Form 3160-5 (June 1990)

representations as to any matter within its jurisdiction.

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

DUREA	O OF LAND MANAGEMENT		
SUNDRY NO		5. Lease Designation and Serial No. SF-078096	
Do not use this form for prop Use "APPLIC		6. If Indian, Allottee or Tribe Name	
			7. If Unit or CA, Agreement Designation
1. Type of Weil Oil X Gas Weil Other			8, Well Name and No.
2. Name of Operator	Attention:		Mudge 13 10A
Amoco Production Compa	:evedo	9. API Well No.	
3. Address and Telephone No.			30 045 22733
P.O. Box 800, Denver	, Colorado 80201		10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or			Blanco Mesaverde
1500 PCT 19201 PPT	Coa 0 m21N-D11	<b>T</b> AT	11. County or Parish, State
1500 FSL, 1820' FEL,	Sec. 9, T3lN-R11	.w	San Juan, New Mexico
12. CHECK APPROPR	IATE BOX(s) TO INDICATE NA	TURE OF NOTICE, RE	PORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
⊤X	Abandonment		Change of Plans
Notice of Intent	Recompletion		New Construction
Subsequent Report	Plugging Back Casing Repair		Non-Routine Fracturing Water Shut-Off
	Altering Casing		Conversion to Injection
Final Abandonment Notice	X other Bra	denhead Repair	Dispose Water
			t results of multiple completion on Well Completion or n Report and Log form. )
	(Clearly state all pertinent details, and give pertinent date a vertical depths for all markers and zones pertinent to thi		any proposed work . If well is directionally drilled, give
Amoco intends to perfro	om the attached workover pr	ocedure required t	o eliminate bradenhead
_			
	o requests approval to cons t will be reclaimed if util		
If you have any question	ons please call Julie Aceve	do at 303-830-6003	37
	EB1	L 1 1993	MAN WED
	_	ON, <b>DIV</b> . 57 <b>. 3</b>	12: 49
14. I hereby certify that the foregoing is true and Signed	Chrect	Sr. Staff Assist	ant <sub>Date</sub> 1 <u>/28/93</u>
This space for Federal or State office use)			APPROVED
$\mathcal{O}$			
Approved by	Title		<u>FEB</u> 0 8 1993
Conditions of approval, if any:			/ 1/4> )

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, ficticious, or fraudulent statements or

### BRADENHEAD PROCEDURE MUDGE B 10A

#### JAN. 25, 1993 (ORIGINAL VERSION)

- 1. Record TP, SICP, and SIBHP.
- 2. MIRUSU.
- 3. Blow down well.
- 4. Install BOP.
- 5. TOH with 2 3/8" tubing. Lay down bull plug and perforated sub.
- 6. RU lubricator.
- 7. Run a correlation log from 5363' to 4800' and perforate, underbalanced, the MV with a 3 1/8" casing gun, 2 JSPF, 90 deg. phasing, and 15 g charges. Depths are correlated from Schlumberger's Compensated Formation Density log dated 78/01/15.

#### PERFORATE

4964′	-	68′	4984′	-	5000′	5010′	-	20'
5030'	-	35 <i>'</i>	5042′	-	54 <i>'</i>			

- 8. Make a scraper run inside the 4 1/2" liner to 4800'.
- 9. TIH with RBP and set at 4800'. Cap with 5 sacks of sand.
- 10. Pressure test casing and liner top to 3500 psi.
- 11. Run a GR/CCL/CBL from  $4800^{\circ}$  to surface, and determine TOC for both the  $4\ 1/2$ " liner and the 7" casing. Relay CBL info to Paul Edwards in Denver, and verify whether squeeze work will be necessary prior to the MV fracture treatment.
- 12. Swab fluid level down to 3900'.
- 13. RU lubricator. Correlate the GR/CCL/CBL with Schlumberger's Compensated Formation Density log dated 78/01/15. TIH with 3 1/8" casing gun and perforate the following MV intervals with 2 JSPF, 90 deg. phasing and 15 g charges.

#### PERFORATE

4306′	- 36′	4357' - 60'	4412' - 49'
4455′	- 62′	4470' - 78'	4489' - 91'
4500'	- 03′	4530' - 32'	4540′ - 47′

- 14. Fracture stimulate these perfs according to the attached frac schedule.
- 15. Open well slowly 4 hours after the frac. Flow back overnight.
- 16. Clean out with N2 to RBP and TOH with same.
- 17. Clean out sand to PBTD (5363') with N2.
- 18. TIH with RBP and set at 1500' inside 7" casing, cap with 5 sacks of sand.
- 19. Perforate 2 squeeze holes within 100' of the TOC in the 7" casing.
- 20. Conduct cement squeezes until cement is brought to surface. Run CBLs, shoot additional squeeze perfs, and contact Paul Edwards as necessary.
- 21. TOH with RBP set at 1500'.
- 22. Land tubing at 5050' with a seating nipple one joint off of bottom and continue to flow back load until well is capable of producing against 350 psi.
- 23. Tie well back into surface equipment and turn over to production.

# Amoco Production Company, ENGINEERING CHART A

SUBJECT\_

					<u>ंॅ</u>	<u> </u>	6	. 11						-1337		14		चे प्रशित्त -			AL.		<b>新</b>	В	1.1	AE	Hiri.	rithm.	<u> अस्ति ।</u>	
:			.: ///			;	¥;*1		<del></del>	T	T		1,00	. 31	2.4%	150	Will.	142	384	级的	415	191	411	機制	海影	III)			21/1	
			**		·	<del>-</del> -								77		1				125	134	Z			11/4	7.15.		2	蘇	
- ·		<b>-</b> ·	-				5.						3 <sup>2</sup> 40	212	32	O-)	滿	(-3	<u> </u>	1934	7	3計			42%	413			3.1	
								<u> </u>	<del> </del>				4. :	12.5			ATTITUTE OF THE SECOND	1.63	/	347 k	7		/W	The state of	54-438 3:	(Carry	743.19 5716	- 2 <sup>2</sup> - 1		-#
	95/	<u>'"</u> , [	32	.3	#/4 SG	7	V.,				_			- 19 - 13 - 1	- X	1111	Part A	13.2	7195		12:31		*/	$\mathcal{L}$		99	(=		fa	드뤼
		4-4	10	C.	SG	) }			 						13			#VE	That	\$41° 35.35	10	(	20000	185 1	C.	5G	ی	7 .	22	3/  :
														91	1		<del>}</del>				JA .	132	) 源	1		1100			77.	
						   		(														變	靈		11 to 16				1.5	
	-	_				i -		1	,		-			6.7			(3) (3)	1	美方				腦	3		194	1	53		
						1	-	···· \							7. (A) 14.	7	3	<b>Q</b>			4	W	194	04	排機	1.3	(456	174	4 14	
1	6	0.0	A	lan	10	<del></del>										16	談			200	\(\frac{1}{2}\)	X	神道	70		. 9	50	<i>\</i>	(+5	
.]		<u>.</u>				1		1	Y	/ <u> </u>				. 1		1.5	16 15	1.0	1	7,	7		15.10	1.1		1		1		
						 	21   75   75							3 ( 34 3 ( )	· · · ·	75	54 54 32 5	100		73.	(2)		1863年	1877	133			- 1		
							1		/				· · ·		31 (5) 21 (8)	100	1111	339 pt 4	17.00	350 300	1	147	11年	Mary.	19.5	46.7	1993	1574	40	
				ļ		-	1			/_]			1 44	19.47	1107	3.54	70	100	A BASE	温度			323	4700 2013	136	1.01.4	10,11	1734	26,611 12,344	
											1		1 11	3	3.0			1.315	1349	1817	$ \Sigma $		130		14	\$ \$ 1.00 miles		1335	15 7	
								· '						13.7		12 in		1 1		4		N		A S	1,0		1	14	際	
- :					777									耧		3.33		133	13	談			111	藝		機能	13		4. (c)	
. :			! !			Ì	1	<b>†</b>			1	-: .		- 15	5,5		1	谜		14	Z	X	22	00	134	i vizit	13	1	3,6	T. g.
	F	. :ı	-la-	آد!	C	oal				//	i			Ji.	1	Ji	1	2.0	+18	T.	Z	X	118	쀊	1000	Ti,	Pic.	1 45	1	
	1		la	12	<del>                                     </del>	-	1		//			- 13 - 24 - 24		1	1	# A)			A	244	Z			è		111	38.	7.3		
· .							1 15	-	Y,					验	: <b>::</b>	1 (F)	3/4	100		VIVE I			13	90	11.1	1 33 5	197	1000	g 14	
	_		!	!	1,		175	<u> </u>	۲.,	/_					3.5	1.43	36		167	3.5			1X6	70	100	-	10	1 2	1234	1. 7
	P	cti	166	<u> </u>	lif	fs'	liger.	_	V.,	//			di di	*## **#	33 (A) 3 (A)	334	121.2	i de	, R/1	100		<b>//</b>	राज्या सन्दर्भ		1	二	100	وي.	300	125 3
							1		/_,		Z		93	FAX.	117	18	14.7			(F)		颜				<u> </u>	褞	<u>83</u>	#4	
	7"	2	0#	41	K	55	};c	56			/	1	18			e	180	100		(V)		<b>公</b>	18	CS	G	<u>ĽS</u> ·	<u>1</u>	30	46	
							1			4		/	1.5	談	3.5				\ <u>\</u>		图		阅			排制	Bill	No.		
. <b>1</b> 1	3.7	1		1			\$1	,,		111		/	0.3	33	福	1	持	() ()			184	Ŋ.	藤	16	制制				TOP	16.5
			-		$\vdash$		1					17.	Tip:			1	4		X	Z			4.0	腦		18.3	W.			
				-	<del>                                     </del>			1				1		THE STATE OF		153	R.		Ż	X	關		63				W.			
				-	+	-		+			Y-/	/-/		10.0		70			K	X	類		TV.	183	117					
		<u>.</u>		-	-	-		<del> </del>	<del> </del>		/	/-/	I Van	120		18.5	113	105	K		捌	P		A AND	1	1 197		43		1
				-	-	1:-	A A	<del> </del> -	<del> </del>	10	1	<b>/</b> -								尖					1134		37.			
31					3.	113					Υ.,	$\angle$		197		18					何	300		THE		453				
				1	1 11		41:				/			187			山路	18	1/2		木	AX	12	114	يط	MISC.	2 3.50		1/10	3,34
:	MV	Pe	٠f.	5 %	40	12	9!-	15	30	6'-						1	搜			70	開發	315	1		9   3   16 <u> </u>	* 4 ***			<b>月</b> 越	
		-			1		1			Ĭ	/	1	1	(1)		1	1	H.F	1/2	X	圖	關		1			1.0	1 4		
<b>;</b>				1	-		(E)		1		(/	1				3	THE					100	個			制發	1	1 强		
	1	L	11 -	7#/	40.1	- 1	-55	-	a		γ 	$\leq$	1-	177				, g		$\stackrel{\searrow}{=}$	$\equiv$	#/	3/5	1	۵	15	31.			Look
	di di	<u>'8</u> /	7.	1-17 1	一.	,,,-		)     <u> </u>	36	TE		$\equiv$		124		ġ.	712	1		$\equiv$	S	I O	71.78	S SV	15	380	ď.	كروا أرا		
	-	1.,,	10	ا سد ا د م	1/2		41.	+	1.	∤€		==	1.45	154	1 11	၀ ၀ ၁				$\equiv$		#	TE.	長。	<u> </u>	380 PB	#		; 36.	* ,
	176	<u>i</u> ,	10.	5	<b>*</b>	1/2	<u>-55</u>	丁下	NR		乙	Z			A de	`	- 17(1) - 17(1)	* T" [1] [2]	broth st	1 2 45	V	1111	言語	10°	SIN SIN	- <u>(0</u>	<u>///)</u> !'.::		<u>۔ 0 د</u>	<u>-11</u>
11.00		444	- ^-	•			<b>*1</b> 5:14*			¥ .		1:	ZM a filt	474391	er att	1.176	HTM P() A	with the	ordVATA	e e e e e e	15175)	dati (B)	n z.MM	****	明显智慧等	te mit first	1.00		- 10 H	• • •

MUDGE LS 010A 1605
Location — 9J— 31N—11W
SINGLE MV
Orig.Completion — 3/78
Last File Update — 1/89 by DDM

TOP OF 4.5 IN. LINER AT 2883

BOT OF 7 IN OD CSA 3046, 20 LB/FT

TOC = 950

BOT OF 2.375 IN OD T9G AT 5315

PRID AT 5363 FT.

TOTAL DEPTH 5380 FT.

BOT OF 4,5 IN OD LINER AT 5380 10.5 LB/FT, K-55 CASING

• -

Cathodic Protection - ?