

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT 6

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

SOUTHWEST ROYALTIES, INC.

3. Address and Telephone No.

P.O. BOX 11390, MIDLAND, TEXAS 79702 (915) 686-9927 ext 307

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC. 34, T-17S, R-33E
990' FNL AND 2310' FEL

5. Lease Designation and Serial No.

NM801

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

EILLIAMS #10

9. API Well No.

30-025-30955

10. Field and Pool, or Exploratory Area

MALJAMAR GB-SA

11. County or Parish, State

LEA COUNTY, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☒ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

REQUEST APPROVAL TO DISPOSE OF PRODUCED WATER AND SUBMIT THE FOLLOWING:

WATER PRODUCTION FORMATION: SAN ANDRES

DAILY WATER PRODUCTION: 174 Bbls

A COPY OF ORDER NO.: R-6811-A

LOCO HILLS WATER DISPOSAL
SW/4 SEC. 16, T-17S, R-30E
HUGHES TRUCKING

water analysis attached

14. I hereby certify that the foregoing is true and correct

Signed

Kit E. Allen

Title REGULATORY ASST.

Date

5-25-95

(This space for Federal or State office use)

Orig. Signed by Shannon J. Shaw

Approved by

Title PETROLEUM ENGINEER

Date

6/30/95

Conditions of approval, if any:

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U C D MOBBE
OFFICE

OIL CONSERVATION DIVISION

AUG 3 1982

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

O. C. D.
ARTESIA, OFFICE

CASE NO. 7329 DE NOVO
Order No. R-6811-A

APPLICATION OF LOCO HILLS WATER
DISPOSAL COMPANY FOR AN EXCEPTION
TO ORDER NO. ~~8845201~~ AS AMENDED,
EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSIONBY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 14, 1982, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 29th day of July, 1982, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, 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, Loco Hills Water Disposal Company, seeks an order permitting the installation of a commercial salt water disposal facility whereby salt water would be disposed of into 15 acres of unlined surface pits to be located in the SW/4th of Section 16, Township 17 South, Range 30 East, NMPM, Eddy County, New Mexico.

(3) That the matter came on for hearing at 9 a.m. on September 23, 1981, at Santa Fe, New Mexico, before Examiner Richard L. Stamets and, pursuant to this hearing, Order No. R-6811 was issued on October 30, 1981, which denied Loco Hills Water Disposal Company's application.

(4) That on November 25, 1981, application for Hearing De Novo was made by Loco Hills Water Disposal Company and the matter was set for hearing before the Commission.

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**JOE HOBBS
OFFICE**

Case No. 7329 D. Novo
Order No. R-6811-A

(5) That the matter came on for hearing de novo on July 14, 1982.

(6) That Order (3) of Division Order No. R-3221, as amended, prohibits in that area encompassed by Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, the disposal, subject to minor exceptions, of water produced in conjunction with the production of oil or gas, or both, on the surface of the ground, or in any pit, pond, lake, depression, draw, streambed, or arroyo, or in any watercourse, or in any other place or in any manner which would constitute a hazard to any fresh water supplies and said disposal has not previously been prohibited.

(7) That the aforesaid Order No. R-3221 was issued in order to afford reasonable protection against contamination of fresh water supplies designated by the State Engineer through disposal of water produced in conjunction with the production of oil or gas, or both, in unlined surface pits.

(8) That the State Engineer has designated, pursuant to Section 65-3-11 (15), N.M.S.A., 1953 Compilation, all underground water in the State of New Mexico containing 10,000 parts per million or less of dissolved solids as fresh water supplies to be afforded reasonable protection against contamination; except that said designation does not include any water for which there is no present or reasonably foreseeable beneficial use that would be impaired by contamination.

(9) That the applicant seeks an exception to the provisions of the aforesaid Order (3) of Division Order No. R-3221, as amended, to permit the commercial disposal of produced salt water into the aforesaid pits at the site described above.

(10) That the applicant proposes to install and operate an effective system, composed of holding and separating tanks, and a skimming pit, for the removal of oily and solid wastes from the waters to be disposed of into said system.

(11) That there is no fresh water in the immediate vicinity of said disposal system, but there are wells producing fresh water some nine miles south of the proposed disposal pits.

(12) That the native soils underlying said pits will permit the vertical percolation of some of the waters disposed of in said system.

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Case No. 7329 De Novo
Order No. R-6811-A

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(13) That the vertical percolation of waters from said system should not endanger any fresh waters.

(14) That to ensure that waters percolating from said pits move only vertically, monitor wells should be drilled in a pattern as shown on Exhibit "A" designed to detect horizontal movement of water from said disposal area.

(15) That in the event salt water is detected in any monitor well, Case No. 7329 should be reopened within 90 days to permit applicant to appear and show cause why the authority to use said pits for water disposal should not be rescinded.

(16) That the maximum volume of produced water to be disposed of through said system should not exceed 2500 barrels per acre per month.

(17) That a freeboard of a minimum of three feet should be maintained at all times.

(18) That the granting of the application will not cause waste or impair correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Loco Hills Water Disposal Company, is hereby authorized to install and operate a 15-acre commercial salt water disposal facility to be located in the SW/4 of Section 16, Township 17 South, Range 30 East, NMPM, Eddy County, New Mexico, said system to be limited to the maximum disposal of 2500 barrels per acre per month.

(2) That the operator shall install tanks and a skimming pit, sufficient to ensure that oil or other deleterious substances will not enter the disposal pits in harmful quantities.

(3) That a freeboard of a minimum of three feet will be maintained on all pits at all times.

(4) That monitor wells, as shown on Exhibit "A" attached to and made a part of this order, shall be drilled and equipped with perforated or slotted tubing/casing from a depth of four feet to total depth.

(5) That said monitor wells will be tested monthly to check for migration of the disposed salt water thereto and the results of these tests will be promptly delivered to the Artesia District Office of the Oil Conservation Division.

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**UDD HOUSE
OFFICE**

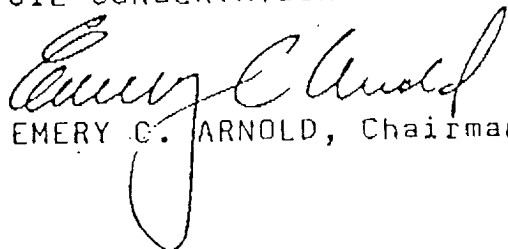
Order No. R-6811A

(6) That if disposed salt water is detected in any monitor well, Case 7329 will be reopened, within 90 days, to permit the applicant to appear and show cause why the disposal authority granted by this order should not be rescinded.

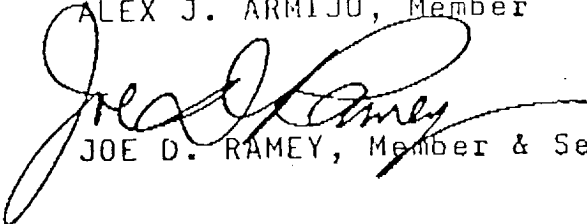
(7) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


EMERY C. ARNOLD, Chairman

ALEX J. ARMIJO, Member


JOE D. RAMEY, Member & Secretary

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**U C D HOBBS
OFFICE**

MAY 30 10 37 AM '55

3670

3670

TEST HOLE 3

LOCO HILLS DISPOSAL
COMPANY PROPERTY

DIKE ELEV. 3670
BRINE ELEV. 3667

3660

3660

SW/4 Sec. 16
Twp. 17S., Rge. 30E.

LEGEND

- 60' MONITOR HOLES
- RUSTLER DEPTH MONITOR HOLES
- ⊗ CORE HOLE



SCALE IN FEET

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**UCD HOBBS
OFFICE**

**NEW MEXICO****BLM**

BUREAU OF LAND MANAGEMENT

UNITED STATES

FOR RELEASE: Oct. 15, 1992

CONTACT: Howard Parman at 505-622-9042

News Release

DEPARTMENT OF THE INTERIOR

Roswell District, P. O. Box 1397, Roswell, New Mexico 88202

BLM RELEASES PRODUCED WATER ENVIRONMENTAL ASSESSMENT

The Bureau of Land Management's Roswell District released the Final Produced Water Disposal Environmental Assessment (EA) today. The EA analyzes the impact of disposing produced water from federal oil and gas leases at three privately owned disposal facilities.

The privately owned facilities are Controlled Recovery, Inc., Loco Hills and Parabo. All three facilities man-made structures. With the release of this Final EA, BLM will approve permits to dispose of produced water from federal leases into these three facilities. Twenty-five permits have been pending the release of the EA.

Produced water disposal from federal oil and gas leases must be covered by environmental documentation, regardless of the location, method or ownership of the disposal facility.

Copies of the Final Produced Water Disposal Environmental Assessment are available at the Roswell District Office, 1717 W. Second, Roswell, NM. Questions about the EA should be directed to Jim Pettengill at 505-622-9042.

•END•

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OFFICE**

.O.BOX 2187
HOBBS, N.M. 88240



PHONE: (505) 393-7726

WATER ANALYSIS REPORT

Report for: Nelson Patton
cc: Al Perry
cc: Allan Childs
cc:
Company: Southwest Royalties
Address:
Service Engineer:

Date sampled: 05/16/95
Date reported: 05/24/95
Lease or well # : Eilliams #10
County: State:
Formation:
Depth:
Submitted by: Al Perry

| CHEMICAL COMPOSITION : | mg/L | meq/L |
|------------------------|--------|-------|
| Chloride (Cl) | 117000 | 3300 |
| Iron (Fe) (total) | 7.0 | |
| Total hardness | 11500 | |
| Calcium (Ca) | 2606 | 130 |
| Magnesium (Mg) | 1215 | 98 |
| Bicarbonates (HCO3) | 512 | 8 |
| Carbonates (CO3) | 0 | |
| Sulfates (SO4) | 5513 | 115 |
| Hydrogen sulfide (H2S) | n/a | |
| Carbon dioxide (CO2) | n/a | |
| Sodium (Na) | 73507 | 3196 |
| Total dissolved solids | 200354 | |
| Barium (Ba) | n/a | |
| Strontium (Sr) | n/a | |
| Specific Gravity | 1.143 | |
| Density (#/gal.) | 9.525 | |
| pH | 6.200 | |
| IONIC STRENGTH | 3.59 | |

Stiff-Davis (CaCO3) Stability Index :
 $SI = pH - pCa - pAlk - K$

SI @ 86 F = +0.18
104 F = +0.41
122 F = +0.67
140 F = +0.96
158 F = +1.28

This water is 1213 mg/l (18.38%) over ITS CALCULATED
CaSO4 saturation value at 82 F.
SATURATION= 6600 mg/L PRESENT= 7813 mg/L

REPORTED BY JOY DUNCAN

LAB TECHNICIAN

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**JOE HOBBS
OFFICE**