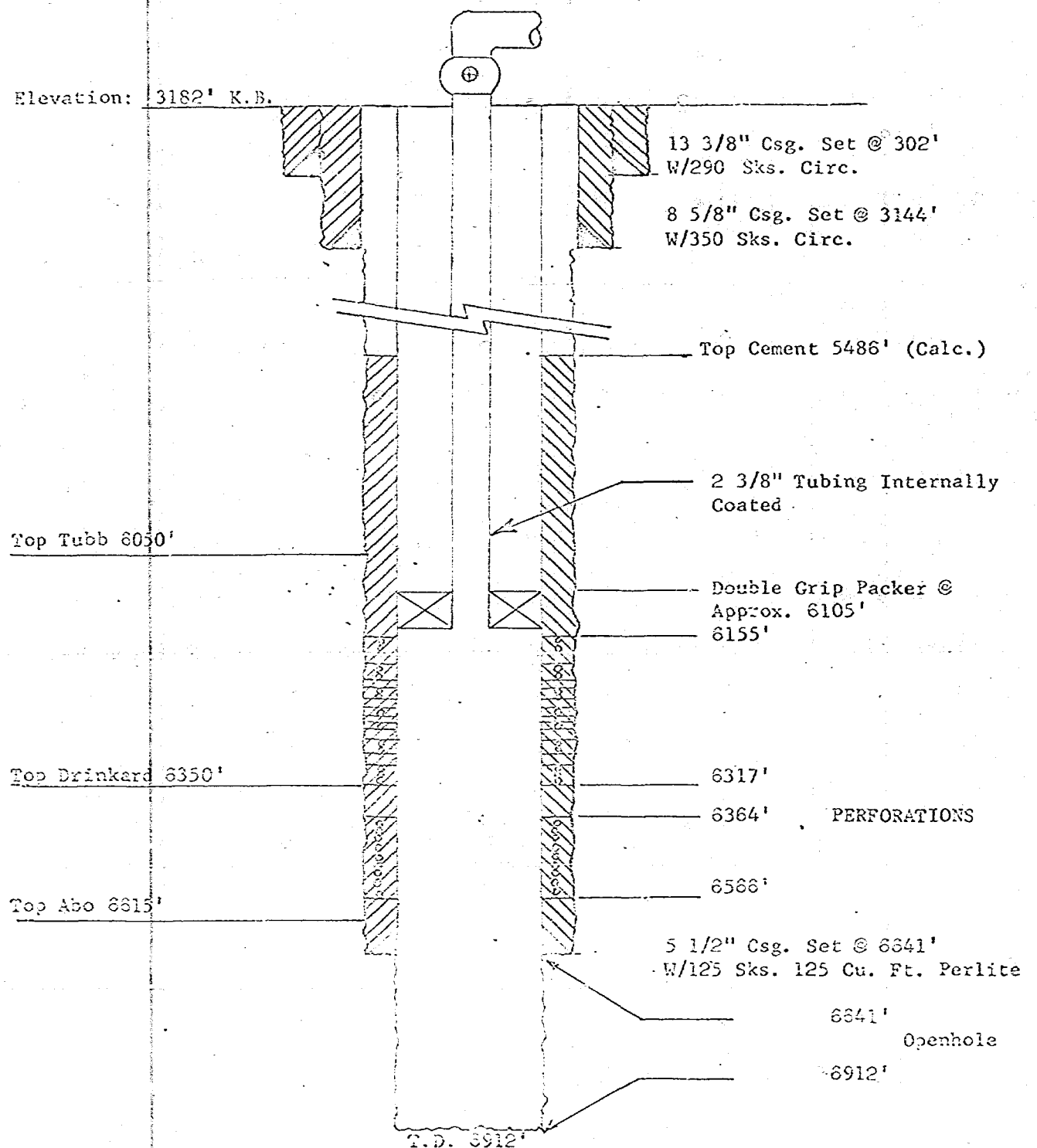
PROPOSED DOLLARHIDE DRINKARD UNIT

PAN AMERICAN PETROLEUM CORPORATION
 STATE "Y" WELL NO. 6
 660' FNL & 660' FNL, Section 32, T 24 S, R 38 E
 Lea County, New Mexico



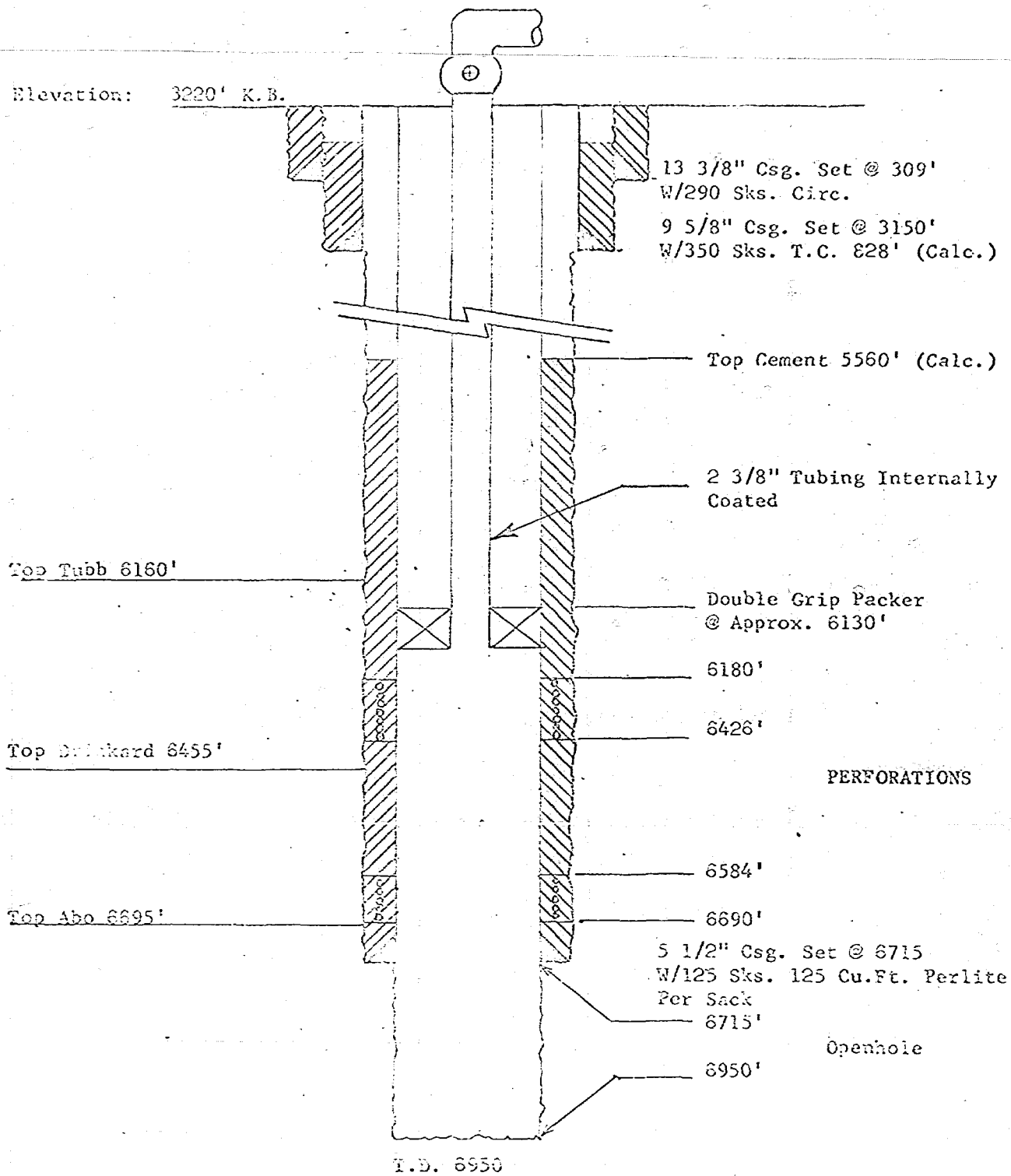
PROPOSED DOLLARHIDE DRINKARD UNIT

PAN AMERICAN PETROLEUM CORPORATION
STATE "Y" WELL NO. 8
2310' FNL & 1980' FWL, Section 32, T 24 S, R 38 E
Lea County, New Mexico



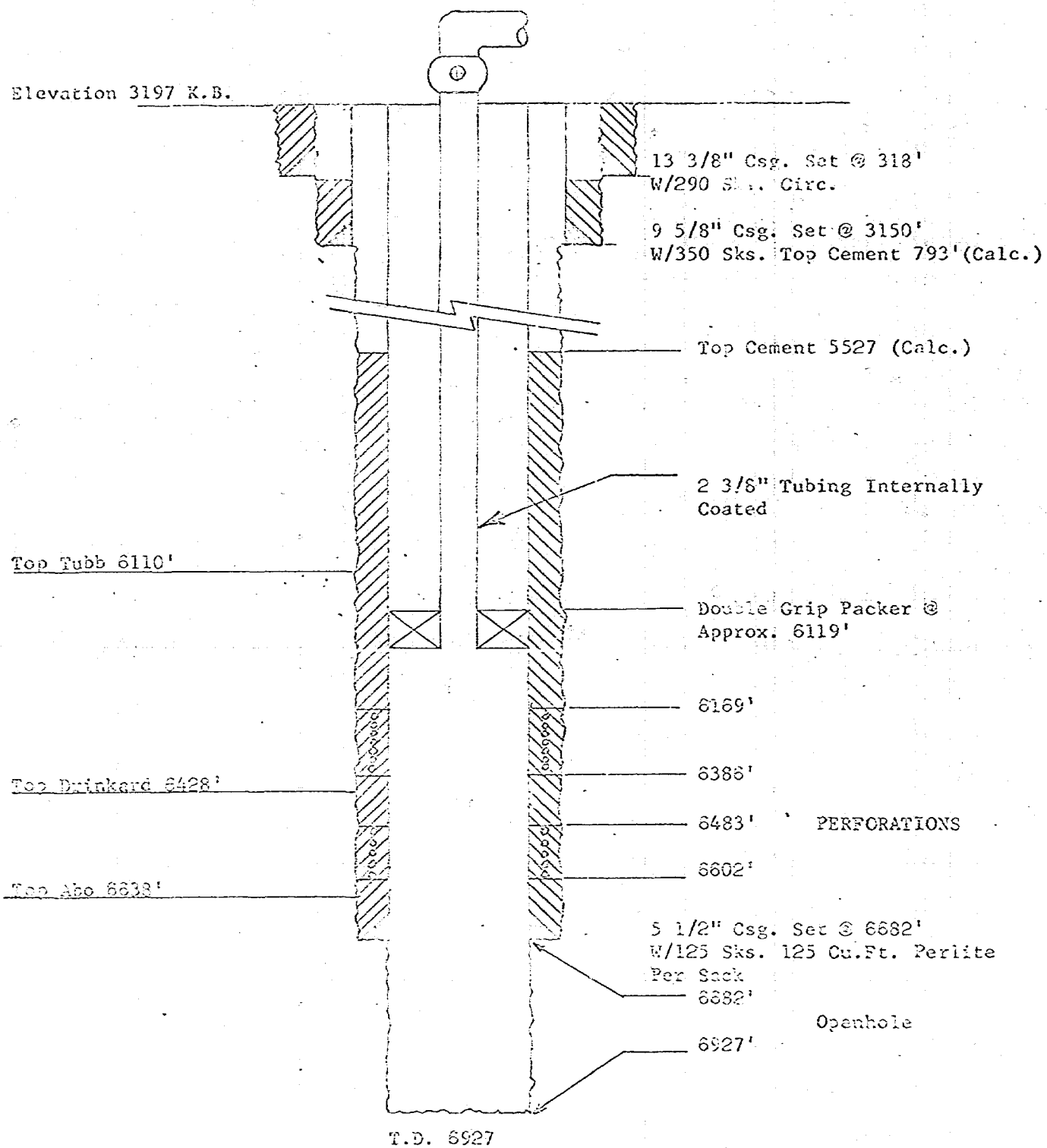
PROPOSED DOBLARHEAD DRINKARD UNIT

PAN AMERICAN PETROLEUM CORPORATION
 STATE "Y" WELL NO. 10
 650' FNL & 1980' FNL, Section 32, T 24 S, R 38 E
 Lea County, New Mexico



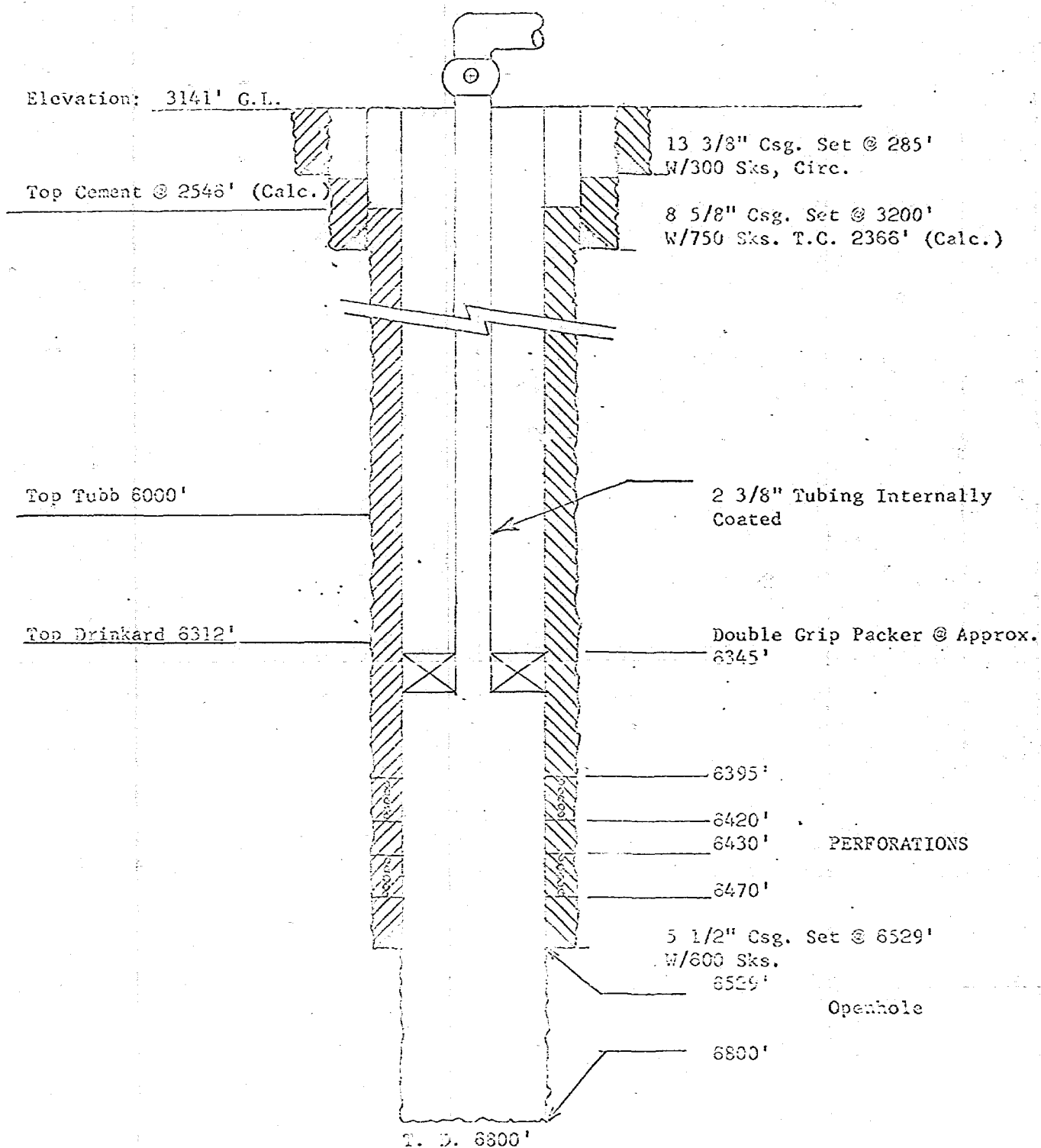
PROPOSED DOLLARHIDE DRINKARD UNIT

PAN AMERICAN PETROLEUM CORPORATION
STATE "Y" WELL NO. 11
2310' FNL & 660' FNL, Section 32, T 24 S, R 33 E
Lea County, New Mexico



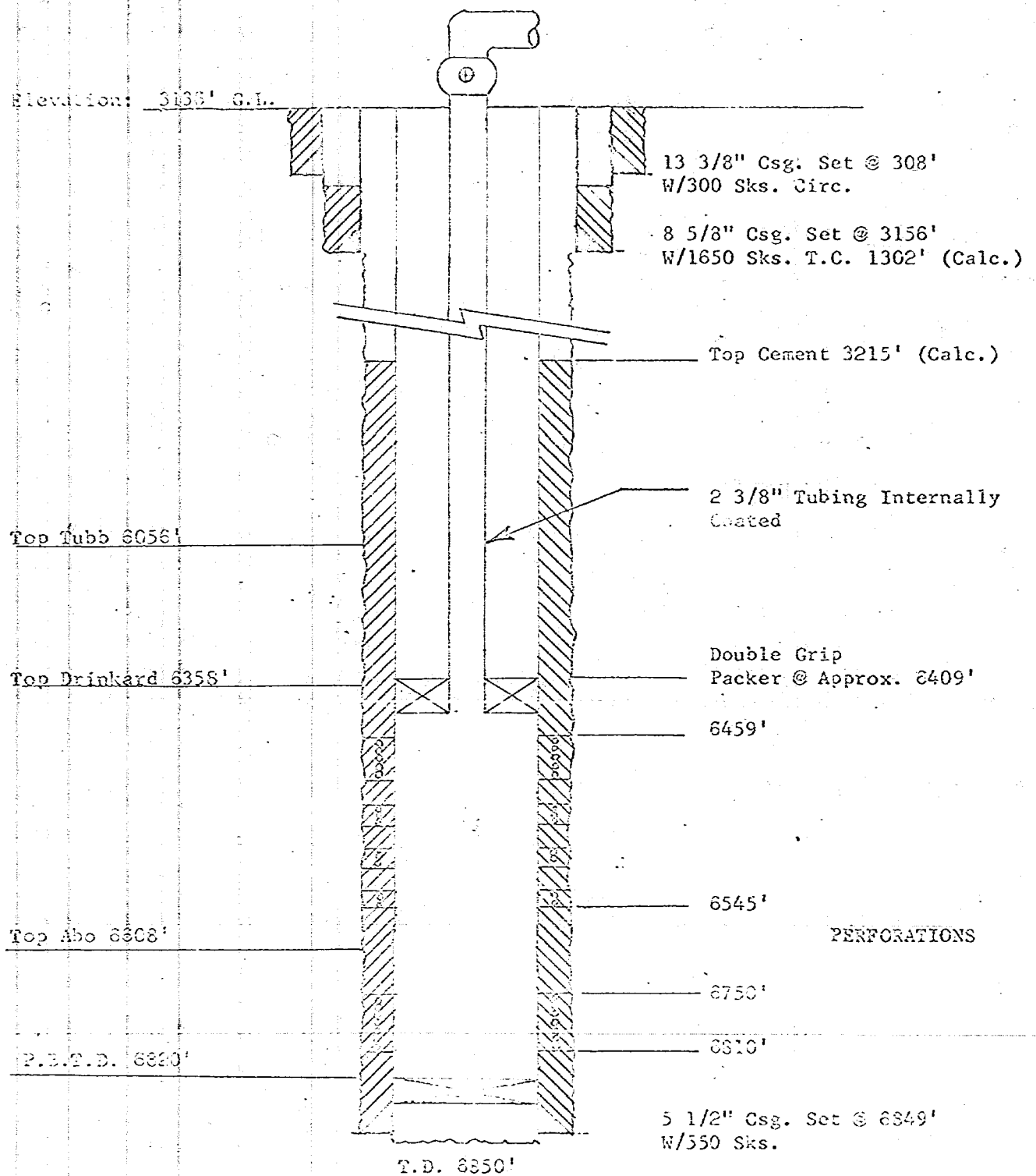
PROPOSED DOLLARHIDE DRINKARD UNIT

SINCLAIR OIL CORPORATION
J. H. MC CLUNE WELL NO. 1
330' FSL & 990' FSL, Section 30, T 24 S, R 38 E
Lea County, New Mexico



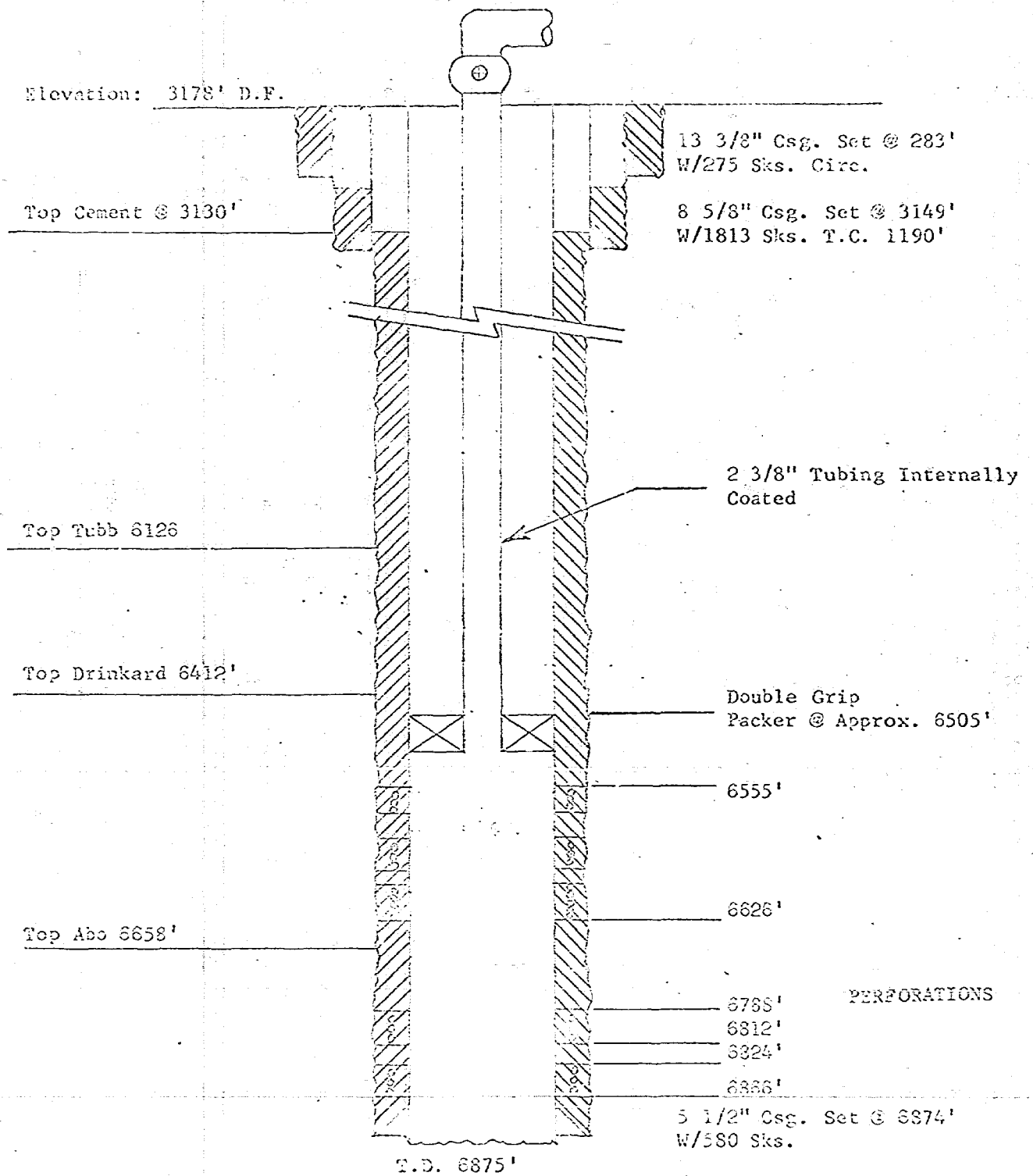
PROPOSED DOLLARWIDE DRINKARD UNIT

SINCLAIR OIL CORPORATION
J. M. MC CLURE WELL NO. 5
1650' FSL & 1980' FEL, Section 30- T 24 S, R 38 E
Lea County, New Mexico



PROPOSED DOLLARHIDE DRINKARD UNIT

SINCLAIR OIL CORPORATION
J.H. MC CLURE WELL NO. 8
2310' FNL & 660' FEL, Section 30, T 24 S, R 38 E
Lea County, New Mexico

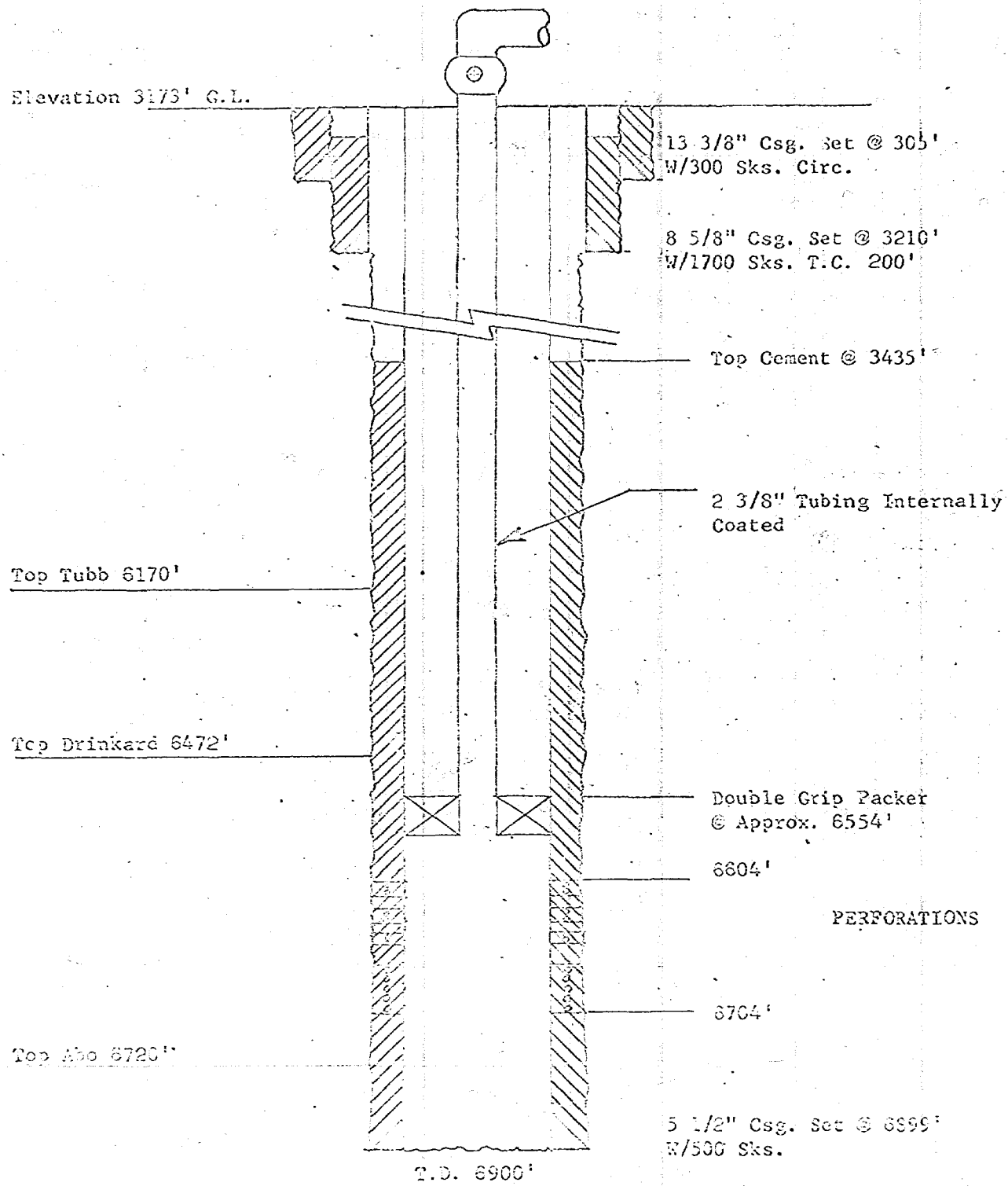


PROPOSED DOLLARHIDE BATHWATER UNIT

SINCLAIR OIL CORPORATION

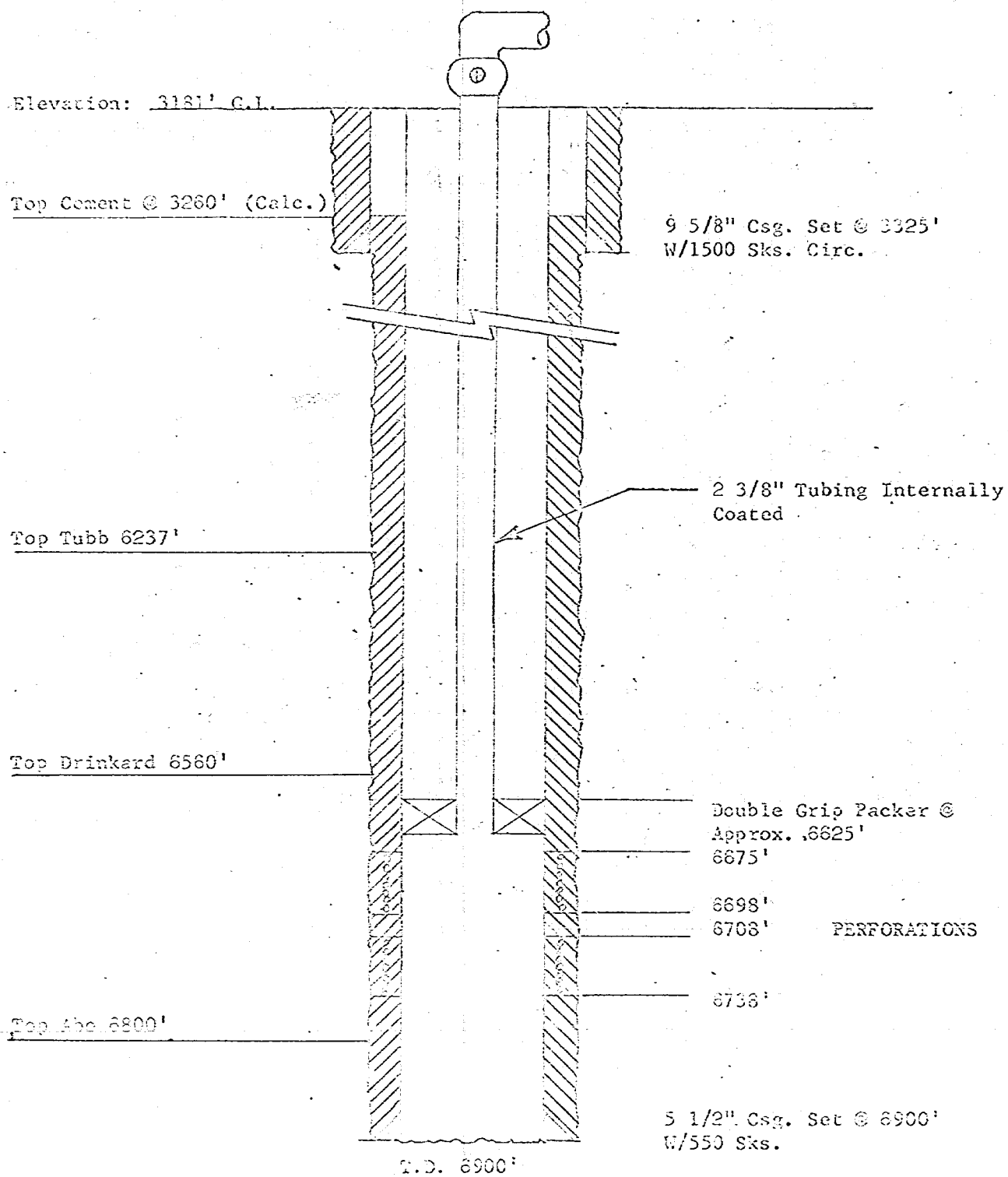
J. H. MC CLURE WELL NO. 16

990' NW 1/4 S 1650' NW 1/4, Section 30, T 24 S, R 38 E
Lea County, New Mexico



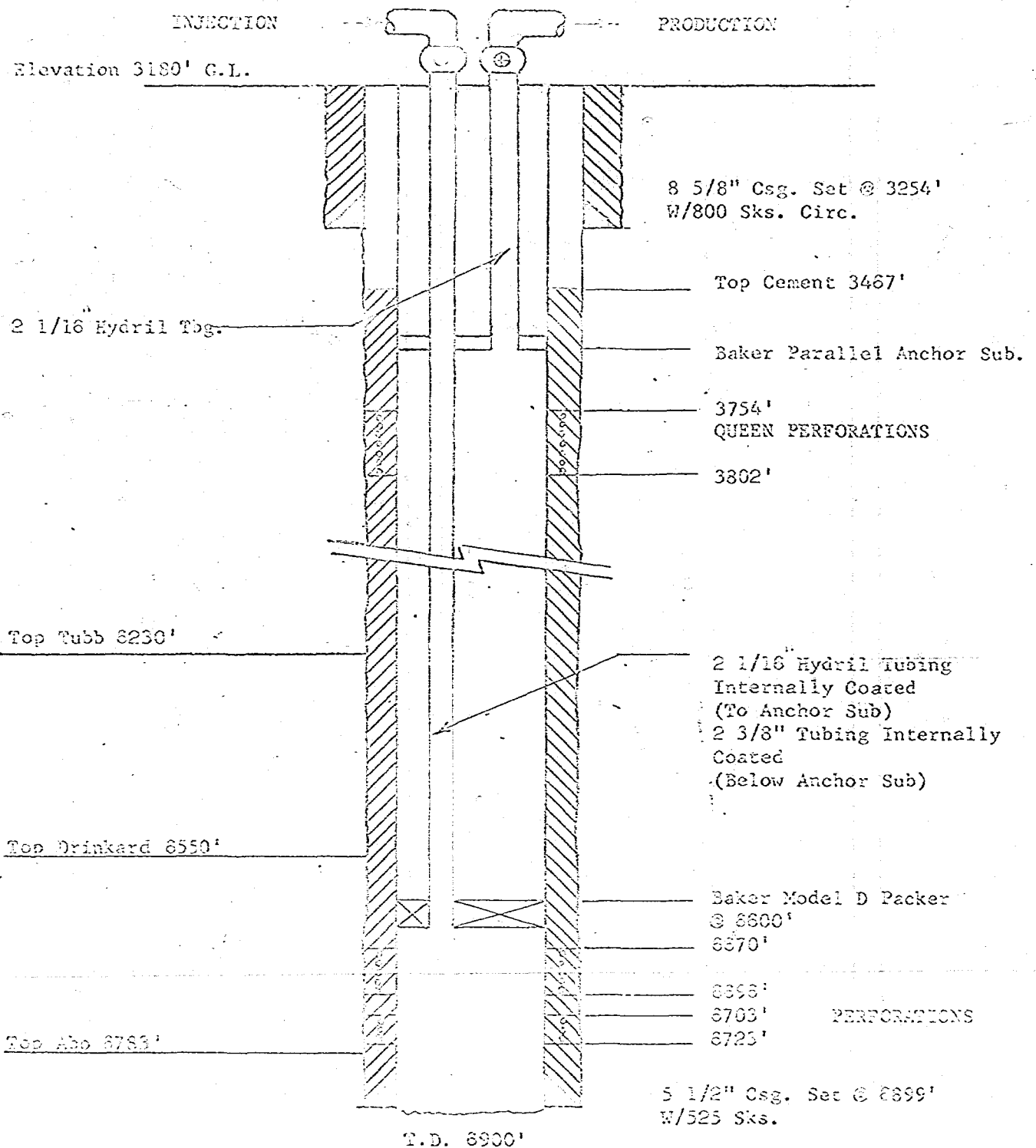
PROPOSED DOLLARHIDE DRINKARD UNIT

SINCLAIR OIL CORPORATION
 J. R. MC CLURE WELL NO. 18
 330' FSL & 990' FHL, Section 19, T 24 S, R 38 E
 Lea County, New Mexico



PROPOSED DOLLARHIDE DRINKARD UNIT

SINCLAIR OIL CORPORATION
J. H. MC CLURE WELL NO. 19
1650' FSL & 1980' FEL, Section 19, T 24 S, R 38 E.
Lea County, New Mexico



PROPOSED BOLLAMITE DRINKARD UNIT

SINGULAR OIL CORPORATION
 O. H. MC CLURE WELL NO. 21
 990' FNL & 2310' DEEP, SECTION 19- T 24 S, R 38 E
 LEA COUNTY, NEW MEXICO

Elevation: 3181 G.L.

8 5/8" Csg. Set @ 3234'
 W/1000 Sks. Circ.

Top Cement @ 3266' Calc.

2 3/8" Tubing Internally
 Coated

Top Tub @ 6232'

Top Drinkard 6530'

Double Grip
 Packer @ Approx. 6616'

6666'

PERFORATIONS

6724'

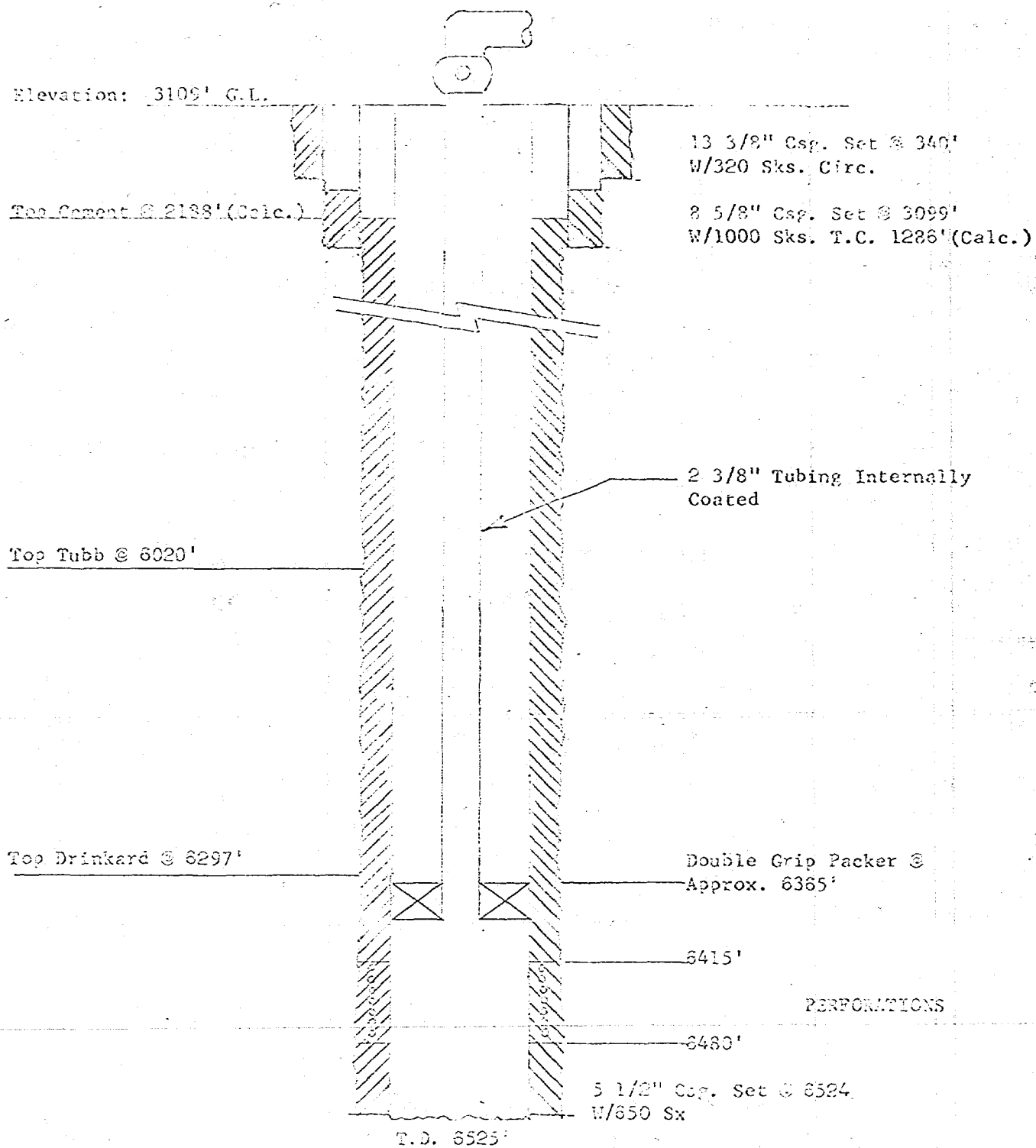
Top Abo @ 6758'

5 1/2" Csg. Set @ 6900'
 W/550 Sks.

2.3. 3505'

PROPOSED POLLARD DRINKARD UNIT

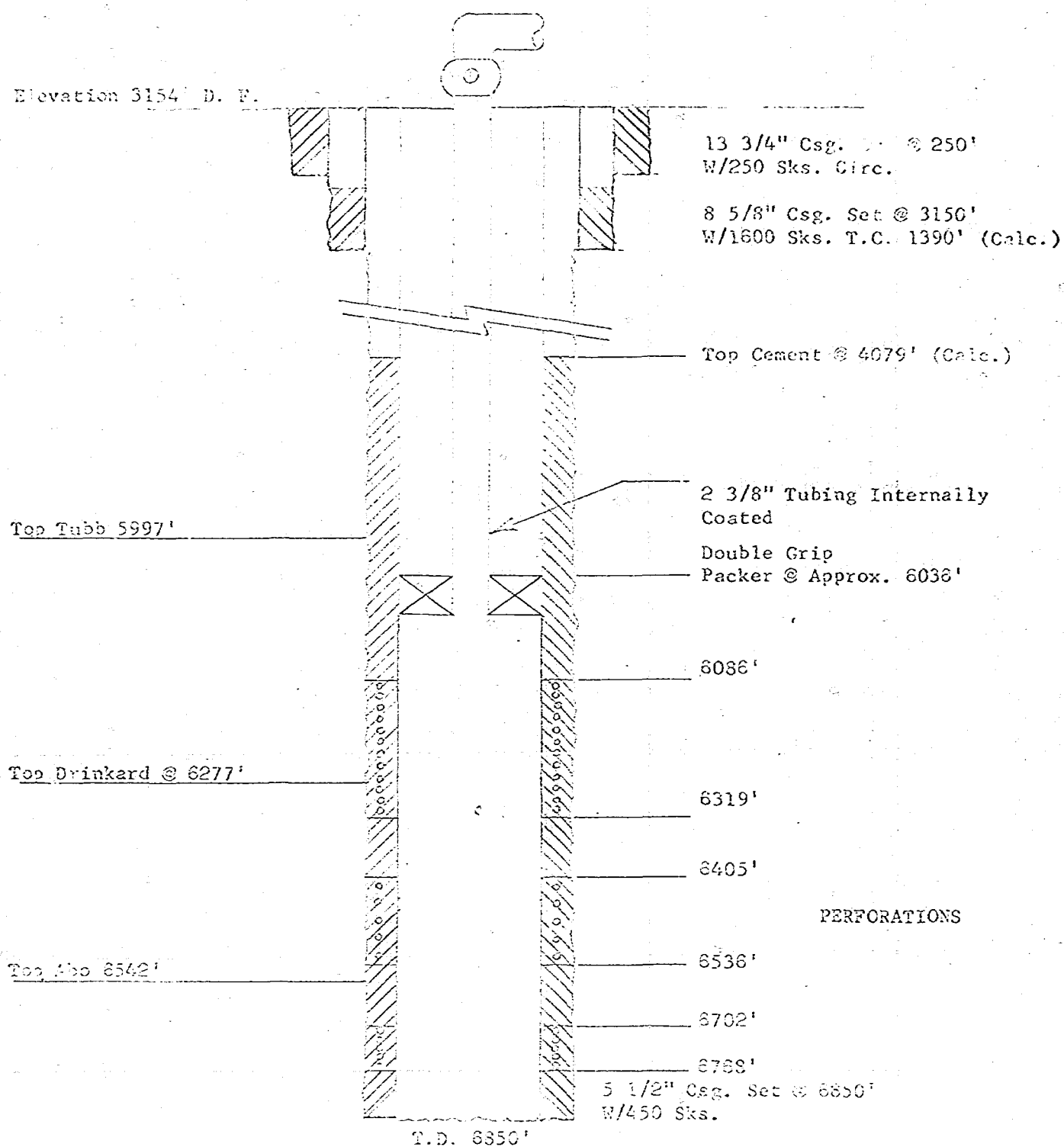
SINCLAIR OIL CORPORATION
L. E. VANCE WELL NO. 1
336' FSL & 2310' FSL, SECTION 30, T 24 S, R 38 E
LEA COUNTY, NEW MEXICO



PROPOSED COLLARED DRINKARD CWT

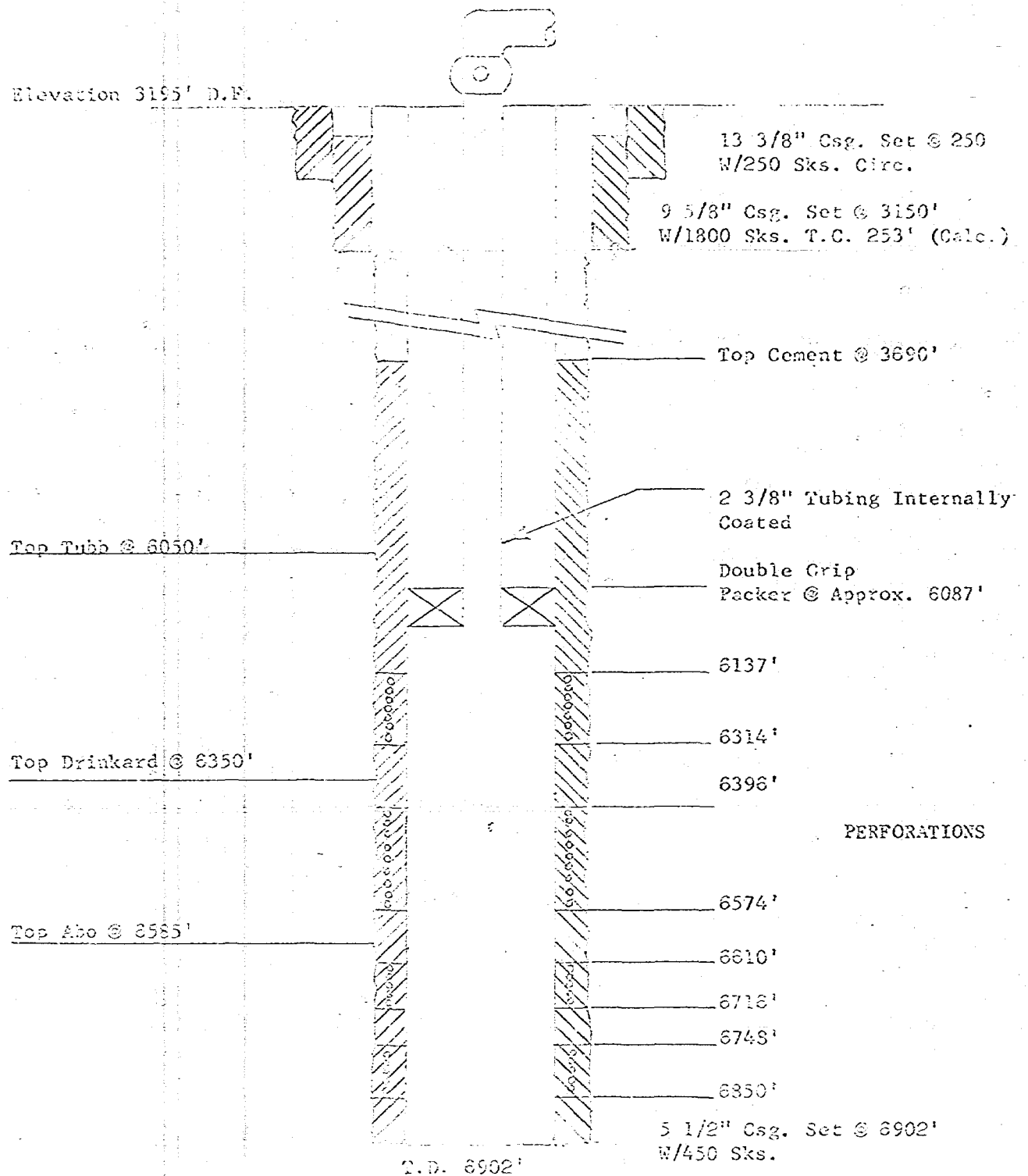
SKELLY OIL COMPANY
MEXICO "J" WELL NO. 7
2310' PSL & 510' FML SECTION 32, T 24 S R 33 E
LEA COUNTY, NEW MEXICO

Elevation 3154' D. F.



PROPOSED DOLL ARNOLD DRINKARD UNIT

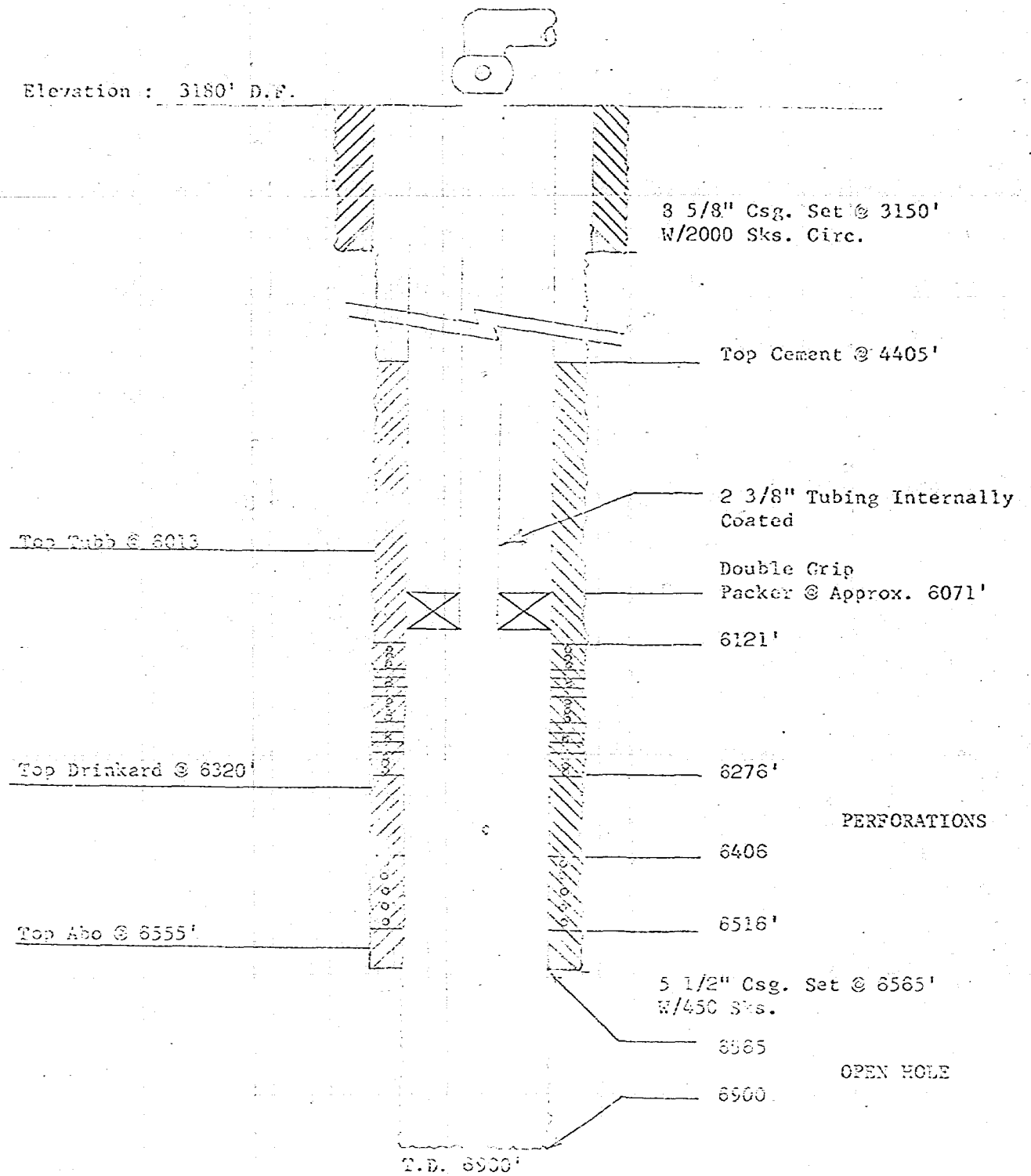
SHELLY OIL COMPANY
 PERMITS "C" WELL NO. 9
 1980' FSL & 1980' FEL, SECTION 32, T 24 S, R 38 E
 DEAN COUNTY, NEW MEXICO



PROPOSED DOLLARIDE DRINKARD UNIT

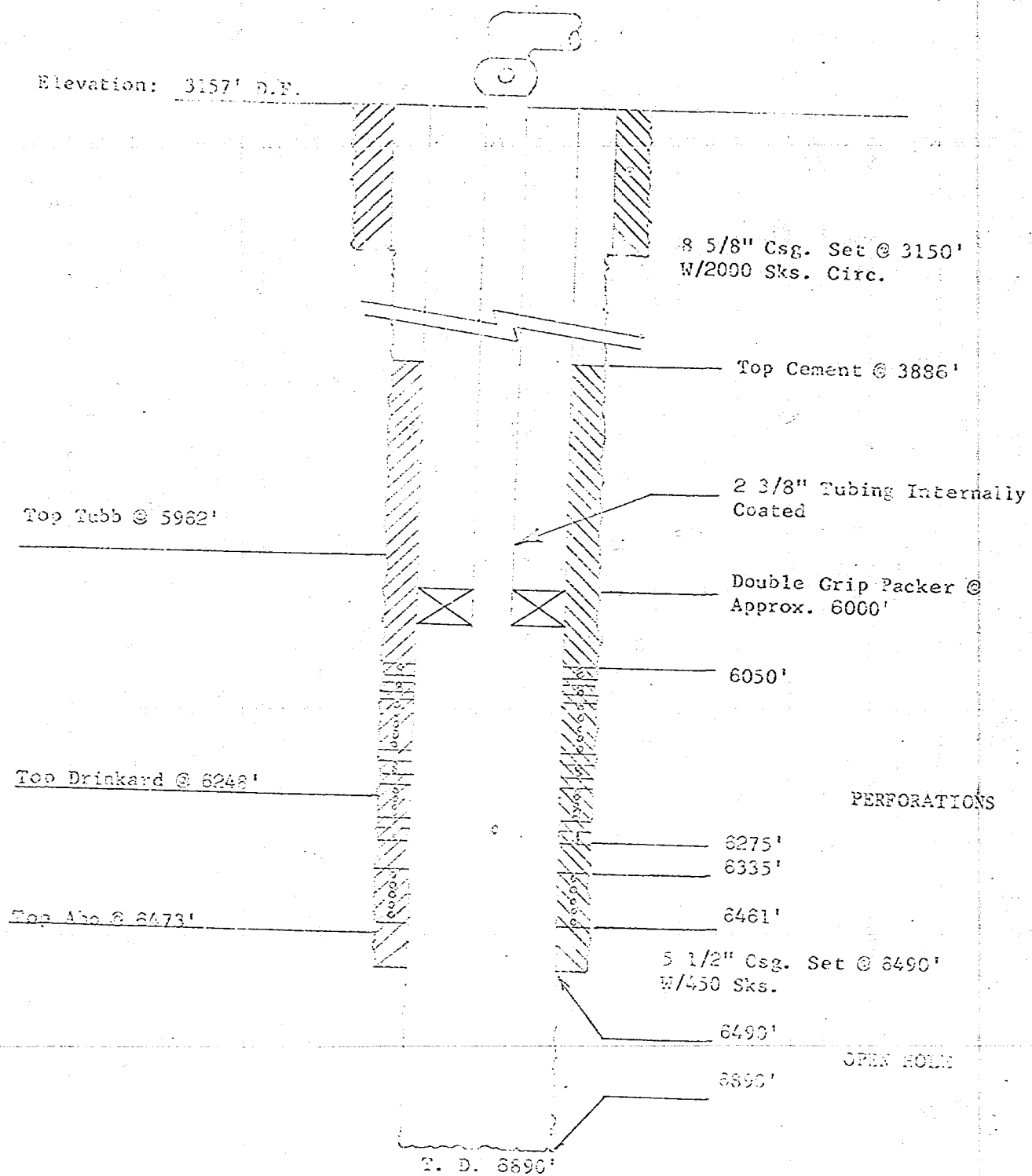
SMITH OIL COMPANY
MEXICO "J" WELL NO. 16
510' FEL & 810' FSL SECTION 32, T 24 S, R 38 E
LEA COUNTY, NEW MEXICO

Elevation : 3180' D.F.



ANTONIO DRINKARD UNIT

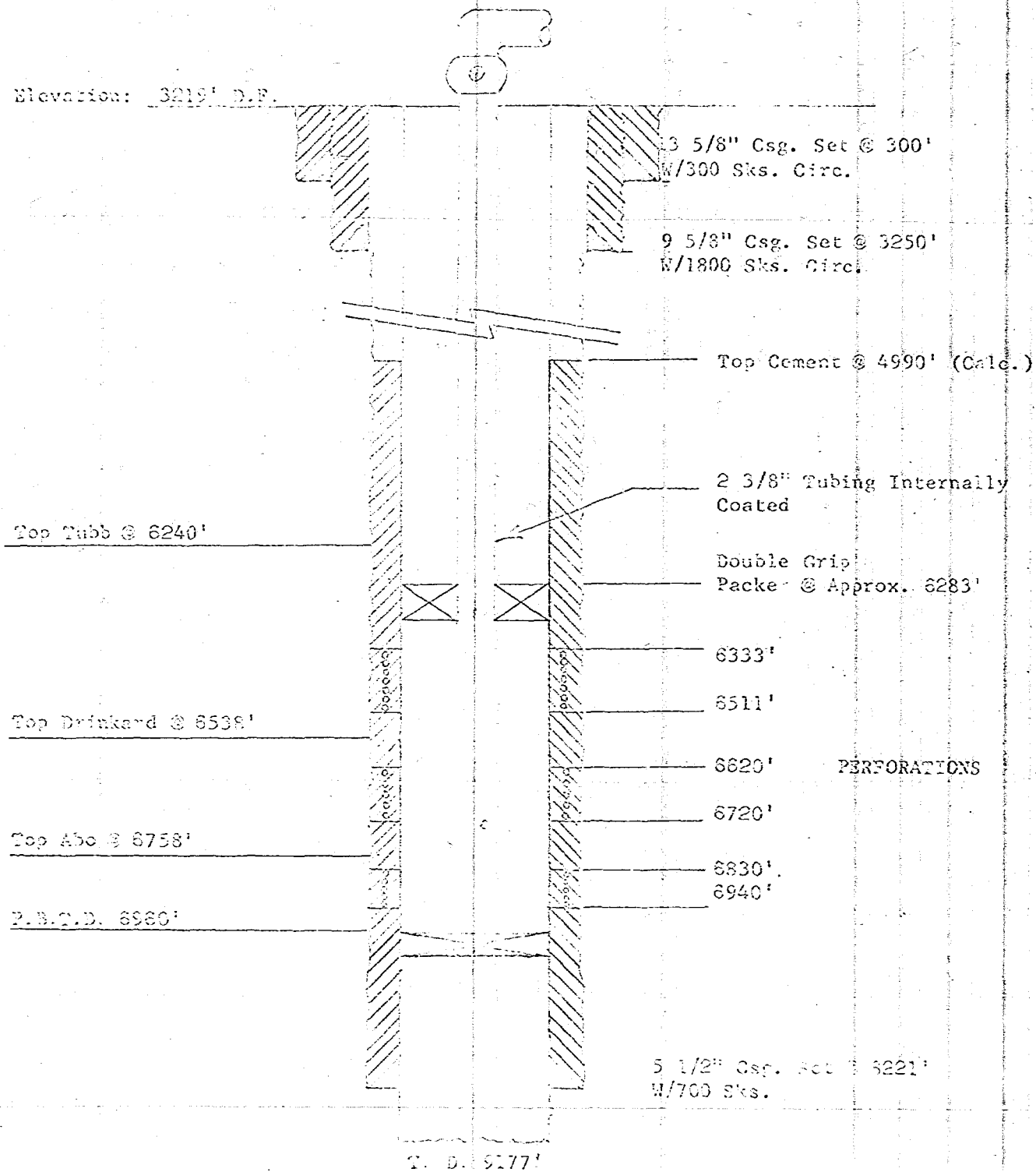
SHREVE OIL COMPANY
MEXICO "U" WELL NO. 20
800' FSL & 1800' FHL, SECTION 32, T 24 S. R 38 E
LEA COUNTY, NEW MEXICO



PROPOSED POLLUTION DRAINAGE UNIT

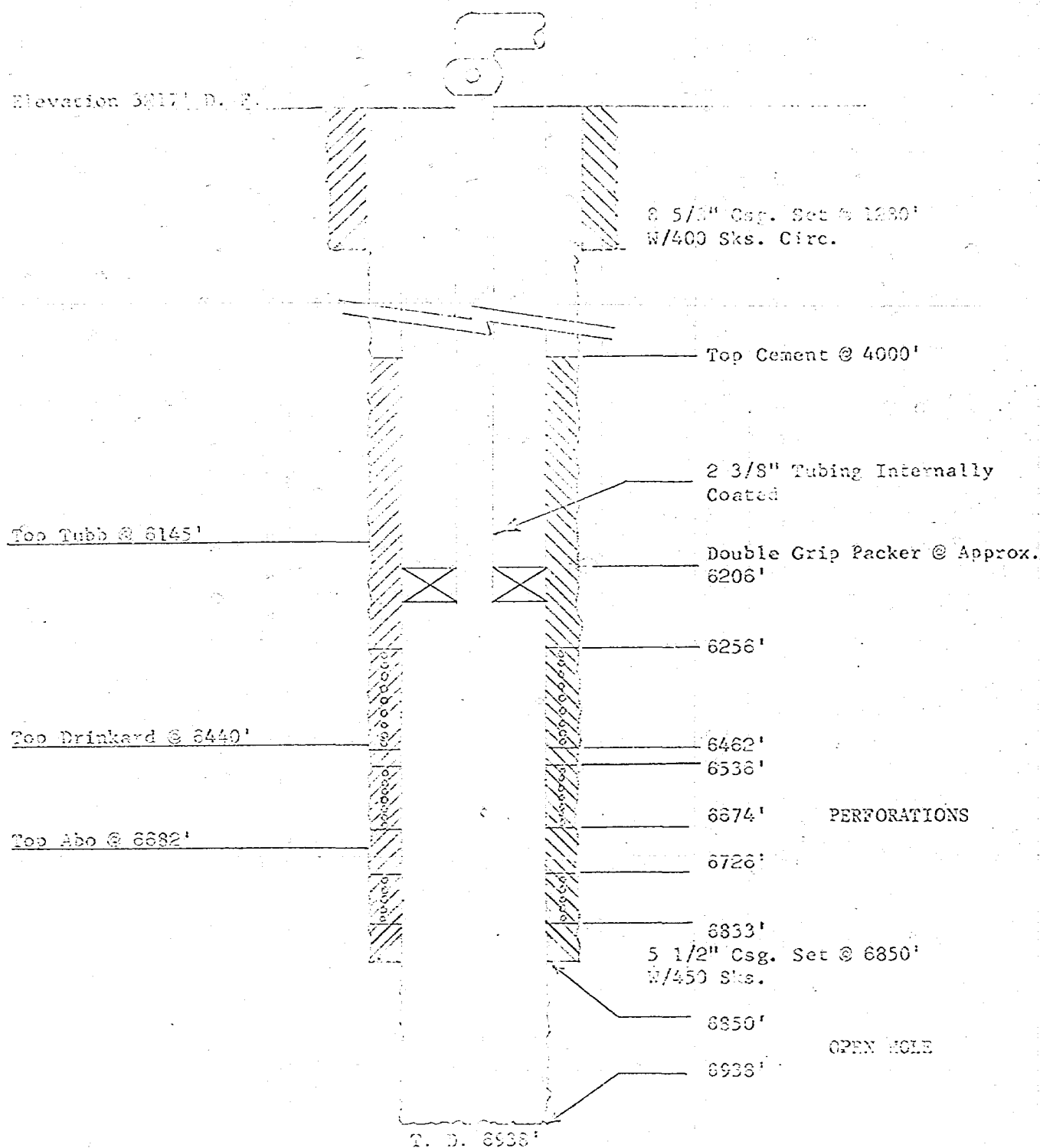
SKULLY OIL COMPANY
MEXICO "K" WELL NO. 1
T 24 S, R 38 E
LEA COUNTY, NEW MEXICO

Elevation: 3219' D.F.



SHAWNEE OIL COMPANY
 WELL NO. 4
 230' NBL & 1880' WBL SECTION 29, T 24 S, R 38 E
 LRA COUNTY, TEXAS

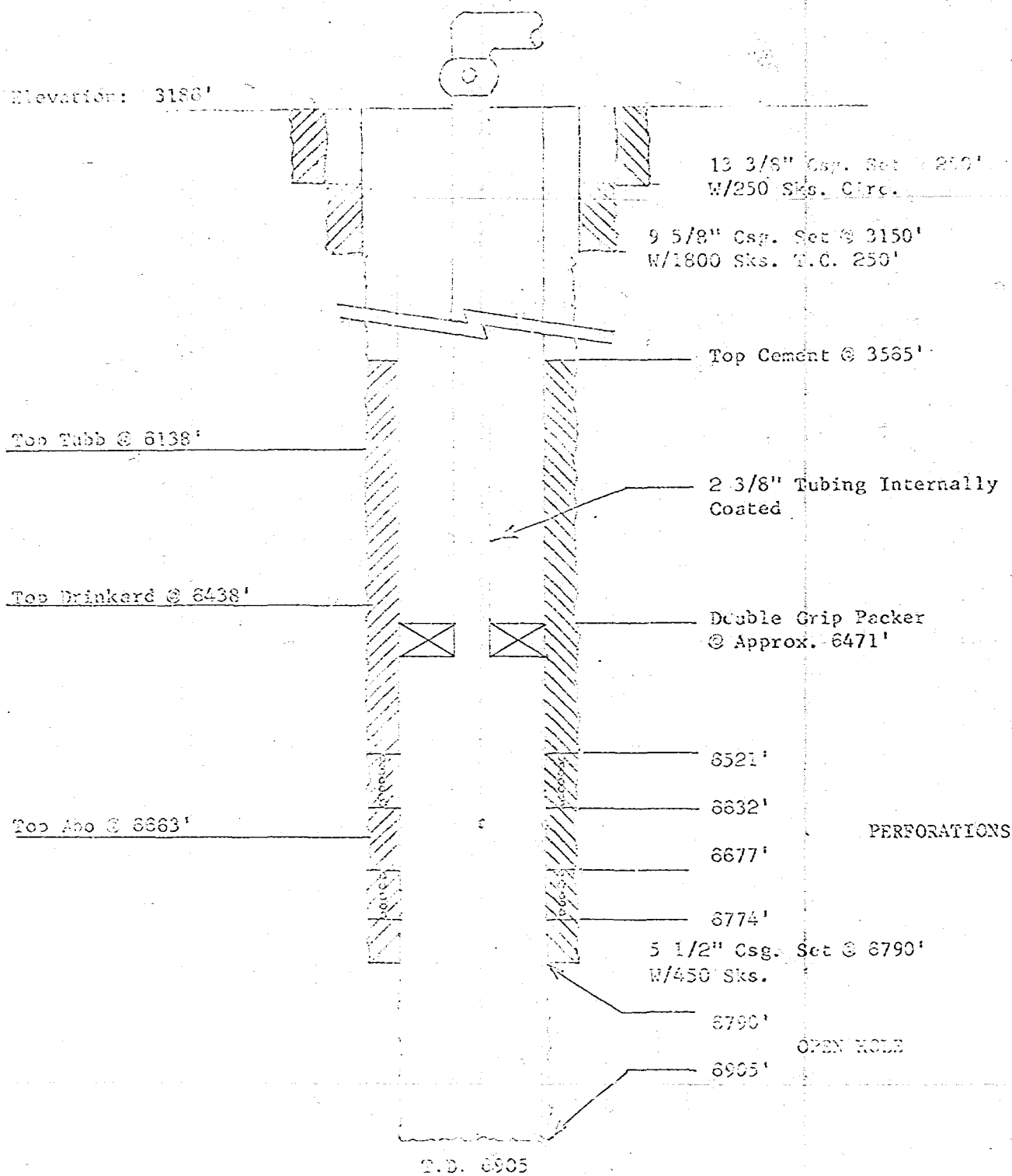
Elevation 3417' D. E.



PROPOSED BOTTLABLE DRINKING UNIT

SKELLY OIL COMPANY
MEXICO "K" WELL NO. 6
1988' FSL & 880' FHL, SECTION 29, T 24 S R 38 E
LEA COUNTY, NEW MEXICO

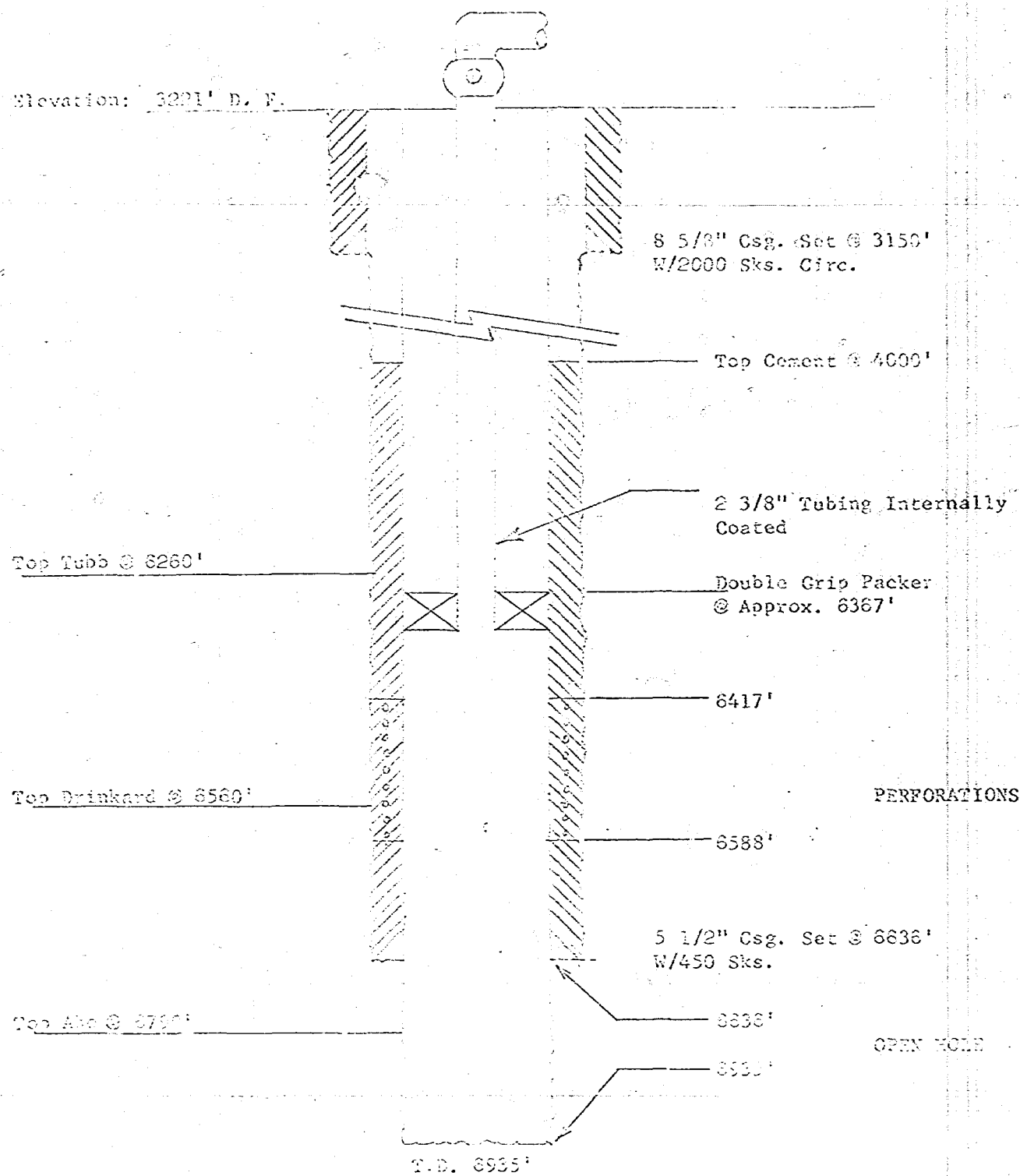
Elevation: 3186'



EXPLANATION OF WELL LOG

UNION OIL COMPANY
MEXICO "K" WELL NO. 9
1980' PBL. & 1980' PBL. SECTION 29, T 24 S R 38 E
LEA COUNTY, NEW MEXICO

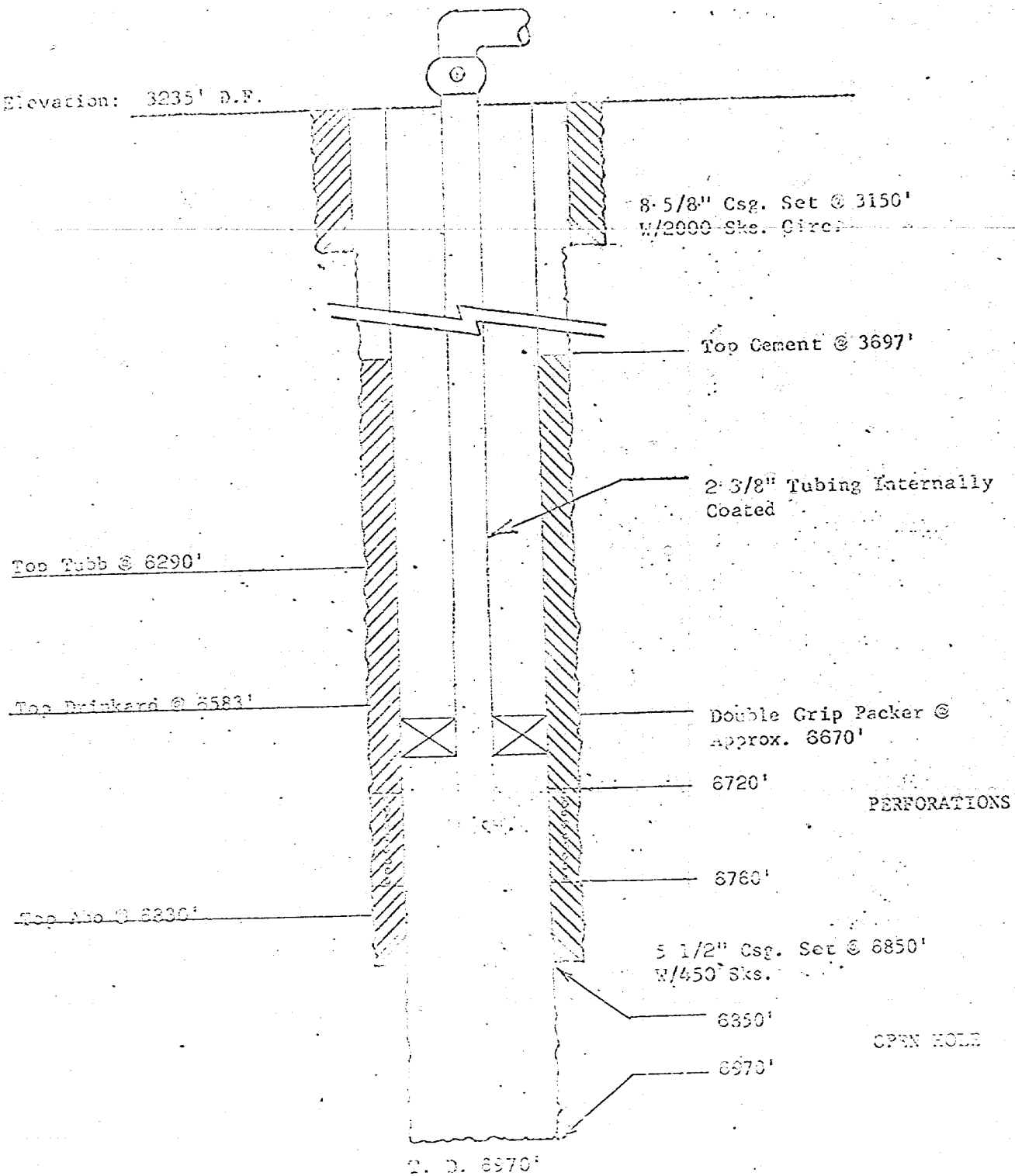
Elevation: 3221' D. F.



PROPOSED HOLLAHIDE BRINKARD UNIT

SHREVE OIL COMPANY
MEXICO "RR" WELL NO. 13
1980' FNL & 1950' FNL. SECTION 29, T 24 S, R 38 E
DEA COUNTY, NEW MEXICO

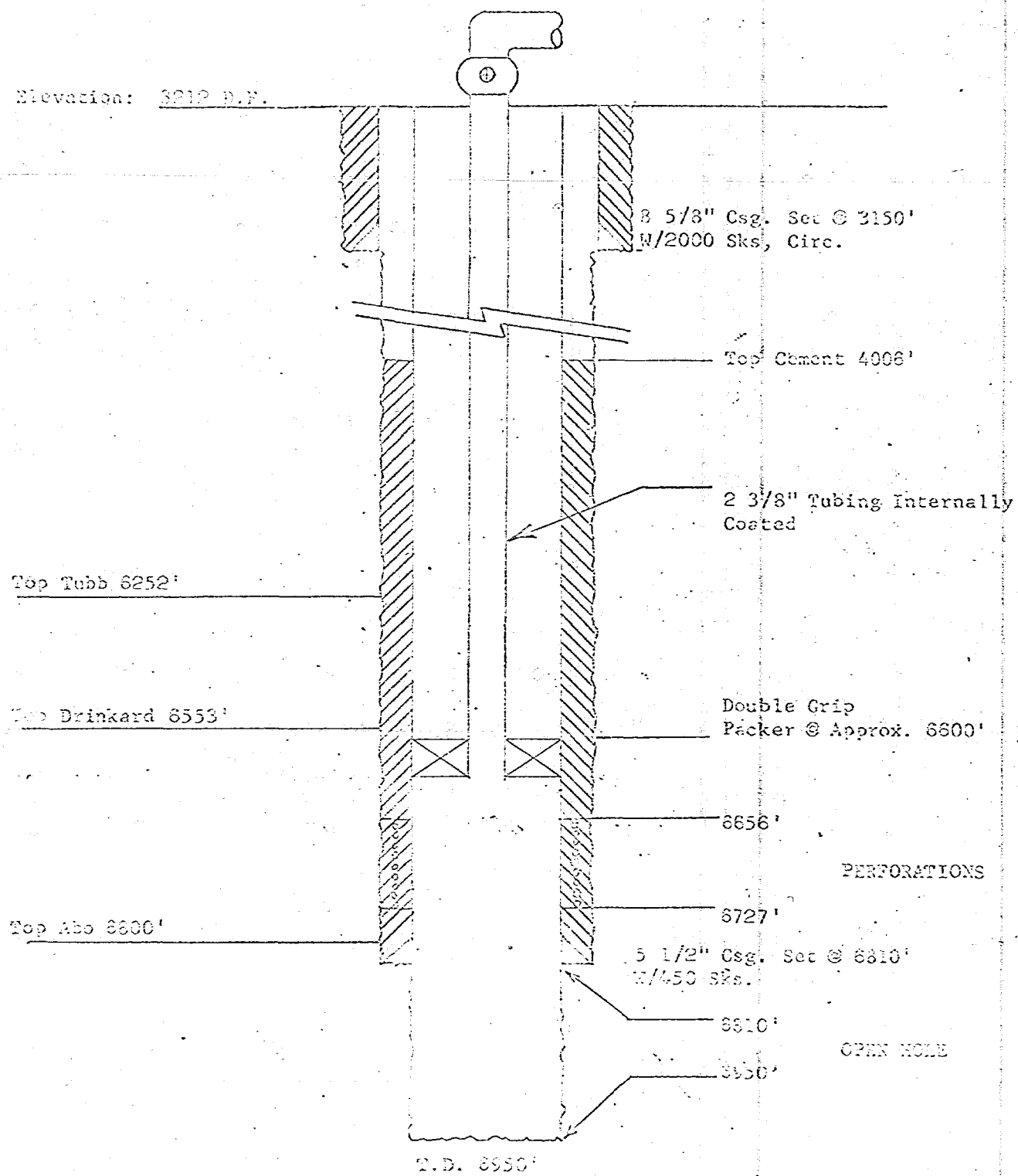
Elevation: 3235' D.F.



PROPERTY DRINKARD UNIT

SMITH OIL COMPANY
MEXICO "K" WELL NO. 15
990' PNL & 330' PNL, SECTION 29, T 24 S, R 38 E
LEA COUNTY, NEW MEXICO

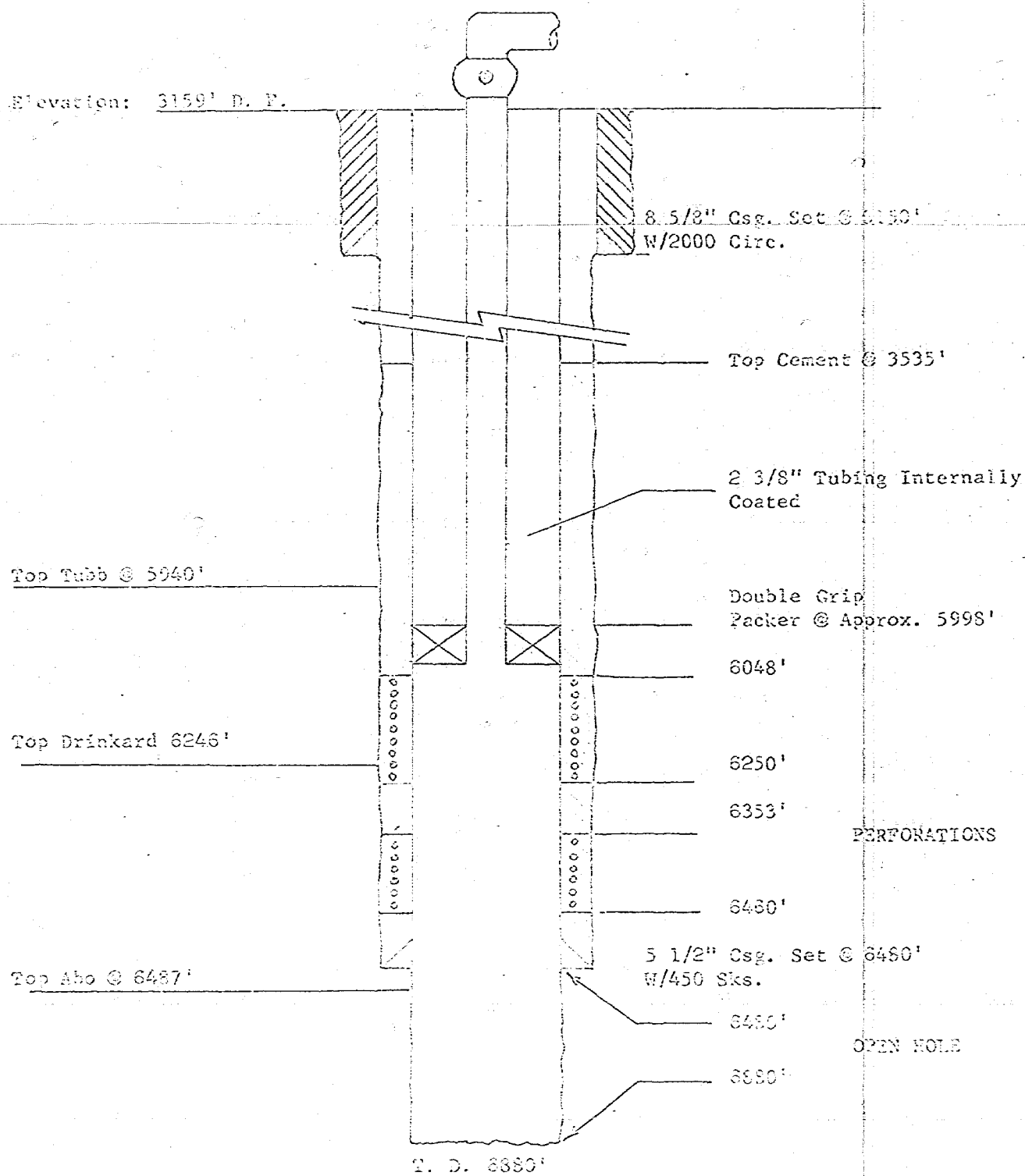
Elevation: 3812 D.F.



PROPOSED DOLLARD DRINKARD UNIT

SUNNY OIL COMPANY
MEXICO "L" WELL NO. 17
810' PNL & 2310' PNL, SECTION 5, T 25 S. R 38 E
LEA COUNTY, NEW MEXICO

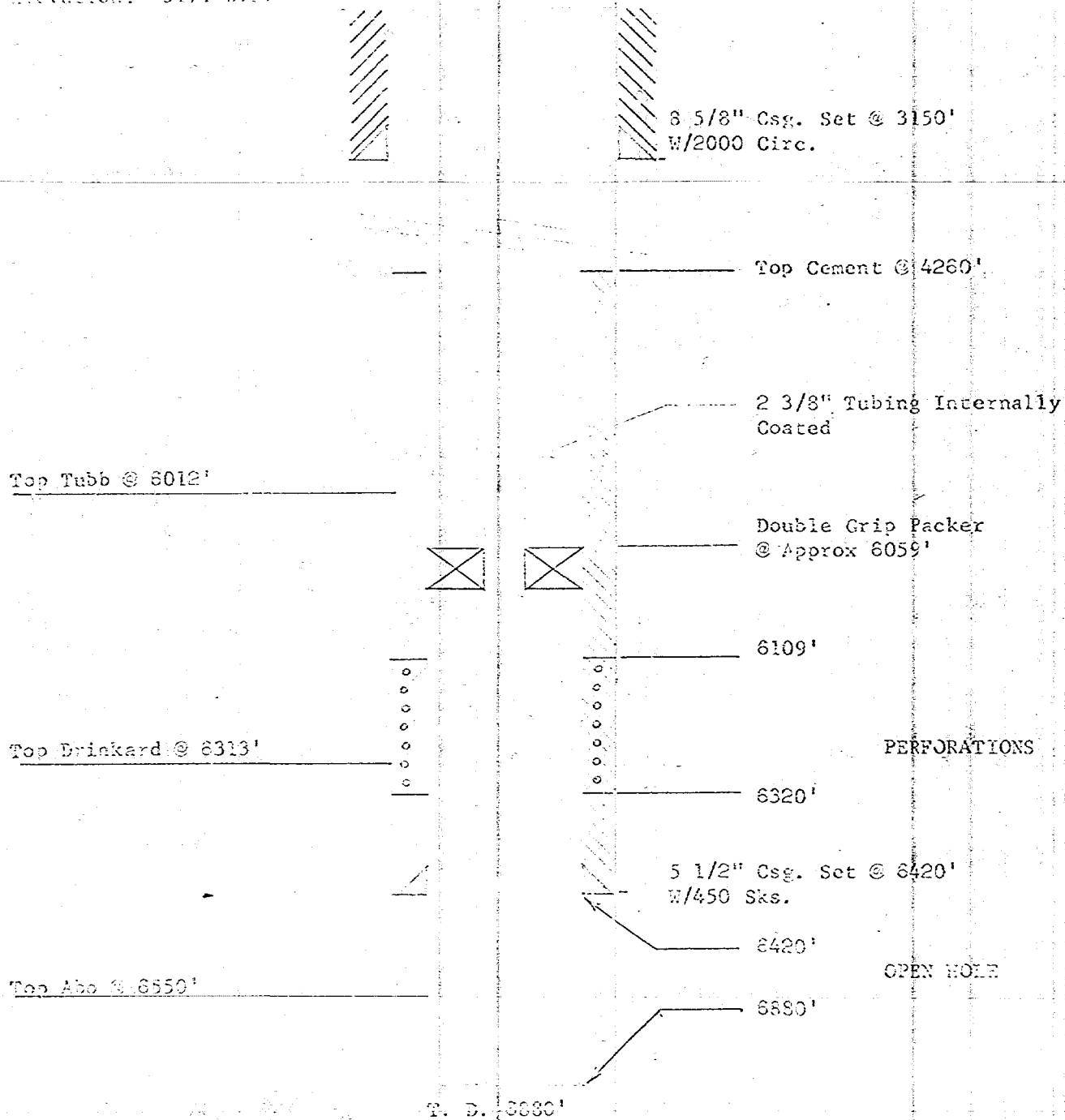
Elevation: 3159' D. F.



PROPOSED WELL NO. 18

SHAW-WALKER COMPANY
WELL NO. 18
1854' PA. & 100' DR. SECTION 5, T 25 S. R 38 E
LEA COUNTY, NEW MEXICO

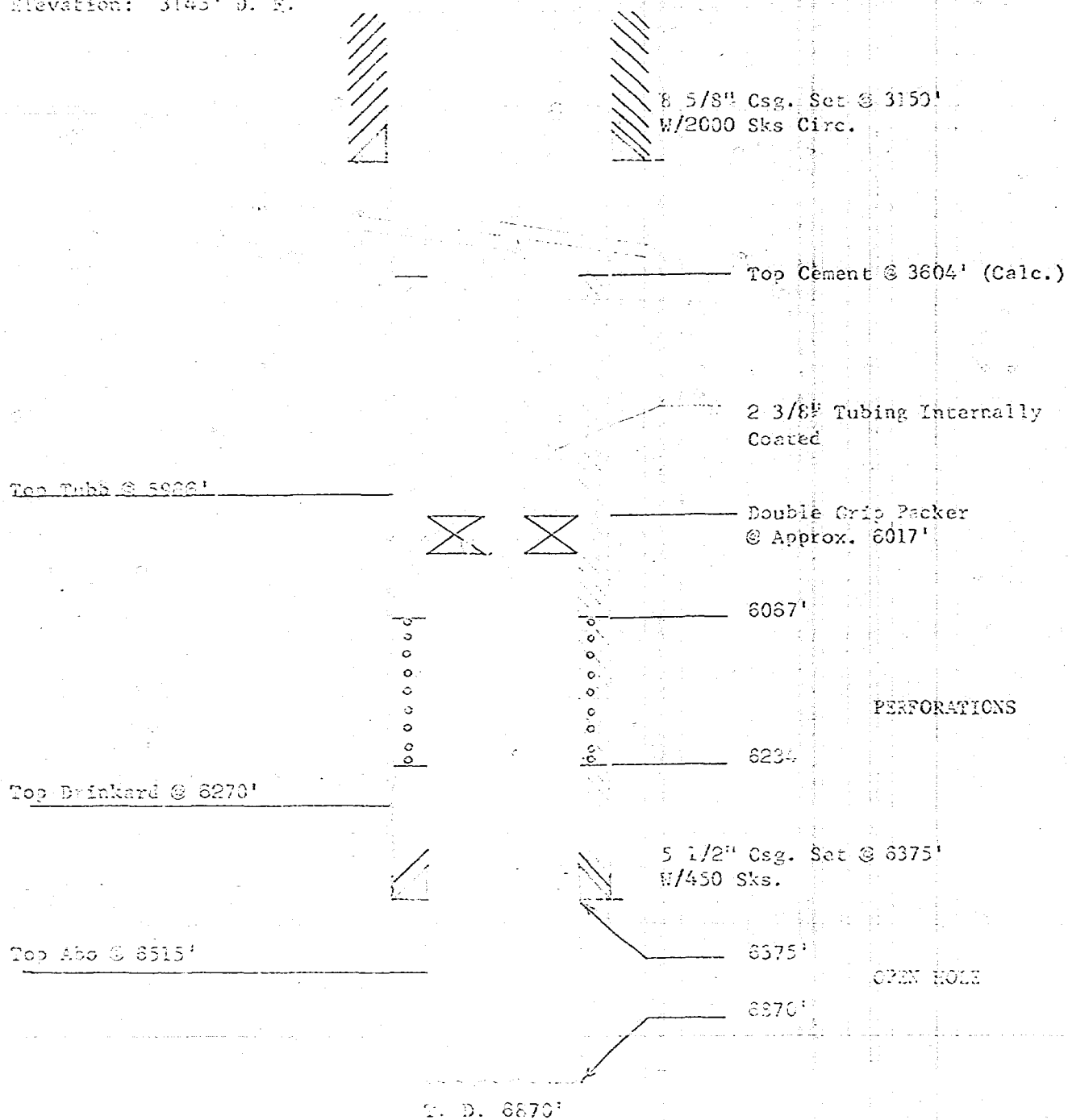
Elevation: 3171 D.F.



PROPOSED DOMINION DRINKARD UNIT

SKELLY OIL COMPANY
MEXICO "L" WELL NO. 20
1662' PNL & 2130' PNL, SECTION 5, T 25 S, R 38 E
LEA COUNTY, NEW MEXICO

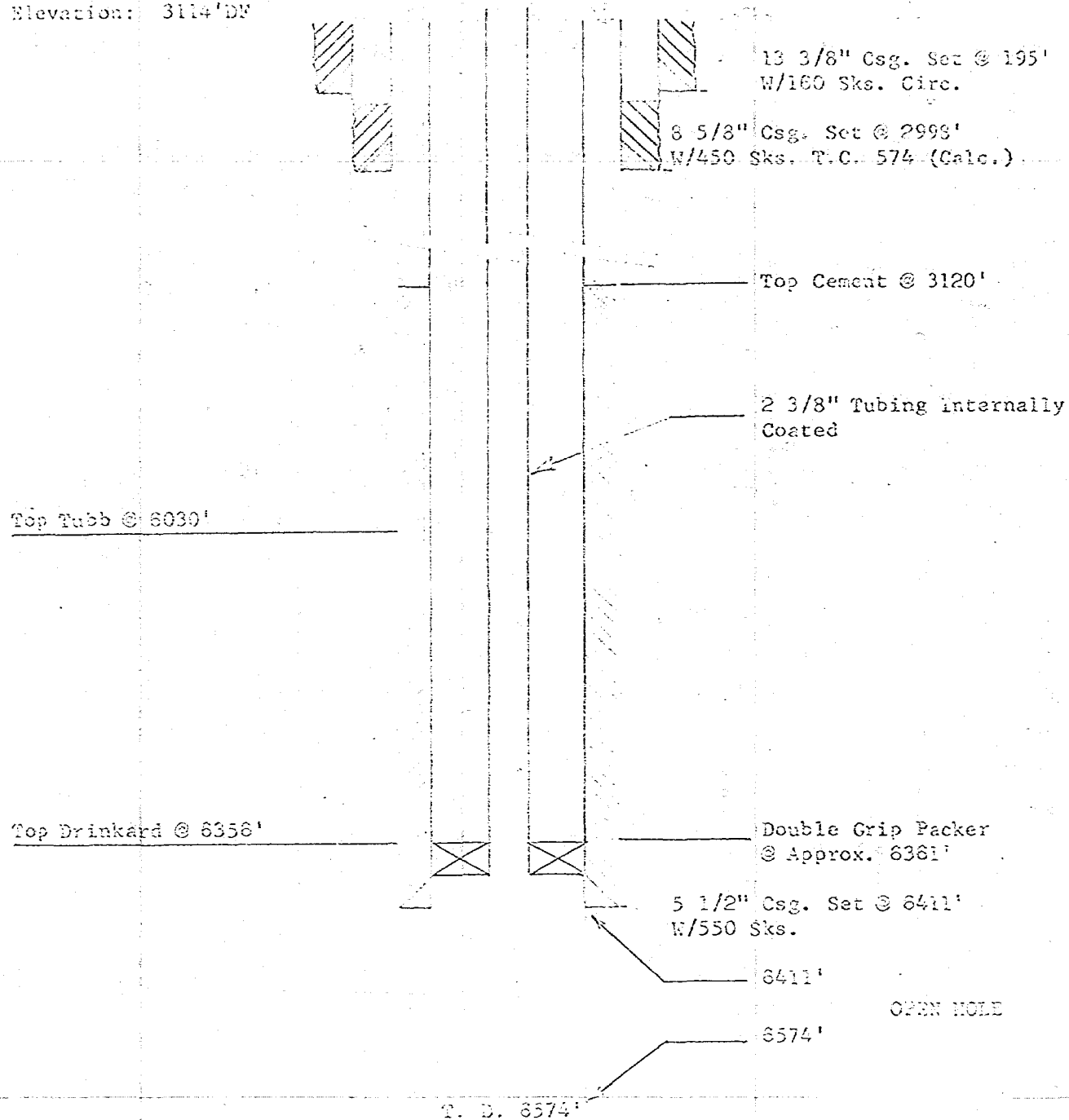
Elevation: 3143' D. F.



PROPOSED DRAINAGE DRAINAGE UNIT

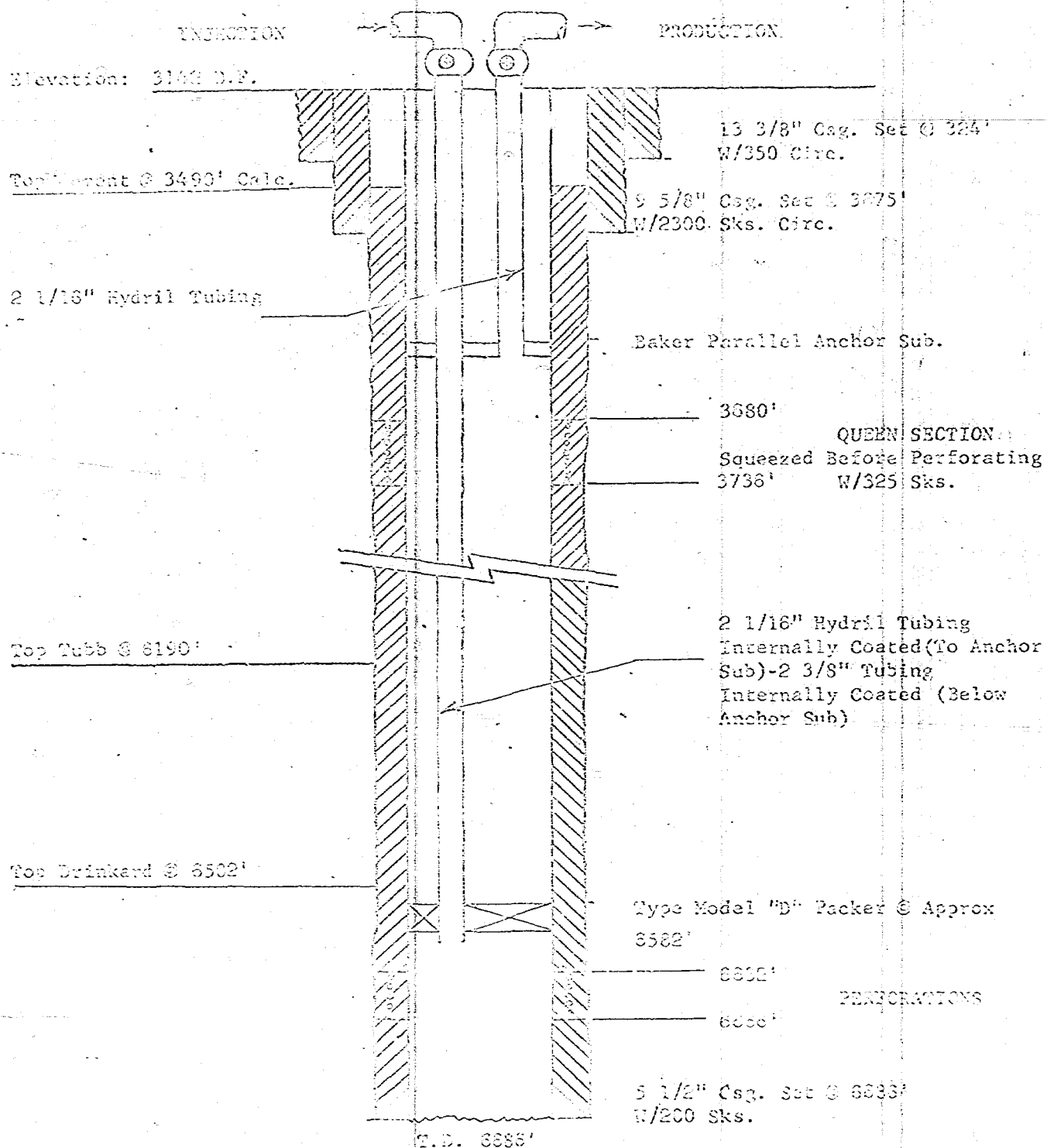
SURFACE ROYALTY
WELLS FEDERAL WELL NO. 1
1450' FNL. & 2310' FNL SECTION 31- T 24 S. R 32 E
LEA COUNTY, NEW MEXICO

Elevation: 3114' DV



PROPOSED 100' DEEP DRILLING UNIT

TEXACO, INC.
A. M. WYERS HILL NO. 1
800' PBL & 1901' PSL. SECTION 10- T 24 S R 33 E.
LEA COUNTY, NEW MEXICO



TENACCO, INC.
 J. L. No. 6 Well No. 6
 2695' FSL. & 1050' FSL. SECTION 31- T 24 S, R 38 E
 HRA COUNTY, NEW MEXICO

Elevation: 3125' L.L.

Top Cement @ 3650' (Calc.)

13 3/8" Csg. Set @ 321'
 W/320 Sks. Circ.

8 5/8" Csg. Set @ 3780'
 W/1900 Sks. Circ. (Calc.)

2 3/8" Tubing Internally Coated

Top Tub @ 6012'

Double Grip Packer
 @ Approx. 6072'

6122'

Top Brinkard @ 6317'

6354'

6490' PERFORATIONS

Top Abc @ 6558'

6614'

5 1/2" Csg. Set @ 6642'
 W/500 Sks.

6642'

OPEN HOLE

6800'

T. D. 6800'

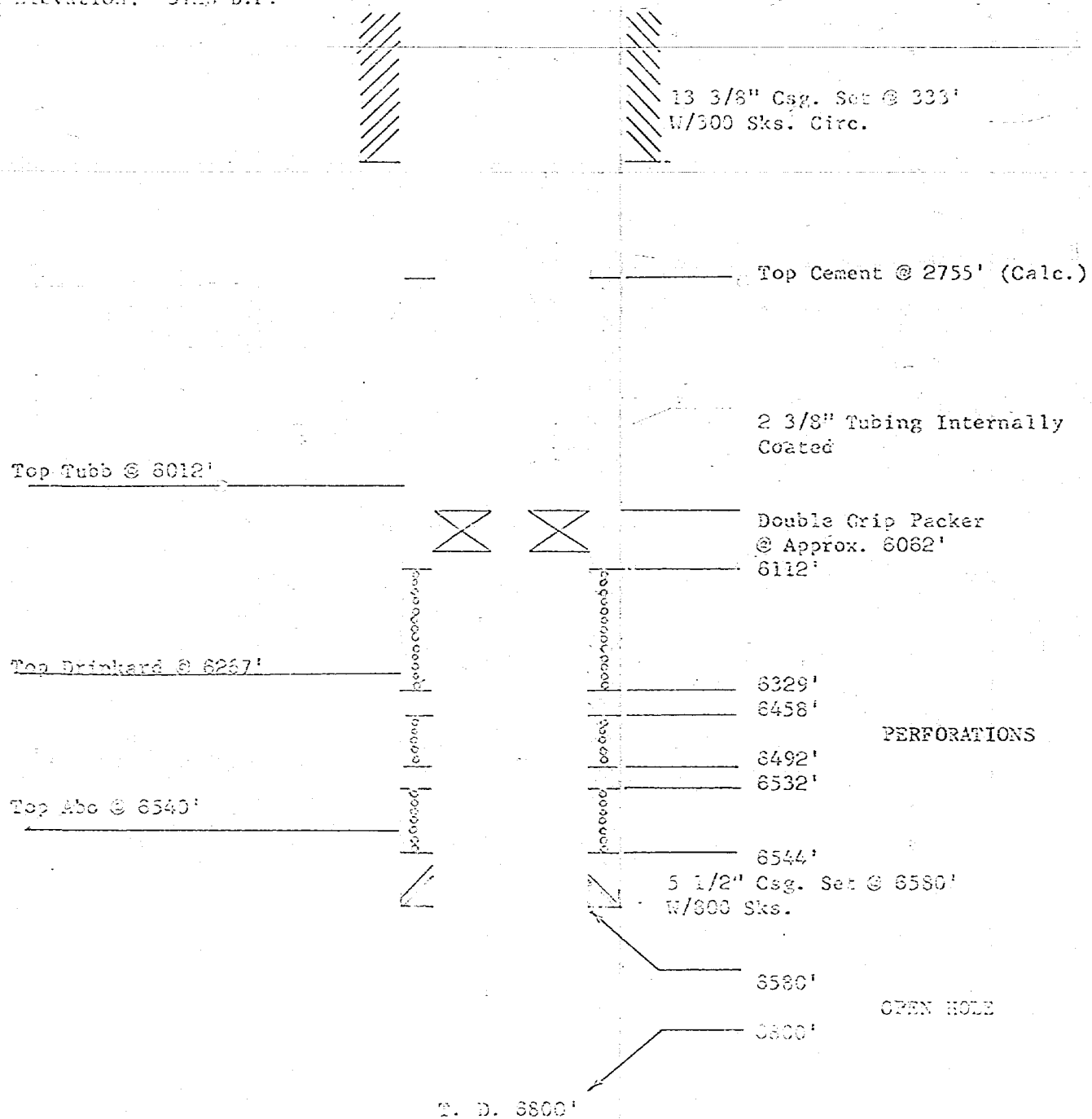
PROPOSED WELL - 10" DIAMETER UNIT

WACO, TEX.

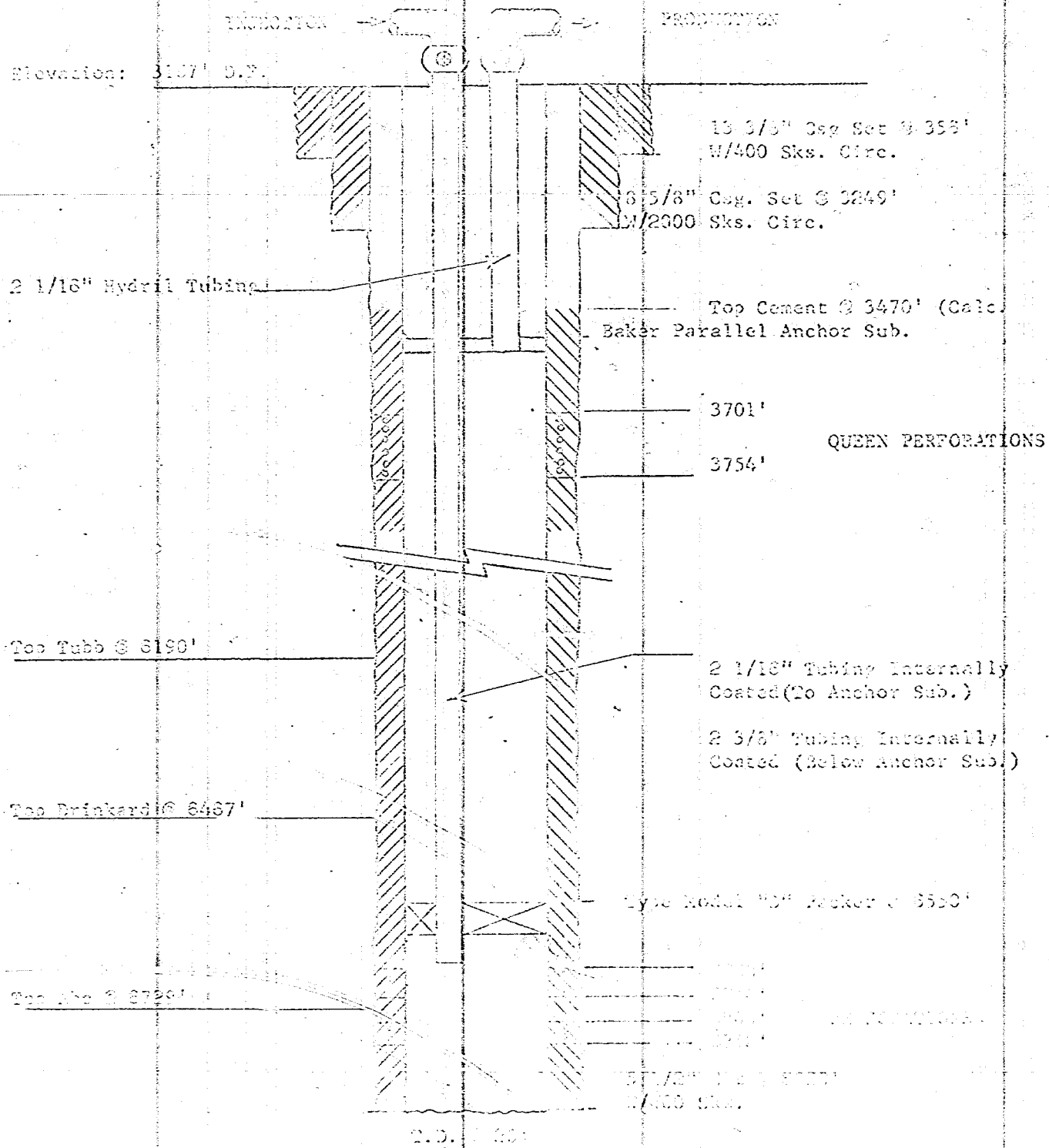
J. D. MC GEE WELL NO. 7

300' PSL & 300' PDL, SECTION 31, T 24 S, R 33 E
LEA COUNTY, NEW MEXICO

Elevation: 3128 D.F.



TEXACO INC.
 STRIPES WSP. WELL NO. 2
 660' FRL & 660' FRL. SECTION 19, T 24 S, R 30 E.
 LEA COUNTY, NEW MEXICO



1.0 V. 3.0 COMPLETION DRILLING UNIT

PERKINS, INC.

2-1/8" HYDRIL TUBING

2310' WEL & 2310' WEL, SECTION 19, T 24 S R 38 E

DEM. COMPANY, NEW MEXICO

EXPLORATION

PRODUCTION

Elevation: 3,883' A.T.

13 3/8" Csg. Set @ 389'
W/400 Circ.

8 5/8" Csg. Set @ 3245'
W/2000 Sks. Circ.

2-1/8" Hydril Tubing

Top Cement @ 3805' (Calc.)

Baker Parallel Anchor Sub.

3707'

QUEEN PERFORATIONS

3773'

Top Tub @ 3132'

2 1/8" Tubing Internally
Coated (To Anchor Sub.)
2 3/8" Tubing Internally
Coated (Below Anchor Sub)

Top Drinkard @ 3470'

Baker Model "D" Packer
@ 3530'

3819'

PERFORATIONS

Top Sub @ 3594'

3871'

5 1/2" Csg. Set @ 3875'
W/400 Sks.

T.D. 3875'

LARSEN, INC.
 ENGINEERED BY "A" UNIT NO. 5
 100' ASH & 1000' DIA., SECTION 19, T 24 S. R 38 E
 LIN. COUNTY, NEW MEXICO

Elevation: 3157' D.E.

13 3/8" Csg. Set @ 374'
 W/400 Circ.

8 5/8" Csg. Set @ 3250'
 W/2000 SKs. T.C. 1036' (Calc.)

Top Cement 4937' (Calc.)

2 3/8" Tubing Internally
 Coated

Top Cobb @ 5178'

Top Drinkard @ 6485'

Double Grip
 Packer @ Approx. 6614'

6684'

PERFORATIONS

Top Alb @ 6723'

6708'

5 1/2" Csg. Set @ 3349'
 W/400 SKs.

6850'

01/15 -
(Post) - 11/10 -
F. C. E.

L. C. CASE, P. E.

CONSULTANT, OIL FIELD WATER PROBLEMS

200 SUNSET DRIVE

TULSA, OKLAHOMA 74114

LUTHER 3-9307

February 2, 1968

CV 211-2668
Davis & Love
Mr. V. E. Klatchar, District Superintendant
Skelly Oil Company
Hobbs, New Mexico

Subject: Water Analysis
Dollarhide Tubb-Drinkard

Dear Sir:

Your subject letter of January 29 and the water samples were received. The requested tests were as follows.

Sample no. -		1	2
Description-		Jal Water System Supply Water, taken from 6" main valve. Sec. 32-24s-38e. Drinkard outlet near plant site.	Mexico "K" Lease Taken from gunbarrel Sec. 29-24s-38e Dollarhide Drinkard.
Milli-grams per liter	Sodium, Na	1,683	62,088
	Calcium, Ca	649	11,058
	Magnesium, Mg	240	3,689
	Sulfate, SO ₄	2,050	940
	Chloride, Cl	2,400	125,250
	Bicarbonate, HCO ₃	915	177
	Carbonate, CO ₃	nil	nil
Total Solids		7,937	203,202
Sp.Gr. at 60°F		1.006	1.142
Dissolved iron, Fe		nil	11.0 mg/l before filter 1.2 " after "
Hydrogen sulfide, H ₂ S		Much	Not present

SKELLY OIL CO.

Definition of Water Character (Palmer Values)

EXHIBIT NO. <i>H</i>	Primary Salinity	58.42	75.94
DOCKET OR CASE NO. <i>4134</i>	Secondary Salinity	29.62	23.98
	Primary Alkalinity	0.00	0.00
	Secondary Alkalinity	11.96	0.08
		100.00%	100.00%

DATE MAY 21 1969

Compatibility Tests: Mixed in % as shown, 24 hrs. standing time:

Mixture-	A	B	C
Sample 1-	25%	50%	75%
Sample 2-	75%	50%	25%
Turbidity, as CaCO ₃ , lbs/1,000 bbl-	1.3	1.1	1.0

R-38-E

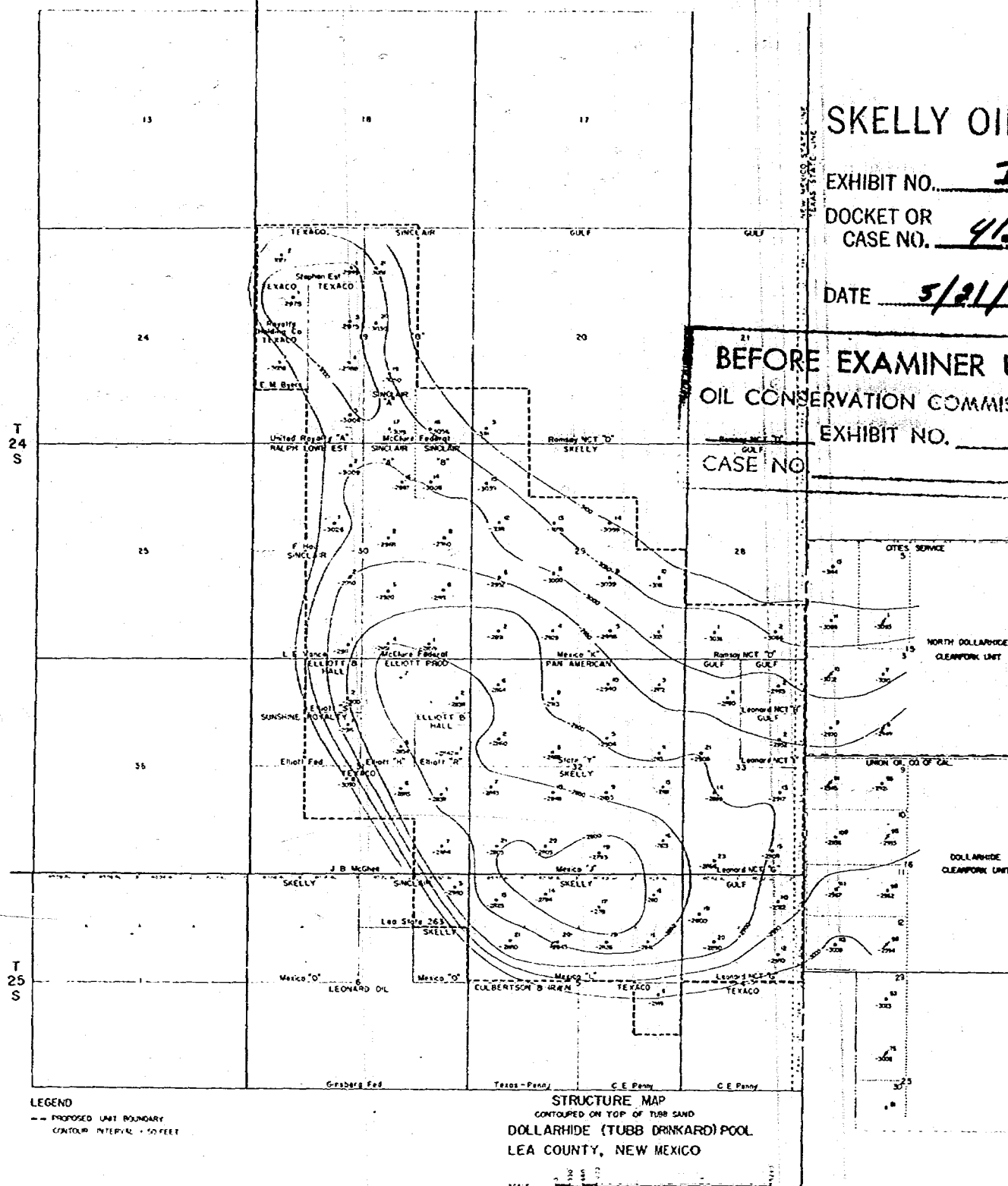
EXHIBIT NO. I

DOCKET OR
CASE NO. 4134

DATE 5/21/69

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION

EXHIBIT NO. _____
CASE NO. _____



WEST DOLLARHIDE DRINKARD UNIT

LEA COUNTY, NEW MEXICO

Open lease for 20 years

Unit Well No.	Tract Number	Former Operator	Former Lease and Well Number
1	3	Atlantic-Richfield Co.	McClure "B" Well No. 21 <i>8-17-24-38</i>
2	18	Texaco, Inc.	W. L. Stephens Est. Well No. 1 <i>2-17-24-38</i>
3	18	Texaco, Inc.	W. L. Stephens Est. Well No. 2 <i>2-17-24-38</i>
4	19	Texaco, Inc.	Royalty Holding Co. Well No. 1 <i>2-17-24-38</i>
5	21	Texaco, Inc.	United Royalty "A" Well No. 3 <i>2-17-24-38</i>
6	3	Atlantic-Richfield Co.	McClure "B" Well No. 20 <i>2-17-24-38</i>
7	3	Atlantic-Richfield Co.	McClure "B" Well No. 19 <i>2-17-24-38</i>
8	21	Texaco, Inc.	United Royalty "A" Well No. 1 <i>2-17-24-38</i>
9	20	Texaco, Inc.	E. M. Byers Well No. 1 <i>2-17-24-38</i>
10	21	Texaco, Inc.	United Royalty "A" Well No. 5 <i>2-17-24-38</i>
11	2	Atlantic-Richfield Co.	McClure "A" Well No. 17 <i>2-17-24-38</i>
12	3	Atlantic-Richfield Co.	McClure "B" Well No. 18 <i>2-17-24-38</i>
13	11	Gulf Oil Corporation	W. A. Ramsey NCT-D Well No. 3 <i>2-17-24-38</i>
14	12	Skelly Oil Company	Mexico "K" Well No. 15 <i>2-17-24-38</i>
15	3	Atlantic-Richfield Co.	McClure "B" Well No. 14 <i>2-17-24-38</i>
16	2	Atlantic-Richfield Co.	McClure "A" Well No. 16 <i>2-17-24-38</i>
17	22	Ralph Lowe	F. Hair Well No. 2 <i>2-17-24-38</i>
18	22	Ralph Lowe	F. Hair Well No. 1 <i>2-17-24-38</i>
19	2	Atlantic-Richfield Co.	McClure "A" Well No. 2 <i>2-17-24-38</i>
20	2	Atlantic-Richfield Co.	McClure "A" Well No. 8 <i>2-17-24-38</i>
21	12	Skelly Oil Company	Mexico "K" Well No. 12 <i>2-17-24-38</i>
22	12	Skelly Oil Company	Mexico "K" Well No. 13 <i>2-17-24-38</i>
23	12	Skelly Oil Company	Mexico "K" Well No. 14 <i>2-17-24-38</i>
24	12	Skelly Oil Company	Mexico "K" Well No. 10 <i>2-17-24-38</i>
25	12	Skelly Oil Company	Mexico "K" Well No. 9 <i>2-17-24-38</i>
26	12	Skelly Oil Company	Mexico "K" Well No. 8 <i>2-17-24-38</i>
27	12	Skelly Oil Company	Mexico "K" Well No. 6 <i>2-17-24-38</i>
28	2	Atlantic-Richfield Co.	McClure "A" Well No. 6 <i>2-17-24-38</i>
29	2	Atlantic-Richfield Co.	McClure "A" Well No. 5 <i>2-17-24-38</i>
30	23	Atlantic-Richfield Co.	L. E. Vance Well No. 2 <i>2-17-24-38</i>
31	23	Atlantic-Richfield Co.	L. E. Vance Well No. 1 <i>2-17-24-38</i>
32	2	Atlantic-Richfield Co.	McClure "A" Well No. 4 <i>2-17-24-38</i>
33	2	Atlantic-Richfield Co.	McClure "A" Well No. 1 <i>2-17-24-38</i>
34	12	Skelly Oil Company	Mexico "K" Well No. 2 <i>2-17-24-38</i>
35	12	Skelly Oil Company	Mexico "K" Well No. 4 <i>2-17-24-38</i>
36	12	Skelly Oil Company	Mexico "K" Well No. 5 <i>2-17-24-38</i>
37	12	Skelly Oil Company	Mexico "K" Well No. 1 <i>2-17-24-38</i>
38	11	Gulf Oil Corporation	W. A. Ramsey NCT-D Well No. 1 <i>2-17-24-38</i>
39	10	Gulf Oil Corporation	W. A. Ramsey NCT-D Well No. 2 <i>2-17-24-38</i>
40	8	Gulf Oil Corporation	H. Leonard NCT-H Well No. 2 <i>2-17-24-38</i>
41	14	Gulf Oil Corporation	H. Leonard NCT-G Well No. 1 <i>2-17-24-38</i>
42	13	Pan American	State "Y" Well No. 3 <i>2-17-24-38</i>
43	13	Pan American	State "Y" Well No. 10 <i>2-17-24-38</i>
44	13	Pan American	State "Y" Well No. 9 <i>2-17-24-38</i>
45	13	Pan American	State "Y" Well No. 6 <i>2-17-24-38</i>
46	5	Elliott Production Co.	Elliott Fed. "H" Well No. 2 <i>2-17-24-38</i>
47	5	Elliott Production Co.	Elliott Fed. "H" Well No. 7 <i>2-17-24-38</i>
48	7	Elliott Production Co.	Elliott "S" Well No. 2 <i>2-17-24-38</i>

Unit Well No.	Tract Number	Former Operator	Former Lease and Well Number
49	4	Sunshine Royalty Co.	Elliott Fed. Well No. 1 F-31-24-38
50	5	Elliott Production Co.	Elliott Fed. "H" Well No. 6
51	6	Elliott Production Co.	Elliott "R" Well No. 1 H-31-24-38
52	13	Pan American	State "Y" Well No. 2
53	13	Pan American	State "Y" Well No. 8 F-32-24-38
54	13	Pan American	State "Y" Well No. 5
55	13	Pan American	State "Y" Well No. 11 H-32-24-38
56	14	Gulf Oil Corporation	H. Leonard NCT-G Well No. 21
57	9	Gulf Oil Corporation	H. Leonard NCT-I Well No. 2 F-33-24-38
58	14	Gulf Oil Corporation	H. Leonard NCT-G Well No. 13
59	14	Gulf Oil Corporation	H. Leonard NCT-G Well No. 14 F-33-24-38
60	15	Skelly Oil Company	Mexico "J" Well No. 15
61	15	Skelly Oil Company	Mexico "J" Well No. 9 J-32-24-38
62	15	Skelly Oil Company	Mexico "J" Well No. 10
63	15	Skelly Oil Company	Mexico "J" Well No. 7 K-32-24-38
64	25	Texaco, Inc.	J. B. McGhee Well No. 1
65	25	Texaco, Inc.	J. B. McGhee Well No. 6 J-31-24-38
66	24	Texaco, Inc.	J. B. McGhee Well No. 8
67	25	Texaco, Inc.	J. B. McGhee Well No. 7 P-31-24-38
68	15	Skelly Oil Company	Mexico "J" Well No. 21
69	15	Skelly Oil Company	Mexico "J" Well No. 20 H-32-24-38
70	15	Skelly Oil Company	Mexico "J" Well No. 19
71	15	Skelly Oil Company	Mexico "J" Well No. 16 P-32-24-38
72	14	Gulf Oil Corporation	H. Leonard NCT-G Well No. 23
73	14	Gulf Oil Corporation	H. Leonard NCT-G Well No. 15 V-33-24-38
74	14	Gulf Oil Corporation	H. Leonard NCT-G Well No. 10
75	14	Gulf Oil Corporation	H. Leonard NCT-G Well No. 19 D-4-25-38
76	16	Skelly Oil Company	Mexico "L" Well No. 16
77	16	Skelly Oil Company	Mexico "L" Well No. 17 B-5-25-38
78	16	Skelly Oil Company	Mexico "L" Well No. 14
79	16	Skelly Oil Company	Mexico "L" Well No. 15 D-5-25-38
80	17	Atlantic-Richfield Co.	Lea State 263 Well No. 3
81	16	Skelly Oil Company	Mexico "L" Well No. 21
82	16	Skelly Oil Company	Mexico "L" Well No. 20 F-5-25-38
83	16	Skelly Oil Company	Mexico "L" Well No. 19
84	16	Skelly Oil Company	Mexico "L" Well No. 18 H-5-25-38
85	14	Gulf Oil Corporation	H. Leonard NCT-G Well No. 20
86	14	Gulf Oil Corporation	H. Leonard NCT-G Well No. 12 F-4-25-38
87	1	Texaco, Inc.	C. E. Penney Well No. 6



PETROLEUM PRODUCTS

PRODUCING DEPARTMENT - UNITED STATES
MIDLAND DIVISION

April 9, 1970

APR 13 AM 8 34

TEXACO INC.
P. O. BOX 3109
MIDLAND, TEXAS 79701

APPLICATION FOR MULTIPLE COMPLETION
WEST DOLLARHIDE DRINKARD UNIT
WELL NO. 9
LEA COUNTY, NEW MEXICO

State of New Mexico
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

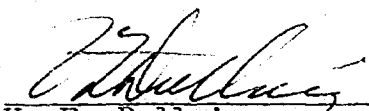
Texaco Inc. has been advised by Skelly Oil Company that they have filed an application with the Oil Conservation Commission for permission to dually complete their West Dollarhide Drinkard Unit Well No. 9 in Lea County, New Mexico.

Texaco Inc., as an offset operator, waives objection to this application.

The application also requested Texaco to furnish the Oil Conservation Commission with a log of the well that is to be dually completed since it is a Texaco well. Please find this log attached as requested.

Yours very truly,

Darrell Smith
Division Manager

By 
V. F. Dullnig
Assistant Division Manager

CHF/pw

Attachment

cc: Skelly Oil Company
Drawer "H"
Monahans, Texas 79756

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION.

IN THE MATTER OF THE APPLICATION OF SKELLY OIL COMPANY FOR AN ORDER AUTHORIZING THE INJECTION OF FLUID FOR SECONDARY RECOVERY PURPOSES INTO THE WEST DOLLARHIDE TUBB-DRINKARD POOL ON THE WEST DOLLARHIDE TUBB-DRINKARD UNIT LOCATED IN ALL WELL PORTIONS OF SECTION 19, 28, 29, 30, 31, 32 AND 33, TOWNSHIP 24 SOUTH, RANGE 38 EAST AND SECTIONS 4, 5 AND 6, TOWNSHIP 25 SOUTH, RANGE 38 EAST, LEA COUNTY, NEW MEXICO, AND FOR THE PROMULGATION OF SPECIAL RULES GOVERNING THE OPERATION OF SAID UNIT.

CASE NO.

FILED

HEARING

APPLICATION

Comes now Skelly Oil Company and alleges and states:

1. That it is the operator of the West Dollarhide Tubb-Drinkard Unit containing 3,533.52 acres of federal, state and fee lands described as follows:

Township 24 South, Range 38 East

All of Section 19 except NE/4 and NE NW, the S/2 of S/2 of fractional Section 28, All of Section 29 except the N/2 of the N/2 and the SE of the NE. All of Section 30, All of Section 31 except the SW of the NW, the N/2 of the SW and the SE of the SW, All of Section 32, All of fractional Section 33.

Township 25 South, Range 38 East

N/2 of fractional Section 4, N/2 of Section 5 and NE NE Quarter, N/2 NE Quarter of Section 6 and SE of NE.

2. That an application for approval of the Unit Agreement for said Unit has been filed with this Commission.

3. That in order to carry out the secondary recovery operations as contemplated by the Unit Agreement, to prevent waste and to recover oil and associated hydrocarbons which would not otherwise be recovered, applicant desires to inject fluid into certain wells within the unit area for injection into the West Dollarhide Tubb-Drinkard Unit, pursuant to Rule 701 of this Commission.

4. That applicant proposes to convert the following 43 wells and utilize same for injection purposes:

<u>COMPANY</u>	<u>LEASE</u>	<u>WELL #</u>	<u>LOCATION</u> <u>UNIT SEC-T-R</u>
Texaco, Inc.	Paul Stephens	2	D 19-24-38
Texaco, Inc.	E. M. Byers	1	L 19-24-38
Texaco, Inc.	United Royalty "A"	3	F 19-24-38
Texaco, Inc.	United Royalty "A"	5	N 19-24-38
Sinclair Oil & Gas Company	McClure Fed.	21	B 19-24-38
Sinclair Oil & Gas Company	McClure Fed.	19	J 19-24-38
Sinclair Oil & Gas Company	McClure Fed.	18	P 19-24-38
Ralph Lowe	F. Hair	1	F 30-24-38
Sinclair Oil & Gas Company	L. E. Vance	1	N 30-24-38
Sinclair Oil & Gas Company	McClure Fed.	1	P 30-24-38
Sinclair Oil & Gas Company	McClure Fed.	5	J 30-24-38
Sinclair Oil & Gas Company	McClure Fed.	8	H 30-24-38
Sinclair Oil & Gas Company	McClure Fed.	16	B 30-24-38
Skelly Oil Company	Mexico "K"	1	P 29-24-38
Skelly Oil Company	Mexico "K"	4	N 29-24-38
Skelly Oil Company	Mexico "K"	6	L 29-24-38
Skelly Oil Company	Mexico "K"	9	J 29-24-38

DOCKET MARKED

5-9-69

(Continued)

<u>COMPANY</u>	<u>LEASE</u>	<u>WELL #</u>	<u>LOCATION</u> <u>UNIT SEC-T-R</u>
Skelly Oil Company	Mexico "K"	13	F 29-24-38
Skelly Oil Company	Mexico "K"	15	D 29-24-38
* Gulf Oil Corporation	Ramsay "D"	2	N 28-24-38
* Gulf Oil Corporation	Leonard "I"	2	F 33-24-38
Gulf Oil Corporation	Leonard "G"	11	D 33-24-38
Gulf Oil Corporation	Leonard "G"	14	L 33-24-38
* Gulf Oil Corporation	Leonard "G"	15	N 33-24-38
Skelly Oil Company	Mexico "J"	7	L 32-24-38
Skelly Oil Company	Mexico "J"	9	J 32-24-38
Skelly Oil Company	Mexico "J"	16	P 32-24-38
Skelly Oil Company	Mexico "J"	20	N 32-24-38
Pan American	State "Y"	11	H 32-24-38
Pan American	State "Y"	8	F 32-24-38
Pan American	State "Y"	10	B 32-24-38
Pan American	State "Y"	6	D 32-24-38
Texaco, Inc.	J. B. McGhee	6	J 31-24-38
Texaco, Inc.	J. B. McGhee	7	P 31-24-38
Elliott Production	Elliott "H"	7	B 31-24-38
Elliott and Hall	Elliott "R"	1	H 31-24-38
Sunshine Royalty	Elliott Fed.	1	F 31-24-38
Skelly Oil Company	Mexico "L"	15	D 5-25-38
Skelly Oil Company	Mexico "L"	17	B 5-25-38
Skelly Oil Company	Mexico "L"	18	H 5-25-38
Skelly Oil Company	Mexico "L"	20	F 5-25-38
* Gulf Oil Corporation	Leonard "G"	12	F 4-25-38
Gulf Oil Corporation	Leonard "G"	19	D 4-25-38

All in Lea County, New Mexico

*Conversion of these four wells will be temporarily delayed until lease line agreements are made.

5. That attached hereto and made a part hereof is a map, labeled Exhibit "A", which shows the location of the proposed injection wells and the location of all other wells within a radius of two miles from said proposed injection wells, and the formation from which said wells are producing, and that also indicated on said exhibit are the lessees within said two-mile radius.

6. That attached hereto and made a part hereof is Exhibit "F" which contains the diagrammatic sketches of the proposed injection wells showing the casing strings, including diameter and setting depths, quantities used and top of cement, perforated or open hole intervals, tubing strings, including diameters and setting depths, and the type and location of packers.

7. That the formation sought to be waterflooded and into which injection will be made is the West Dollarhide Tubb-Drinkard Formation underlying the Unit Area, the same being the heretofore established underground reservoir which has been found to occur between the depths of 5950 feet and 7367 feet in Skelly Oil Company's Mexican "L" No. 3 Well in Section 5, Township 25 South, Range 38 East, Lea County, New Mexico.

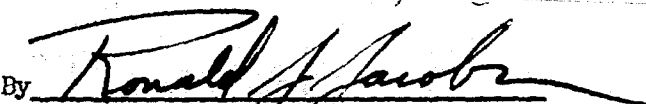
8. That the fluid sought to be injected is water, and the anticipated volumes to be injected are 900 - 1,000 B/WPD, and that the source of said injection fluid is water produced from the unit area wells and Skelly's Ogallala formation from the Seven Rivers formation and Capitan Reef.

WHEREFORE, PREMISES CONSIDERED, applicant prays that this Commission, after the giving of notice as required by law, set this matter down for hearing, and that at the conclusion of said hearing based on the evidence adduced enter its order granting the applicant permission to conduct a waterflood project on the West Dollarhide Tubb-Drinkard Unit by utilizing as injection wells the wells above described, with said secondary recovery project to be governed by the provisions of Rule 701, for permission to expand or change the waterflood program by administrative means without the necessity of a separate hearing, for appropriate field rules if necessary, and for such other orders, rules and regulations as may be necessary in the premises.

Respectfully submitted,

SKELLY OIL COMPANY

By 
George W. Selinger

By 
Ronald J. Jacobs
Its Attorneys

Of Counsel:
L. C. White
White, Gilbert, Koch & Kelly
P. O. Box 787
Santa Fe, New Mexico

OFFSET ADDRESS LIST

Continental Oil Company
P. O. Box 460
Hobbs, New Mexico 88240

Culbertson Wallace, Irwin & Southern Petroleum Corp.
P. O. Box 1071
Midland, Texas 79701

Enfield, Robert N.
J. P. Wite Building
Roswell, New Mexico 88201

Leonard Oil
R. J. Leonard
500 North Main
Roswell, New Mexico 88201

George Leonard 201 North Cambridge
Hagerman, New Mexico

Redfern Development Corp.
P. O. Box 1747
Midland, Texas 79701

Livaudais Jr.
Operated by Enfield (See Above)

*Case
4134*

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

April 1, 1970

Skelly Oil Company
P. O. Box 1351
Midland, Texas 79701

Attention: Mr. P. L. Nunley

Re: Application for multiple completion
of the West Dollarhide Drinkard Unit
Well No. 9, Unit I, Section 19, Town-
ship 24 South, Range 38 East, Lea
County, New Mexico

Gentlemen:

I have received your application of March 26, 1970,
for administrative approval for the dual completion of
the subject well and Order No. R-3768 which authorized
Skelly Oil Company to institute a waterflood project in
the West Dollarhide Unit Area.

As the testimony and exhibits introduced in Case
4134 explained that the subject well would be completed
as a dual completion in the manner you now seek, it is
my opinion that such completion was authorized by said
Order No. R-3768 and no further authorization is neces-
sary. The Hobbs office of the Commission is being advised
of this opinion by a copy of this letter.

Very truly yours,

GEORGE M. HATCH
Attorney

GMH/esr

cc: Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico



SKELLY OIL COMPANY

EXPLORATION & PRODUCTION DEPARTMENT
WEST CENTRAL DISTRICT

P. L. NUNLEY, PRODUCTION MANAGER
B. A. STRICKLING, OPERATIONS SUPERINTENDENT
C. J. LOVE, DISTRICT ENGINEER
F. J. PETRO, DISTRICT PRODUCTION ENGINEER
J. D. MCCLAIN, DISTRICT RESERVOIR ENGINEER

March 26, 1970

ADDRESS REPLY TO:
P. O. BOX 1351
MIDLAND, TEXAS 79701

Re: Application for Multiple Completion
West Dollarhide Drinkard Unit
Well No. 9
Lea County, New Mexico

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
P. O. Box 1980
Hobbs, New Mexico 88240

Gentlemen:

Skelly Oil Company, as Operator of the West Dollarhide Drinkard Unit, hereby makes application for administrative approval of the attached dual completion application for the West Dollarhide Drinkard Unit Well No. 9.

This well is carried on the proration schedule as a Queen Sand producer (Texaco's E. M. Byars No. 1); and is to be converted to a dual installation for:

- (1) injection into the Tubb-Drinkard Zone by Skelly and
- (2) production from the Queen Sand Zone by Texaco.

The subject well was drilled and completed in the Tubb Drinkard interval on October 5, 1953 by Texaco; and subsequently plugged back to the Queen Sand interval on September 23, 1954 by the same operator. The rights to the Tubb Drinkard Zone in this well were contributed to the West Dollarhide Drinkard Unit on the effective date of the Unit (June 1, 1969); and use of this well as an injector was approved under Order No. R-3768 dated May 28, 1969.

Skelly Oil Company, as operator of the West Dollarhide Queen Sand Unit, hereby waives objection to dual completion of this well as a north offset to the West Dollarhide Queen Sand Unit Well No. 3.

Oil Conservation Commission

Page Two

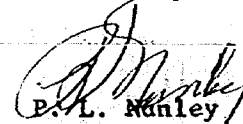
March 26, 1970

By copy of this letter, Texaco is being furnished a copy of this application and requested to furnish your office the following data to complete your file on this matter:

- (1) A log of this well, marked as stipulated on Form C-107.
- (2) A waiver consenting to such multiple completion as offset operator.

We trust this application and the attachments will provide the required data to permit your consideration of this matter,

Yours very truly,



P. L. Nunley
District Production Manager

OVS/df

Attachments

cc: Texaco, Inc.

P. O. Box 728

Hobbs, New Mexico 88240

Mr. G. W. Selinger

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Operator SKELLY OIL COMPANY		County Lea	Date March 26, 1970
Address P. O. Box 1351, Midland, Texas 79701		Lease West Dollarhide Drinkard Unit	Well No. 9
Location of Well	Unit L	Section 19	Township 24S
			Range 38E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☒ NO ☐
2. If answer is yes, identify one such instance: Order No. R-1551; Operator Lease, and Well No.: Texaco, Inc. United Royalty "A" Well No. 3, Unit F Section 19, T24S, R38E

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Dollarhide Queen Sd.		Dollarhide Tubb-Drinkard
b. Top and Bottom of Pay Section (Perforations)	3680' - 3736'		6632' - 6666'
c. Type of production (Oil or Gas)	Oil		Water Injection
d. Method of Production (Flowing or Artificial Lift)	Artificial Lift		

4. The following are attached. (Please check YES or NO)

- | | | |
|-------------------------------------|-------------------------------------|---|
| Yes | No | |
| ☒ | ☐ | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| ☒ | ☐ | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. |
| ☒ | ☐ | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* |
| ☐ | ☒ | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.) |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Texaco, Inc. P. O. Box 728, Hobbs, New Mexico 88240

Skelly Oil Company, P. O. Box 1351, Midland, Texas 79701

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☒ NO ☐. If answer is yes, give date of such notification March 26, 1970.

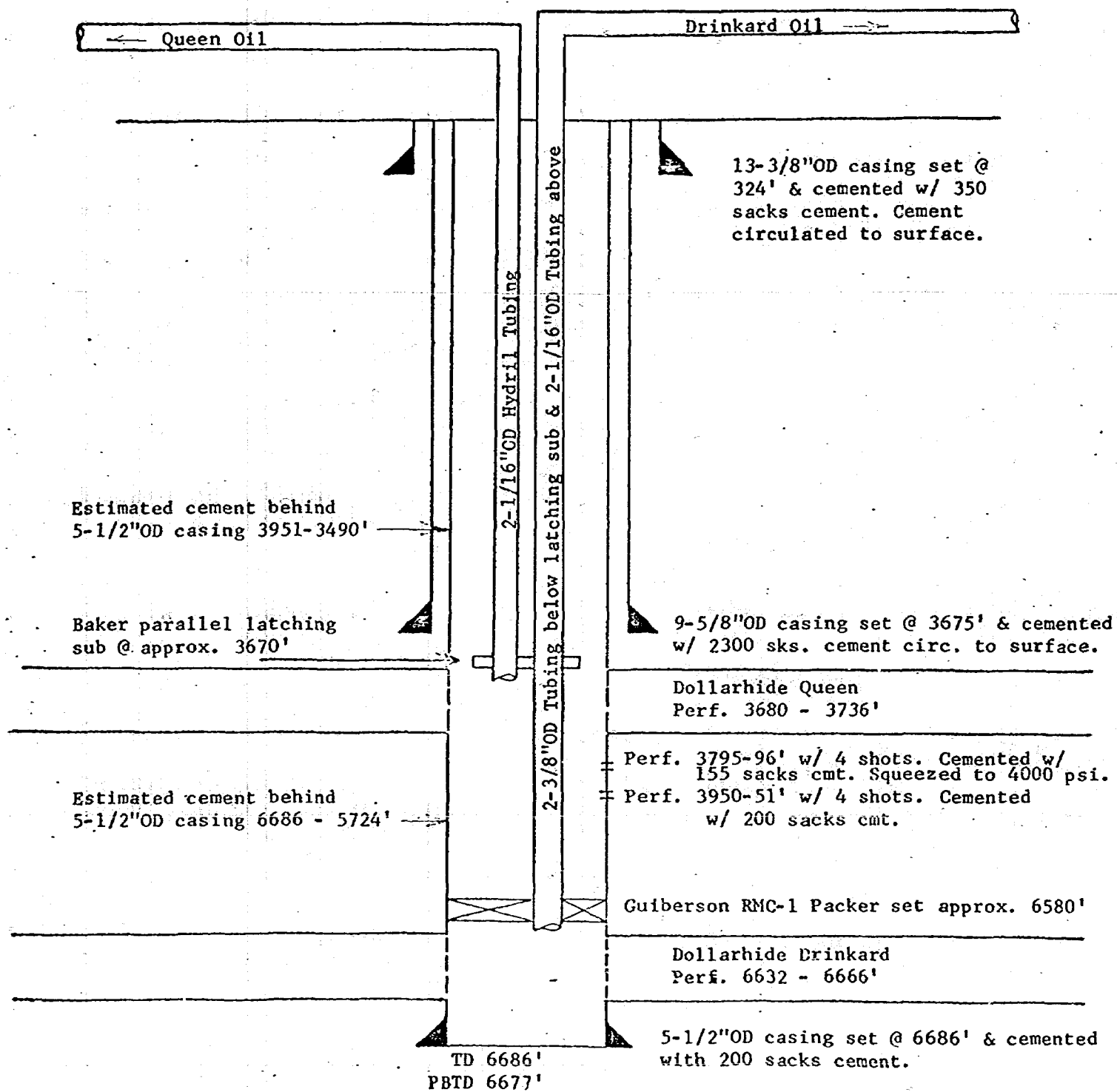
CERTIFICATE: I, the undersigned, state that I am the Dist. Prod. Manager of the Skelly Oil Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

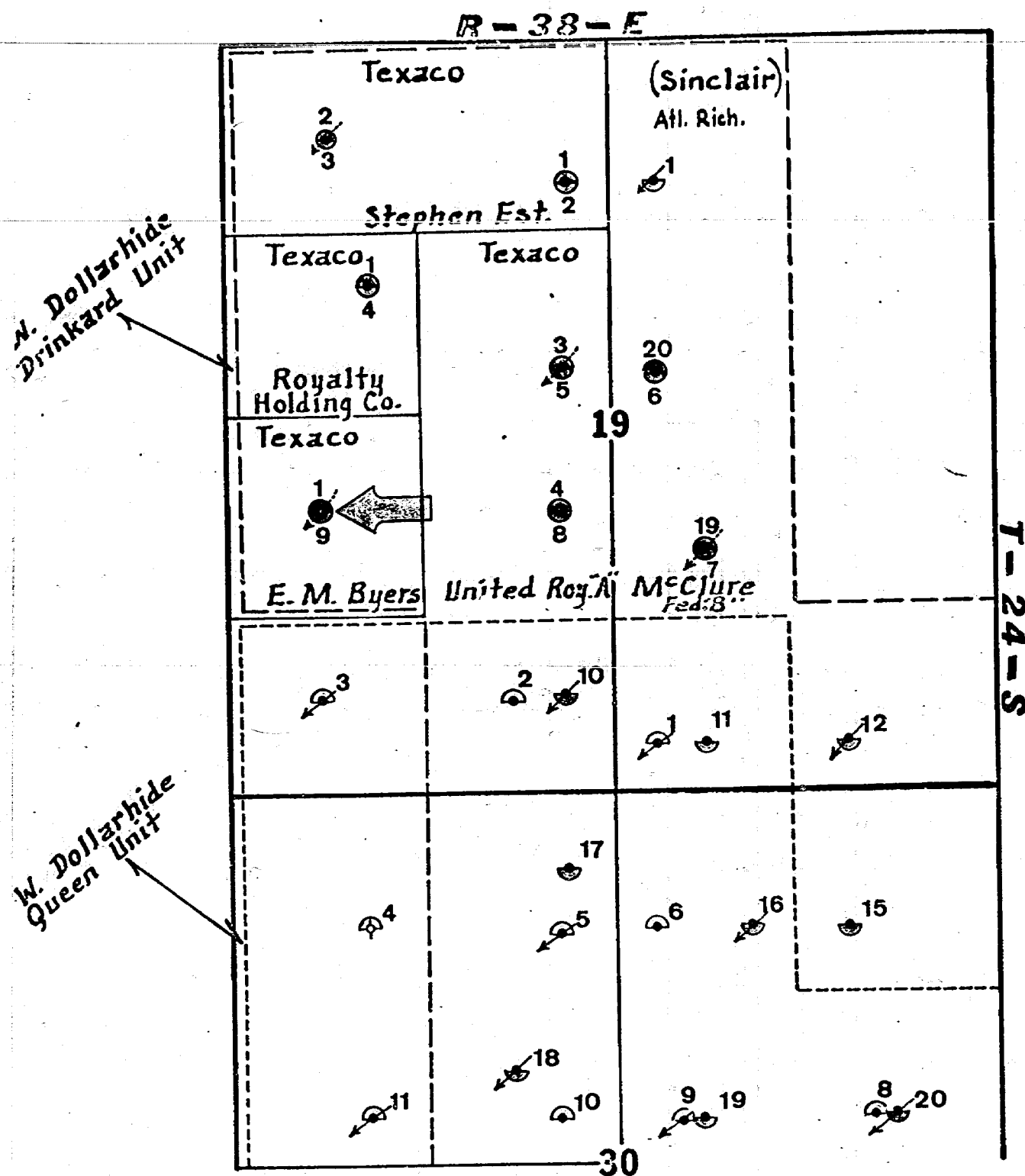
P. B. Nunley Signature

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

DIAGRAMMATIC SKETCH SHOWING
 PROPOSED DUAL COMPLETION INSTALLATION
 WEST DOLLARHIDE DRINKARD UNIT WELL NO. 9
 1981' FSL & 660' FWL, Sec. 19, T24S, R38E
 LEA COUNTY, NEW MEXICO





LEA COUNTY, NEW MEXICO

Legend

- 
 Dual-Upper Zone (blue) Queen producing oil well-Operator, lease & well numbers shown
- 
 Lower zone (red) West Dollarhide Drinkard Unit producing oil well
- 
 Dual-Upper zone (blue) Queen producing oil well-Operator, lease and well number shown
- 
 Lower zone (red) West Dollarhide Drinkard Unit proposed water injection well
- 
 West Dollarhide Drinkard Unit - producing oil well
- 
 West Dollarhide Drinkard Unit - Water Injection well
- 
 West Dollarhide Queen Sand Unit - producing oil well
- 
 West Dollarhide Queen Sand Unit - Water injection well

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. 4134

Order No. R- 3768

APPLICATION OF SKELLY OIL COMPANY
FOR A WATERFLOOD PROJECT, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 21, 1969,
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 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, Skelly Oil Company,
seeks permission to institute a waterflood project in the West
Dollarhide
Dollarhide Drinkard Unit Area, Tubb-Drinkard Pool, by
the injection of water into the Tubb-Drinkard formation
through 43 injection wells in ~~Section~~ 25 ~~xxxxxxxxxxxxxxxxxxxxxxxx~~
Townships 24 and/ ~~North~~ South, Range 38 ~~West~~ East, NMPM,
Lea County, New Mexico.

(3) That the applicant further seeks an administrative
procedure whereby said project could be expanded to include
additional lands and injection wells in the area of the said
project as may be necessary in order to complete an efficient
injection pattern; that said administrative procedure should
provide for administrative approval for conversion to water
injection in exception to the well response requirements of
Rule 701 E-5 of the Commission Rules and Regulations.

(SEE UNDER)

(6) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations; provided however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

(1) That the applicant, Skelly Oil Company (SEE UNDER), is hereby authorized to institute a waterflood project in the Dollarhide West Dollarhide Drinkard Unit Area, Tubb-Drinkard Pool, by the injection of water into the Tubb-Drinkard formation 43 Lea County, New Mexico: through the following-described/wells in/~~Tubb-Drinkard~~

COMPANY	LEASE	Well		LOCATION		
		No.	Unit	Sec.	T	R
Texaco Inc.	Paul Stephens	2	D	19	24S	38E
Texaco Inc.	E. M. Byers	1	L	19	24S	38E
Texaco Inc.	United Royalty "A"	3	F	19	24S	38E
Texaco Inc.	United Royalty "A"	5	N	19	24S	38E
Sinclair Oil & Gas Co.	McClure Fed.	21	B	19	24S	38E
Sinclair Oil & Gas Co.	McClure Fed.	19	J	19	24S	38E
Sinclair Oil & Gas Co.	McClure Fed.	18	P	19	24S	38E
Gulf Oil Corporation	Ramsay "D"	2	N	28	24S	38E
Skelly Oil Company	Mexico "K"	1	P	29	24S	38E
Skelly Oil Company	Mexico "K"	4	N	29	24S	38E
Skelly Oil Company	Mexico "K"	6	L	29	24S	38E
Skelly Oil Company	Mexico "K"	9	J	29	24S	38E
Skelly Oil Company	Mexico "K"	13	F	29	24S	38E
Skelly Oil Company	Mexico "K"	15	D	29	24S	38E
Ralph Lowe	F. Hair	1	F	30	24S	38E
Sinclair Oil & Gas Co.	L. E. Vance	1	N	30	24S	38E
Sinclair Oil & Gas Co.	McClure Fed.	1	P	30	24S	38E
Sinclair Oil & Gas Co.	McClure Fed.	5	J	30	24S	38E
Sinclair Oil & Gas Co.	McClure Fed.	8	H	30	24S	38E
Sinclair Oil & Gas Co.	McClure Fed.	16	B	30	24S	38E
Texaco Inc.	J. B. McGhee	6	J	31	24S	38E
Texaco Inc.	J. B. McGhee	7	P	31	24S	38E
Elliott Production	Elliott "H"	7	B	31	24S	38E
Elliott and Hall	Elliott "R"	1	H	31	24S	38E
Sunshine Royalty	Elliott Fed.	1	F	31	24S	38E
Skelly Oil Company	Mexico "J"	7	L	32	24S	38E
Skelly Oil Company	Mexico "J"	9	J	32	24S	38E
Skelly Oil Company	Mexico "J"	16	P	32	24S	38E
Skelly Oil Company	Mexico "J"	20	N	32	24S	38E
Pan American	State "Y"	11	H	32	24S	38E
Pan American	State "Y"	8	F	32	24S	38E
Pan American	State "Y"	10	B	32	24S	38E
Pan American	State "Y"	6	D	32	24S	38E
Gulf Oil Corporation	Leonard "I"	2	F	33	24S	38E
Gulf Oil Corporation	Leonard "G"	11	D	33	24S	38E
Gulf Oil Corporation	Leonard "G"	14	L	33	24S	38E
Gulf Oil Corporation	Leonard "G"	15	N	33	24S	38E
Gulf Oil Corporation	Leonard "G"	12	F	4	25S	38E
Gulf Oil Corporation	Leonard "G"	19	D	4	25S	38E
Skelly Oil Company	Mexico "L"	15	D	5	25S	38E
Skelly Oil Company	Mexico "L"	17	B	5	25S	38E
Skelly Oil Company	Mexico "L"	18	H	5	25S	38E
Skelly Oil Company	Mexico "L"	20	F	5	25S	38E

(See Under)