Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

DEC 2000 RECEIVED

5. Lease Serial No.
NM - 013686

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.
PRITCHARD SWD 1

2. Name of Operator
AMOCO PRODUCTION COMPANY

9. API Well No.
3004528351

3a. Address P.O. BOX 3092
HOUSTON, TX 77079

3b. Phone No.*(include area code)*
281.366.4491

10. Field and Pool, or Exploratory Area
MORRISON BLUFF ENTRADA

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
1840FWL 615FNL C-34-31-9

11. County or Parish, and State
SAN JUAN NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 recomplete 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 shall be files 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 Notices 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.)

Amoco Production Company respectively submits the attached step rate test procedure and supporting documents for the subject well for your review and approval. Results of this step rate test will be used to support a request to increase the maximum allowable surface injection pressure on this well. We would like to perform this step rate test as early in December as possible.

Electronic Submission #2117 verified by the BLM Well Information System for AMOCO PRODUCTION COMPANY Sent to the Farmington Field Office
Committed to AFMSS for processing by Maurice Johnson on 12/06/2000

Name *(Printed/Typed)* **MARY CORLEY** Title **SUBMITTING CONTACT**

Signature Date **12/06/2000**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date 12/6/00

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

Pritchard SWD #1 - Step Rates

Entrada Formation

Step Rate Test Procedure

Prior to performing the step rate test the building setting over the wellhead must be removed by a roustabout crew. Ensure that water storage tanks are completely full before initiating the step rate test. Water storage capacity on location is 2000 BBLS. Available capacity for test is 1000 BBLS. Must contact NMOCD prior to the step rate test so that they can have a representative witness the test.

1. Shut-in well for 24 hours prior to running step rate test.
2. Rig up wireline unit and lubricator. Trip in the hole with tandem pressure bombs capable of measuring pressure from 0 psig to 10,000 psig. Land bombs in 2.25" ID F seating nipple at approximately 8311' (KB+18'). Note the exact time the gauge was set in the seating nipple.
   * The gauge should allow water to pass by
   * Program bombs to take readings every 5 seconds throughout the test
3. Rig up pump trucks (if required provide second pump truck to span range of injection rates for step rate test) Tie suction to disposal tanks and discharge to tubing. Pressure test lines and connections. Monitor casing and bradenhead pressures during the test.
4. Perform step rate test as follows:

Step	Time	Injection Rate (BPM)	Injection Rate (BWPD)	Cum. Inj. Vol. BW
1	20 min	0.40	576	8
2	20 min	0.80	1152	16
3	20 min	1.20	1728	24
4	20 min	1.60	2304	32
5	20 min	2.00	2880	40
6	20 min	2.40	3456	48
7	20 min	3.80	4032	56
8	20 min	3.20	4608	64
9	20 min	3.60	5184	72
10	20 min	4.00	5760	80
11	20 min	4.40	6336	88
12	20 min	4.80	6912	96
13	20 min	5.20	7448	104
14	20 min	5.60	8064	112
Total = 280 min or 4.7 hrs			Total = 842 BBLS	

Note: 1. Well disposal rates = 700 to 1200 BWPD

2. E. E. Elliott SWD #1 5/5/00 results: frac @ 600 BWPD & 1740 psi

- Continuously monitor surface injection pressure and rate in a digital format. Use a computer van or equivalent if necessary.
- The time step intervals are critical. Inconsistencies such as shorter or longer time steps are unacceptable
- Once an injection rate has been established at or near the requested rate every effort must be made to keep the rate constant

5. Shut down and record ISIP.
6. After performing the step rate test, trip out of the hole with pressure gauges.
7. Perform Mechanical Integrity Test following NMOCD guidelines (if required).
8. Return well to injection.