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mall Exhibits, Etc.

GOVERNOR EDWIN L. MECHEM CHAIRMAN

State of New Mexico il Conservation Commission

LAND COMMISSIONER E. S. JOHNNY WALKER



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

P. O. BOX 87 BANTA FE

June 15, 1962

Re:

Mr. Randall F. Montgomery P. O. Box 2414 Hobbs, New Mexico Case No. 2231
Order No. 2261
Applicant:

RANDALL F. NOWTGOMERY

Dear Sir:

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

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ir/

Carbon copy of order also sent to:

Hobbs OCC _____
Artesia OCC_____
Aztec OCC____

OTHER

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. 2571 Order No. R-2261

APPLICATION OF RANDALL F. MONTGOMERY FOR AN EXCEPTION TO ORDER NO. R-111-A, LEA COUNTY, MES MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on June 7, 1962, at Santa Fe, New Mexico, before Daniel S. Mutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

MOW, on this 14th day of June, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, 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 following-described wells located in the Salt Lake Pool, Lea County, New Mexico, were drilled and produced, and later plugged and abandoned, prior to the establishment of the rules governing the Potash Oil Area under Order No. R-lll-A:

Smith-18 Well No. 1, located in Unit B of Section 18; Brooks-7 Well No. 1, located in Unit M of Section 7; Brooks-7 Well No. 2, located in Unit N of Section 7; Brooks-7 Well No. 3, located in Unit O of Section 7; Brooks-7 Well No. 4, located in Unit K of Section 7;

all in Township 20 South, Range 33 East.

- (3) That the applicant, Randall F. Montgomery, seeks exception to the provisions of Order No. R-111-A, insofar as it pertains to the re-entry and casing program on the five above-described wells.
- (4) That the applicant proposes to clean out said wells to total depth, to run 4 1/2-inch liners from the surface into or

-2-CASE No. 2571 Order No. R-2261

through the producing horizon of the Salt Lake Pool, and to circulate cement behind the liners to the surface.

- (5) That inasmuch as the subject wells in all probability are improperly plugged, the proposal of the applicant should serve to protect the potash deposits in the area more adequately than they are protected at the present time.
- (6) That at such time as the subject wells are again to be plugged and abandoned, the applicant should be required to comply with the provisions of Order No. R-111-A.

IT IS THEREFORE ORDERED:

(1) That the applicant, Randall F. Montgomery, is hereby authorized to re-anter the following-described wells, located in the Salt Lake Pool, Lea County, New Mexico:

Smith-18 Well No. 1, located in Unit B of Section 18; Brooks-7 Well No. 1, located in Unit M of Section 7; Brooks-7 Well No. 2, located in Unit N of Section 7; Brooks-7 Well No. 3, located in Unit O of Section 7; Brooks-7 Well No. 4, located in Unit K of Section 7;

all in Township 20 South, Range 33 East.

- (2) That the applicant shall clean out said wells to total depth, run 4 1/2-inch liners from the surface into or through the producing horizons of the Salt Lake Pool, and circulate cement behind the liners to the surface.
- (3) That at such time as the subject wells are again to be plugged and abandoned, the provisions of Order No. R-III-A must be complied with.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Pe. New Mexico, on the day and year herein-

STATE OF NEW MEXICO
OLL CONSERVATION COMMISSION

EDEIN L. MECHEM, Chairman

S. WALKER, Member

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

esr/

TELEPHONE EX. 3-8536

HOR NAY 19 NA 8: 20

RANDALL F. MONTGOMERY

HOBBS, NEW MEXICO

May 17, 1962

Case, 2511

Mr. Richard Morris. Chief Counsel New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe. New Mexico

Dear Mr. Morris:

I submit herewith, in triplicate, my request for a hearing, at the earliest practicable date, to consider an exception to the provisions of Order R-lll-A insofar as it pertains to the re-entry and casing program on the following plugged and abandoned wells located in the Salt Lake Pool, Lea County, New Mexico:

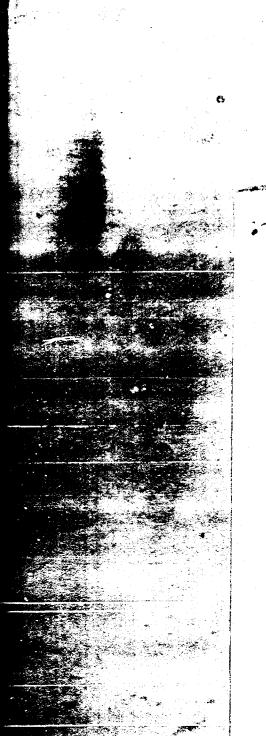
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|----------|-------|----------|---------------|--------|----------|---|
| Smith-18 | No. 1 | NAME Sec | . 18, T-20-S, | R-33-E | relled * | • |
| Brooks-7 | No. 1 | | 7, T-20-S | R-33-E | 2 PHA | |
| Brooks-7 | No. 2 | | 7. T-20-S. | R-33-E | | |
| Brooks-7 | No. 3 | | 7, T-20-S | | in 48 | |
| Brooks-7 | No. 4 | | 7, T-20-S | | | |

Basically the requested hearing seeks relief from the provisions of R-111-A pertaining to the running of casing to the Top of the Anhydrite. This is necessary, if the subject wells are re-entered, due to the mechanical conditions as is indicated on the enclosed diagramatic sketch.

The subject wells were drilled, produced and plugged prior to the designation of an oil-potash area, and therefore, were not completed nor plugged in accordance with regulations presently in effect.

Applicant suggests that the requested program of cleaning out to total depth and the running of a 4½" liner from surface to total depth, with cement circulated to the surface, under supervision of the U.S.G.S. and the potash lessees, will more adequately protect the potash and oil deposits that may underlie the area. Further, that if applicant is successful in re-entering the subject wells, that the abandonment will be in accordance with existing regulations.

Charles las



Page 2 - Mr. Morris

In the event it is determined that the requested program is inadvisable, applicant requests permission to drill new wells in strict compliance with R-111-A but at unorthodox locations as fol-

Brooks - 7 No. 6 10' from South & 2310' from East line Sec. 7-20-33 330' from South & 1320' from West line Brooks - 7 No. 7 Sec. 7-20-33 1320' from South & 1980' from West line Sec. 7-20-33 Brooks - 7 No. 8

A carbon copy of this application has been forwarded to all interested parties known to applicant as follows:

Mr. James A. Knauf, U.S.G.S., Box 187, Artesia, New Mexico Mr. R. Fulton, U.S.G.S., Box 829, Carlsbad, New Mexico

Mr. Robert Lane, International Minerals & Chemical Corporation, Carlsbad, New Mexico Mr. Thomas Gamble, U. S. Borax & Chemical Corporation,

Carlsbad, New Mexico.

Respectfully requested,

RANDALL F. MONTGOMERY

RFM: 1b Enclosure

OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

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No. 17-62

DOCKET: EXAMINER HEARING - THURSDAY - JUNE 7, 1962

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

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

CASE 2571:

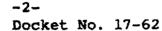
Application of Randall F. Montgomery for an exception to Order R-111-A, or in the alternative for three unorthodox oil well locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks exception to the provisions of Order R-111-A, insofar as it pertains to the re-entry and casing program on five plugged and abandoned wells in the Salt Lake Pool, four of which are located in Section 7, and one of which is located in Section 18, all in Township 20 South, Range 33 East, Lea County, New Mexico. Applicant further seeks permission, as an alternative request, to drill three new wells at unorthodox locations in the Salt Lake Pool as follows:

- (1) Brooks 7 Well No. 6, to be located 10 feet from the South line and 2310 feet from the East line;
- (2) Brooks 7 Well No. 7, to be located 330 feet from the South line and 1320 feet from the West line;
- (3) Brooks 7 Well No. 8, to be located 1320 feet from the South line and 1980 feet from the West line;

all in Section 7, Township 20 South, Range 33 East, Lea County. New Mexico.

CASE 2572:

Application of Tenneco Oil Company for an exception to Rule 21-a of Order No. R-1670, Basin-Dakota Gas Pool, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks permission to commingle the gas production from two wells in the Basin-Dakota Gas Pool located on the H. O. Watson Lease in Section 22, Township 27 North, Range 12 West, San Juan County, New Mexico, as an exception to the provisions of Rule 21-a of the Rules for the prorated gas pools of Northwestern New Mexico, Order No. R-1670. Applicant proposes to install one common tank battery and separating facility and to allocate monthly gas production to each well on the basis of deliverability tests and average flowing tubing pressures.



CASE 2573: Application of Phillips Petroleum Company for approval of an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval to locate its Santa Fe Well No. 68 at an unorthodox oil well location in the Vacuum-Abo Pool, 1650 feet from the North line and 1090 feet from the East line of Section 34, Township 17 South, Range 35 East, Lea County, New Mexico.

CASE 2574: Application of J. Gregory Merrion and Associates for compulsory pooling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an order of the Commission force pooling all interests in the Basin-Dakota Pool in the W/2 of Section 35, Township 25 North, Range 6 West, Rio Arriba County, New Mexico.

CASE 2575: Application of Val R. Reese & Associates, Inc. for the creation of a new oil pool and for special pool rules, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Gallup production in Township 23 North, Range 7 West, Rio Arriba County, New Mexico, and further seeks the adoption of special rules and regulations for said pool similar to the special rules presently governing the Escrito-Gallup Oil Pool which provide for 320-acre gas proration units and 80-acre oil proration units (Order No. R-1793-A).

CASE 2576: Application of Sinclair Oil & Gas Company for approval of a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a waterflood project in the Grayburg-Jackson Pool, Eddy County, New Mexico, with the injection of water to be through seven wells located on the H. E. West "A" and "B" leases in Sections 3 and 4, Township 17 South, Range 31 East; applicant proposes to operate the waterflood project under the provisions of Rule 701.

CASE 2577: Application of Newmont Oil Company for approval to drill a water injection well, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks permission to drill the State "A" Well No. 3, to be located 1295 feet from the South line and 2615 feet from the East line of Section 36, Township 17 South, Range 29 East, Eddy County, New Mexico, for use as a water injection well in the Loco Hills Pool Waterflood Project.

CASE 2578: Application of Newmont Oil Company for approval of a development plan for the Loco Hills Waterflood Project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a plan of development for the Loco Hills Water-flood Project, Eddy County, New Mexico, which would permit

-3-Docket No. 17-62

CASE 2578: (Continued)

the conversion of wells to water injection by stages. The applicant proposes to operate said waterflood project under the terms and conditions of Order No. R-2178 which established a buffer zone in a portion of the project area.

<u>CASE 2579</u>:

Application of Neil E. Salsich for approval of a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a waterflood project in the Square Lake Pool with the injection of water into the Grayburg formation of the Square Lake Pool through five wells located in Section 36, Township 16 South, Range 29 East, Eddy County, New Mexico. Applicant requests that the waterflood be governed by Rule 701 except that administrative approval is sought to allow expansion of the waterflood by the conversion of one additional well in Unit H of Section 35 prior to response from water injection.

CASE 2580:

Application of Waterflood Associates, Inc., for approval of a waterflood poject, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a waterflood project in the Robinson Pool with the injection of water to be through six wells located in Section 35, Township 16 South, Range 31 East, Eddy County, New Mexico; applicant requests that the waterflood project be governed by Rule 701.

CASE 2581:

Application of Waterflood Associates, Inc. for approval of a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a waterflood project in the Square Lake Pool by the injection of water to be through two wells located in the NE/4 of Section 3, Township 17 South, Range 30 East, Eddy County, New Mexico; applicant requests that the waterflood project be governed by Rule 701.

CASE 2582:

Applicant of Waterflood Associates, Inc., for approval of a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a waterflood project in the Artesia Pool by the injection of water to be through one well located in the W/2 NW/4 of Section 21, Township 18 South, Range 28 East, Eddy County, New Mexico; applicant requests that the waterflood project be governed by Rule 701.

| Form 9-851 a. (Feb. 1961) | | | | | | | |
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UNITED STATES DEPARTMENT OF THE INTERIOR

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SUNDRY NOTICES AND REPORTS ON WELLS

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| NOTICE OF INTENTION TO DRILL | | SUBSEQUENT REPORT OF WATER SHUT-OFF | |
| NOTICE OF INTENTION TO CHANGE PLANS. | | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING. | |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF | == | SUBSEQUENT REPORT OF ALTERING CASING | |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL | X | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR. | |
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| NOTICE OF INTENTION TO PULL OR ALIER CASING. | | SUPPLEMENTARY WELL HISTORY | İ |
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| Sui th-18 Well No. 1 is located | 660 ft | from. N line an | d 1990 ft. from $\left\{\frac{E}{m}\right\}$ line of | sec. 18 |
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The elevation of the derrick floor above sea level is \$500 ft.

DETAILS OF WORK

This well was exiginally completed by The Continental QII Co. on their Suith-18
No. 1 on 3-11-42 for 182 NO in 15 hrs. from the Ynteo-Goven Rivers heaf pay producing from the span hale interval 2900-2034 with the following coming program:
10-3/4" **617 moded, 8-6/8" **1115 with 50 socks consert and SE" **2705 with 100 socks count. The 10-2/4" was pulled. On July 27, 1948, the well was plugged and abandoned as follows: 20 sock plug on botton 3034 to 2760, and 5% coming at the following intervals: 1800', 1700', 1600', 1800', 1800', 1200', 1200', 1705', 1600', no pipe recovered. Shot off S%" cosing **900' and recovered 900', shot off 8-6/8" cosing **550' and recovered 540' 8-6/8" cosing. Res 25 sokts coment plug at 900' and 15 cosk coment plug in top. We now request permission to workever and repair this well in the following manner: **itempt to Gionn out to TD. Sum electric and games ray logs, check for collapsed cosing with tools 6 logs run 4%" J-55 %% cosing from TD to carefnoe and coment with sufficient volume to circulate. In the event the melling manners and street solid coment plug three solid social as the plug street and screet the melling from TD to carefnoe and coment with sufficients plug three solid social as the commenced. (Over

| Company | Randell F. Hontgemery | |
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| Address | 1. O. Box 2414 | A |
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GPO 914974

known water usues "1180", 450" & 400" and 50" plug # top. All state and Sederal regulations will be complied with.

Retinated tops:

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Cumelative production to date 40,999 bbjs. at 1 and 25,642 bbls. water.

| Form 9-381 a (Feb. 1951) | | | | | | |
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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

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SUNDRY NOTICES AND REPORTS ON WELLS

| NOTICE OF INTENTION TO DRILL | | SUBSEQUENT REPORT OF WATER SHUT-OFF | |
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| NOTICE OF INTENTION TO CHANGE PLANS | | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING | |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF | | SUBSEQUENT REPORT OF ALTERING CASING | |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL. | × | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR | |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE | | SUBSEQUENT REPORT OF ABANDONMENT | |
| NOTICE OF INTENTION TO PULL OR ALITER CASING | | SUPPLEMENTARY WELL HISTORY | |
| NOTICE OF INTENTION TO ABANDON WELL. | | | |
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| Well No is located | 660 ft. fr | om S line and | d 660 ft. from | line of | sec. 7 |
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| Salt Lake | Les | | 7900 | Mexico | |
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The elevation of the derrick floor above sea level is 3535 ft.

DETAILS OF WORK

This well use originally completed by The Continental Oil Co. as their Speaks-7 No. I on 10-31-di for 204 NOTO from the Yetos-Spoun Elvers Boof pay producing from the open hold interval 2906-3810 with the following coming program. 10-3/4" e628' mudded, 8-6/8" e1120' comented with 180 seeks, 7" e 2906 comented with 180 seeks, 10-3/4" was pulled. In Nevember 1948 the well was plugged and abcordered as follower Coment plug 3110 to 3000 7" shot off e 1710' coment plug 1660-1760 and coment plug 1200-1960, 6-6/8" cost of seek off e 520' with coment plug 470-570, and to 30' filled with coment. We request permission to workever and repair this well in the following member: Attempt to close out to TD. But electric and gumme may logs, check for colleged sating with tools and logs run 6/" J-65 %/s cosing from surface to TD and coment with sufficient volume to circulate. In the event the well is determined to be non-connected place solid coment plug thru salt section in accordance with all-petasis requisitions, also across known water somes @1150',510' 6 450'. All state and repair affection and workmust recovery in writing by the Geological Survey before operations may be commenced.

| Company | Randall F. Montgomery | |
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| Address | P. O. Box 2414 | |
| | Hobbs, New Mexico | By RT. Worksoner |
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Unit Little Eddy

SUNDRY NOTICES AND REPORTS ON WELLS

GEOLOGICAL SURVEY

| NOTICE OF INTENTION TO DRILL. | 1 | SUBSEQUENT REPORT OF WATER SHUT-OFF |
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| NOTICE OF INTENTION TO CHANGE PLANS | | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING |
| NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL | X . | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE | 1 | SURSEQUENT REPORT OF ABANDONMENT |
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| St4 7 | 20 S | 33 E | MPM | |
| 04 Sec. and Sec. No.) | (Twp.) | (Range) | (Meridian) | |
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| | | | | |

The elevation of the derrick floor above sea level is ... 3540. ft.

DETAILS OF WORK

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

This well was originally completed by The Continental Oil Co. as their Breeks-7 No. 4 on 1-11-45 for 104 BO & 41 BW in 12 hrs. from the Yates-Seven Rivers Reef pay producing from open hele interval 2907 to 3064 with the following casing program 10" set 8661. Pulled & left 59' in hele. Set 9-5/8" ell20 and pulled. Ran 5%" to 2907 and comented with 1000 sacks which circulated. In Nevember 1949 the well was plugged and abandoned as follows: Coment plug from 3054-2950 and hele filled with mud to 50'. Tep 50' of hele was filled with coment.

We now request permission to workover and repair this well in the following manner:
Drill out surface plug and reverse circulate to T.D. and clean hole. Run electric
& gamma ray logs. Check for collapsed casing with tools and logs run 46. J-55
9% casing from surface to T.D. and cement with sufficient volume to circulate.
In the event the well is non-commercial place solid cement plug thru salt section
also across water zones 9 1160, 460 and 400. Place 50' cement plug to top.

[understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced. (OVE

Company Randall F. Montgomery

Address P. O. Box 2414

Hobbs, New Mexico By 7. Wangung

Title Lessee

All operations will be in compliance with state regulations.

Teps as reported:

Top Anhydrite 1132
Base Sale 3620
Shew Oil 2530-38
Shew Oil 3080-59
TD 3064
ENTD 3054

Cumulative Production to date 21,247 bbls. edl and 75,000 bbls. water.

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Form 9-881 a (Feb. 1961)

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4. Form Approved.

Land Office New Merci co

I---- NA 0149957

Unit Little Eddy

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SUNDRY NOTICES AND REPORTS ON WELLS

| | * | SUBSEQUENT REPORT OF WATER SHUT-OFF. SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING |
|---|-----|--|
| NOTICE OF INTENTION TO PULL OR ALIER CASING | 341 | SUPPLEMENTARY WELL HISTORY |

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

| | 4 | May 10 | , 19 62 |
|----------------------------------|-------------|------------------|----------------------|
| Brooks-7 Well No. 2 is located 6 | 60 ft. from | | m line of sec. 7 |
| SN4 7 | • | 3 E NMPM | Same Company |
| (% Sec. and Sec. No.) | (Twp.) (F | ange) (Meridian) | ***** |
| Salt Lake | Lea | | lead co |
| (Fjeld) | (County or | Sabdivision) | (State or Territory) |

The elevation of the derrick floor above sea level is 3535. ft.

DETAILS OF WORK

This well was originally completed by The Continental Oil Co. as their Brocks-7 No. 2 well on 1-9-42 for 233 GOFD from the Yates-Seven Rivers Reef pay producing from the open hele interval 2910-3075 with the following casing program set 10-3/4" @ 631 mudded, 7" ell37 comented with 50 sacks and 5½" e2910 comented with 225 sacks. In November 1948 the well was plugged & abandoned as follows: Coment plug 3075-2950, 5½" casing shot off @ 1520, Coment plug 1570 to 1470 and coment plug 1200-1100, 7" casing shot off @ 400' coment plug 450 to 350 and 50' to surface. We request permission to workover and repair this well in the following manner: Attempt to clean out to TD. Rum electric and gamma ray logs. Check for collapsed casing with tools and logs run 4½" J-55 9½" casing from surface to "D and coment with sufficient volume to circulate. In the event the well is determined to be non-commercial place solid cement plug thru salt section in accordance with oil-potash regulations also across known water zones @1160,509 & 440. All state and federal regulations will be complied with.

[Gover]

| Company | Randell F. Wontgomery | ······ |
|---------|-----------------------|------------------|
| Address | P. O. Box 2414 | 1 11 0 |
| | Hobbs, New Mexico. | By R 7. Montgamy |
| | | Title Lessee |

Estimated Teps:

Top Anhydrite 1110
Top Salt 1275
Base Salt 2619
Show 011 3046-79
TD 2075

Camelative Production to date 39,016 bbls. etl and 32,367 bbls. mater.

| Fo. | em 9- Feb. 1 | -881 a 961) | |
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(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4.

Land Office New Mexico

Lase No. NM 0149957

Unit Little Eddy

Vase 251/

SUNDRY NOTICES AND REPORTS ON WELLS

| NOTICE OF INTENTION TO DRILL | SUBSEQUENT REPORT OF WATER SHUT-OFF |
|--|--|
| NOTICE OF INTENTION TO CHANGE PLANS | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF | SUBSEQUENT REPORT OF ALTERING CASING |
| | SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE. | SUBSEQUENT REPORT OF ABANDONMENT |
| NOTICE OF INTENTION TO FULL OR ALIER CASING. | SUPPLEMENTARY WELL HISTORY. |
| NOTICE OF INTENTION TO ABANDON WELL | |
| | |

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

| • | | ********* | May 10 | , 1962 |
|--------------------------------|---------|-------------------------|----------------------------|--------|
| Brooks-7 Well No. 3 is located | 4 660 f | t. from S line | e and 1980 ft. from E line | of sec |
| SE¼ 7 | 20 S | 33 E | NMPM | |
| (14 Sec. and Sec. No.) | (Twp.) | (Range) | (Meridian) | |
| Salt Lake | | Lea | New Mexico | |
| (Field) | | (County or Subdivision) | (State or Territory |) |

The elevation of the derrick floor above sea level is 3503 ft.

DETAILS OF WORK

This well was originally completed by The Continental Oil Co. as their Brooks-7 No. 3 on 10-14-42 for 288 BOPD for the Tates Seven Rivers Reef pay producing from the open hole interval 2887-3025 with the following casing program 10-3/4" e606 mudded, 8-5/8" e1162' cemented with 350 sacks. 5½" at 2887' cemented with 100 sacks. In November 1948 well was plugged and abandoned in the following manner: Cement plug from 3025 to 2900 5½" casing shot off e1105. A cement plug from 1050-1150. 8-5/8" shot off e250' a cement plug from 300-200' and 50' to surface. We now request permission to workover and repair this well in the following manner: Attempt to clean out to TD. Run electric & gamma ray logs, check for collapsed casing with tools and logs run 4½" J-55 9½# casing from TD to surface and cement with sufficient volume to circulate. In the event the well is non-commercial place solid cement plug thru salt section. Also across water zones at 1162' 458' and 409' place 50' cement plug to top. All state and federal regulations will be complied with.

| I understand th | at this plan of work must receive approval in writing | by the Geological Survey before o | perations may be commenced. | (01 |
|-----------------|---|-----------------------------------|-----------------------------|----------|
| Company | Randall F. Montgomery | | ··········· | |
| Address | P. O.Box 2414 | | | |
| | Hobbs, New Mexico | By R7. | Montgoming | |
| | | Title Less | | <u> </u> |

Estimated Tops:

 Top Anhydrite
 1120

 Top Salt
 1280

 Base Salt
 2620

 Show Oil
 2975-3025

 TD
 3025

Cumulative production to date 35,662 bbls. oil and 103,846 bbls. water.

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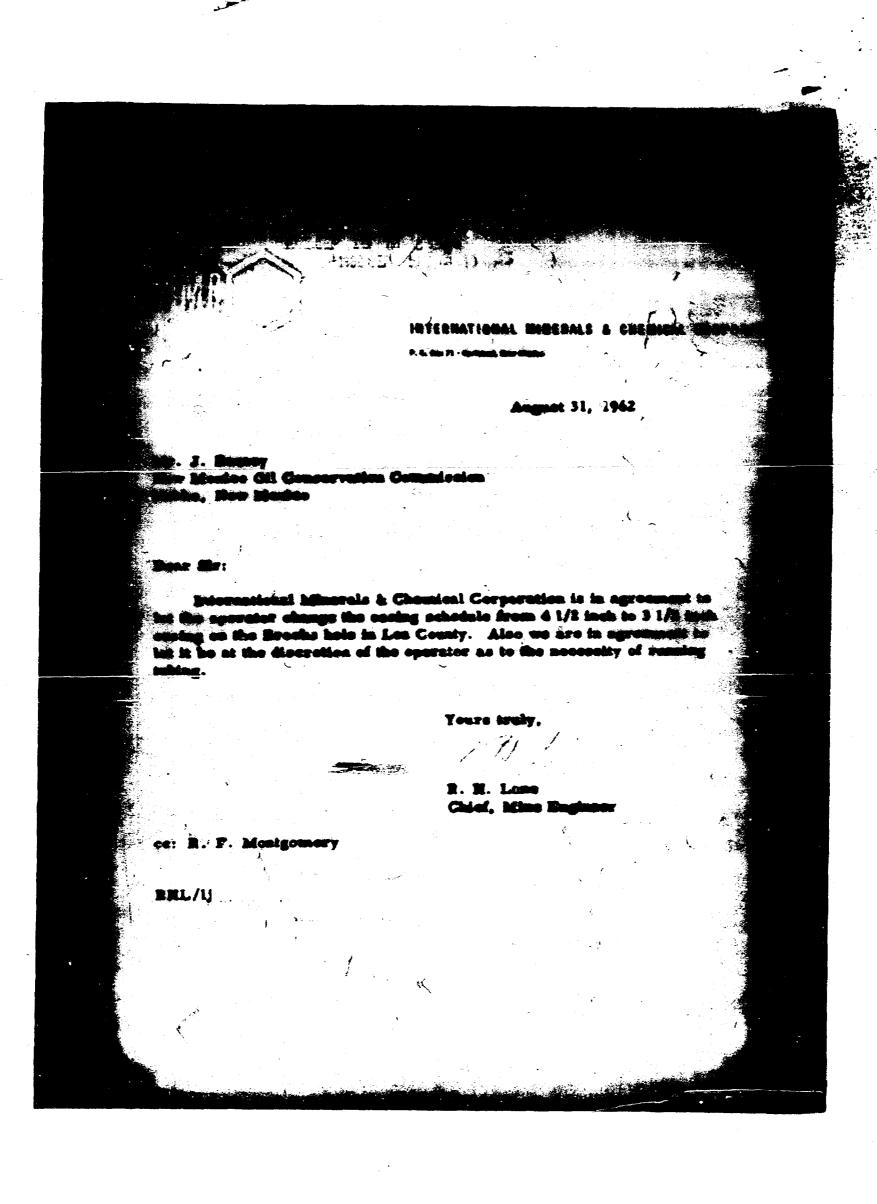
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Don Nutter: Comments Attached is the Aproval letter from In terms tions! regarding the casing change on R. F. Montgomery's Brooks #7 K 7-20-33, SolfLettool I'll est Mr. Morganen to run the 35" as early possible.

CO. - OFFICE EQUIPMENT - FURNITURE - PHONE CO.



BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
June 7, 1962

EXAMINER HEARING

IN THE MATTER OF:

Application of Randall F. Montgomery for an exception to Order R-lll-A, or in the alternative for three unorthodox oil well locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks exception to the provisions of Order R-lll-A, insofar as it pertains to the re-entry and casing program on five plugged and abandoned wells in the Salt Lake Pool, four of which are located in Section 7, and one of which is located in Section 18, all in Township 20 South, Range 33 East, Lea County, New Mexico. Applicant further seeks permission, as an alternative request, to drill three new wells at unorthodox locations in the Salt Lake Pool as follows:

- (1) Brooks 7 Well No. 6, to be located 10 feet from the South line and 2310 feet from the East line;
- (2) Brooks 7 Well No. 7, to be located 330 feet from the South line and 1320 feet from the West Line;
- (3) Brooks 7 Well No. 8, to be located 1320 feet from the South line and 1980 feet from the West line;

all in Section 7, Township 20 South, Range 33 East, Lea County, New Mexico.

Case 257

| Page | 1 | |
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NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING - DANIEL S. NUTTER

Santa fe New Mexic

REGISTER

| HEARING DATE | JUNE 7, 1962 TIME: 9 A.M. | |
|---------------------------------------|---------------------------|------------------|
| NAME: | REPRESENTING: | LOCATION: |
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NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING - DANIEL S. NUTTER

SANTA FE , NEW MEXICO

REGISTER

| HEARING DATE JUNE 7, 1962 TIME: 9 A.M. | | | |
|--|---------------------|-----------------|--|
| NAME: | REPRESENTING: | LOCATION: | |
| Frank Darolen | NEWHOUT DIL B. | Fr. WORTH | |
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DEARNLEY-MEIER REPORTING SERVICE, Inc.

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

MR. NUTTER: The hearing will come to order, please. The first case this morning will be Case 2571.

MR. MORRIS: Application of Randall F. Montgomery for an exception to Order R-111-A, or in the alternative for three unorthodox oil well locations, Lea County, New Mexico.

(Witness sworn.)

RANDALL F. MONTGOMERY

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

DIRECT EXAMINATION

MR. MONTGOMERY: I have filed an application for exception to R-111-A for the purpose of re-entering abandoned wells in the old Salt Lake Pool. These wells were originally drilled, generally in 1942, and plugged and abandoned in 1948. At that time R-111-A was not in effect and the wells were not plugged in accordance with the rule, nor was the casing program in accordance with R-111-A. I have three exhibits I would like to present

MR. NUTTER: Were all of these wells drilled in '42? MR. MONTGOMERY: I'll give you the exact dates on each one of them.

(Whereupon, Applicant's Exhibit 1, 2 and 3 were marked for



LEIS LICE.

MR. MONTGOMERY: The well designated Brooks A-7 No. 1 was drilled by Continental Oil Company, completed on 10-31-1941; the Brooks-7 No. 2 well was completed on 1-9-1942; and Brooks-7 No. 3 was completed on 10-14-42; Brooks-7 No. 4 was completed on 1-11-1945. The Smith-18 No. 1 was completed on 3-11-1942, and the Brooks-7 No. 5 was completed on 5-30-1945.

All of the wells were plugged and abandoned in 1948, all wells in the entire pool, and based on the decline curve, which is Exhibit No. 2, it's our interpretation that there was oil left in the ground and it would be our opinion that natural resources can be recovered if we're permitted to re-enter these wells, assuming they are successful re-entries.

You'll notice the Halfway Pool has a decline curve of about 15%, whereas the Salt Lake Pool has a decline curve of 40%. The Halfway Pool and the Salt Lake Pool are adjacent pools in Lea and Eddy Counties and produce from the same formation.

There's another pool one and one-half miles to the east, the West Teas Pool, which seems to be an oil reservoir with fairly large reserves for some of the wells. The wells are completed in the Yates and Capitan reef formations and typically have rather large reserves for the area. The purpose for this hearing is on Exhibit No. 1, due to the mechanical completion of the wells after they were plugged and abandoned it's not possible

HONE 243.6691

DEARNLEY-MEIER REPORTING SERVICE, Inc.

to comply to the exact casing requirements of R-lll-A due to the manner in which the casing was shut off in the various wells.

Commencing with the Smith No. 1 well located in Section 18, a string of pipe was set at 10-3/4 at 815 feet, and then another string of 8-5/8 set at 1115 and cemented with 50 sacks. The well was drilled to total depth. $5-\frac{1}{2}$ was set at 2908 after drilling to a total depth of 3034. After plugging and abandoning the well, the $5-\frac{1}{2}$ casing was shot off at approximately 600 feet, and the 10-3/4, which was just set originally, was pulled upon completion of the well initially.

R-lll-A requires that a string of casing be set to the top of the anhydrite cement circulated and then a string set up on top of the pay with the cement circulated. This is typical of each one of the wells in the area with the exception of Brooks No. 4, which has a string of $5-\frac{1}{2}$ to the surface. However, all other strings were pulled.

The red marks indicated on Exhibit 1 indicate where the casing was shot and pulled, or pulled after just being set, cable tool operation. What we would like to do would be to re-enter these wells, if possible. Of course, there are mechanical hazards involved of actually re-entering the wells, run $4-\frac{1}{2}$ " casing inside the existing string and circulate cement. In our opinion this will more adequately protect the potash than what the

ALBUQUERQUE, N. M. PHONE 243.6691

DEARNLEY-MEIER REPORTING SERVICE,

present wells are probably doing now, since they were not plugged and abandoned in accordance with R-111-A.

I have notified all interested parties known to me, and by registered mail, return receipt requested, and I have received no objection from any of the potash lessees in the area.

At this time I would like to withdraw my request for the drilling of new wells in the event the Commission does not see fit to approve this exception to R-111-A. Exhibit No. 3 is a small plat showing the potash leases in the area, the green representing the International Minerals potash leases, the other the United States Borax & Chemical Corporation leases, and the yellow is unleased portion for potash. The cross hatched area is the lease in question.

I have received permission from Perry R. Bass, the operator of the Little Eddy Unit. I've also received verbal permission from the Potash Company, and with the Commission's permission, where I might continue to go back to the United States Geological Survey, we would like to re-enter these wells. We think we can recover more oil.

MR. MORRIS: Mr. Montgomery, would you identify the exhibits again for the record? There seems to be some confusion.

MR. MONTGOMERY: Exhibit No. 1 is a diagrammatic sketch indicating the mechanical condition of the various wells in

DEARNLEY-MEIER REPORTING SERVICE,

question, the red color indicating the casing that has been removed from the well, the blue marks indicating the casing still in the well.

Exhibit 3 is a plat depicting the potash leases in the area and the oil lease in question. Exhibit No. 2 is a decline curve on the Halfway Pool and the Salt Lake Pool.

MR. MORRIS: Thank you. Does that complete your presentation?

MR. MONTGOMERY: Yes, sir.

MR. NUTTER: Are there any questions of Mr. Montgomery?

MR. MORRIS: Yes, sir, I have a couple.

CROSS EXAMINATION

BY MR. MORRIS:

Mr. Montgomery, have you actually negotiated with the potash companies in the areas with respect to each of these wells and casing programs that you intend to follow, and have you explained to them how your procedure in your opinion will more adequately protect the potash?

Yes, sir, I have. As I understand it, they are very much in favor of re-entering these wells because of the fact they will have to re-enter themselves in the event they start mining in the area.

You anticipate my next question. Is there active mining



in this area at the present time?

- No, sir, there is not.
- How far away is the nearest active potash mine?
- Approximately six miles to the west.
- Do you know whether the various potash companies involved plan to mine in this area within the, say the next five years?
 - They have not indicated it in their five-year plan. A
 - It is not indicated on their five-year plan? Q
 - No, sir.
 - But is all of the area in question included within the potash oil area as defined by R-111-A?
 - Yes, it is.
 - Even the North Half of the Northeast Quarter of Section Q 18 shown on your plat?
 - Yes, it is. A
 - Even though it's unleased for potash it is included within the potash oil?
 - Yes, sir.

MR. MORRIS: I believe that's all I have.

MR. NUTTER: Any further questions?

BY MR. PORTER:

Mr. Montgomery, do you have anything in mind as to Q

how much additional oil you might recover here?

A Well, my opinion, the pool was probably depleted about 50% under primary methods and another 50% involved. It produced about 720 barrels per acre. I think I can recover in the range of 1500 to 2000 barrels per acre. The wells range from 2000 barrels a well to about 45,000 barrels of oil per well. I believe that I can recover that much more oil from each well.

- Q Do you intend to frack these wells?
- A Yes, sir.
- Q Do you think that's the reason why, one of the contributing reasons why no more oil was recovered in the first place?
- A I think that's part of it. The wells were drilled during the war, and due to what I think was probably inadequate supervision at that time due to the times, the lease was not properly produced. It's my understanding that the gentleman that pumped the lease was a water well contractor; during the war, to help in the war situation, his wife actually pumped the wells, and when the big pumping units went down she couldn't start them up again. It is my understanding that one of the wells was making actually 20 barrels a day. There are other factors involved, oil was selling for \$1.40 a barrel at that time, and we did not have the pumping equipment or the completion techniques that we have today.

ALBUQUEROUE, N. 1

MR. PORTER: Thank you. That's all I have.

BY MR. NUTTER:

Q On your Exhibit No. 2 there are several curves shown here, and I'm having difficulty telling exactly which one represents what.

A Well, the upper curve is the decline curve on the Half-way Pool.

Q That's the long curve that runs clear across?

A Yes, sir.

Q It's got a 15% decline? A Yes.

Q Okay.

A Then the dotted line that's just below the Halfway Pool to the left is the decline curve on the Salt Lake Pool.

And you'll notice that it zeros out in September of 1948. That has a decline curve of 38%.

Q Okay.

A Then the shaded curve, you will note, starts in 1942.

This was a Smith No. 1 well, it was a one-well lease, and all the cil went into the one battery.

Q Is that one of the wells that you are talking about here today?

A Yes, sir. I've indicated about $10\frac{1}{2}\%$ decline curve.

Of course, you can estimate it at about 50% decline curve. Then

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DEARNLEY-MEIER REPORTING SERVICE,

the solid line just beneath the Salt Lake decline curve is the second lease, the Brooks lease, depicting five wells. I think this curve tends to indicate that the wells had an abnormal decline curve and does indicate that the wells were not produced in a steady manner.

- Now, the Halfway curve and the Conoco-Smith curve and the Salt Lake curve are based on little flat lines across for each month, the jagged lines that comes to points for each month is the Conoco Brooks lease?
 - Yes.
 - Then where is the Leonard Well J State lease curve? Q.
- Well, this curve was on the graph, but it confused it even more and it wasn't pertinent to the case.
 - Q It's not on?
 - No, I attempted to erase it and I wasn't successful.
- This Brooks lease is one of the, are those some of Q the wells that are being considered here?
- Yes, the Brooks lease, at the time it was drilled, was A known as all of Section 7. The Smith lease was known as the Northeast Quarter of Section 18. When I bought the lease from the Federal Government at a competitive sale, well, what was put up for sale was all but the North Half of the North Half of 7 and the North Half of the Northeast Quarter of 18, and I wanted

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to use the same designations.

Q If we take the Smith lease, the Conoco No. 1, how much oil did it produce?

A 41,000 barrels of oil.

Q Each of these wells, with the exception of one, has had the 10-3/4" pipe pulled, is that correct?

A All of them have had the 10-3/4 pulled, or rather the surface actually, No. 5 had 13", that was the technique at the time was to, with the cable tool drillers, the cable tool operation, it's a small water horizon around four to five hundred feet.

Q I see Brooks.No. 4 has only a small amount of 10-3/4 left, so for all practical purposes you might say the surface pipe has been pulled in all the wells?

A Yes.

Q The $5\frac{1}{2}$ has been shot off and pulled in each one except the Brooks No. 4?

A That's correct.

Q And it's still in there, is it?

A Yes, sir.

Q And the 8-5/8 has been cut and pulled in most of the wells, hasn't it, or is that all of them?

A It has been cut and pulled in all the wells with the

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DEARNLEY-MEIER REPORTING SERVICE, Inc.

exception of Smith No. 1.

- Q So all of the 8-5/8 pipe is still in the Smith No. 1?
- A Yes, sir.
- Q It's your proposal to run 42 pipe in each of these wells and cement to the surface?
- A Yes, sir. I believe this will be more actually as far as protection of the potash is concerned, than R-lll-A would provide for.
 - Q In plugging the well?
- A During the producing period, then when we plug it, it will be two strings of pipe to go through instead of just one under R-lll-A when it is plugged.
- Q Have your plans gone far enough that you'd know how you would produce the well in the event this application was approved you'd pump them through tubing?
 - A Yes, through tubing.
 - Q Would you have packers?
- A No, there's little or no gas in the area. We drilled a well about a mile and a half to the east two years ago and there's insufficient gas to run a pump if they had to be pumped by electricity.

MR. NUTTER: Any further questions of Mr. Montgomery?

MR. HEATON: George Heaton of the United States Borax

LOUGUERQUE, N. M. PHONE 243.6691 DEARNLEY-MEIER REPORTING SERVICE, Inc

& Chemical Corporation.

BY MR. HEATON:

Q Does he propose to use the salt base mud in drilling these out?

A We certainly would be happy to where the salt section is composed, there are only three wells where the salt section is composed, and we would like the liberty of using the best mechanical means available at that time for that particular situation, which very well could be salt base mid. The pipe, in all instances, is covering the potash interval. The Brooks No. 1, the 5½, is shot off at 1700, which is just a hundred feet or so below the top 400 feet below the top of the salt. The Brooks No. 2, the 5½ is shot off at 1520, which is approximately 200 feet below the top of the salt. The Brooks No. 5, the 5½ is shot off at 1437, approximately 200 feet below the top of the salt. So actually there would be very little salt section open.

- Q They are all except your wells that are exposed?
- A Are not exposed.
- Q Not exposed.

BY MR. NUTTER:

Q On Exhibit No. 1 I see the top of the salt is identified in some of the wells and not in others. Would you give us the top of the salt in each of the wells?



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BURDERBUE, N. M.

The logs were inadequate to tell. There was only a mechanical log run on one or two wells and they were only run through the pay section and all the rest of the tops were just driller's logs.

- As far as you know, is the salt a rather uniform depth in the area?
 - For all practical purposes.
- So you do have it identified at 1250 and 1276 in two Would it be approximately 1250 to 1276 in the others in your opinion?
 - Yes, sir, it would be plus or minus 50 feet from 1250.
- And the base of the salt is approximately 2600 feet, is that correct?
 - Yes, sir.
- Now, when you'd run your $4\frac{1}{2}$ " pipe, would you go down into the pay with that and cement it or would you complete open hole?
- Well, again, I would like to have the permission to do whatever the situation at the time calls for. Some of the wells are in the Capitan reef and, as you know, the water level in this area in Capitar reef stands about 1200 feet from the surface. In the event it's a large cavern, for example, the well we drilled a mile and a half to the east, we had a large cavern,

the drill bit fell right through. I think it would be risky to attempt to set through in an instance of that kind.

- Q There isn't a great deal of distance, only 300 feet from the base of the salt to the top of the pay apparently?
 - A Yes.
- Q How far below the base of the salt did you say you had set your 4½ pipe?

A Oh, I would set it at least as deep as they were in the original wells and probably a little deeper in order to get a cement bond. Probably 50 feet. I would like to have the prerogative to complete either open hole or to set through and perforate due to this cavernous situation we could run into.

- Q You would set your pipe into at least the top of the pay?
- A Yes, sir.

MR. NUTTER: Any further questions?

BY MR. HEATON:

- Q Would it be possible to perforate the old 5½ casing and possibly squeeze and drill cement behind it, especially near the top of the salt?
 - A It would be possible, yes, sir.
- Q Say for 300 feet down in the salt, maybe a hundred feet above the salt?
 - A Yes.

PHONE 243.6691

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Q Is that possible? I don't know.

A Well, it's probably possible. However, they reported that the cement circulated originally on that particular well they used a thousand sacks of cement and reported it did circulate.

Q It did circulate?

A Yes, sir.

Q Oh, I didn't know that. In all the wells, it recirculated in all the wells?

A No, just the one well.

Q Just one?

Yes.

Q I'm just thinking about giving the salt section a little protection from the possible surface waters behind the 5½ casing.

A We'd be happy to comply with any requirements that the Commission felt necessary to protect the potash.

MR. PORTER: I have a question.

MR. NUTTER: Mr. Porter.

BY MR. PORTER:

Q Mr. Montgomery, how far is this area from the well that you will remember that we had all the difficulty down with in plugging?

A It's approximately eight miles to the west.

Q You might encounter the same conditions, you think?

BUQUEROUE, N. M. HONE 243-6691

DEARNLEY-MEIER REPORTING SERVICE, Inc.

A Yes.

Q Possibility?

A Yes.

MR. NUTTER: And you have withdrawn your entire alternative request?

A Yes.

MR. NUTTER: Any further questions of Mr. Montgomery?

He may be excused.

(Witness excused.)

MR. NUTTER: Did you have anything further you wish to offer in the case, Mr. Montgomery?

MR. MONTGOMERY: No.

MR. NUTTER: Does anyone have anything further they wish to offer in Case 2571? We will take the case under advisement and call Case 2572.

DONE 242 GROS

STATE OF NEW MEXICO)

COUNTY OF BERNALILLO)

I, ADA DEARNLEY, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF I have affixed my hand and notarial seal this 19th day of June, 1962.

Notary Public-Court Reporter

My commission expires: June 19, 1963.

I do hereby certify that the foregoing is a constate reduced of the proceedings in the Electrical bearing of Case No. 257, heard to up on June 7, 1962,

New Mexico Oil Conservation Commission

LEUOUEROUE, N. M.