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Form 3160-5
(August 2002)

HOBBSDO

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

FORM APPROVED
OMB No 1004-0137
Expires: July 31, 2010**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.

5 Lease Serial No

NM0631

6 If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☒ Oil Well☒ Gas Well☐ Other

2. Name of Operator

Samson Resources Company

3a Address

200 N LORRAINE SUITE 1010
MIDLAND, TX 79701

3b. Phone No. (include area code)

432-683-7063

7. If Unit of CA/Agreement, Name and/or No

8. Well Name and No
FEDERAL 11-20-34 #39. API Well No.
30-025-3042410. Field and Pool or Exploratory Area
LEA DELAWARE, NORTHEAST

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

UNIT LETTER - L 1890' FSL & 660' FWL
SECTION 11 T20S R34E11. Country or Parish, State
LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) 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"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input 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 approximate 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 BLM/BIA. Required subsequent reports must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

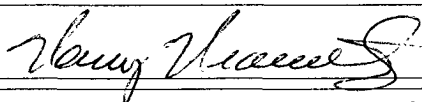
Water is stored in tank battery on lease and hauled off lease by Key Energy Services. Please see attached.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

KENNY KRAWIETZ

Title OPERATIONS MANAGER

Signature



Date 02/09/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

PETROLEUM ENGINEER

Title

Date

MAR 22 2010

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 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 page 2)

ATTACHMENT to Incident of Noncompliance # AJM-021-10

The following information is needed before your disposal of produced water can be approved, per Onshore Oil & Gas Order #7.

You may attach this information to your Sundry Notice (3160-5). Submit all required information as per this attachment, submit a Sundry Notice(3160-5), one original and five copies to this office within the required time.

1. Name(s) of all formation(s) producing water on the lease. Bone Spring
2. Amount of water produced from all formations in barrels per day. 15 (Average)
- ✓ 3. 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.
4. How water is stored on the lease. water tank battery
5. How water is moved to the disposal facility. Trucked out by Key Energy Services
6. Identify the Disposal Facility by:
 - A. Operators' Name Samson Resources
 - B. Well Name Federal 11-20-34
 - C. Well type and well number gas #3
 - D. Location by quarter/quarter, section, township, and range 11-1205-R34E 1890' FSL + 660' FWL
7. 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.
N/A

Water Analysis Analysis #: 152

Company: Samson

Lease: Federal 10-20-34

Location:

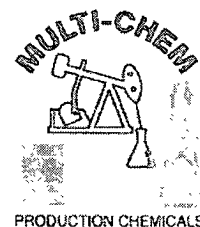
Date: May 1, 2007

Attention: Jake Hammond

Description:

Well: #3

Sample Point: Header Treater



DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc)	63,412.38	2,757.06
Calcium, Ca	640.00	31.84
Magnesium, Mg	99.55	8.16
Barium, Ba	23.66	0.34
Iron, Fe	9.97	0.54

ANIONS	mg/l	meq/l
Hydroxyl, OH		
Carbonate, CO3		
Bicarbonate, HCO3	531.00	8.69
Sulfate, SO4	1,400.00	28.69
Chloride, Cl	98,000.00	2,760.56
Sulfide, S		

OTHER PROPERTIES

pH	6.40
Specific Gravity	1.114
Dissolved Oxygen, (Mg/l)	
Dissolved Carbon Dioxide	202.00
Sulfide as H2S, (ppm)	0.00
Sample Temp	F. 74 C. 23
CO2 in Gas Phase (Mg/l)	
H2S in Gas Phase (Mg/l)	
Total Hardness (Me/l)	40.00

Total Dissolved Solids (Mg/l)	164,117
Total Ionic Strength	2.8413
Maximum CaSO4, (calc.)	2,086.52
Maximum BaSO4, (calc.)	42.33
Total SRB (colonies/cc)	
Total APB (colonies/cc)	
Total Aerobic (colonies/cc)	
Manganese (Mg/l):	0.52

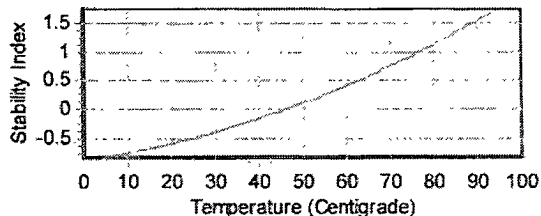
Conclusion:

Calcium Carbonate scaling index is positive above 46 degrees Centigrade.
Calcium Sulfate scale is indicated. See appropriate chart for temperature ranges.
Barium Sulfate scale is indicated at all temperatures.

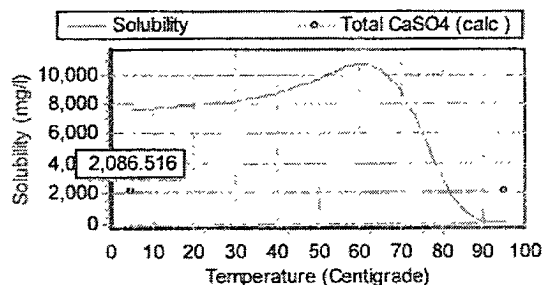
Remarks:

Scaling Indices vs. Temperature

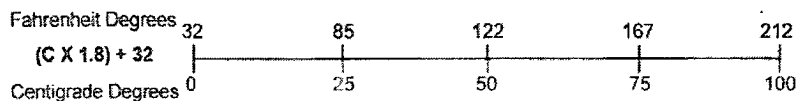
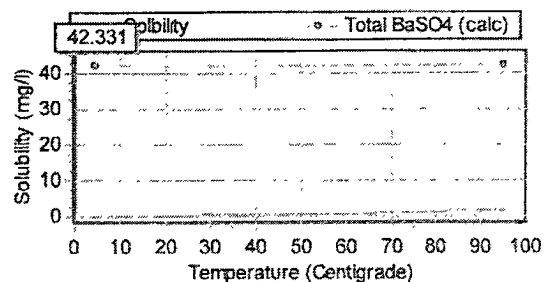
Calcium Carbonate Saturation Index



Calcium Sulfate Solubility



Barium Sulfate Solubility



WATER DISPOSAL ONSHORE ORDER #7

The following information is needed before your method of water disposal can be considered for approval.

1. Name(s) of formation (s) producing water on the lease.

2. Amount of water produced from each formation in barrels per day.

3. How water is stored on the lease.

4. How water is moved to disposal facility.

5. Operator's of disposal facility

a. Lease name or well name and number _____

b. Location by $\frac{1}{4}$ Section, Township, and Range of the disposal system _____

c. The appropriate NMOCD permit number

4061- Main
606- Backward
