

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

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. <u>LC-030186A</u>
2. Name of Operator <u>Conoco Inc.</u>	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. <u>10 Dosta Drive West Midland, TX 79705</u>	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <u>Unit C - 660' FWL & 1980' FWL</u> <u>Sec. 15, T-23S, R-37E</u>	8. Well Name and No. <u>Crine A-15 No. 1</u>
	9. API Well No. <u>30-025-10718</u>
	10. Field and Pool, or Exploratory Area <u>Longie Matrix 7 Rurs. Quarry</u>
	11. County or Parish, State <u>Lea, NM</u>

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input 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 type="checkbox"/> Other _____
	<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.)*

We propose to plug and abandon the Crine A-15 No. 1 according to the attached procedure.

RECEIVED
OCT 25 11 30 AM '90
STATE OF NEW MEXICO
LINS

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

Signed [Signature] Title Administrative Supervisor Date 10/24/90

(This space for Federal or State office use)

Approved by [Signature] Title PETROLEUM ENGINEER Date 11-5-90

Conditions of approval, if any:

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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GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special in-

structions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

SPECIFIC INSTRUCTIONS

Item 4—If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 13—Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive

zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE — The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

- (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.
- (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).
- (3) Analyze future applications to drill or modify operations in light of data obtained and methods used.
- (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION — Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

CLINE A-15 NO. 1
PLUG AND ABANDON

Summary:

The following procedure is recommended to permanently plug and abandon Cline A-15 No. 1. The dimensions and strengths of the casing strings utilized in this wellbore are no longer standard. The Casing/Tubing specifications listed below are approximated to today's nearest standard string for slurry volume calculations.

1. Set cement retainer @ 3240' and pump 130 sacks of cement into open hole.
2. String out of cement retainer and spot 25 sack cement plug on top of retainer.
3. Spot 25 sack cement plug across base of salt.
4. Perforate 7" casing @ 1220'. Spot 40 sack cement plug across top of salt and intermediate casing shoe.
5. Perforate 7" casing @ 270'. Circulate 70 sacks of cement to set surface plug.
6. Spot 60 sack plug across top of 10-3/4" casing.
7. Pump 185 sacks cement to set plug in surface casing annulus to 270'.

Location:

660' FNL & 1980' FWL, Unit C, Sec. 15, T-23S, R-37E
Lea County, NM

Elevation:

3293' DF (8' AGL)

Completion:

Queen/Penrose PBD: 3672' Cleaned out TD: 3639'
TD: 3860'
6" open hole from 3294'-3860'
Shot OH 3550' -3672' w/480 qts.

Casing/Tubing Specifications:

O.D. (in)	Weight (lbs/ft)	Grade	Depth (ft)	Drift (in)	Collapse (psi)	Burst (psi)	Capacity (bbl/ft)	Capacity (ft ³ /ft)
16	65	H-40	216	15.062	670	1640	.2259	1.2684
10-3/4	32.75	H-40	720	10.036	880	1820	.1009	.5665
8-5/8	32.0	H-40	1214	7.796	2210	2860	.0609	.3422
7	23	J-55	3294	6.241	3270	4360	.0394	.2210
2-7/8	6.5	N-80		2.347	11,160	10,570	.00579	.0325

16" casing set @ 216' (no cement).
10-3/4" casing set @ 720' (no cement). Top 398' was pulled from well.
8-5/8" casing set @ 1214' with 325 sacks cement.
7" casing set @ 3294' with 250 sacks cement.

Use safety factor of 70% for collapse and burst pressures.
Assume 2-7/8" working string will be used.

Notes:

1. All cement slurry used in this procedure shall be Class "C" w/2% CaCl₂ mixed @ 14.8 ppg.
2. All mud shall be 9.5 ppg with 25 lbs gel/bbl brine.
3. Notify BLM prior to commencing any work.

Safety:

This procedure includes cementing and perforating. A pre-job safety meeting involving all personnel on location should be held before any work commences. Conoco policies and the service company's safety procedures should be reviewed. Arrange for a pre-determined assembly area in case of an emergency. No unauthorized personnel are allowed on location.

The following checklist is recommended during cementing operations:

1. All pump and storage trucks should rig up outside dead man anchors and guy wires if possible.
2. All connections on the wellhead must have a pressure rating higher than the maximum pump pressure.
3. Data recording equipment should be located as far as practical from the discharge line.
4. Anchor all lines and pressure test as needed.
5. A service company and/or company employee must be designated to operate valves at the wellhead in case of an emergency.
6. All service and company personnel must keep a safe distance from pressured-up lines. No one should be in the derrick or on the rig while pumping cement.

The following checklist is recommended during perforating operations:

1. The perforating truck should rig up outside dead man anchors and guy wires and be positioned upwind of the wellhead if possible.
2. The perforating company must place warning signs at least 500' away from the operation on all incoming roads.
3. Welding, on location, is not permitted during the perforating operation.
4. Perforating must be suspended during electrical, thunderstorms or sandstorms.
5. Turn off all radios that are within 500' of the operation. They should not be used while rigging up and loading perforating guns or until the gun is at least 500' in the hole. The same process should be repeated when pulling out of the hole.
6. The perforating truck must be grounded to the rig and wellhead before installing the blasting caps(s).
7. Insure that the key to the perforating panel is removed from the panel and the generator on the truck is turned off while arming the gun.
8. No one is allowed in the derrick or on the rig floor while perforating.
9. Upon completion of the operation, the work area shall be thoroughly inspected and all scraps and explosive materials shall be properly removed from the location by the service company performing the operation.

6. Spot cement across top of 10-3/4" casing:
 - A. GIH with 2" tubing to 400'.
 - B. Spot 60 sacks cement from 400' to 300' and displace with 5 bbls mud.
 - C. POOH to 270'.
7. Set cement plug in surface casing annulus:
 - A. Load and circulate hole with fresh water.
 - B. Pump 185 sacks cement (23 sacks excess) to fill up 16" x 8-5/8" annulus.
 - C. POOH laying down tubing.
 - D. RD cement services.
8. Prepare surface location for abandonment:
 - A. ND BOP and cut off all casing strings at the base of the cellar or 3' below the final restored ground level (whichever is deeper). RDMO pulling unit.
 - B. Fill the casing strings (if necessary) from the cement plug to surface with cement.
 - C. Cover the wellbore with a metal plate at least 1/4" thick, welded in place, or a cement cap extending radially at least 12" beyond the 16" casing and at least 4" thick.
 - D. Erect an abandonment marker according to the following specifications:
 1. Marker must be at least 4" diameter pipe, 10' long with 4' above restored ground level, and embedded in cement.
 2. Marker must be capped and inscribed with the following well information:

Cline A-15 No. 1
Unit C, Sec. 15, T-23S, R-37E
Lea County, NM
Date

Note: 1/4" metal plate can be welded to marker and then to the casing after the marker is set in cement.
9. Send a copy of the well service report and final P&A schematic to the Midland Office so the proper forms can be filed.
 - E. Cut off dead-man anchors below ground level and remove markers. Fill in cellar and workover pit.
 - F. Remove all equipment, concrete bases, and pipe not in use.
 - G. Clean and restore location to its natural state. Reseed according to BLM requirements.

Recommended Procedure:
1. Prepare well for P&A:

- A. MIRU. Bleed well pressure down. Kill well with 9.5 ppg brine if needed.
- B. ND wellhead and NU BOP.
- C. PU and TIH w/6-1/8" bit, 7" casing scraper and workstring to 3270'. POOH.

2. Set cement retainer and abandon open hole:

- A. GIH w/7" cement retainer, setting tool and WS. Set retainer at 3240'. MIRU cement services. Circulate hole with 125 bbls fresh water. Pump 130 sacks cement (100% excess) through retainer. Maximum surface pressure is 1000 psi.
- C. String out of cement retainer and spot 25 sacks cement from 3240'-3090' and displace with 18 bbls fresh water.
- D. PU to 3090' and circulate hole with 120 bbls mud.
- E. POOH laying down WS to 2575'.

3. Spot cement plug across base of salt:

- A. Load hole with 2 bbls mud.
- B. Spot 25 sacks cement from 2575'-2425' and displace with 14 bbls mud.
- C. POOH with WS.

4. Spot cement plug across top of salt and intermediate casing shoe:

- A. MIRU wireline services.
- B. RIH with a 4" casing gun loaded 4 JSPF (120° phase, .4" EHD, centralized) and CCL.
- C. Perforate 7" production casing @ 1220'. POOH.
- D. GIH with WS to 1300'. Close BOP. Pump 20 bbls mud to load hole and establish circulation up 8-5/8" x 7" annulus.
- E. Pump 40 sacks cement to spot cement plug from 1300' to 1150' in and out of 7" casing. Displace cement with 6 bbls mud.
- F. POOH with WS. WOC. GIH and tag top of cement.
- G. POOH Laying down WS.

5. Circulate cement up intermediate casing and set surface plug:

- A. RIH with a hollow steel carrier with circulation jets loaded 2 JSPF (0° phase, .4" EHD, decentralized) and CCL.
- B. Perforate 7" production casing @ 270'. POOH.
- C. GIH w/1 joint 2-7/8" tubing. Close BOP. Pump 10 bbls mud to load hole and establish circulation up 8-5/8" x 7" annulus.
- D. Pump 70 sacks cement (10 sacks excess) to fill up 8-5/8" x 7" annulus and set surface plug in 7" casing.

Note: If cement does not circulate to surface, pump 15 sx down 8-5/8" x 7" annulus.