

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division
1625 N. French Dr.
Hobbs, NM 88240

FORM APPROVED
OMB No. 1004-0135
Expires: July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

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

2. Name of Operator
Samson Resources Company

3a. Address
Two West Second Street/Tulsa, OK/74103

3b. Phone No. (include area code)
(918) 583-1791

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1,944' FNL & 660' FEL, SE/4 NE/4 Section 2, T21S, R32E

Case Designation and Serial No.

NM-2515

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Minis 2 Federal Com #4

9. API Well No.

30-02-53629 O

10. Field and Pool, or Exploratory Area

Hat Mesa

11. County or Parish, State

Lea, NM

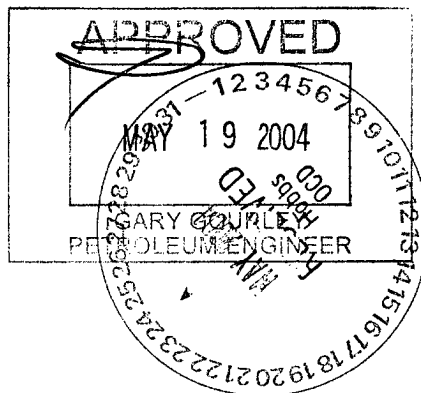
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other:
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and appropriate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. 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 recompleat 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.

See Attached.

SUBJECT TO
LIKE APPROVAL
BY STATE



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

Signed

[Signature]

Title District Engineer

Date

5/12/2004

(This space for Federal or State office use)

Approved by

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.

Title
Office

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to 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)

GWW

RAH-482-04

Water Production & disposal Information

In order to process your disposal request, the following information must be completed:

1. Name of formations producing water on the lease. Morrow
2. Amount of water produced from all formations in barrels per day. 20 to 40
3. Attach 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. (one sample will suffice if the water is commingled)
4. How water is stored on the lease. 210 Barrel Tank
5. How water is moved to the disposal facility. Truck
6. Identify the Disposal Facility by :
 - A. Facility operators name. Key Energy Services, Inc.
 - B. Name of facility or well name & number. Seven Rivers Queen #1
 - C. Type of facility or well (WDW) (WIW) etc. WDW
 - D. Location by 1/4 1/4 section 6 township 22S range 36E
7. Attach a copy of the State issued permit for the Disposal Facility.
R-3781

Submit to this office, 414 West Taylor, Hobbs, NM 88240, the above required information on a Sundry Notice 3160-5. Submit 1 original and 5 copies, within the required time frame. (This form may be used as an attachment to the Sundry Notice.) Call me at 505-393-3612 if you need to further discuss this matter.



Water Analysis Report

02/13/2004

Address: 4419 Harlowe
Midland, TX 79703

Customer: SAMSON LONE STAR
Attention: Floyd Steed

Lease: Miris *MD: NIS 2 Fed #4*
Formation:
Salesman: Jason Ussery

CC:

Target Name: Miris 4

Sample Point: Miris 4

Sample Date: 01/12/2004

Test Date: 01/24/2004

Water Analysis(mg/L)

Calcium	16361
Magnesium	2430
Barium	0
Srtrntium	978
Sodium(calc.)	46693
Bicarbonate Alkalinity	256
Sulfate	911
Chloride	108000
Resistivity	0.0364

Appended Data(mg/L)

CO2	50
H2S	0
Iron	2
Oxygen	

Additional Data

Specific Gravity	1.12
Total Dissolved Solids(Mg/L)	17465
Total Hardness(CaCO3 Eq Mg/	50862

Physical Properties

Ionic Strength(calc.)	3.60
pH(calc.)	
Temperature(°F)	90
Pressure(psia)	50
Density	9.34

Dew Point

Lead
Zinc

Calcite Calculation Information

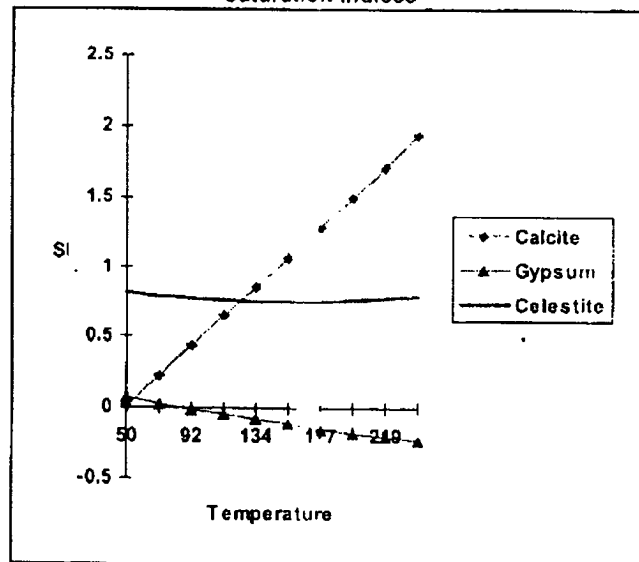
Calculation Method	Value
Known pH	6.73

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	0.41	55.10
Gypsum (Calcium Sulfate)	0.00	
Hemihydrate (Calcium Sulfate)	-0.03	
Anhydrite (Calcium Sulfate)	0.08	58.40
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)	0.78	342.60

Saturation Indices



Saturation Index Data Points

	50	71	92	113	134	156	177	198	219	240
Calcite	0.01	0.22	0.44	0.65	0.86	1.07	1.28	1.50	1.71	1.93
Gypsum	0.08	0.03	-0.01	-0.04	-0.06	-0.11	-0.15	-0.18	-0.20	-0.23
Celestite	0.82	0.80	0.78	0.77	0.76	0.76	0.76	0.77	0.78	0.80



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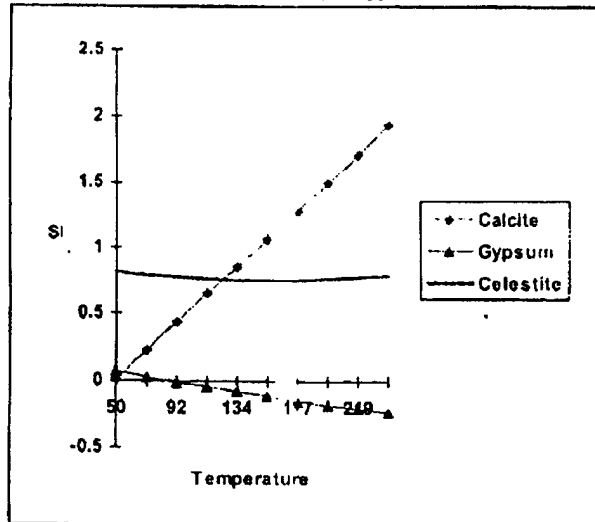
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