

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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 Well ☒ Gas Well ☐ Other

2. Name of Operator

Phillips Petroleum Company

3. Address and Telephone No.

5525 Highway 64, NBU 3004, Farmington, NM 87401 505-599-3454

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

Unit N, 1090' FSL & 1650' FWL
Section 35, T29N, R6W

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

SF-078960

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

San Juan 29-6 Unit

8. Well Name and No.

SJ 29-6 Unit #49

9. API Well No.

30-039-07474

10. Field and Pool, or exploratory Area

Blanco Mesaverde

11. County or Parish, State

Rio Arriba, 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 Add pay and stimulate
☐ 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.)*

See attached for the procedure used to squeeze cement behind pipe before adding pay and stimulating the Lewis Shale interval within the existing Mesaverde formation.

RECEIVED
APR 22 1999

OIL CON. DIV.
DIST. 3

RECEIVED
OIL CON. DIV.
APR 30 1999 11:12:18

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

Signed Patsy Clugston Title Regulatory Assistant Date 3/26/99

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

ACCEPTED FOR RECORD

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.

APR 19 1999

* See Instruction on Reverse Side

NMOCD

FAVORABLE BY SM

**San Juan 29-6 Unit #49
SF-078960; Unit N, 1090' FSL & 1650' FWL
Section 35, T29N, R6W; Rio Arriba County, New Mexico**

**Procedure used to perf & stimulate the
Lewis Shale interval in the existing Mesaverde formation.**

2/23/99

MIRU Key Energy Rig #40. Killed well. RD WH & NU BOPs. PT – OK. Unset donut & POOH w/58 jts. 1-1/4" tubing. Had to fish rest of 1-1/4" tubing (all recovered). COOH. RIH w/scraper & tagged down to 5000'. COOH. RIH w/5-1/2" N-1 CIBP & set @ 4975'. Load hole & PT casing & CIBP to 500 psi 30 min. Held OK.

GIH & ran GR/CCL/CBL from 4970' to surface. No cement behind pipe. GIH w/3-1/8" squeeze gun & perforated 2 spf @ 4800' & also @ 4025'. RIH w/5-1/2" cement retainer & set @ 4745'. Established injection rates in both sets of squeeze holes. No communication between squeeze holes @ 4800' & 4025'. RU to squeeze. Pumped 60 sx CI H w/2% CaCl₂, yield @ 1.2 into 4800'. Displaced w/18 bbls water. Sting out of retainer & reversed out 2 bbls cement to surface. Plug down @ 1520 hrs 3/16/99. RIH w/5-1/2" fullbore packer & set @ 3700'. Pumped 55 sx CI H cement w/3% CaCl₂, yield 1.2. Displaced with 17 bbls water. WOC. RD BJ & plug down 1324 hrs 3/16/99. Estimated top of cement @ 3850' – 3900'.

Released packer & COOH w/packer. RIH w/4-3/4" bit & scraper & tagged top of cement @ 3836'. Drilled cement stringers from 3836' – 3850' & cement from 3850' – 4050'. PT casing & squeeze to 500 psi – 30 min. OK. RIH & cleaned out debris & drilled on retainer @ 4745'. COOH. GIH w/4-3/4" bit & tagged top of cement @ 4748'. Drilled out cement to 4810'. PT casing & squeeze to 500 psi – 30 min. OK. GIH & tagged CIBP @ 4975'. Circulated hole. Ran GR/CCL/CBL from 4970' to 3800'. Good bond to 3950'. GIH & set CIBP @ 4740'. Dumped 10 gal sand on top of CIBP. Perf'd Lewis Shale interval @ .38" 120 degree phased holes as follows (Huerfanito Bentonite not present, equivalent stratigraphic depth is 3948').

4707' – 4710' (3');	4658' – 4661' (3');	4597' – 4600' (3');	4586' – 4589' (3');
4524' – 4527' (3');	4478' – 4481' (3');	4464' – 4467' (3');	4393' – 4396' (3');
4353' – 4356' (3');	4345' – 4348' (3');	4328' – 4331' (3');	4224' – 4227' (3'); Total 36 holes

RU BJ to acidize Lewis Shale interval 4224' – 4710'. Pumped 1000 gal 15% HCL acid & ballsealers. Released packer & knocked balls off. COOH. Reset Packer @ 4140'. RU to frac. Pumped 62,476 gal 60 Quality N2 30# X-link Borate foam w/200,420 # 20/40 Brady sand. Total N2 – 916,000 scf. Total fluid to recover 703 bbls. ATP – 3200 psi, with ATR – 40 bpm. ISIP – 380 psi. Flowed back immediately on 2 (1/4" & 1/2") chokes for approx. 44 hours.

Released packer & COOH. RIH & cleaned out fill to CIBP @ 4770'. Drilled out CIBP. Tagged up #2 CIBP @ 4975'. Drilled out & chased to 5647'. Drilled on debris from 5647' – 5648' (PBSD). COOH. RIH w/2-3/8" 4.7# tubing and landed @ 5566' with "F" nipple set @ 5533'. ND BOP & NU WH. Pumped off check. RD & released rig 3/24/99. Turned well over to production department.