APPLICATION FOR PERMIT TO DRILL OR DEEPEN  IN 1998 IN STATE STATE OF THE PERMIT TO DRILL OR DEEPEN  IN 1998 IN STATE STA	(December 1	Form 3160-3 (December 1990)  UNITED STATES DEPARTMENT OF THE INTERIOR						Form approved.  Budget Bureau No.1004-0136  Expires: December 31, 1991  5. LEASE DESIGNATION AND SERIAL NO.  SF-078209-B				
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DEPEN DESCRIPTION OF MALE STATE OF PROCESSOR TOWN OF PROPERTY OF A STATE OF STATE OF A STATE OF STATE OF A STA	14 TYPE OF V	WORK	AFFLIGATION	UN FUN PENI	/111 1	O DRILL OR DEEREN (112 )	<del></del>	<u>•</u> •				
2. NAME OF DEPERATOR AMOCO PRODUCTION COMPANY 3. ADDRESS ADDITION TOWN TOWN TOWN TOWN TOWN TOWN TOWN TO	/ K. TYPE OF Y	WELL DR	AS CSZI		EEPE	SINGLE OF A						
AMOCO PRODUCTION COMPANY  3. ADDRESS AND TELEPROPHICAL PROPERTY OF THE PROPERT	/ /						ZUNE .		·			
5. ADERES NOTELEPINOENO P.O. BOX 3092 HOUSTON, TX 77253  **A LOCATION OF WELL (Report location clearly and in accordance with any State requirement)  **A LOCATION OF WELL (Report location clearly and in accordance with any State requirement)  **A LOCATION OF WELL (Report location clearly and in accordance with any State requirement)  **A LOCATION OF WELL (Report location clearly and in accordance with any State requirement)  **A LOCATION OF WELL (Report location clearly and in accordance with any State requirement)  **A LOCATION OF WELL (Report location clearly and in accordance with any State requirement)  **A LOCATION OF WELL (Report location clearly and in accordance with any State requirement)  **A LOCATION OF WELL (Report location clearly and in accordance with any State requirement)  **A LOCATION OF WELL (Report location clearly and in accordance with any State requirement)  **A LOCATION OF WELL (Report location clearly and in accordance with any State requirement)  **A LOCATION OF WELL (Report location clearly and in accordance with any State requirement)  **A LOCATION OF WELL (Report location clearly and location clea	/		ON COMPAN	IY		Mary Corley		9. API WELL N	0.			
At surface  2180° FNL  790° FEL  790	3. ADDRE	SS AND TELEPHON	NE NO.					<del> </del>	)-045-3	50330		
As surface 2180° FNL 790° FEL UNITH (Lot 1) SEP 2000  14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OPENING  2 Miles from (McGee Park) Farmingtag , NM CT 12. COUNTY OR PARISH 13. STATE 13. STATE 13. STATE 14. S				•		<b>アベココル</b> ショコでや	366-4491	10. FIELD AND	POOL, OR WILDO	CAT		
At progosed prod. time    Vinit H (Lot 1)   SEP 2000   Requirement   Se		ace			with any	State requirements!*)	a service of the serv			Coal —		
14 DISTANCE IN MILES AND DIRECTION FROM MEASEST TOWN OR PROFISCH   12 COUNTY OR PARISH   13 STATE   2 Miles from (McGee Park) Farmington, NM C   15 NO. OF ACRES MILASE   10. NO. OF ACRES ASSIGNED   10 NO. OF	,	2180'	FNL	790' FEL		SEP 300		AND SURVEY	OR AREA			
2 Miles from (McGee Park) Farminging , NM C.  15. DISTANCE FROM PROPOSED.  16. NO. OF ACRES NILESE  17. NO. OF ACRES ACRES  18. ROTARY OR CABLE TOOLS  19. OS - 2000  19. OS -	At propos	sed prod. zone		Ur	nit H (L	ot 1) [CO PEC 5000	٠ : : پي	M t		12W		
DISTANCE FROM PROPOSED   DECEMBER 1   DECEMBER 1   DECEMBER 2   DECEMBER 2   DECEMBER 2   DECEMBER 2   DECEMBER 2   DECEMBER 3   DECE	14. DISTAN	ICE IN MILES AND						12. COUNTY O	R PARISH 13.	STATE		
LOCATION TO REMERT IN THIS WELL  LOCATION TO PERSENT BY  AND CONTROL TO PERSENT BY  BE CONTROL TO PERSON TO PERSENT BY  BE CONTROL TO PERSON TO PERSON BY  BE CONTROL TO P	16 DISTAL	NCC CDOM BRODOS		es from (McGee	Park) l		117 NO 6			New Mexico		
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TO MARKET WILL DELIANG, COMPLETED.  21. ELECYATIONS (Since whether EP. RT. GR., etc.)  22. APPROX. DATE WORK WILL START?  23. ELECYATIONS (Since whether EP. RT. GR., etc.)  24. APPROX. DATE WORK WILL START?  25. DELECYATIONS (Since whether EP. RT. GR., etc.)  26. APPROX. DATE WORK WILL START?  27. APPROX. DATE WORK WILL START?  28. APPROX. DATE WORK WILL START?  29. OB-05-2000  09-05-200	(Also to	o nearest drlg, unit lin	c, if any)	·			20 ROTA	RY OR CARLE TO		<u>L1.03</u>		
22. APPROX. DATE WORK WILL START THIS EXCRED IS SUBJECT to 1998TH/SCHARGE START TO 90-05-2000  22. APPROX. DATE WORK WILL START TO 90-05-2000  22. APPROX. DATE WORK WILL START O9-05-2000  23. COUNTY OF CREWNT OCHIEFTY OF CHEMPT OF CHEMPTY OF CREWNT OF CHEMPTY OF CHEMPT OF CHEMPTY OF CHEMPTY OF CHEMPT OF CHEMPTY OF CHEMPTY OF CHEMPT OF CHEMPTY OF CHEMP						The state of the s		ar or chiber for	JES			
PRINCIPLE PROPOSED PROSED PROSED PROSED PROSED ASING AND CEMENTING PROGRAM  SIZE OF HOLE GRADE OF CASHIC MICHIEF PROFOSE  8 3/4" J-55 ST&C 7 23# 135" SSX (113 CU.FT.) CLS B CIRC TO SURFACE 15.6 1.19 5.25 100%  6 1/4" J-55 ST&C 7 23# 135" SSX (113 CU.FT.) CLS B CIRC TO SURFACE 15.6 1.19 5.25 100%  6 1/4" J-55 ST&C 7 10.5 1467" (44 SXS (97 CU.FT.) CLS B - TAIL 11.4 1.19 5.25 70%  NOTICE OF STAKING SUBMITTED 7/12/2000  OBJECTIVE: Drill 150" into the Pictured Cliffs, set 4 1/2" Casing to TD, perf & stimulate the Fruitland Coal  METHOD OF DRILLING: Rotary/Top Drive DEPTH OF DRILLING: 0'-TD  LOG PROGRAM: INTERVAL TYPE MUD WEIGHT, #/GAL  0'-135" (3 JTS) Spud 8.6 - 9.2  135" - 1467 Water/LSND 8.6 - 9.2  135" - 1467 Water/LSND 8.6 - 9.2  IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.  NASIONED APPROVAL IS AND SEP 1 2000  PRIMITION PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone in the proposal is to drift to the proposal is to deep the underly proposed new productive zone and proposed new productive zone. If proposal is to drift to the proposal is to deep the underly proposal is to deep the proposal is to deep the underly proposal is to deep the proposal is to deep the underly proposal is to deep the proposal is to deep the underly proposal is to deep the underly proposal is to deep the underl	21. ELEV	ATIONS (Show wheth	er DF, RT, GR., etc.	) i sonet	_			22. APPROX. DATE WORK WILL START*				
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8 3/4" J-55 ST&C 7" 23# 135' 95 SXS (113 CU FT.) CLS B CIRC TO SURFACE 15.6 1.19 5.25 100% 6 1/4" -55 ST&C 4 1/2 10.5 1467' 44 SXS (230 CU FT.) CLS B - LEAD 2.88 16.6 6 1/4" -55 ST&C 4 1/2 10.5 1467' 44 SXS (230 CU FT.) CLS B - TAIL 11.4 1.19 5.25 70%  NOTICE OF STAKING SUBMITTED 7/12/2000  OBJECTIVE: Drill 150' into the Pictured Cliffs, set 4 1/2" Casing to TD, perf & stimulate the Fruitland Coal  METHOD OF DRILLING: Rotary/Top Drive DEPTH OF DRILLING: 0' - TD  LOG PROGRAM TYPE: Cased Hole (GR-CCL-TDT) DEPTH INTERVAL: TDT - PBTD - 0 GR & CCL - PBTD to 0'  MUD PROGRAM: INTERVAL TYPE MUD WEIGHT, #/GAL 0' - 135' (3 JTS) Spud 8.6 - 9.2 135' - 1467 Water/LSND 8.6 - 9.2  (1) Circulate Cement to Surface (2) Set Casing 150' below top of Pictured Cliffs  COMPLETION: Rigless, Single Stage Hydraulic Frac  IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.  24.  SIGNED AND BETT OF State of Federal or State office use)  PERMIT NO.  APPROVAL DATE  COROTTORS OF PROPOSED PROGRAM: If proposal is to advantage and continuous and continuou	and app	ocal pursuani	to 43 CFR 5	166.4, PROPO	SED	CASING AND CEMENTING PRO	OGRAM					
SURFACE  SURFACE  SURFACE  110.5XS (230 CULT.) CLS B - LEAD  110.5XS (230 CULT.) CLS B - TAIL  11.19  S.25  70%  NOTICE OF STAKING SUBMITTED 7/12/2000  OBJECTIVE: Drill 150' into the Pictured Cliffs, set 4 1/2" Casing to TD, perf & stimulate the Fruitland Coal  METHOD OF DRILLING: Rotary/Top Drive  DEPTH OF DRILLING: 0' - TD  LOG PROGRAM TYPE: Cased Hole (GR-CCL-TDT)  DEPTH INTERVAL: TOT - PBTD - 0 GR & CCL - PBTD to 0'  MUD PROGRAM: INTERVAL  0' - 135' (3 JTS)  Spud  8.6 - 9.2  135' - 1467  Water/LSND  8.6 - 9.2  (1) Circulate Cement to Surface  (2) Set Casing 150' below top of Pictured Cliffs  COMPLETION: Rigless, Single Stage Hydraulic Frac  IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.  TITLE Sr. RegulatoryAnalyst  DATE  08-08-2000  SEP 1 2000	SIZE OF HOLE	GRADE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT	DENSITY (fb/gal)	YIELD (fl3/sk)	WATER (gal/sk)	EXCESS %		
NOTICE OF STAKING SUBMITTED 7/12/2000  OBJECTIVE: Drill 150' into the Pictured Cliffs, set 4 1/2" Casing to TD, perf & stimulate the Fruitland Coal  METHOD OF DRILLING: Rotary/Top Drive DEPTH OF DRILLING: 0' - TD  LOG PROGRAM TYPE: Cased Hole (GR-CCL-TDT) DEPTH INTERVAL: TDT - PBTD - 0 GR & CCL - PBTD to 0'  MUD PROGRAM: INTERVAL TYPE MUD WEIGHT, #/GAL  0' - 135' (3 JTS) Spud 8.6 - 9.2  135' - 1467 Water/LSND 8.6 - 9.2  (1) Circulate Cement to Surface (2) Set Casing 150' below top of Pictured Cliffs  COMPLETION: Rigless, Single Stage Hydraulic Frac  IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.  TITLE St. Regulatory/Analyst  DATE 08-08-2000  SEP I 2000	8 3/4"	J-55 ST&C 7"	23#	135'	95		15.6	1.19	5.25	100%		
NOTICE OF STAKING SUBMITTED 7/12/2000  OBJECTIVE: Drill 150' into the Pictured Cliffs, set 4 1/2" Casing to TD, perf & stimulate the Fruitland Coal  METHOD OF DRILLING: Rotary/Top Drive DEPTH OF DRILLING: 0' - TD  LOG PROGRAM TYPE: Cased Hole (GR-CCL-TDT) DEPTH INTERVAL: TDT - PBTD - 0 GR & CCL - PBTD to 0'  MUD PROGRAM: INTERVAL TYPE MUD WEIGHT, #/GAL  0' - 135' (3 JTS) Spud 8.6 - 9.2  135' - 1467 Water/LSND 8.6 - 9.2  (1) Circulate Cement to Surface (2) Set Casing 150' below top of Pictured Cliffs  COMPLETION: Rigless, Single Stage Hydraulic Frac  IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.  24.  SIGNED ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.  24.  SIGNED ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.  24.  SIGNED ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to depth under the proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.  25. SEP 1 2000	6 1/4"	-55 ST&C 4 1/2	10.5	1467'	1	• •	11.4			70%		
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LOG PROGRAM TYPE: Cased Hole (GR-CCL-TDT)  MUD PROGRAM: INTERVAL  0' - 135' (3 JTS)  5pud  8.6 - 9.2  135' - 1467  Water/LSND  8.6 - 9.2  (1) Circulate Cement to Surface  (2) Set Casing 150' below top of Pictured Cliffs  COMPLETION: Rigless, Single Stage Hydraulic Frac  IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.  TITLE Sr.RegulatoryAnalyst  DATE  08-08-2000  PERMIT NO.  Approval DATE  Approval data on custom to criff, that the opticant habit legal to explicit his to these rights in the subject has under under to criff that the opticant habit legal to explicate his under which would write the opticant to conduct specifiem between CONDITIONS OF APPROVAL, IF ANY:  SEPT. 1 2000	OBJECTIVE	: Drill 150' into	the Pictured C	liffs, set 4 1/2" C	asing	to TD, perf & stimulate the Fruitla	and Coal					
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(1) Circulate Cement to Surface (2) Set Casing 150' below top of Pictured Cliffs  COMPLETION: Rigless, Single Stage Hydraulic Frac  IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.  24.  SIGNED  TITLE Sr.RegulatoryAnalyst  DATE  08-08-2000  PERMIT NO.  Approval DATE  Approval DATE  Approval DATE  Approval DATE  Approval DATE  SEP 1 2000			0' - 135' (3 .	JTS)	Spuc	1	8.6 - 9.2					
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TITLE Sr. Regulatory Analyst  DATE  O8-08-2000  (This space for Federal or State office use)  PERMIT NO.  Approval DATE  Application approved does not warrant or cartify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations: thereon.  CONDITIONS OF APPROVAL, IF ANY:  SEP 1 2000												
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PERMIT NO		May	Loiley	·		TITLE Sr.RegulatoryAnalyst		DATE	08-08-	2000		
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SEP 1 2000	Applicatio			logal er aquitable title te these rigi	its in the sub	ject losse which would antitle the applicant to conduct operations the	reen.					
				2012 6		Petroleun	Eng	nate	SEP 1	1 2000		

District 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

Energy, Minerals & Natural Resources Department

State of New Mexico

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

PO Box 2088, Sar	nta Fe, NM 8	37504-2088							X AM	ENDED REPORT	
		WEI	LL LO	CATION	AND ACRI	EAGE DEDIC	ATION PL	AT			
	API Number	-		<sup>1</sup> Pool Code			3 Pool	Name			
30-045-30330 710				7/62	629 BASIN FRUITLAND COAL						
Property	Code	_			<sup>5</sup> Property	Name			4 Well Number		
0005	70	G	allego	s Canyo	Canyon Unit					# 569	
7 OGRID	No.				<sup>4</sup> Operator Name					<sup>9</sup> Elevation	
0007	78	A	MOC	OCO PRODUCTION COMPANY						5396	
					<sup>10</sup> Surface L	ocation					
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County		
H (Lot 1)	33	29 N	12 W		2180	NORTH	790	EA	ST	SAN JUAN	
			" Bott	om Hole	Location If	Different From	n Surface				
<sup>1</sup> UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County	
3 John NO ALLO	/	WILL BE A		ED TO TH		ON UNTIL ALL I			EN CC	NSOLIDATED	
<u> </u>	2644					(R)					
16										TIFICATION	
										tion contained herein is my knowledge and belief.	
				1			- }	,			
	<del>.</del>	1 1 Trong				180' -				· lan	
		- 10 /S			·	7	Signature	ary c	<u> </u>	leg	
is Šv	95 V 95 V 75	= 200 <b>0</b>	(A)				Printed N	ame /	10	RLEY	
	(1) + (.h.)				Lot 2	Lot 1	Title	. 10 4 17.	<u> </u>	oky rmaiys	
	14 		. J			<b>⊚</b> <del>-</del> 79	Date	, , ,			

3 SURVEYOR CERTIFICATION I bereby certify that the well location shown on this plat was plotted from field notes of actual surveys meade by me or under my supervision, and that the same is true and

correct to the best of my belief. June 26, 2000 Date of Survey Signature and Scal of Professional S PROFESSIONAL 7016

Certificate Number

(R) - BLM Record

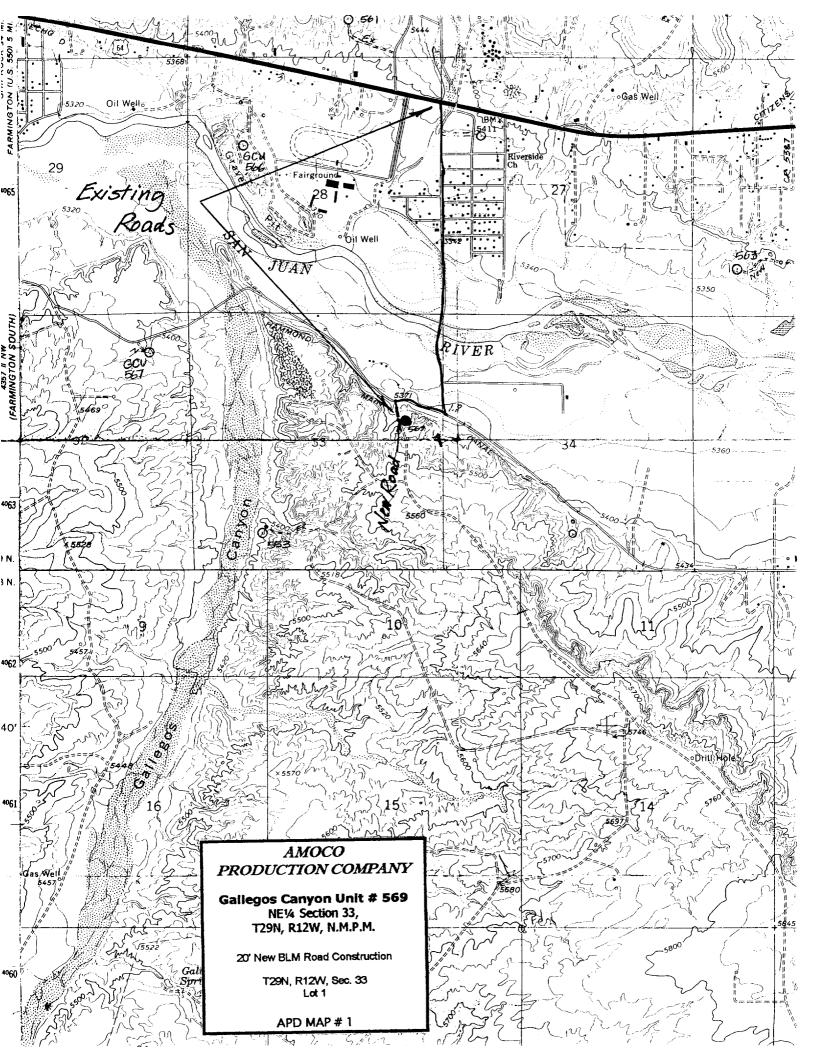
Lot 3

Lot 6

2615(R)

Lot 4

Lot 5



### Amoco Production Company BOP Pressure Testing Requirements

Well Name:

Gallegos Canyon Unit 569

County:

San Juan

State: New Mexico

Formation	מיר י	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	Surface		
Kirtland	167'		
Fruitiand Coal	96 <b>7</b> '	<b>.</b>	
Pictured Cliffs	1317'		
		, 	

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

Requested BOP Pressure Test Exception: 750 PSI

## SAN JUAN BASIN Fruitland Formation Pressure Control Equipment

### Background

The objective Fruitland Coal formation maximum surface pressure is anticipated to be less than 1000 PSI, based on shut-in surface pressures from adjacent wells. Prossure control equipment working pressure minimum requirements are therefore 2000 PSI. Equipment to be used will conform to API RP-53 (Figure 2.C.2) for a 2000 PSI system per Federal Onshore Order No. 2. Due to available conventional equipment within the area, 3000 PSI rated pressure control equipment will typically be utilized in a double ram type of against Regional drilling rights to be utilized have substructure height limitations which exclude the use of annular preventers; therefore a rotating head will be installed above these rams. This pressure control equipment will be utilized for conventional drilling below conductor to total depth. No abnormal temperature, pressure, or Hydrogen Sulfide gas is anticipated.

#### **Equipment Specification**

<u>Interval</u>

#### **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 PSI (low pressure) and 750 PSI (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include Kelly cock, upper Kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure at the appropriate intervals.

Form 3160-5 (December 1989)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED Budget Buregar No. 1004-0135 Expires: September 30, 1990

5. Lease Designation and Serial No.

SF - 078209-B
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SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill Use "APPLICATION FOR	or to deepen or reentry to a different reservot	
SUBMIT	N TRIPLICATE 070 FARMING	TON, The Unit or CA, Agreement Designation
I. Type of Well OIL WELL GAS WELL OTH	ER	8. Well Name and No.  Gallegos Canyon Unit 569
2. Name of Operator  Amoco Production Company  3. Address and Telephone No.	9. API Well No.  30-045-30330	
P.O. Box 3092 Houston, TX 77253	10. Field and Pool, or Exploratory Area  Basin Fruitland Coal	
4. Location of Well (Footage, Sec., T., R., M., or Survey		11. County or Parish, State  San Juan New Mexico
	(29N R12W Unit H (s) TO INDICATE NATURE OF NOTICE, F	
TYPE OF SUBMISSION	TYPE OF	
Notice of Intent	Abandonment	Change of Plans
<del></del>	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
Final Abandonment Notice	Casing Repair	☐ Water Shut-Off
	☐ Altering Casing  ☑ Other Spud & Set Casin	Conversion to Injection
		ultiple completion on Well Completion or
	Recompletion Report and rly state all pertinent details, and give pertinent dates, inc	Log form.)
low. Test Ok.  Drill out CMT. Drilled a 6 1/4" hole to	4 5 F	4 1/2" J-55 10.5# CSG @ 1474'.
- B	ct 人 CのTitle Permitting Assistant	ACCEBTED FOR RECOR
(This space for Federal or State office use)		
Approved byConditions of approval, if any:	Title	<del>D</del> EC 0 6 2000
Conditions of approval, it any.		FARMINGTON FIELD OFFICE
Title 18 U.S.C. Section 1001, makes it a crime for any por fraudulent statements or representations as to any ma	person knowingly and willfully to make to any departmenter within its jurisdiction.	nt or agency of the United States any false, fictitious