FORM 3160-3 (July 1992)

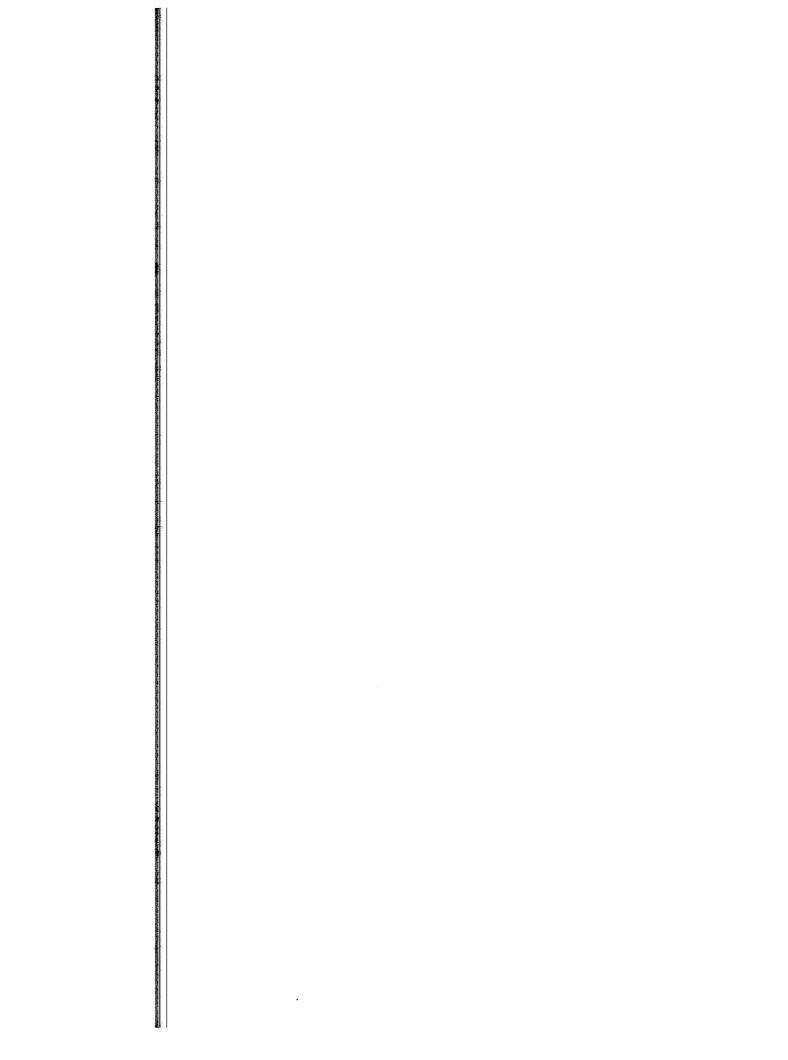
SUBMIT IN TRIPLICATE* (Other instructions on

1010111	
OMB NO. I	136
Expires Febr	28, 1

UNITED STATES	
EPARTMENT OF THE INTER	IOR
THE PURE ALL OF LAND MANAGEMENT	

1995

			reverse	side)	Expires Febr		
	DEPARTMEN	TED STATES NT OF THE IN LAND MANAGE	TERIOR		5. LEASE DESIGNA SF - 077091	i and si	ERIAL NO.
	PLICATION FOR				6. IF INDIAN, ALOT	OR TRI	BE NAME
AP	PLICATION FOR	PERMIT 10 BI	CILL ON DIE		7. UNIT AGREEME	IAME	
TYPE OF WORK	RILL X -	DEEPEN					
TYPE OF WELL OIL WELL	GAS X	THER	SINGLE MULT ZONE ZONE	IPLE_X	8. FARM OR LEASI TRIGG FEDE	me, wei L GAS	
NAME OF OPERATOR AM	OCO PRODUCTION CO . BOX 3092	MPANY			9. API WELL NO.		. (
	USTON , TX	77079	4491 EXT:		30-0	p ~ '	30626
ADDRESS AND TELEPHONE ARY CORLEY UTHORIZED REPRE		PHONE 281.366 FAX: 281.366 EMAIL: corley m	.0700		10. FIELD AND PO BASIN DAKO	OR WILE /BLAN	DCAT NCO MESAVER
LOCATION OF WELL (Repor	t location clearly and in accordance v	vith any State requirements.*)	55.26.51.58.50	305	11. SEC.,T.,R.,M., C	LK.	7
Surface 40FSL AND 2420FW proposed prod. zone	L SESW SEC 15 T29N	R9W	2001		AND SURVEY OF SECTION 15 MERIDIAN I		V 9W
DISTANCE IN MILES AND	DIRECTION FROM THE NEARES	T TOWN OR POST OFFICE	July Editor	ι υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ	12. COUNTY OR P	H	13. STATE NM
MILES FROM BLO DISTANCE FROM PROPOS DISTANCE FROM PROPOS DISTANCE FROM PROPOS	OMFIELD, NM	16. NO. ACRES 303.67	S IN LEASE OIL DIST. 3		ACRES ASSIGNED		
ROPERTY OR LEASE LINE, I also to nearest drlg. unit line, if	any)	19. PROPOSEI	DEPTH	L W	RY OR CABLE TOOL		
DISTANCE FROM PROPOS D NEAREST WELL, DRILLIN R APPLIED FOR, ON THIS L	NG, COMPLETED,	7144 MD /		ROTAR	RY		
I. ELEVATIONS (Show wheth					22. APPROX. DAT 05/05/2001	ORK WI	LL START*
. ELEVATIONS (Silon minu	5940 GL -	DROPOSED CASING	AND CEMENTING PROGRA	AM	03/03/2001		
S. S. S. HOLF	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTI	F CEME	NT
SIZE OF HOLE	OKADE, SIZE OF CHIEF.						
well to a total depth of	approximately /144, com	piete in the Busin Day	respectfully request permissi kota Pool, produce the well fo	hole Annlic	stion for	Well-branch of the second by the second branch	
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well to a total depth of days to establish production has been es Blanco Mesaverde. In files). This series is procedural revand appeal pu	approximately 7444, concept on the Blanco gauthority (NMOCD orders ablished in the Basin Dal support of our application of the Basin Dal support of the Basin Dal su	Mesaverde Pool and Preserved Pool and Preserved Pool and Prior to for permit to drill we preserved Pool and Proposal is to dee locations and measure IBMISSION #3348 VI	commingle production down omitted to all appropriate par completion of and downhole have attached 8 documents and true vertical depths. Give CRIFIED BY THE BLM WE SENT TO THE FARMIN	thole. Applicative zone and incline zone and incline zone and incline zone and incline zone zone zone zone zone zone zone zo	ation for roval after ag with the 2 .pdf d proposed producenter program, if an MATION SYSTI FIELD C	ICE	
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Disariet I PO Box 1980, Hobbs NM 88241-1980 District II PO Drawer KK, Artesia, NM 87211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Reviso

Submit to Appen

bruary 21, 1994

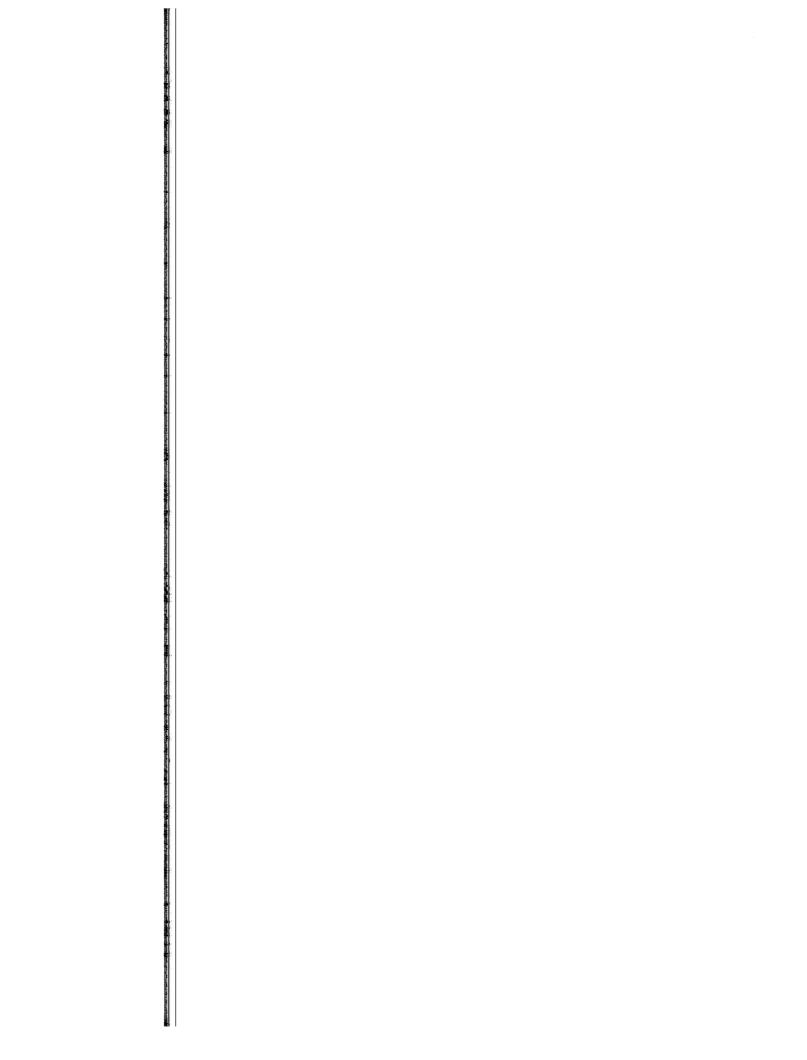
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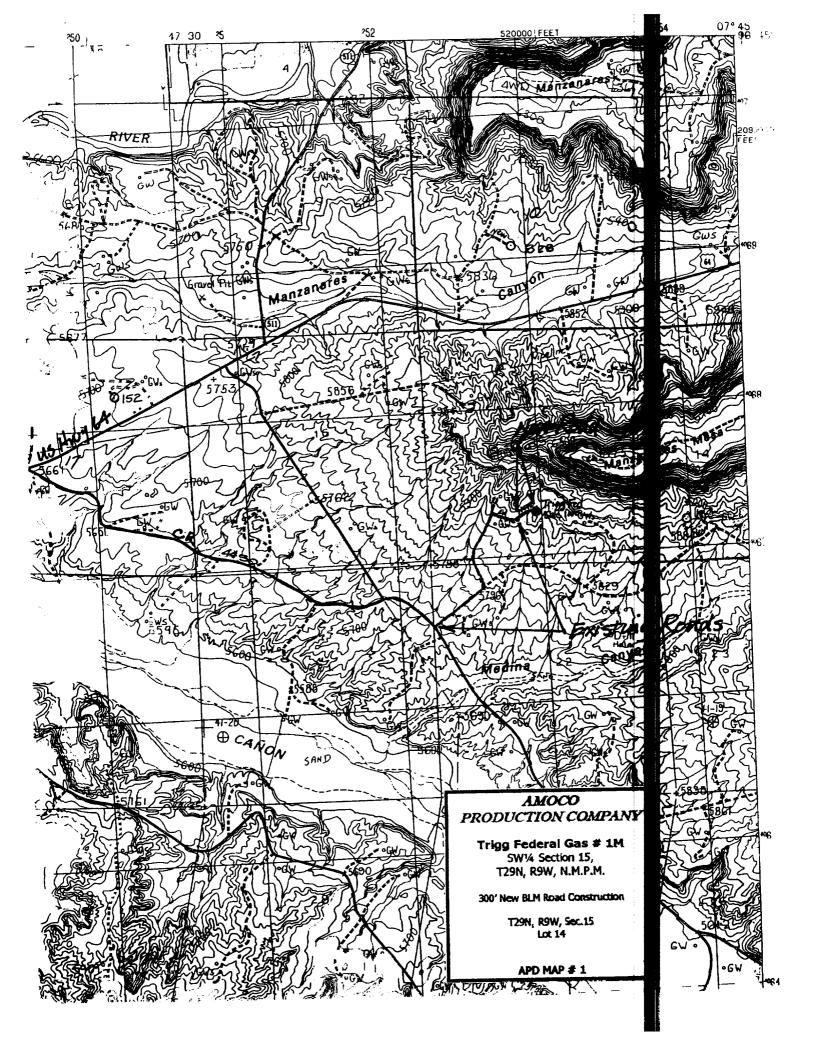
Lease - 4 Copies Lease - 3 Copies

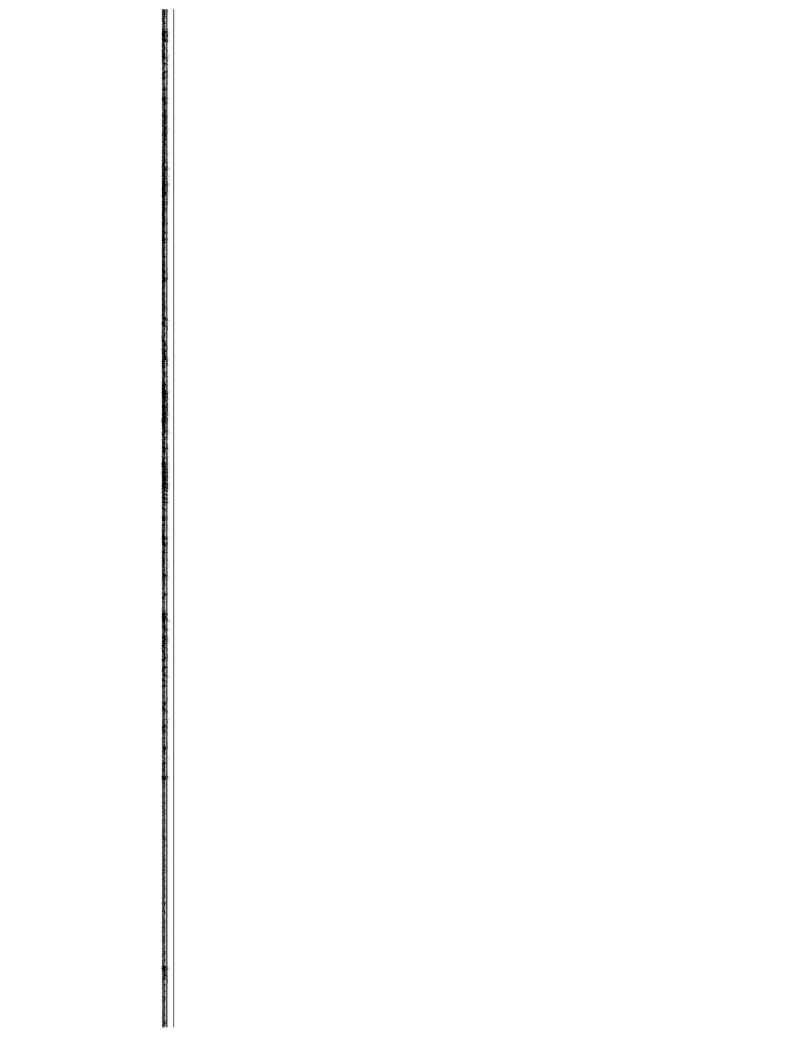
NDED REPORT

PO Box 2068, Santa Pe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT 1 Pool Code BASIN DAKOTA & BLANCO MESAVE 71599 & 72319 #1M Trigg Federal Gas 001172 Operator Name 7 OGRID No. 5940 AMOCO PRODUCTION COMPANY 000778 **Surface Location** Best/West lists North/South line Fact from the Reet from the Lot Ide UL or Lot No. SAN JUAN WEST 2420 SOUTH 1140 9 W 29 N 15 N (Lot 14) "Bottom Hole Location If Different From Surface East/West time County Feet from the North/South Hos Range Lot Ma Township Section 1 UL or lot no. Consolidation Code Joint or Infill Dedicated Acres NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN 303.67 OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION TIFICATION OPERATOR C I hereby certify that the butture and complete to the be etion contained herein is my knowledge and belief. Let 1 Lat 3 Let 4 REGULA RY ANALYST Lot 6 Lot 5 04-02-2001 RTIFICATION "SURVEYOR I hereby certify that the mas plotted from field and octual surveys made by me that the same is true and or under my supervision, correct to the best of a 2001 January Lot 9 Lot 10 Lot 12 Lot 11 Date of Survey 2420 /A Lot 16 Let 15 Lot 14 Lot 13 7016

(R) - BLM Record







AMOCO PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Trigg Federal Gas Com B
Lease: TRIGG FEDERAL GAS COM

Well No: 1M

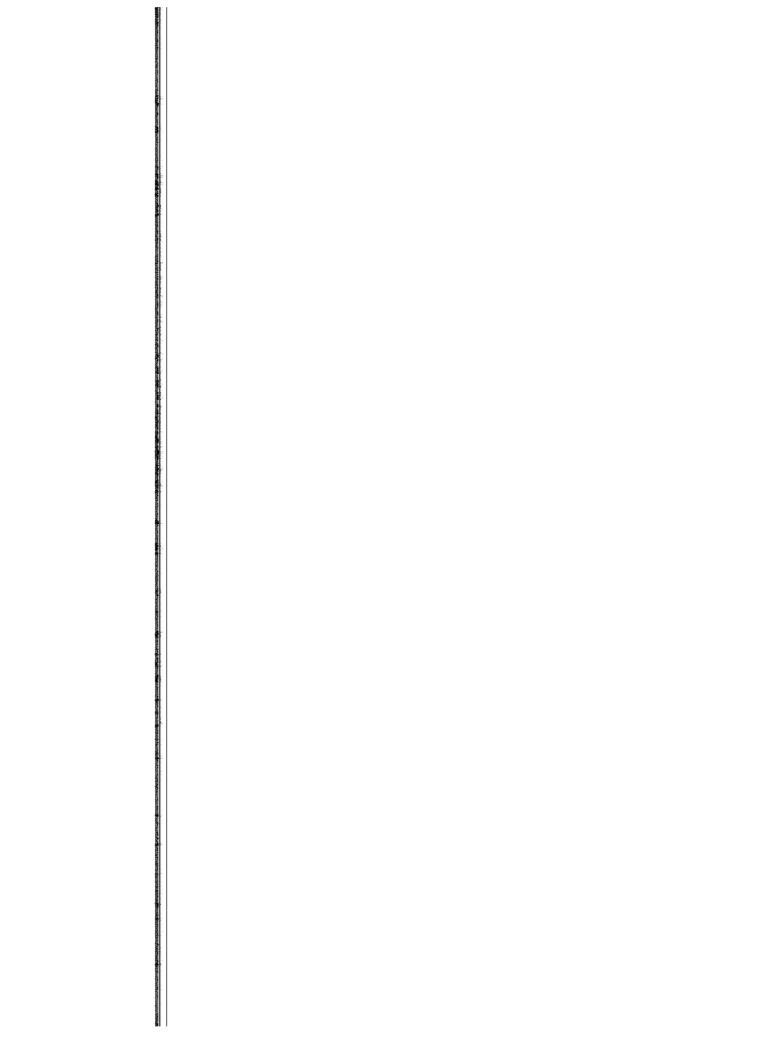
Surface Location: 15-29N-9W, 1140 FSL,242

County: San Juan

State: New Mexico

Field: Blanco Mesaverde/Basin D

	lew Mexico								
Date: _A	pril 2, 2001			- D-1-4- C	invitate I S. C	L ME DI an	d DK inte	k	
OBJECTIVE: Drill 400'			m Limestone, set 4" Lin	er across Dakota, St	mulate LS, C	OF CE		L MAF	OKED
ME	THOD OF DR	ILLING		APPROXIMA*					954
TYPE OF TOOLS	DEF	TH OF C	RILLING	Estimated G	L: 5940		tima te		. DEPTH
Rotary	0 -]	TD		MARKER		SUBS	45188	MEAS	1366
	LOG PROGR	AM		Ojo Alamo	١.		450€ 3 7 0€		2249
TYPE	DEP	TH INVER	RAL	Fruitland Coal			3 48 0		2475
OPEN HOLE				Pictured Cliffs	#	1	3 42 1	Ē	2534
GR-Induction		to 5 1/2" sh		Lewis Shale	#	1	1798		4157
Density/Neutron		to 5 1/2" she		Cliff House Menefee Shale	"#	l	1691		4257
Sonic	TD	to 5 ½" sh	oe .	Point Lookout	"#	1	1245		4709
CASED HOLE	TOT	- DOTO 7	7 E 10" choo	Mancos			111		4837
GR-CCL-TDT		- PB1D-7	′ 5/8″ shoe TD_0'	Greenhom			-73		6689
001	Ur-	of 4" - 50'	above 7 5/8 "shoe	Bentonite Mark	er		-79		6744
CBL	100	014 00	above i bie site	Two Wells	#	ì	-8 5		6804
REMARKS: - Please report any flai	oc (magnitude 8	duration)		Dakota MB	#		-96		6914
- Please report any nai	es (magnitaco o		•	Burro Canyon	•		-113		7089
				Morrison	*		-118		7139
				TOTAL DEPTH			-119		7144_
				# Probable con	npletion into	erval	* Possi	Pay	
	SPECIAL TE	CTC		DRILL CUTT	ING SAM	PLES	DR	LING 1	
	SPECIAL TE	313		FREQUENCY			REQU		DEPTH
TYPE				10 feet	Producti	on hole G	ieolo gra		0-TD
None									
REMARKS:					. <u> </u>				
MUD PROGRAM:								L	
Approx. Interval	i T	ype Mud		I │ Vis, sec/qt	W/L cc	s/30 min	Oth	Specif	Cation
0 - 120-13		pud	8.6-9.2						
120-135 - 2199	(1)(2) V	Vater/LSN	ID 8.6-9.2						
2199 - 6744		as/Air/Mi		cient to maintain	a stable a	and clean v	wellbon		
6744 7144		SND	8.6-9.2					!	
							_	l	
محمد الأدر والرباء العرادي	uiro eweens to	keen uni	oaded while fresh	water drilling. L	et hole co	nditions di	ctate fr	uency.	
(a) T -	I Cool to minin	NIZO INCT C	urcinanni an vulu	ilie io ilianiwa:	,,0,0 0,00.	,			
CASING PROGRAM	: (Normally tubus	lar monds all	ocation letter specifies o	asing sizes to be us	ed. Hole size	s will be gove	med by	tract)	
CASING PROGRAM	Estimate	iai goods aii A	Casing Size	Grade	Weight	Hole Size	e La	ing Pt	Cmt, Etc.
Casing String		u	Ousing Oile						
	Depth	120-135	10 3/4"	J-55 ST&C	40.5#	14.7	5" 1		
Surface/Conductor				K-55 LT&C	26.4#	9.87	5" 1.2		
Intermediate 1	}	2199 6744		K-55 LT&C	15.5#	6.7	5" 4	_	
Intermediate 2		7144		K-55 H 511	11#	4.7	5" 3		
Production (liner)		/ 144	L	11.0011011					
REMARKS:						hove 7 5/8	?" chae		
(1) Circulate Cemer				(4) Bring com	IPNT ZUU 2				
(1) Chodiate Come	nt to Surface			(4) Bring cem	ient 200 a	DOVE 7 S/C	31100	Giouse D	
(2) Set casing 50' a	bove Fruitland	Coal		(4) Bring cem	ent 200 a	DOVE 7 SIC	Silve	Ribarou D. Invidadal	
(2) Set casing 50' a (3) Liner Lap should	bove Fruitland be a minimur	Coal n of 100'		(4) Bring cem	ent 200 a		5 51100	The state of the s	
(2) Set casing 50' a	bove Fruitland be a minimur	Coal n of 100'		(4) Bring cem			5 51100	Michael Marchael	
(2) Set casing 50' a (3) Liner Lap should CORING PROGRA None	bove Fruitland d be a minimur M:	Coal n of 100'		(4) Bring cem			31100	Raman Davidson and Control of Control	
(2) Set casing 50' a (3) Liner Lap should CORING PROGRA None COMPLETION PRO	bove Fruitland be a minimur M: OGRAM:	n of 100'		(4) Bring cem	ent 200 a			Range Danisland Theodore David Res 11 (Davids	
(2) Set casing 50' a (3) Liner Lap should CORING PROGRA None COMPLETION PRO Rigless, 4-6 Stage I	bove Fruitland be a minimur M: OGRAM: Limited Entry H	n of 100'	Frac	(4) Bring cem	ent 200 a		3100	The American Transformation of the Control of the C	
(2) Set casing 50' a (3) Liner Lap should CORING PROGRA None COMPLETION PRO Rigless, 4-6 Stage	bove Fruitland be a minimur G: GRAM: Limited Entry H	n of 100'				DOVE 7 3/C		The second secon	
(2) Set casing 50' a (3) Liner Lap should CORING PROGRA None COMPLETION PRO Rigless, 4-6 Stage	bove Fruitland be a minimur G: GRAM: Limited Entry H	n of 100'	BOP testing, and	Casing and Ce	menting.		3100	The second secon	
(2) Set casing 50' a (3) Liner Lap should CORING PROGRA None COMPLETION PRO Rigless, 4-6 Stage I GENERAL REMAR Notify BLM/NMOCE	bove Fruitland be a minimur M: OGRAM: Limited Entry H KS: O24 hours prior	n of 100' lydraulic I	, BOP testing, and Log	Casing and Ce	menting.			Company of Control of	
(2) Set casing 50' a (3) Liner Lap should CORING PROGRA None COMPLETION PRO Rigless, 4-6 Stage I GENERAL REMAR Notify BLM/NMOCE Form 46 Reviewed	bove Fruitland be a minimur M: OGRAM: Limited Entry H KS: O24 hours prior	n of 100' lydraulic I	BOP testing, and	Casing and Ce	menting.			Complete to the control of the contr	
(2) Set casing 50' a (3) Liner Lap should CORING PROGRA None COMPLETION PRO Rigless, 4-6 Stage I GENERAL REMAR Notify BLM/NMOCE	bove Fruitland be a minimur M: OGRAM: Limited Entry H KS: O24 hours prior	n of 100' lydraulic I	, BOP testing, and Log	Casing and Ceging program reDATE:	menting. viewed by			Committee of the Commit	
(2) Set casing 50' a (3) Liner Lap should CORING PROGRA None COMPLETION PRO Rigless, 4-6 Stage I GENERAL REMAR Notify BLM/NMOCE Form 46 Reviewed	bove Fruitland be a minimur M: OGRAM: Limited Entry H KS: O24 hours prior	n of 100' lydraulic I	, BOP testing, and Log	Casing and Ce	menting. viewed by			Company of the Compan	



Cementing Program: TRIGG FEDERAL GAS COM B # 1M

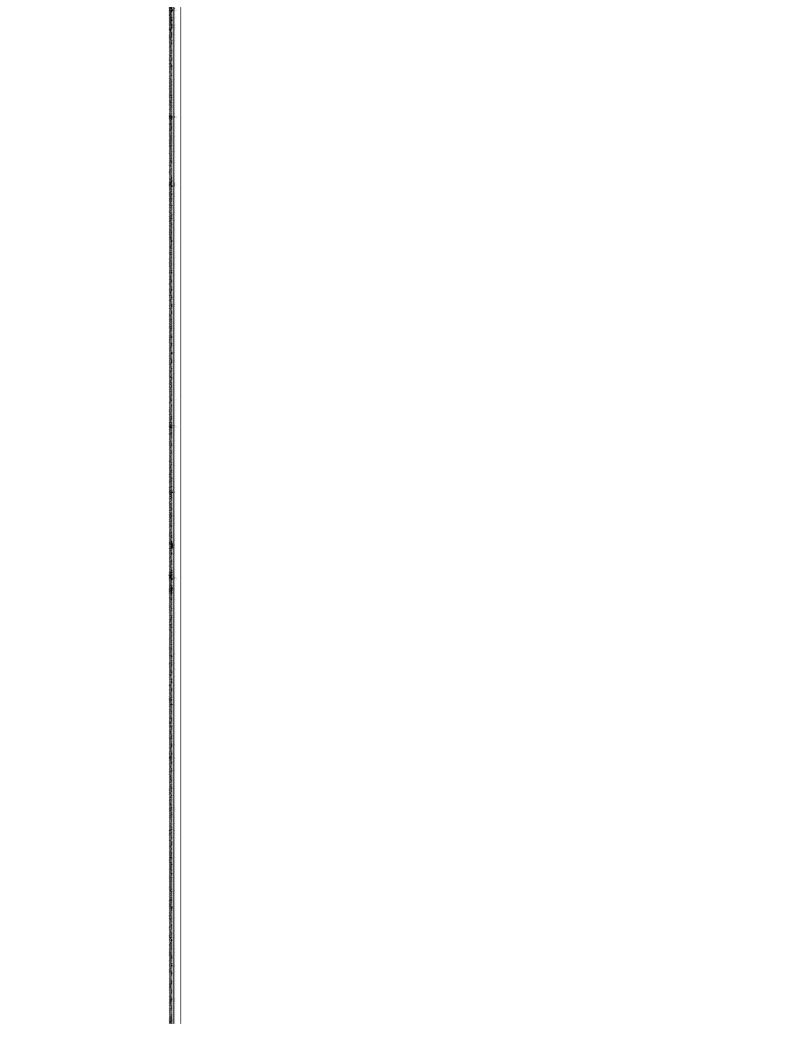
				
	Surface	Intermediate	12	Liner
Excess %, Bit	100%	80	50	10
Excess %, Caliper	NA	NA	NA	30
BHST (est deg. F)	60	120	150	160
Pipe Movement	NA NA	Rotate/Reciprocate	Rotate/Reciprocate	as per Liner C
	7	4	4	2
Rate, Max (bpm)	6	4	3	2
Rate Recommended (bpm)	200	2000	2000	2000
Pressure, Max (psi)	40	80	80	40
Shoe Joint	· ·	NA	NA NA	NA
Batch Mix	NA 0.5	1.5	2.5	2
Circulating prior cmtng (hr)	0.5	NA	NA	NA.
Time Between Stages, (hr)	NA			2,3,4,6
Special Instructions	1,6,7	1,6,8	1,6,9	2,0, 1 ,0

- 1. Do not wash pumps and lines.
- 2. Wash pumps and lines.
- 3. Reverse out
- 4. Run Blend Test on Cement
- 5. Record Rate, Pressure, and Density on 3.5" disk
- 6. Confirm densitometer with pressurized mud scales
- 7. 1" cement to surface if cement is not circulated.
- 8. If cement is not circulated to surface, run temp. survey 10-12 hr. after landing plug.

Notes:

- *Do not wash up on top of plug. Wash lines before displacing liner cement job to minimize drillout.
- ** After cement set time the liner top will be drilled out and liner circulated clean with treated water.
 *** Run TMD cased hole logs to identify pay; Perforating and CH logs can be run rigless.

Surface:	ush	20 bbl.	FreshWater		
, , ,					cuft
Slum	y 1	120sx Class (G Cement		Call
TOC	@Surface	+ 2% CaC	Cl2 (accelerator)		e.
	•	0.25 #/sk	Cellophane Flake (k	ost circulation additive)	9.5 cuft/ft OH
		0.1% D46			% excess
Slurry Properties:	De	ensity	Yield	Water	
Giarry i Toperaes.		/gal)	(ft3/sk)	(gal/sk)	
Slurr	•	15.8	1.16	4.95	walnest or the
Casing Equipment:	10	-3/4", 8R, ST&C			
	10	Guide Shoe			
	1	Top Wooden Plug			
	1 /	Autofill insert float valve	1		
	4 (Centralizers			
	1 :	Stop Ring			
	1.	Thread Lock Compound	d		



Cementing Program: TRIGG FEDERAL GAS COM B # 1M

ntermediate:								
	Fresh Water		20 bbl	fresh water		200		
	Lead		2	20sx Class "G" Cem		638 cuft		
	Slurry 1			+ 3% D79 extend				
	TOC@Surface			+ 2% S1 Calcium				
				+1/4 #/sk. Cellopt				
				+ 0.1% D46 antifo				
	Tail		1	52sx 50/50 Class "C	G"/Poz	193 c uft		
	Slurry 2			+ 2% gel (extende	er)			
	•	500ft fill		0.1% D46 antifoa	m	0.2148 cuft/		
				+1/4 #/sk. Cellopi	hane Flake	0.2338 cu it/lang ann		
				+ 2% CaCl2 (acc	elerator)	80 % ex 3 % s		
Slurry Properties:		Density		Yield	Water			
Siulty Froperties.		(lb/gal)		(ft3/sk)	(gal/sk)			
Slurry 1		11.4		2.9	17.77			
Slurry 2		13.5		1.27	5.72			
Casing Equipment:		7-5/8", 8R, ST&C	;					
Casing Equipment.		1 Float Shoe (autofill with minimal LCM in mud)						
		1 Float Collar (autofill with minimal LCM in mud)						
		1 Stop Ring						
			ne in midd	le of first joint, then e	every third collar)			
				zers @ base of Ojo				
		8 Centalizers one	every 4th	joint from Ojo to ba	se of surface casing			
		1 Top Rubber Pla		•				
		1 Thread Lock C	-					

nt 2:						Winds.
	Fresh Water		10 bbl	CW100		000 4
	Lead		4	31 LiteCrete D961 / D		923 cuft
	Slurry 1			+ 0.03 gps D47 an	tifoam	
	TOC@Surface			+ 0.5% D112 fluid	loss	
	_			+ 0.11% D65 TIC		
	Tail			80sx 50/50 Class "G"	"/Poz	115 cuff
	Slurry 2			+ 5% D20 gel (exte	ender)	+ 5 #/sk D24 g
	 , -	500ft fill		+ 0.1% D46 antifoa	am	+ 0.15% D6 5 T
		-		+ 1/4 #/sk. Celloph	ane Flake	+ 0.1% D800) n der
				+ 0.25% D167 Flu	id Loss	
						0.1521 cuf DH
Slumy Properties:		Density		Yield	Water	50 % (3) ss
Siurry Froperties.		(lb/gal)		(ft3/sk)	(gal/sk)	0.0999 cultures ann
Slurry 1		9.5		2.14	6.38	
Slurry 2		13		1.44	6.5	
Casing Equipment:		5-1/2", 8R, ST	&C			
Casing Equipment				ninimal LCM in mud)		
				minimal LCM in mud)		
		1 Stop Ring				
		35 Centralizers	(every third	joint		
		1 Top Rubber I				
		1 Thread Lock	_			

Cementing Program: TRIGG FEDERAL GAS COM B # 1M

Production (liner): CW100 / LCM wash 10 bbl. Preflush 34 2350/50 Poz/G Lead Cement 0.1% D46 antifoam 5% D20 bentonite Slurry 1 0.25#/sk D29 cellophane 100ft lap 0.0358 nt OH 0.25% D167 Fluid loss 100ft cap 0.0464 ft csg ann 0.15% D65 TIC 0.1336 fft csg 0.15% D800 retarder 101 Water Density Slurry Properties: (ft3/sk) (gal/sk) (lb/gal) 6.5 1.44 Slurry 1 Float Shoe and Float Collar (furnished by Liner Hanger Company) Liner Float Equipment: 1 Thread Lock Compound Note: 1. Coordinate w/Liner hand to drop plug, or set/release Liner as required 2. The job should be pumped at 2-3 bpm max rate. Do not exceed 3 bpm on displacement 3. Wash pump and lines before displacement. Slow to 1 bpm for the last 30 bbl of displacement. 4. This is to be a rigless completion. After cement set time, liner top will be dressed off an liner circulated clean with 2 % KCl or 2 gal/1000 gal L64.

FEDERAL CEMENTING REQUIREMENTS

- 1. All permeable zones containing fresh water and other usable water containing 10.20 PPM or less total dissolved solids will be isolated and protected from contamination between circulated in place for the protection of permeable zones per the NTL-FRA 90-1 Section III A.
- 2. The hole size will be no smaller than 1 ½" larger diameter than the casing O.D. and oss all water zones.
- 3. An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement.
- 4. An adequate number of casing centralizers will be run through usable water the ensure that the casing is centralized through these zones. The adequate number of centralizers to use will be determined by API SPEC 10D.
- 5. Centralizers will impart a swirling action around the casing and will be used just be by and into the base of the lowest usable water zone.
- 6. A chronological log will be kept recording the pump and slurry information and will be sent to the BLM with the subsequent sundry.

Amoco Production Company BOP Pressure Testing Requirements

Well Name: TRIGG FEDERAL GAS COM B 1M

County: San Juan State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipat Surface Pressure
Ojo Alamo	1366		
Fruitland Coal	2249		
PC	2475		
Lewis Shale	2534		
Cliff House	4157	500	
Menefee Shale	4257		
Point Lookout	4709	600	
Mancos	4837		
Dakota	6804	2600	1:

** Note: Determined using the following formula: ABHP - (.22 * TVD) = ASP

Requested BOP Pressure Test Exception: 3000 PSI

SAN JUAN BASIN Dakota Formation Pressure Control Equipment

Background

Equipment Specification

Interval BOP Equipment

Below conductor casing to total depth 11" nominal or 7 1/16",3000 PSI double ram preventer with rotating

head.

All ram type preventers and related control equipment will be hydraulically tested to 250 SI (low pressure) and 2000 PSI (high pressure), upon installation, following any repairs or expense replacements, or at 30 day intervals. Accessories to BOP equipment will include keep cock, upper kelly cock with a handle available, floor safety valves and choke manifold which all also be tested to equivalent pressure.

