

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

N.M. O Cons. Division  
1625 N. French Dr.  
Hobbs, NM 88240  
FORM APPROVED  
OMB No. 1004-0135  
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐

Oil Well

☒

Gas Well

☐

Other

2.

Samson Resources Company

3a. Address

Two West 2nd Street, Tulsa, OK 74103

3b. Phone No. (include area code)

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

660' FNL & 1980' FWL

NM-17238

6. If Indian, Allottee, or Tribe Name

N/A

7. If Unit or CA. Agreement Designation

Smith Ranch Unit

8. Well Name and No.

Smith Ranch Federal 2-11

9. API Well No.

30-025-31138

10. Field and Pool, or Exploratory Area

Teas Delaware

11. County or Parish, State

Lea Co., 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

☐

Acidize

☐

Altering Casing

☐

Casing Repair

☐

Change Plans

☐

Convert to Injection

☐

Deepen

☐

Fracture Treat

☐

New Construction

☐

Plug and abandon

☐

Plug back

☐

Production (Start/Resume)

☐

Reclamation

☒

Recomplete

☐

Temporarily Abandon

☐

Water Disposal

☐

Water Shut-off

☐

Well Integrity

☐

Other

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Recompletion to the Delaware 7/19/00 - 8/2/00

7/19/00 Unseat pump. POOH laying down all rods and pump.

7/20/00 Set RBP @ 6760'.

7/20/00 Tbg out of hole. Perforate Delaware 6582' - 6590' w/4 JSPF.

7/22/00 Acidize Delaware perfs 6582' - 6590' w/1000 gals 7 1/2% NEFE DX BX CC-1 acid.

7/25/00 Frac w/10,000 gals Ambor 1030 pad and 32,000 gals Ambor 1030 gel + 48,000#

16/30 mesh Ottawa sand.

7/27/00 Left well pumping at 9 SPM.

(ORIG. SGD.) GARY GOURLEY

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

Name (Printed/ Typed)

Kevin Olson

Title

District Engineer

Signature

Kevin C. Olson

Date

August 21, 2002

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

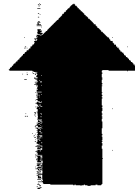
Office

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

BLM-OKFO-TULSA  
2002 AUG 28 A 10:36

2A Teas Bone Springs



**LTR**



**Job separation sheet**

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
N.M. OIL CONS.  
P.O. BOX 1980  
HOBBS, NEW MEXICO 88240  
JUL 12 1994

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 IN TRIPLICATE

1. Type of Well  
Oil Gas  
☒ Well ☐ Well ☐ Other

2. Name of Operator  
SAMSON RESOURCES COMPANY

3. Address and Telephone No.  
TWO WEST SECOND STREET TULSA, OK 74103 (918) 583-1791

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
660' FNL & 1980' FWL SEC. 11-20S-33E

5. Lease Designation and Serial No.

NMNM17238

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

SMITH RANCH FEDERAL #2

9. API Well No.

30-025-31138

10. Field and Pool, or Exploratory Area

TEAS

11. County or Parish, State

LEA, NEW MEXICO

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other APPROVAL FOR DISPOSAL OF WATER
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> 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.)\*

NOTICE OF INTENT - FOR DISPOSAL OF WATER

- Name(s) of all formation(s) producing water on the lease. Bone Springs
- Amount of water produced from all formations in barrels per day. 3 barrels per day
- A CURRENT water analysis of produced water from all zones showing at least the total dissolved solids, pH, and the concentrations of chlorides and sulfates. Per attached
- How water is stored on the lease. 210 barrel fiberglass tank
- How water is moved to the disposal facility. Trucked by Gandy Corporation
- Identify the disposal Facility by:
  - Operators name. L & B Oil Company
  - Well Name. State AJ Well #1
  - Well Type and well number. SWDW #1
  - Location by 1/4 1/4, Section, Township, & Range. SW NE Sec. 33-18S-36E
- A copy of the Underground Injection Control Permit - issued for the injection well by the Environmental Protection Agency or New Mexico Oil Conservation Division where the State has achieved primacy Per attached

RECEIVED  
JUL 5 8 51 AM '94  
BUREAU OF LAND MGMT.  
HOBBS, N.M.

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

Signed [Signature] Title District Engineer Date July 1, 1994

(This space for Federal or State office use)

Approved by (ORIG. SGD.) JOE G. LARA Title Petroleum Engineer

Conditions of approval, if any: See attached.

Date 8/4/94



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JUL 5 8 51 AM '94

BUREAU OF LAND MGMT 3-7726  
PHONE 393-7726  
HOBBBS, NM.P.O. BOX 2187  
HOBBBS, N.M. 86240

## WATER ANALYSIS REPORT

Report for: Frank Gardner  
cc: Alan Childs  
cc:  
cc:  
Company: Sampson Resources  
Address:  
Service Engineer: Frank Gardner

Date sampled: 06/17/94  
Date reported: 06/21/94  
Lease or well #: Smith #2-11  
County: State:  
Formation:  
Depth:  
Submitted by: Frank Gardner

CHEMICAL COMPOSITION :	mg/L	meq/L
Chloride (Cl)	81000	1188
Iron (Fe) (total)	8.0	
Total hardness	2200	
Calcium (Ca)	601	30
Magnesium (Mg)	170	14
Bicarbonates (HCO <sub>3</sub> )	183	3
Carbonates (CO <sub>3</sub> )	0	
Sulfates (SO <sub>4</sub> )	2476	52
Hydrogen sulfide (H <sub>2</sub> S)	97	
Carbon dioxide (CO <sub>2</sub> )	302	
Sodium (Na)	52803	2296
Total dissolved solids	137234	
Barium (Ba)	n/a	
Strontium (Sr)	n/a	
Specific Gravity	1.098	
Density (#/gal.)	9.150	
pH	6.170	
IONIC STRENGTH	2.39	

Stiff-Davis (CaCO<sub>3</sub>) Stability Index :

$$SI = pH - pCa - pAlk - K$$

$$SI @ 86 F = -1.32$$

$$104 F = -1.09$$

$$122 F = -0.83$$

$$140 F = -0.54$$

$$158 F = -0.23$$

This water is 4903 mg/l (-72.72%) under ITS CALCULATED  
CaSO<sub>4</sub> saturation value at 82 F.

SATURATION= 6742 mg/L

PRESENT= 1834 mg/L

# of pages	2
From	R Middleton
To	Jeff Hess
Co.	Champion
Phone	393-7726
Fax	583-3826

REPORTED BY ROBERT C MIDDLETON *Rem*  
TECHNICAL SERVICES REPRESENTATIVE

ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
DIVISION FOR THE PURPOSE OF  
CONSIDERING:

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JUN 5 8 51 AM '94

CASE NO. 8817  
BUREAU OF OIL CONSERVATION  
ORDER NO. R-8166

APPLICATION OF POLLUTION CONTROL,  
INC. FOR SALT WATER DISPOSAL,  
LEA COUNTY, NEW MEXICO

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on February 3, 1986, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 7th day of March, 1986, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

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

(2) The applicant, Pollution Control, Inc., is the owner and operator of the L & B Oil Company Inc. State "AJ" Well No. 1, located 2310 feet from the North and East Lines (Unit G), of Section 33, Township 18 South, Range 36 East, NMPM, Lea County New Mexico.

(3) The applicant proposes to utilize said well to commercially dispose of produced salt water into the Abo, Wolfcamp and Devonian formations, with injection into the open hole interval from approximately 5,000 feet to 12,164 feet.

06/03/94 10:23

TEL 505 398 0720

HOBBES OIL CONSRN

12803

-2-

Case No. 8817

Order No. R-8166

leak detection device should be attached to the annulus in order to determine leakage in the casing, tubing, or packer.

(6) The injection well or system should be equipped with a pressure limiting switch or other acceptable device which will limit the wellhead pressure on the injection well to more than 1000 psi.

(7) Prior to commencing injection operations, the casing in the subject well should be pressure-tested throughout the interval from the surface down to the proposed packer setting depth to assure the integrity of such casing.

(8) After commencing injection into the well, the operator should run an injection tracer survey in order to determine which formations are receiving the injected fluid.

to take water on

505 398 8887

GANDY CORP

(9) Should the injection well ever cease to pump, or a vacuum, the operator should be required to run an additional injection tracer survey after notifying the supervisor of the Division's district office in Hobbs of the date and time of the test.

(10) The Director of the Division should be authorized to administratively approve an increase in the injection pressure upon a proper showing by the operator that such higher pressure will not result in migration of the injected waters from the Abo, Wolfcamp and Devonian formations.

(11) The operator should notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment and of the date and time of the mechanical integrity test and the injection tracer survey so that the same may be inspected and witnessed.

(12) The operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other

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tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

(10) The applicant shall conduct disposal operations and submit monthly reports in accordance with Rules 702, 703, 704, 705, 706, 708, and 1120 of the Division Rules and Regulations.

(11) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

*R. L. Stamets*  
R. L. STAMETS,  
Director

S E A L

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MAR 12 1936  
D. C. P.  
HOMES OFFICE

(6) Copies of such tracer surveys shall be filed with both the Santa Fe and Hobbs office of the Division.

(7) The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Abo, Wolfcamp and Devonian formations.

(8) The operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment and of the date and time of the mechanical integrity test and the injection tracer survey so that the same may be inspected and witnessed.

(9) The operator shall immediately notify the supervisor of the Division's Hobbs district office of the failure of the

Lea County, New Mexico, to dispose of produced salt water from the Abo, Wolfcamp and Devonian formations. Injection to be accomplished through 2 7/8-inch tubing installed in a packer set at approximately 4,950 feet, with injection into the open hole interval from approximately 5,000 feet to 12,164 feet. HOBBS, NM.

PROVIDED HOWEVER THAT, the tubing shall be plastic-lined; the casing-tubing annulus shall be filled with an inert fluid; and a pressure gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak detection device in order to determine leakage in the casing, tubing or packer.

(2) The injection well or system shall be equipped with a pressure limiting switch or other acceptable device which will limit the wellhead pressure on the injection well to no more than 1000 psi.

(3) Prior to commencing injection operations, the casing in the subject well shall be pressure tested throughout the interval from the surface down to the proposed packer setting depth to assure the integrity of such casing.

(4) After commencing injection into the well, the operator shall run an injection tracer survey in order to determine which formations are receiving the injected fluid.

(5) Should the injection well ever cease to take water on a vacuum, the operator shall be required to run an additional injection tracer survey after notifying the supervisor of the Division's Hobbs district office of the date and time of such test.

TD:

Jeff Ross



BUREAU OF LAND MANAGEMENT  
CARLSBAD RESOURCE AREA

Disposal of Produced Water From Federal Wells

Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

1. This agency be notified of any change in your method or location of disposal.
2. Compliance with all provisions of Onshore Oil and Gas Order No. 7.
3. This agency shall be notified of any spill or discharge as required by NTL-3A.
4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
5. All aboveground structures on the lease shall be painted sandstone brown, Federal Std. 595-20318, or 30318, within 90 days if you have not already done so.
6. Any on lease open top storage tanks or pits shall be covered with a wire screen or plastic/nylon netting to prevent entry by birds and other wildlife.
7. This approval does not constitute right-of-way approval for any off lease activities. If water is transported via a pipeline that extends beyond the lease boundary, you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.