

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

5. Lease Designation and Serial No.

SF078194

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Ludwick A

1E

9. API Well No.

3004525467

10. Field and Pool, or Exploratory Area

Blanco Mesaverde

11. County or Parish, State

San Juan

New Mexico

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Amoco Production Company

Attention:

Patty Haeefe

3. Address and Telephone No.

P.O. Box 800, Denver, CO 80201

(303) 830-4988

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

1050' FNL

790' FWL

Sec. 19 T 30N R 10W

Unit D

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

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Abandonment

☒ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other Downhole Commingle

☐ 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.)\*

Amoco Production Company requests permission to recomplete this well to the Mesaverde and to downhole commingle the Mesaverde and Dakota per the attached procedures. DHC approval is pending from NMOCD.

RECEIVED  
MAY - 1 1996  
OIL CON. DIV.  
DIST. 3

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

Signed

*Patty Haeefe*

Title

Staff Assistant

(This space for Federal or State office use)

Approved by

Title

Conditions of approval, if any:

APPROVED

APR 26 1996

DISTRICT MANAGER

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.

NMOCD

\* See Instructions on Reverse Side

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 30-045-25467	Pool Code 72319	Pool Name Blanco Mesaverde
Property Code 000812	Property Name Ludwick A	Well Number 1E
OGRID No. 000778	Operator Name Amoco Production Company	Elevation 6307'

10 Surface Location

UL or lot no. D	Section 19	Township 30N	Range 10W	Lot Idn	Feet from the 1050	North/South line North	Feet from the 790	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
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Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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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 1050' 790'									

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature Patty Haeefe  
Patty Haeefe

Printed Name  
Staff Assistant

Title  
4/16/96

Date

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.

7/7/82

Date of Survey

Signature and Seal of Professional Surveyor:

on file

3950

Certificate Number

RECEIVED  
MAY - 1 1996  
OIL CON. DIV.  
DIST. 3

# SJOET Well Work Procedure

**Ludwick A 1E**

**Version:** #1  
**Date:** April 16, 1996  
**Budget:** Recompletion  
**Work Type:** Perf-Frac

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**Objectives:**

1. Recomplete MV/Downhole commingle DK and MV
  2. Land TBG mid-lower DK perms
  3. Place well back on production
- 

**Pertinent Information:**

<b>Location:</b>	1050'FNLx790'FWL; Sect. 19D-T30N, R10W	<b>Horizon:</b>	DK/MV
<b>County:</b>	San Juan	<b>API #:</b>	30-045-25467
<b>State:</b>	New Mexico	<b>Engr:</b>	Kutas
<b>Lease:</b>	Federal SF 078194	<b>Phone:</b>	H--(303)840-3700
<b>Well Flac:</b>	97979901		W-(303)830-5159
			P--(303)553-6334

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**Economic Information:**

<b>APC WI:</b>	50%	<b>DK Prod. Before:</b>	45 MCFD
<b>Estimated Cost:</b>	\$80,000	<b>DK Antic. Prod.:</b>	45 MCFD
<b>Payout:</b>	1.8 years	<b>Anticipated MV Prod.:</b>	250 MCFD
<b>Max Cost -12 Mo. P.O.</b>		<b>Anticipated Total Prod.:</b>	295 MCFD
<b>PV15:</b>			
<b>Max Cost PV15:</b>			

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**Note:** Economics will be run on all projects that have a payout exceeding ONE year.

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**Formation Tops: (Estimated formation tops)**

<b>Nacimiento:</b>		<b>Menefee:</b>	4590-4920'
<b>Ojo Alamo:</b>	1390-1540'	<b>Point Lookout:</b>	4920-5390'
<b>Kirtland Shale:</b>	1540-2300'	<b>Mancos Shale:</b>	5390-6336'
<b>Fruitland:</b>	2300-2810'	<b>Gallup:</b>	6336-7080'
<b>Pictured Cliffs:</b>	2810-2870'	<b>Graneros:</b>	7130-7186'
<b>Lewis Shale:</b>	2870-4470'	<b>Dakota:</b>	7186'-TD
<b>Cliff House</b>	4470-4590'	<b>Morrison:</b>	

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**Bradenhead Test Information:**

<b>Test Date:</b>	8/93 DK	<b>Tubing:</b>	460	<b>Casing:</b>	466	<b>BH:</b>	0 psi
<b>Time</b>	<b>BH</b>	<b>CSG</b>	<b>INT</b>	<b>CSG</b>			
5 min							
10 min							
15 min							

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**Comments:** No Flow.

1. MIRSU. Lower TBG and tag for fill (2 1/16" Hydrill TBG SA 7290' w/SN on bottom
2. RU HES W.L.. Run gauge ring to ensure clean casing. Set CIBP at 5500'. Pressure test CSG to 3000 psi. Run GR/CCL/CBL from 5500' to TOL at 4749'. Tie into Gearhart IDL-GR log dated 3/20/83 for depth control.
3. RU perforating equipment. Perforate lower-Menefee and PLO pay intervals using limited entry techniques. Utilize 3 1/8" HCP w/ 12.5 g charges (0.34" EHD, 13.13" Penetration).
4. Break down perforations using 2% Kcl water/500 gal 7 1/2% FeHCl and 7/8" RCN balls w/ 1.1 SG. Recover balls with junk basket.
5. RU fracture stimulation equipment. Fracture stimulate lower-Menefee and PLO pay according to frac schedule A. Flowback well as soon as stimulation equipment is disconnected and moved off. Flow well back starting with 1/4" choke gradually increasing to 1/2" choke. Flow well back overnight or over weekend. Record flowing and shutin pressures, choke size, and liquid recoveries.
6. TIH w/ tubing x bit and scraper. Clean out fill and CIBP to PBD at 7400'. LD BxS.
7. TIH and land 2 1/16" production tubing at approximately 7350' (w/1/2 mule shoe on bottom w/ seating nipple one joint up). Swab well in if necessary. RDMOSU.
8. Obtain gas and water samples. SI well pending equipment hook up. Turn well over to production.

*If problems are encountered, please contact:*

*Mike Kutas*

*(W) (303) 830-5159*

*(H) (303) 840-3700*

*(P) (303) 553-6334*

# Amoco Production Company

## ENGINEERING CHART

Sheet No

Of

File

Appn

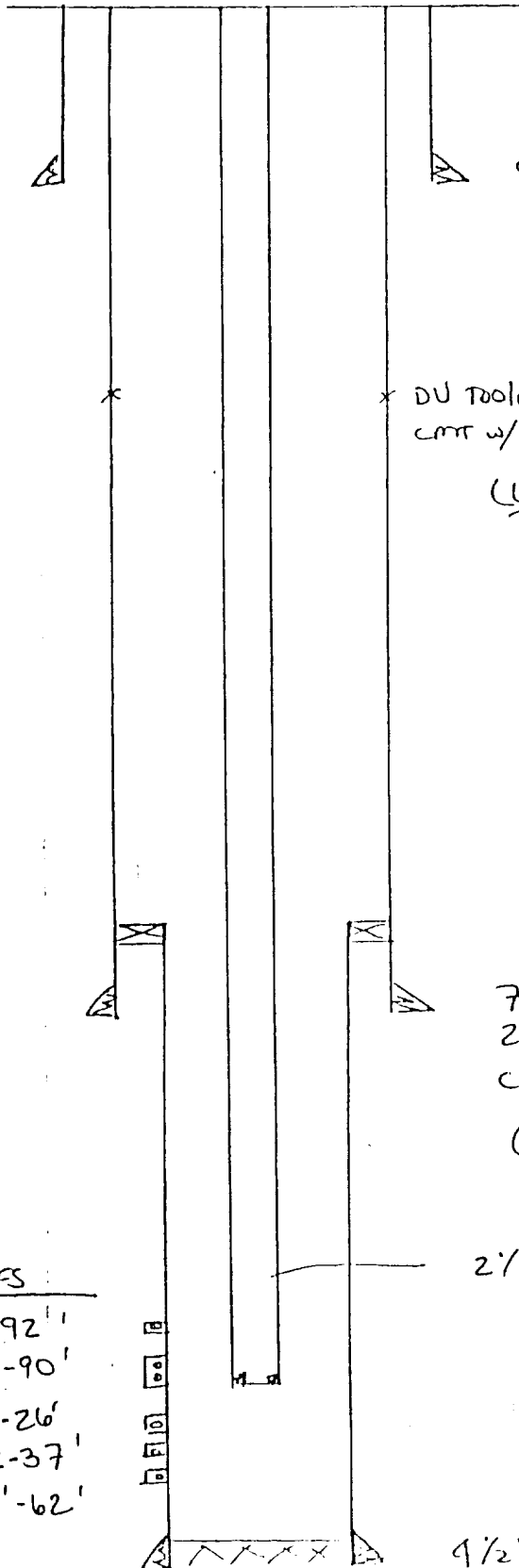
Date

3-11-96

By

GML

SUBJECT LUDWICK A 1E DK



9 5/8" CSA 286'

36 # KSS  
CMT circ'd

\* DU TOOL @ 1589'

CMT w/ 193 SXS 65:35 PbZ + 6% gal + 2% CaCl<sub>2</sub>

50 SXS CLASS B + 2% CaCl<sub>2</sub>

(LOST RETURNS DURING DISPL.)

TOC @ 700' BY TEMP LOG

7" CSA 4920'

23 # KSS

CMT w/ 173 SXS 65:35 PbZ + 6% gal + 2% CaCl<sub>2</sub>

150 SXS CLASS B + 2% CaCl<sub>2</sub>

(Good Circ Throughout)

2 1/16" Hydrill TBY SA 7290'

w/ 1.5" SN @ BTM

3.25 #/ft.

PERFS

7188-92'

7266-90'

7323-26'

7332-37'

7358'-62'

4 1/2" LSA 4747-7405'