

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. OIL CONS. COMMISSION
P.O. BOX 1980
LOS ALAMOS, NEW MEXICO 88240

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

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

PLAINS PETROLEUM OPERATING COMPANY

3. Address and Telephone No.

415 WEST WALL, SUITE 1000, MIDLAND, TEXAS 79701

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

985' FSL & 1650' FWL

Sec 35, T23S, R37E, Unit N

5. Lease Designation and Serial No.
LC 034711

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Baylus Cade Federal #5

9. API Well No.

30-025-32486

10. Field and Pool, or Exploratory Area

Teague Simpson

11. County or Parish, State

Lea Co., 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
☐ 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.)*

11-18-94 DST #1 @ 7538'.

Surface Action: Open tool for 10 min preflow w/weak blow. Increase to bottom bucket in 20 sec. Open 1/4" choke, 5 psi 5 min, 5 psi 10 min. Close in tool for 1 hr initial shut-in. GTS in 13 min. Reopen tool for 60 min. final flow w/good blow. Increase to bottom bucket in 15 sec. Open 1/4" choke, 15 psi 5 min 39.2 MCF, 14 psi 10 min 37 MCF, 11 psi 15 min 32 MCF, 10 psi 20-30 min, 31 MCF, 8 psi 40 min 27 MCF, 7 psi 50-60 min 25 MCF. Close for 2 hrs SI.

Recovery: 847' 6 BBL, 4 BBL 463' heavy gas cut oil, 1 BBL 192' drill mud, 1 bbl 192' water.

Sample Chamber: 2000 cc 3.45 cu ft gas, 500 cc water, trace oil, 1100 psi, 57000 PPM Chl, Rw .089, BHT 135°F.

Pressure: IHP 3460 psi, FHP 3398 psi, PFP 145 - 103 psi, 10 min ISIP 2545 psi, FFP 145-145 psi 60 min, FSIP 2587 psi 120 min.

Continued on page 2

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

Signed Dominic J. Bazile

Title Area Engineer

Date February 2, 1995

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

SJS

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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

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11-30-94 DST #2, 9390' - 9463'.

Surface Action: Open tools for 15 min pre-flow w/weak blow, 2" @ 5 min, 3" @ 10 min, 5" @ 15 min. SI for 60 min initial SI. Open for 60 min final flow w/good blow, btm bucket in 20 sec, open on 1/4" choke, 1" @ min, 1/2" @ 10 min, 13" @ 15 min, 11" @ 20 - 35 min, 14" @ 40 min, flow line plugged. 20" @ 45 min, 28" @ 50 min, 34" @ 60 min. SI for 120 min final SI.

Pull tools loose at 6:00 a.m. 12/1/94 and started out of hole.

12-01-94 DST #3, 9390' - 9463'.

Surface Action: Open tools for 15 min pre-flow w/weak blow, 2" @ 5 min, 3" @ 10 min, 5" @ 15 min. SI for 60 min initial SI. Open for 60 min final flow w/good blow, btm bucket in 20 sec, open on 1/4" choke, 1" @ 5 min, 1/2" @ 10 min, 13" @ 15 min, 11" @ 20 - 35 min, 14" @ 40 min, 20" @ 45 min, 28" @ 50 min, 34" @ 60 min. Valve on ground plugged during final flow.

Recovery: 4600' GIDP plus 405' of HO&GCDM (1.98 BBL), oil & gas cut mud, Chlor 4000 psi, Rw 1.1 @ 60°F, No free oil.

Sample Chamber: 2000 cc, 75 psi, .1 cu ft gas, 1150 cc drilling mud, 50 cc oil, BHT 146°F @ 9372'.

Pressures: IHP 4368 psi, FHP 4286 psi, IPF 124 - 124 15 @ min, FFP 145 - 146 @ 60 min, ISIP 2295 psi @ 60 min (pressure still building, pressure had not broke over), FSIP 2525 psi @ 120 min (pressure starting to break over).

12-02-94 DST #4, 9475' - 9545'.

Surface Action: Open tools for 10 min pre-flow w/weak blow, btm bucket in 45 sec. Open on 1/4" choke, 10 psi @ 5 min, GTS in 8 min, 14 psi @ 10 min - 37.6 MCF. SI for 60 min initial SI. Open on 1/4" choke for 65 min final flow. Flare still burning during SI. 2 psi @ 5 min - 11 MCF, 6 psi @ 10 min - 23 MCF, 5 psi @ 15 min - 20.7 MCF, 3 psi @ 25 min - 15.7 MCF, 10" @ 30 min - 5.3 MCF, 3 psi @ 35 min - 15.7 MCF, 3.5 psi @ 40 - 45 min - 17.1 MCF, 2 psi on 1/2" choke @ 50 min - 47.7 MCF, 1 psi @ 55 min - 33.9 MCF, 3" on 1" choke @ 60 min - 44 MCF.

Recovery: Reversed out 21.5 BBL, 20.5 BBLs 1443' oil, 41.7° @ 60°F, 1 BBL 70' mud, chlor 4000 ppm, Rw 1.1 @ 60°F.

Sample Chamber: 2000 cc, 1200 psi, 4.45 cu ft gas, 175 cc water, chlor 16,000 ppm, Rw .28 @ 60°F, 200 cc mud, chlor 4000, Rw 1.1 @ 60 °F, 650 cc oil.

Pressures: IHP 4430 psi, FHP 4368 psi, PFP 518 - 518 psi 10 min, FFP 560 - 705 psi @ 65 min, ISIP 2129 psi @ 60 min, FSIP 1752 psi @ 143 min, BHT 145°F @ 9457'.

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- 12-07-94 Rig released @ 11:00 p.m. TD @ 9980'. Ran 5-1/2" casing detail as follows: 1 - 5-1/2" Float Shoe (9979'), 1 - 5-1/2" 17# N-80 LTC, 1 - 5-1/2" Float Collar (9933'), 14 - 5-1/2" 17# N-80 LTC, 51 - 5-1/2" 17# J-55 LTC, 1 - 5-1/2" 17# J-55 Marker JT (7059' - 7081'), 24 - 5-1/2" 15.5# J-55 LTC, 1 DV tool (6010' - 6112'), 148 - 5-1/2" 15.5# J-55 LTC, Set & Cmt'd @ 9980.00'. Set slips w/150,000#. Ran 20 centralizers, one on every 3rd joint & one above & below DV tool. Ran cmt basket above & below DV. Cmt w/10 BFW, 30 BBL mud flush, 10 BFW. Lead w/450 sx 'C' lite + 6% gel + 9#/sx salt + .2% AF-11 + .8% CF14 + 1/4#/sx Cello-seal. Tail w/650 sx 50:50 poz 'C' + 2% gel + 4#/sx salt + .2% AF-11 + .6% CF14. Displace w/91 BBLs 2% KCl, 143 BBLs mud @ 10 BPM, 2000 psi. Bump plug 4:00 p.m. w/2000 psi. Floats held. Drop bomb. Open DV tool w/1000 psi. Circ 2-1/2 hrs between stages. Circ 187 sx on DV tool to surface. Cmt 2nd stage w/225 sx 'C' lite + 6% gel + 5#/sx salt + 1/4/sx Cello seal. Tail w/550 sx 50:50 poz 'C' + 2% gel + 4#/sx salt + .2% AF-11 + .6% CF-14. Displace w/143 BBLs 2% KCl at 10 BPM, 1500 psi. Bump plug w/3000 psi 7:30 p.m. 12-7-94. Close DV tool w/3000 psi.
- 12-10-94 Drill out DV tool, TIH to PBTD (9930'). Circ hole w/2% KCl water & test to 1000 psi.
- 12-11-94 RIH & log w/CBL-CCL-GR from PBTD (9933') to 7900', & 6000' to 4000'. Find TOC @ 2136'. PU full bore 2-7/8" x 5-1/2" Arrowset I. TIH.
- 12-12-94 Finish RIH w/295 jts 2-7/8" J-55 6.5# tbg (EOT 9758), SN, 2-7/8" x 5-1/2" Arrowset I pkr. ND BOP, set pkr (9758') w/10K tension, test to 500 psi. Swab down to 6500'. RIH & perf as directed w/180° phased tbg gun. Perf 9842' - 9858' w/2 JSPF (34 total). Swab well dry, recover 24 BBL H₂O, very little entry, no oil. Acidize w/500 gal 15% NEFE HCl. Well communicated w/1400 psi on tbg. Pump 1 BBL down backside & finish acid job. Increased pressure to 2900 psi. Before perfs broke down. AIR 1/4 BPM, max 3000 psi, ISIP vac. Pressure up backside & finish acid job. Flush to top perf. Unflange WH & check pkr, still set & packed off. Drop SV & check tbg for leak. Appears there is a HIT. NU BOP, fish SV (too much weight). Unset pkr, flush backside w/110 BBL 2% KCl water.
- 12-16-94 Swab, testing Ellenburger recovering only salt water. Water analysis confirmed to be formation water. Release pkr set @ 9758' & POOH w/2-7/8" tbg, SN & pkr, re-dress Arrowset I pkr. GIH w/5-1/2" CIBP w/Baker 20 setting tool & charge. Set CIBP @ 9800'. RU dump bailer, mix and dump 3-1/2 sx cmt on top of CIBP as recommended by BLM. NOTE: Shannon Shaw w/BLM approved abandonment of Ellenburger perfs 9842' - 9858', via phone conversation w/Dominic Bazile, 9:30 a.m. CST 12-16-94. POOH w/dump bailer. RD
- 12-17-94 PU Arrowset I pkr, TIH to 9692', set w/10K comp. EOP 9196'. Test CIBP to 2000 psi. POOH to 9556'. Displace well w/oil spotting 100 gal 7-1/2% mud acid. PU to 9196' & set pkr. Test BS to 500 psi. Perf 9474' - 9536' 2 JSPF, 40 total shots. Flush acid into perfs. Swab, IFL surface, swab 3 hrs, to SN, no fluid last run. FFL - 9196'. Breakdown: 2450 psi, ISIP 2150 psi, 1500 psi @ 5 min, 1250 psi @ 10 min, 1100 psi @ 15 min.

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- 12-18-94 SITP 40 psi, IFL 6200'. Make 1 run. Acidize perfs 9474' - 9536' w/3000 gal 7-1/2% mud acid & 60 ball sealers, excellent ball action. IFL surface, swab 9-1/2 hrs, recovered 100 BBL total fluid, 30% oil cut after 60 BBLs were recovered. 2500' entry per hour when swabbed to SN. IFL surface. FFL - SN (9196'). ISIP 1700 psi, 1100 psi @ 5min, 750 psi @ 10 min, 500 psi @ 15 min. Rate 5 BPM, PMAX 3800 psi, PMIN 2400 psi, PAVG 2700 psi.
- 12-21-94 SITP 190 psi. Well SI for BHPBU test.
- 12-22-94 POOH w/bomb, try to run static. RIH w/2" tbg gun, cannot get below 8,549'. POOH & RD Wedge. Unset pkr, POOH w/tbg, LD 79 jts & remove pkr. Perf 2JSPF w/0° phasing from 9476'-9534'. RIH w/production string, ND BOP, set TAC, pack off. 3-1/2 Mutha Hubbard, EOT - 7016.26', 2-7/8" x 2-3/8" X-over, TAC- 6918.10', 2-3/8" SN, Set w/18K tension, 2-7/8" x 2-3/8" X-over, 2-7/8" 6.5# EUE 8rd tbg J-55, 2-7/8" 5-1/2" Baker TAC, set @ 6915.30'
- 12-23-94 PU pump, 20-150 - RHBC - Pump w/20' GA, 1" Pony Rod, 1" Sucker Rods w/MORGS, 3/4" Sucker Rods w/MORGS, 3/4" Steel Sucker Rods, 7/8" Steel Sucker Rods. 1" Steel Sucker Rods, 1" Pony Rod, 1-1/2", Polish Rod w/16' Liner.
- 12-28-94 Unseat pump, POOH w/rods & pump. No sand found in GA. ND WH. NU BOP. Unset TAC, POOH w/tbg. RU Sandline bailer. RIH w/same, tag PBTD @ 9780'. POOH w/bailer. Recover 51 frac balls.
- 12-29-94 RIH w/production tbg. ND BOP, set TAC w/15K tension, checked FL w/swab, 4000' FS, NU WH. RIH w/rods, PU 1000' more, hang on, space out. Started well pumping @ 6:00 p.m. 12-28-94. 24 BLOYTR + 25 BLWYTR. 3-1/2" Mutha Hubbard, EOT @ 8004.16', 2-7/8" x 2-3/8" X-Over, 2-3/8" SN, 2-7/8" x 2-3/8" X-Over, 2-7/8" 6.5# J-55 EUE 8rd tbg, 2-7/8" x 5-1/2" Baker TAC, 2-7/8" 6.5# J-55 EUE 8rd tbg. 20-150 RHBC pump w/20' GA, 1" Pony Rod, 1" Sucker Rods w/MORGS, 3/4" Sucker Rods w/MORGS, 3/4" Sucker Rods (KD), 7/8" Sucker Rods (KD), 1" Sucker Rods (KD), 1-1/2" Polish Rod w/1-3/4" Liners.
- 01-10-95 Pumped 11 BO, 1 BW, & 10 MCF in 24 hrs. FL 239 JFS = 7872', TP 150 psi, CP 165 psi. MIRU X-pert (9:20). RIH w/5-1/2" wireline, set RBP, set plug @ 9465'. POOH w/wireline. PU 2-7/8" x 5-1/2" Arrow Set I pkr, 1 jt, SN & start in hole w/pkr.
- 01-13-95 Pump 150 BBLs McKee oil, 150 gal 7-1/2% HCl mud acid + 52 BBL McKee oil. Flush, spotting acid across area to be perfed, 9408' - 9440'. RD XL, PU pkr to 9190', set pkr. Pressure test csg to 1000 psi. RIH w/2-1/8" tbg gun, 0° phasing, 2 JSPF, mag decentralized & perf as directed 9408' - 9440' (9408', 9409', 9411', 9413', 9414', 9419', 9423', 9428', 9429', 9432', 9435', 9436', 9439' 26 holes total). Displace acid into perfs. Avg pressure 2200 psi @ .8 BPM. ISIP 2000 psi, 5 min 400 psi, 10 min 50 psi, 15 min vac. Swab. IFL 500' FS, 1st hour recovered 18 BO, FFL 4500'. 2nd hr recovered 15 BO, FL 6200', 3rd hr recovered 24 BO. Swabbing from SN, FL 8800'. Wait 30 min, FL 8800', recovered 3 BBL, 60% water. Recovered a total of 58 BO, 2 BW, 150 BLOYTR.

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- 01-14-95 **Acidize McKee sand perfs 9408' - 9409' w/3000 gal 7-1/2% HCl mud acid.** Dropping 40 density matched ball sealers, 8 per 12 BBL. Flush w/2% KCl to top perf (58.3 BBL). Pmin 2000 psi, Pmax 3000 psi, Pavg 2500 psi, AIR 4 BPM. excellent ball action from 2000 to 3000 psi. Did not ball out. ISIP 1700 psi, 5 min @ 900 psi, 10 min @ 200 psi, 12 min @ 0 psi. IFL 650', first 3 hrs. Swab back 56 BW. FL @ 6800', 4th hr FL 6800'. Recovered 13 BBL TF, 6 BW, 7 BO. FL 8800'. Make one more run. Recovered 1 BO. SD for 1 hr. FL 8800'. Swab from SN. Recovered 2-1/2 BO, 2 BW, FL @ SN. Next 2 runs, wait 1 hr each. FL 9000', recovered 1 BW & 2 BO each run.
- 01-17-95 SITP - 210 psi. IFL - 6200', 2800' rise in 42 hrs. First run 99% oil. Swab well 6 hrs. Recover 27-1/2 bbls TF, 14 oil - 13-1/2 H₂O. FFL - 9000'. **Acidize McKee perfs 9408'-9439' w/2000 gal AC-1 diesel blend, tag job w/Iridium for 36 bbls.** Flush to btm perf plus 1 bbl w/lease oil. P-Max - 3000, P-Avg - 3000, rate avg. - 3 BPM, ISIP 2300 psi 5 min - 1800 psi, 10 min - 1300 psi, 15 min - 900 psi. Run temp survey & Gamma Ray across perfs (TD to 9000').
- 01-18-95 SITP - vacuum, IFL - 3500', swab well 10 hrs, FL rises to 6800' in 1 hr after swabbed down to SN. Recover 71 bbls total fluid - 100% oil. FFL - 9000'.
- 01-20-95 RIH w/242 jts 2-7/8" 6.5# J-55 EUE tbgs, EOT 8004.16'. ND BOP, set TAC @ 7906' w/16K tension, NU WH. PU 20-150 RHBC pump w/20' GA, RIH w/pump & rods, hang on, space out.

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