

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

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 - 078194
2. Name of Operator Amoco Production Company		6. If Indian, Allottee or Tribe Name
Attention: Nancy I. Whitaker		7. If Unit or CA, Agreement Designation
3. Address and Telephone No. P.O. Box 800, Denver, Colorado 80201 (303) 830-5039		8. Well Name and No. LUDWICK LS # 5
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1500 FNL 1600FWL Sec. 31 T 30N R 10W UNIT F		9. API Well No. 3004509029
		10. Field and Pool, or Exploratory Area Aztec Fruitland Sand North Extension
		11. County or Parish, State SAN JUAN NEW MEXICO

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 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 checked="" type="checkbox"/> Other RECOMPLETION
	<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.)*

Amoco Production Company requests permission to recomplete the above well to the Fruitland Sand and to isolate the Aztec Picture Cliffs with a CIBP according to the attached procedures.

For technical questions please call:

Mike Kutas
303-830-5159

RECEIVED
DEC - 3 1996
OIL CON. DIV
DIST. 3

NOV 27 1996
11:15
DISTRICT MANAGER

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

Signed Nancy I. Whitaker Title STAFF ASSISTANT Date 11-25-1996

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

APPROVED

NOV 27 1996

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.

DISTRICT MANAGER

SJOET Well Work Procedure

Version: 1

Name: Ludwick LS #5

Date: June 11, 1996

Budget: Recompletion

Work Type: Recompletion

Objectives:

Recomplete the well into the Fruitland sand interval (2330'-2345')

1. TOOH and LD 1 1/4" production tubing SA 2601'.
 2. Set 3 1/2" CIBP @ 2550' and isolate PC.
 3. Perforate and stimulate Fruitland sand (2335'-2345') w/ 2 JSPF.
 4. Cleanout well.
 5. Land 1 1/4" production tubing @ 2335'-2340'.
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Pertinent Information:

Location: Unit F Sec 31-30N-10W

County: San Juan

State: New Mexico

Lease: SF-078194

Flac (well) No: 978674

Horizon: FRT

API #: 30-045-09029

Engineer: G.M. Kutas

Phone: W - (303) 830-5159

H - (303) 840-3700

P - (303) 553-6334

Economic Information:

APC WI: 100%

Estimated Cost: \$87,600.

Payout: 3.2 years

FRT Pre-Production: 0 MCFD

FRT Post-Production: 160 MCFD

Estimated Formation Tops:

Nacimiento:

Ojo Alamo:

Kirtland Shale:

Fruitland: 2185'

Pictured Cliffs: 2570'

Lewis Shale:

Cliff House:

Menefee:

Point Lookout:

Mancos Shale:

Gallup:

Graneros:

Dakota:

Morrison:

PBTD: 2656'

TD: 2656'

Bradenhead Test Information:

Test Date: 8/24/93

Tbg: 156 psi

Int: 000 psi

Csg: 156 psi

BH: 000 psi

Time	BH	INT	CSG
5 min	0	0	0
10 min	0	0	0
15 min	0	0	0

1. Check Anchors. MIRUSU. Nipple down WH. Nipple up BOP.
2. Set tubing plug w/ WL.
3. Tag PBTD and TOO H w/ 1 1/4" tubing .
4. Run bit and scraper to 2656'.
5. Run 3 1/2" gauge ring to 2550'.
6. PU x TIH x 1 1/4" tbg x 3 1/2" CIBP.
7. Set CIBP @ 2550'. Spot 5 sx class B cement on top of CIBP.
8. TOO H w/ tbg and WOC.
9. TIH w/ pkr and set @ 2350'. Pressure test casing to 500 psi. Run GR/CCL/CBL to determine if cement exists across the Fruitland Sand interval @ 2330'-2345'. Tie into Gearhart GR /Neutron log dated 10-4-85 for depth control. If csg pressure test fails, run tbg x pkr and isolate leak. Cement squeeze will be based on location and extent of leak. D/O cmt to PBTD.
10. TIH with perforating gun with packoff, 180 degrees phasing using 2.5 HSE ported guns (11 GM, 0.4 EHD, 10.6 PEN) . Perf 2335'-2345' w/ 2 jspf.
11. TOO H w/ perf gun.
12. Nipple down BOP. Nipple up WH and frac valve.
13. Frac well according to frac schedule A.
14. Flow well back immediately on a 1/4" choke for 4 hours, then flowback on a 1/2" choke until pressure subsides.
15. Nipple down WH. Nipple up BOP.
16. TIH x 1 1/4" tbg x SN x 1/2' mule shoe. C/O to PBTD (est 2461'). Raise and set tbg @ 2335'-2340'.
17. Flow well to insure productivity.
18. SI well. RDMOSU.
19. Return well to production.

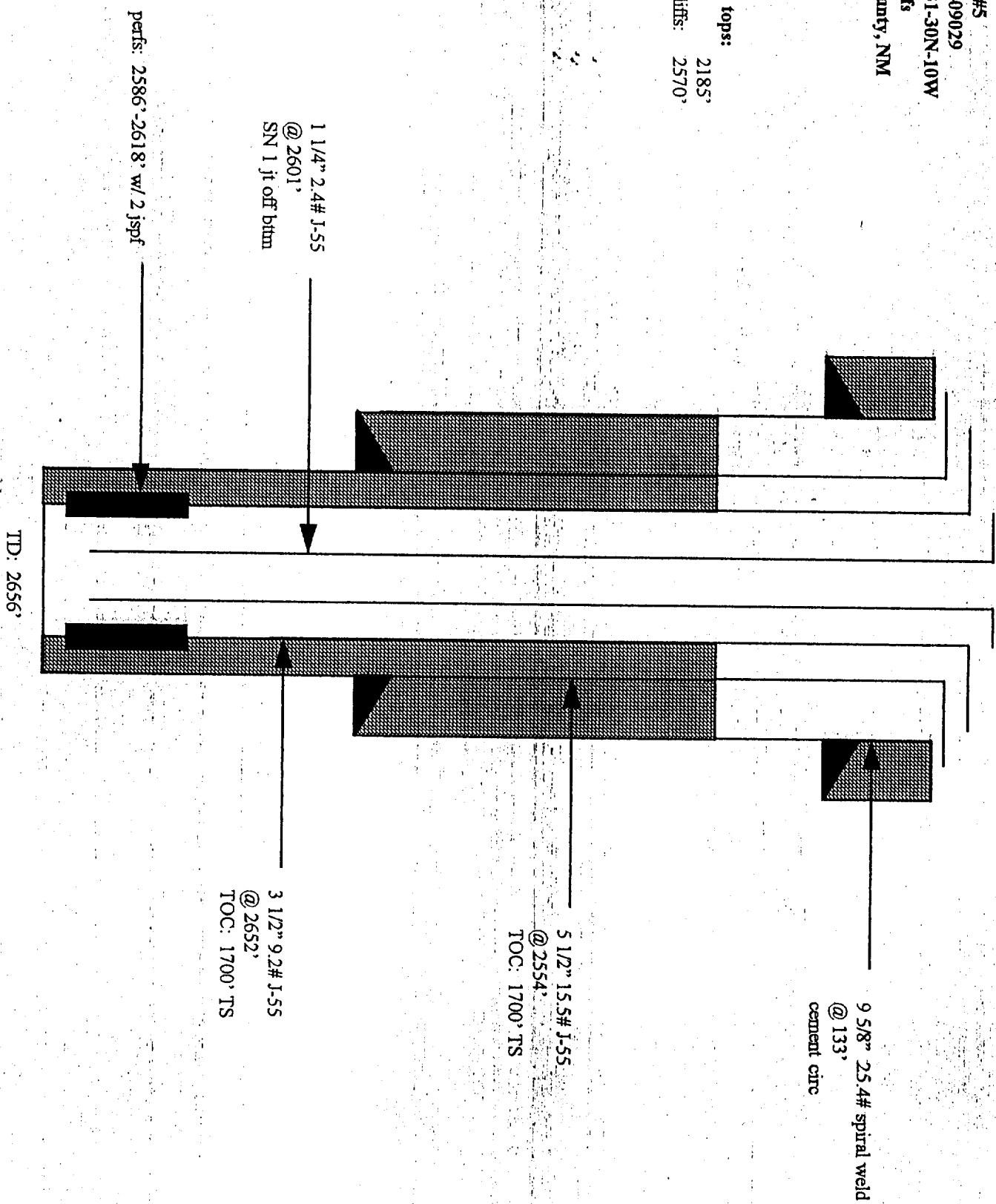
If problems are encountered, please contact:

G.M. Kutas
W - (303) 830-5159

• P - (303) 553-6334

Ludwick LS #5
API# 30-045-09029
Unit F Sec 31-30N-10W
Pictured Cliffs
San Juan County, NM

formation tops:
Fruitland: 2185'
Pictured Cliffs: 2570'



District I
PO Box 1980, Hobbs, NM 88241-1980

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102

Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 3004509029	Pool Code 71240	Pool Name Aztec Fruitland Sand North Extension
Property Code	Property Name Ludwick	Well Number # 5
OGRID No. 000778	Operator Name Amoco Production Company	Elevation 6145

10 Surface Location

UL or lot no. F	Section 31	Township 30N	Range 10W	Lot Idn	Feet from the 1500	North/South line North	Feet from the 1600	East/West line West	County San Juan
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
149.41									
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	1500'	1600'
RECEIVED DEC - 3 1996 OIL CON. DIV. DIST. 3		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Nancy I. Whitaker Printed Name Staff Assistant Title 11-25-96 Date
Plat Re-issued to show corrected acreage dedication per new survey 2-11-74		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. November 17, 1954 Date of Survey Signature and Seal of Professional Surveyer: C. O. Walker Certificate Number