

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. NM - 013685	
2. Name of Operator AMOCO PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name	
3. Address and Telephone No. P.O. BOX 800 DENVER, COLORADO 80201 303-830-5039		7. If Unit or CA, Agreement Designation	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1700 FNL 1765 FWL Sec. 27 T 31N R 9W UNIT F		8. Well Name and No. SCHWERTDFEGER COM 1E	
		9. API Well No. 3004524278	
		10. Field and Pool, or Exploratory Area BLANCO MESA VERDE GAS POOL	
		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"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input checked="" type="checkbox"/> Recompletion <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.)\*

AMOCO PRODUCTION COMPANY REQUESTS PERMISSION TO ISOLATE THE BASIN DAKOTA WITH A CIBP, AND RECOMPLETE THIS WELL TO THE MESA VERDE ACCORDING TO THE ATTACHED PROCEDURES.

FOR TECHNICAL INFORMATION PLEASE CALL MIKE KUTAS 303-830-5159

RECEIVED  
JAN 31 1997  
BUREAU OF LAND MANAGEMENT  
DENVER, CO

RECEIVED  
PLM  
97 JAN 23 AM 10:18  
070 FARMINGTON, NM

14. I hereby certify that the foregoing is true and correct		RECEIVED	
Signed <i>Nancy I. Whitaker</i>	Title Staff Assistant	Date 01-22-1997	
(This space for Federal or State office use)		SRBU PERMITTING	
Approved by _____		Date JAN 24 1997	
Conditions of approval, if any:		/S/ Duane W. Spencer 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.			

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# SJOET Well Work Procedure

Version: 1

Name: Schwerdtfeger Com 1E

Date: January 10, 1997

Budget: PxA DRA / Recompletion

Work Type: PxA / Recompletion

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## Objectives:

Abandon the Dakota and recomplete the well into the Mesaverde horizon (4675'-5720')

1. TOO H w/ 2 3/8" - 1 1/4" tbg set @ 7502'
  2. Set CIBP @ 7500' and top w/ 5 sx class B cement
  3. PT csg
  4. Perforate and stimulate Point Lookout interval (5376'-5706')
  5. Perforate and stimulate Menefee interval (5094'-5172')
  6. Perforate and stimulate Cliffhouse interval (4680'-5032')
  7. Cleanout fill and land 2 3/8" tbg @ 5456'.
  8. Return well to production
- 

## Pertinent Information:

Location: 1700' FNL x 1675' FWL, Unit F Sec 27-31N-9W

County: San Juan

State: New Mexico

Lease: NM-013685

Flac (well) No: 979658

Horizon: MV

API #: 30-045-24278

Engineer: G.M. Kutas

Phone: W - (303) 830-5159

H - (303) 840-3700

P - (303) 553-6334

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## Economic Information:

APC WI: 50%

Estimated Cost: \$150,000.00

Payout: 3.2 years

Anticipated MV Prod: 400 MCFD

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## Estimated Formation Tops:

Nacimiento:

Ojo Alamo:

Kirtland Shale:

Fruitland:

Pictured Cliffs:

Lewis Shale:

Cliff House: 4960'

Menefee:

Point Lookout:

Mancos Shale:

Gallup: 6792'

Greenhorn:

Dakota: 7530'

Morrison:

PBTD: 7720'

TD: 7711'

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## Bradenhead Test Information:

Test Date: 8/27/93

Tbg: 321 psi

Int: 000 psi

Csg: 452 psi

BH: 000 psi

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

1. Check Anchors. MIRUSU. Nipple down WH. Nipple up BOP.
2. Set 1 1/4" tubing plug in SN @ 7502' w/ WL.
3. Tag PBTD and TOOH w/ 2 3/8" - 1 1/4" tubing assembly .
4. Run 4 1/2" bit and scraper to 7500'.
5. TIH w/ work string x 4 1/2" cement retainer. Set CIBP @ ~~7500'~~ 7480'.
6. Spot 5 sx class B cement on top of CIBP. PBTD est 7430'.
7. Pressure test casing to 3000 psi. 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 PBD.
8. Nipple down BOP. Nipple up WH and frac valve.
9. TIH w/ TIH w/ perf gun. Perforate PLO pay intervals using limited entry techniques. Utilize 3 1/8" HCP w/ 12.5 g charges (0.34" EHD, 13.13" PEN) 120 degree phasing. Perf as follows: 5376', 84', 5410', 12', 22', 38', 54', 66', 70', 74', 76', 5537', 68', 5607', 26', 56', 5714', 18' with 18 total shots.
10. BD perfs using 2% KCl water/ 500 gal 7 1/2% FeHCl and 7/8" RCN balls w/ 1.1 SG. Recover balls with junk basket.
11. RU frac equipment. Frac PLO according to frac schedule A. Flowback well as soon as stimulation equipment is disconnected and moved off. Flow back well starting w/ 1/4" choke gradually increasing to 1/2" choke. Record flowing and shut in pressures, choke size, and liquid recoveries.
12. Set RBP @ 5330'.
13. TIH w/ perf gun. Perforate Menefee pay intervals using limited entry techniques. Utilize 3 1/8" HCP w/ 12.5 g charges (0.34" EHD, 13.13" PEN) 120 degree phasing. Perf as follows: 5062', 66', 94', 5124', 26', 32', 39', 71', 74', 76', 78', 5205', 21', 44', 72', 98', 5310', 22' with 18 total shots.
14. BD perfs using 2% KCl water/ 500 gal 7 1/2% FeHCl and 7/8" RCN balls w/ 1.1 SG. Recover balls with junk basket.
15. RU frac equipment. Frac Menefee according to frac schedule B. Flowback well as soon as stimulation equipment is disconnected and moved off. Flow back well starting w/ 1/4" choke gradually increasing to 1/2" choke. Record flowing and shut in pressures, choke size, and liquid recoveries.
16. Set RBP @ 5050'.
17. TIH w/ perf gun. Perforate Cliff House pay intervals using limited entry techniques. Utilize 3 1/8" HCP w/ 12.5 g charges (0.34" EHD, 13.13" PEN). Perf as follows: 4680', 84', 88', 4908', 18', 24', 43', 67', 82', 83', 86', 92', 5009', 16', 18', 24', 26', 32' w/ 18 total shots.

18. BD perfs using 2% KCl water/ 500 gal 7 1/2% FeHCl and 7/8" RCN balls w/ 1.1 SG. Recover balls with junk basket.
19. RU frac equipment. Frac Cliff House according to frac schedule C. Flowback well as soon as stimulation equipment is disconnected and moved off. Flow back well starting w/ 1/4" choke gradually increasing to 1/2" choke. Record flowing and shut in pressures, choke size, and liquid recoveries.
20. Retrieve RBP @ 5050' and 5330'.
21. TIH x 2 3/8" tbg x SN x 1/2 mule shoe. C/O to PBTD (est 5800'). Raise and set tbg @ 5456'.
22. Flow well to insure productivity.
23. SI well.
24. RDMOSU.
25. Return well to production.

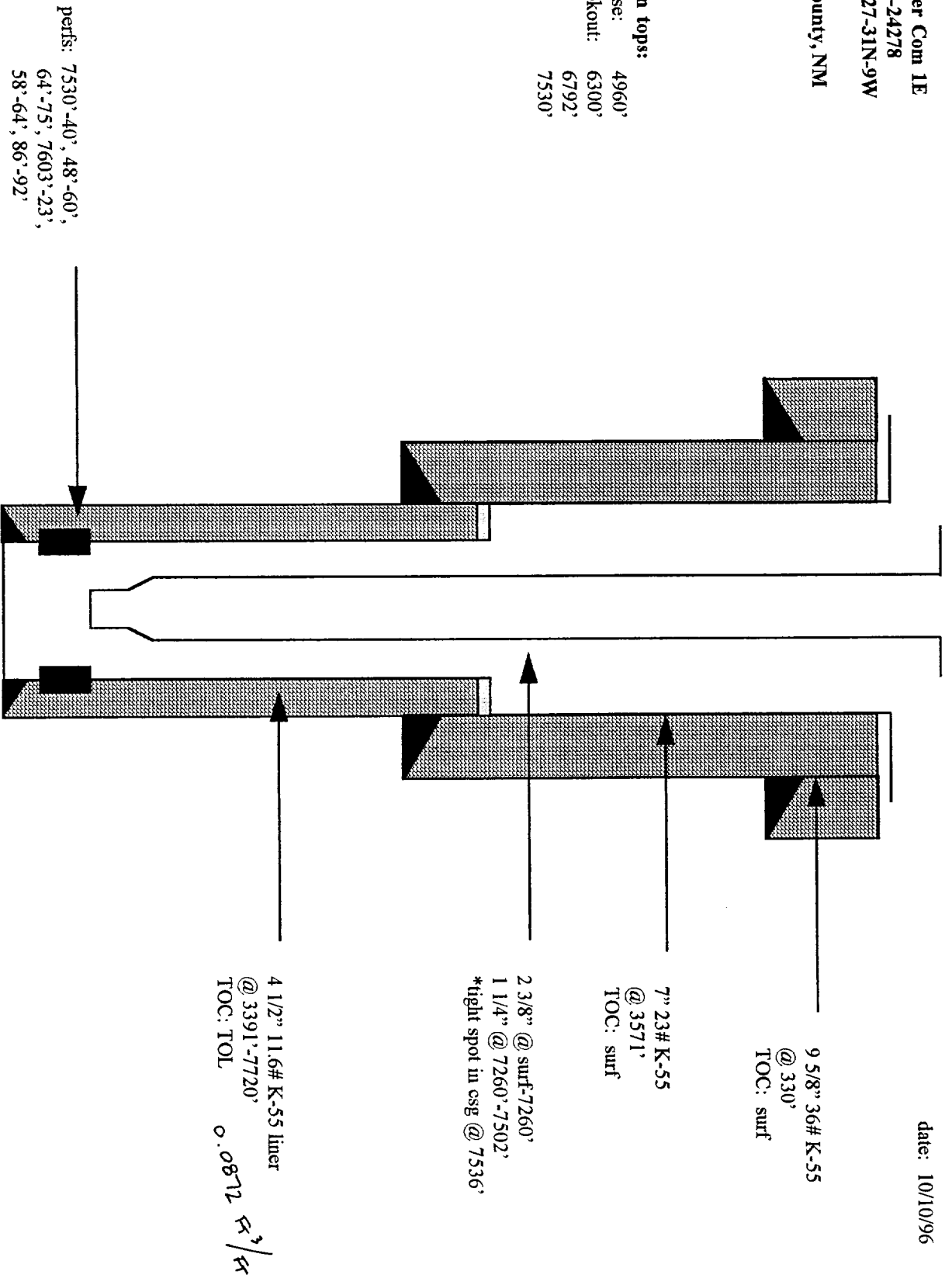
If problems are encountered, please contact:

G.M. Kutas	Hiep S. Vu
W - (303) 830-5159	W - (303) 830-4868
H - (303) 840-3700	H - (303) 671-7180
P - (303) 553-6334	

Schwerdtfeger Com 1E  
 API# 30-045-24278  
 Unit F Sec 27-31N-9W  
 Dakota  
 San Juan County, NM

date: 10/10/96

formation tops:  
 Cliff House: 4960'  
 Point Lookout: 6300'  
 Gallup: 6792'  
 Dakota: 7530'



**DISTRICT I**

P.O. Box 1980, Hobbs, NM 88240

**DISTRICT II**

311 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 and Natural Resources Department

**OIL CONSERVATION DIVISION**

2040 South Pacheco

Santa Fe, New Mexico 87505

Form C-102

Revised October 18, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

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97 JAN 23 AM 10:18

070 FARMINGTON, NM

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number 3004524278	Pool Code 72319	Pool Name BLANCO MESA VERDE GAS POOL
Property Code 1034	Property Name SCHWERTDFEGER COM	Well Number 1 E
OGRID No. 00778	Operator Name AMOCO PRODUCTION COMPANY	Elevation 6307 GL

**Surface Location**

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
UNIT F	27	31N	9W		1700	NORTH	1765	WEST	San Juan

**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		
Dedicated Acreage: 314.53					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**

	<b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
	Signature  Printed Name Nancy I. Whitaker Position Staff Assistant Date 01/22/1997	
	<b>SURVEY CERTIFICATION</b> 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 knowledge and belief.	
	Date of Survey 03/07/1980 Signature & Seal of Professional Surveyor  Fred B. Kerr Jr. Certificate No. 3950	