

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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SUBMIT IN TRIPLICATE 070 FARMINGTON, NM

| | |
|--|---|
| 1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other | 5. Lease Designation and Serial No. SF-078282 |
| 2. Name of Operator Phillips Petroleum Company | 6. If Indian, Allottee or Tribe Name |
| 3. Address and Telephone No. 5525 Highway 64, NBU 3004, Farmington, NM 87401 505-599-3454 | 7. If Unit or CA, Agreement Designation San Juan 29-5 Unit |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Unit D, 820' FNL & 790' FWL Section 29, T29N, R5W | 8. Well Name and No. SJ 29-5 Unit #32M |
| | 9. API Well No. 30-039-25817 |
| | 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 | TYPE OF ACTION |
|---|--|
| <input type="checkbox"/> Notice of Intent | <input type="checkbox"/> Abandonment |
| <input checked="" 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 <u>Complete MV & stimulate</u> |
| | <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.)*

See attached for details of the procedure used to complete the Mesaverde interval on the subject well. Production from both zones will be commingled per Administrative Order DHC - 2132 dated November 25, 1998. A subsequent report will be filed recording the date actual commingling occurs.

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DIST. 3

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

Signed Patsy Clugston Title Regulatory Assistant Date 11/5/99

(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.

* See Instruction on Reverse Side

FARMINGTON FIELD OFFICE
BY [Signature]

NMCCD

[Handwritten mark]

**San Juan 29-5 Unit #32M,
SF-078282; API – 30-039-25817
Unit D, 729; FNL & 790' FWL Section 29, T29N, R5W
Rio Arriba County, NM**

Procedure used to add the Mesaverde intervals to the existing Dakota well and then commingle production. Also detailed is the procedure used to squeeze cement behind the casing on different intervals.

9/14/99

MIRU Key Energy #40. Kill well w/2% KCl water. ND WH & NU BOPs. PT – OK. COOH w/2-3/8" tubing. RIH w/Lockset packer & set @ 6900'. PT - 3000 psi - OK. Circulate 10 gal of frac sand on top of plug. COOH. RU BJ to PT plug, casing, & frac valve to 5000 psi - 30 minutes. Good test. 9/24/99 RU Blue Jet & perforated Pt Lookout formation @ 1 spf as follows:

5903' - 5905'; 5889' - 5891'; 5884' - 5886'; 5874' - 5876'; 5863' - 5865'; 5869' - 5841';
5836' - 5838'; 5830' - 5832'; 5826' - 5828'; total 20 holes

RU BJ to acidize PT. Lookout. Pump 750 gal 15% HCL & ballsealers. Knocked balls off and retrieved. RU BJ to frac. Pumped 45,975 gal of 70 Quality N2 foam consisting of 14,868 gal of 20# Linear gel & 682,000 scf N2 gas. Pumped a 2400 gal foam pad followed by 10,500# 20/40 Brady sand and 20,540 of TLC 20/40 Sand. Flushed w/1150 gal of foam. ATR- 45 bpm, ATP - 2600 psi. ISDP - 2170 psi. Flowed back on 1/4" and 1/2" chokes for approx. 24 hrs.

RU Blue Jet & set 4-1/2" RBP @ 5820'. Dumped 4' sand on top of plug. Perforated Menefee w/.34" holes @ 1 spf as follows:

5812' - 5814' (3'); 5796' - 5798' (3'); 5785' - 5787' (3'); 5764' - 5766' (3');
5758' - 5760' (3'); 5734' - 5736' (3'); 5687' - 5689' (3'); 5658' - 5660' (3');
5655' - 5657' (3'); 5648' - 5650' (3'); Total 30 holes

RU to acidize Menefee. Pumped 750 gal 15% HCL & ballsealers. Ran junk basket & retrieved balls. RU to Frac Menefee - pumped 51,852 gal of 70 Quality N2 foam consisting of 14,985 gal of 20# Linear gel & 795,000 scf N2. Pumped a 2394 gal foam pad followed by 30,420 # 20/40 Brady sand. ATR - 45 bpm, ATP - 3000 psi; ISDP - 2660 psi. Flowed back on 1/4" & 1/2" chokes for approx. 30 hours. Shut in for 72 hours for buildup, and then flowed back 18 more hours.

10/12/99 MIRU Key Energy #18 to squeeze cement behind casing where perforating. RIH w/4-1/2" RBP & set @ 5638'. Circ. hole. PT casing, rams, & RBP to 2500 psi - OK. COOH. RU Blue Jet & dumped 10' sand on top of RBP. Shot 2 (.34") holes @ 5490'. Established injection rate. GIH w/open ended 2-3/8" tubing to 5512'. RU BJ & spotted 30 sx Class H cement (yield 1.18). Displaced w/18.5 bbls FW. Pulled up end of tbg to 4900', reversed out 1 bbls cement & hesitate & squeeze 1 bbl cement @ 1950 psi. WOC. Job complete @ 1750 hrs 10/13/99. COOH w/tubing. GIH w/3-7/8" bit & drilled 315' cement from 5200' - 5515'. PT casing and squeeze to 700 psi. Failed, Established injection rate. COOH w/bit. RIH w/4-1/2" FB packer & set @ 5610'. PT - OK. Isolate & verified casing leak @ squeeze holes @ 5490'. Reset packer @ 4918'. RU BJ to squeeze again. Pumped 50 sx Class H w/3% CaCl2 (yield 1.18). Displaced with 23 bbls water. Job complete 1426 10/15/99. RD BJ. Load tbg & PT tubing, casing and squeeze to 750 psi - OK. Released packer & COOH. RIH w/bit & tagged top of cement @ 5480'. Drilled out 12' cement from 5480' - 5492'. PT squeeze to 500 psi - OK. COOH. RU Blue Jet & ran GR/CCL/CBL from 5600' - 5350'. TOC @ 5457'. Good 54' of zone isolation above Cliffhouse top perf. Perforated Cliffhouse @ 1 spf (.34" holes) as follows:

5553' - 5555'; 5548' - 5550'; 5542' - 5544'; 5534' - 5536'; 5531' - 5533'; 5528' - 5530';
5524' - 5526'; 5521' - 5523'; 5514' - 5516'; 5511' - 5513' Total 30 holes

RIH w/FBP & set @ 5495'. RU to acidize Cliffhouse. Pumped 750 gal 15% HCL & ballsealers. Released packer & COOH. NU to Frac. Pumped 44,800 gal 70 Quality N2 foam w/30# Linear gel w/30,000 # 20/40 Brady sand. ATR - 45 bpm & ATP - 2000 psi. ISIP - 1670 psi. Flowed back on 1/4" and 1/2" choke for approx. 26 hours.

ND flowback equipment & NU BOP. PT - OK. Kill well w/30 bbls clay water. RIH Lok-set RBP & set @ 5160', PT - OK. RU Blue Jet & dumped 10' sand on top of RBP. Perforated 2 squeeze holes @ 5040'. RIH w/FB Packer & set @ 4518'. RU BJ to squeeze. Pumped 100 sx CI H neat cement w/3% CaCl2. Displaced with 20 bbls water. WOC. PT squeeze to 500 psi. OK. Released packer & GIH to 4524'. Tagged cement bridge and cleaned out w/scraper. Drilled cement from 4650' - 5045'. PT squeeze holes to 500 psi. OK. Circ. hole. RU Blue Jet & ran GR/CCL/CBL from 5142' - 4777' TOC @ 5000'. Shoot squeeze holes @ 4385'. Had to set RBP @ 5030' & dump 5' sand on top & then breakdown

squeeze holes. RIH w/packer & set @ 3915'. RU BJ to squeeze. Pumped 85 sx Cl H w/0.75% FL-62, 0.2% CD-32, 0.2% Sodium Metasilicate. Then tailed in w/25 sx Cl H w/3% CaCl2. Total 29 cf) slurry, & displaced w/17.5 bbls. WOC. PT cement in casing to 500 psi. OK. Released packer & COOH. RIH w/bit & tagged cement @ 4100'. Drilled cement strings from 4100' - 4150', and then hard cement from 4150' - 4400'. PT casing and squeeze to 500 psi - OK. Circ. hole. RU Blue Jet & ran GR/CCL/CBL from 5020' to 4000'. TOC @ 4270'. Good cement isolating Lewis Shale interval. RU Blue Jet & perforated Lewis Shale as follows:

| | | | |
|---------------------|---------------------|---------------------|------------------------------------|
| 5014' - 5016'(3'); | 5007' - 5009'(3'); | 4825' - 4827' (3'); | 4822' - 4824' (3'); |
| 4812' - 4814'(3'); | 4672' - 4674' (3'); | 4663' - 4665' (3'); | 4594' - 4596'(3'); |
| 4590' - 4592' (3'); | 4449' - 4451' (3'); | 4442' - 4444' (3'); | 4432' - 4434' (3'); Total 36 holes |

RIH w/packer & set @ 4414'. Acidized Lewis Shale w/1000 gal 15% HCL & ballsealers. Released packer & retrieved balls. RU to frac. Pumped 69,000 gal 60 Quality N2 foam w/30# Viking X-link gel w/207,440 # 20/40 Brady sand. Total N2 used 834,000 scf. ATR - 45 bpm; ATP - 2750 psi. ISIP - 500 psi. Flowed back on 1/4" and 1/2" chokes for approx. 35 hours.

RD flowback equipment. NU BOP. PT - OK. RIH w/2-3/8" tubing and cleaned out fill to RBP @ 5030'. Retrieved RBP & COOH. GIH & CO to RBP @ 5160', retrieved and COOH. GIH & CO to FBP @ 5638', retrieved & COOH. GIH & CO to RBP @ 5820', retrieved and COOH. GIH & CO to RBP @ 6900', retrieved and COOH.

GIH w/2-3/8" & 2-1/16" tubing cleaning out fill to PBDT @ 8145'. PU & landed tubing @ 8060' w/"F" nipple set @ 8024' & R-3 packer set @ 7370' and sliding sleeve in tubing set @ 5890' (2-1/16" tubing inside 3-1/2" liner). ND BOP & NU WH. Pumped off expendable check. RD & released rig 11/4/99. Turned well over to production department. Well will be commingled as soon as approvals are received per DHC Order # 2132 dated 11/25/98. A subsequent sundry will be submitted advising the date commingling occurs.