Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROV	ŀΤ	Ð
OMB No. 1004-0	11	36
Avnires November 3	m	208

BUREAU OF LAND N	1ANAGEMENT	5. Lease Serial No. NMSF - 078807-A	
APPLICATION FOR PERMIT	O DRILL OR REENTER	6. If Indian, Allottee or Tribe Name	
la, Type of Work: ☑ DRILL → ☐ REENTER		7. If Unit or CA Agreement, Name	and No.
lb. Type of Well: ☐ Oil Well 🛭 Gas Well 🔲 Oth	er 🛭 Single Zone 🔲 Multiple Zone	Lease Name and Well No. GALLEGOS CANYON UNIT 5	571
	MARY CORLEY E-Mail: corleyml@bp.com	9. API Well No. 30 -045 - 3	0703
3a. Address P.O. BOX 3092 HOUSTON, TX 77253	3b. Phone No. (include area code) Ph: 281.366.4491 Fx: 281.366.0700	10. Field and Pool, or Exploratory BASIN FRUITLAND COAL	•
4. Location of Well (Report location clearly and in accorda	nce with any State requirements.*)	11. Sec., T., R., M., or Blk. and Sur	vey or Area
At surface SWSE Lot G 1695FNL 141	5FEL 36.39900 N Lat, 108.11100 W Lon	(7 Sec 14 T28N R13W Mer N	IMP
At proposed prod. zone	22120		
14. Distance in miles and direction from nearest town or post of	office*	12. County or Parish SAN JUAN	13. State NM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in Lease 1235.40 AUG 2001	7. Spacing Unit dedicated to this w	vell
18. Distance from proposed location to nearest well, drilling,	19. Proposed Depth 3	BLM/BI Bond No. on file	

24. Attachments

. Approximate date 07/15/2001

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

21. Elevations (Show whether DF, KB, RT, GL, etc.

5678 GL

- Well plat certified by a registered surveyor.
 A Drilling Plan.
 A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and or plans as may be required by the

25. Signature	Name (Printed/Typed) MARY CORLEY	Date 06/15/2001
Title AUTHORIZED REPRESENTATIV	E	
Approved by (Signature) Man &	David J. Mankiewice	Date/ 8/15/6/
AEM miserals	Office	
Application approval does not warrant or certif	y the applicant holds legal or equitable title to those rights in the subject lea	se which would entitle the applicant to conduct

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

Additional Operator Remarks (see next page)

Electronic Submission #5005 verified by the BLM Well Information System
For AMOCO PRODUCTION COMPANY, sent to the Farmington
procedural review parameter to 45 CFR 3168 mitted to AFMSS for processing by Maurice Johnson on 06/18/2001 ()

and applied pursuant to 43 CFR 3165.4.

REPUBLIA ENTS" ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

CONTRACTED WITH ATTACHED

Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

R	JREAU OF LAND MANA	GEMENT			5. Lease Serial No.	
SUNDRY	NOTICES AND REPO	RTS ON WE	JAN 21 273		NMSF - 0788	07-A
Do not use thi abandoned wei	6. If Indian, Allotto	ee or Tribe Name				
SUBMIT IN TRI	PLICATE - Other instruc	ctions of rev	ers Ab de 2001		7. If Unit or CA/A	greement, Name and/or No.
1. Type of Well		133	Mary D	M Bi	8. Well Name and I	
🗖 Oil Well 🛛 Gas Well 🔲 Oth	er	li Si	OIL COXY, D	الإدار	GALLEGOS (CANYON UNIT 571
Name of Operator AMOCO PRODUCTION COM		MARY CORL E-Mail: corte	EY yml@bp.com	43/	9. API Well No.	5-30703
3a. Address P.O. BOX 3092 HOUSTON, TX 77253		3b. Phone No Ph: 281.36 Fx: 281.36			10. Field and Pool, BASIN FRUIT	or Exploratory FLAND COAL
4. Location of Well (Footage, Sec., T	, R., M., or Survey Description	1)			11. County or Paris	sh, and State
Sec 14 T28N R13W Mer SWS 36.39900 N Lat, 108.11100 W					SAN JUAN C	OUNTY, NM
12. CHECK APPR	ROPRIATE BOX(ES) TO	O INDICATE	NATURE OF 1	NOTICE, RE	EPORT, OR OTH	IER DATA
TYPE OF SUBMISSION			TYPE OF	F ACTION		
	☐ Acidize	□ Dee	nen	□ Producti	on (Start/Resume)	☐ Water Shut-Off
☑ Notice of Intent	☐ Alter Casing	_	ture Treat	☐ Reclama		☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	_	Construction	☐ Recomp	lete	■ APDCH
☐ Final Abandonment Notice	☐ Change Plans	— ☐ Plug	and Abanden	☐ Tempora	arily Abandon	
_	☐ Convert to Injection	☐ Plug	Back	☐ Water D] Water Disposal	
If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final Abdetermined that the site is ready for final Conference of the proposed testing has been completed. Final Abdetermined that the site is ready for final Conference of the proposed testing as follows: Hole size: 6 1/4" Casing Size Setting Depth: 1561' Cement: 120 SXS (251 CU F Density/Yield/Water: LEAD 1	k will be performed or provide operations. If the operation re andonment Notices shall be fill nal inspection.) duction Company submit ents to our original drilling the total depth from 188 are: 4 1/2" 10.5# J-55 S	the Bond No. or isults in a multipled only after all the defendence of the defendenc	a file with BLM/BIA completion or receivequirements, includ approval an application plan as well did the casing and	Required sub impletion in a re- ing reclamation cation for perase the correct of commenting definition in the correct of commenting in the correct of comments of	sequent reports shall ew interval, a Form 3 , have been complete ermit to drill the su	be filed within 30 days 8160-4 shall be filed once bed, and the operator has
14. I hereby certify that the foregoing is Name (Printed/Typed) MARY CC	Electronic Submission For AMOCO PRO Committed to AFMSS f	DUCTION CO	MPANY, sent to the by Maurice John:	ne Farmingto	n 2001 ()	
Signature			Date 07/11/20	001		
	THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE U	SE	
Approved By Javil	Mankiewa	p	Title AE	M mine	rals Dat	8/15/01
Conditions of approval, if any, are attache certify that the applicant holds legal or equivalent would entitle the applicant to conductive the	itable title to those rights in th	fnot warrant or e subject lease	Office			

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

District I PO Fox 1780, Hobbs NM 88241-1980 District II PO Drawer KK, Artesia, NM 87211-0719 District III

1000 Rio Brazos Rd., Azteć, NM 87410

PO Box 2088, Santa Fe, NM 87504-2088

District IV

State of New Mexico
Energy, Minerals & Natural Resources Department

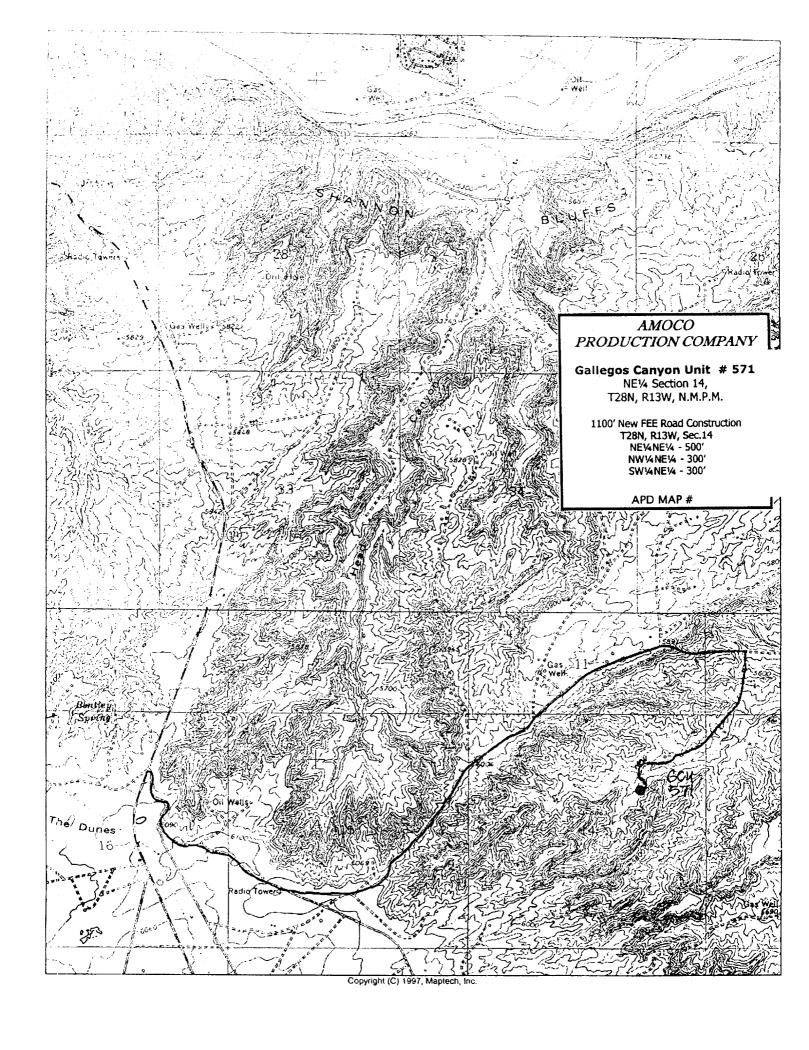
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

		WE.	LL LOC	ATION	AND ACE	REAGE DEDIC	ATION PL	AΤ	
30-045	I Number こっっ	^203	, ,	- Pool Code -/	1	2. 1E	¹ Poul		
Thepeny Ciste	2	0 7 - 0		<u> 1000 7</u>	² Proper	BASIN FRU.	TCAND	<u> </u>	' Well Number
<u> 20257</u>	22	G	allegos	Canyo		·			# 571
AMOCO PRODUCTION COMPANY 5678								*Hevation 5678	
	¹⁰ Surface Location								
	section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
G	14	28 N	13 W		1695	NORTH	1415	EAST	San Juan
* UL or lot no. S	Section	Township	" Botto	m Hole	Location I	f Different From	n Surface	East/West line	County
		•			rect nom use	Northy South Line	TGC HOIN BE	1.230 West Ind.	County
Dedicated Acres	Joint	or Infill	Consolidation	Code 15	Order No.			<u>i</u>	
32017	- 								
NO FILLOWA	BLE A	OR A	NON-STA	NDARD	UNIT HAS I	ION UNTIL ALL I	BY THE DIV	ISION	
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\$		بُمر	AN 22 23	733	_		true and c	amplete to the best o	f my knowledge and belief.
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							Date	1.10.200	
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AMOCO PRODUCTION COMPANY **DRILLING AND COMPLETION PROGRAM**

Prospect Name: GCU 571

Well No: 571

Lease: GALLEGOS CANYON UNIT

Surface Location: 1695' FNL & 1415' FEL

County: San Juan
State: New Mexico

Sec. 14, 28N-13W Field: Basin Fruitland Coal

Date: July 11, 2001

	into the Pictured Cliff	s, set 4 ½" casing	to TD nerf & st	imulate Erui	tland Coa	Linterval	
	THOD OF DRILLING	3, 00t 1 72 0d0iiig				OLOGICAL M	ARKER
TYPE OF TOOLS	DEPTH OF	DRILLING	Estimated			Estimated KB:	
Rotary/Top Drive	0 - TD	MARKE			UBSEA	MEAS. DEPTH	
	LOG PROGRAM	_	Ojo Alamo			5652	37
TYPE	DEPTH INV	/ERAL	Kirtland			5549	140
Open Hole (Platform Ex	press) TD to base	of surface casing	Fruitland Co Pictured Clif			4555 4290	1134 1399
REMARKS:	(itd 0 d	.:)	TOTAL DED	T1.;		4128	1561
- Please report any flare	es (magnitude & dura	lion).	# Completic			* Possible Pa	
	SPECIAL TESTS		# Completio		IDI ES	DRILLIN	
TYPE None	SPECIAL TESTS		FREQUENC None		1	FREQUENCY Geolograph	
REMARKS:			11010			Coologiapii	
MUD PROGRAM:				· · · · · · · · · · · · · · · · · · ·	-	-	
Approx. Interval	Type Muc		al Vis, sec/qt	W/L cc	's/30 min	Other Spe	cification
0 - 120-135 120-135 - TD	3 jts. Spud (1) Water/LSN	8.6-9.2 ND 8.6-9.2		· 			
REMARKS: (1) The hole will require	sweeps to keep unlo	aded while fresh w	/ater drilling. L€	et hole cond	itions dicta	ate frequency.	
		Unaction letter appoin	on cooling sizes to b	e used. Hole	sizes will b	e governed by Co	
CASING PROGRAM: (I	Normally, tubular goods a	mocanon lener soecine	35 Gasiiiu sizes iu i				ntract)
CASING PROGRAM: (I Casing String	Normally, tubular goods a Estimated Depth	Casing Size	Grade	Weight	Hole Size		
Casing String Surface/Conductor	Estimated Depth	Casing Size	Grade J 55 ST&C	Weight 23#	Hole Size 8.75	Landing P Etc.	ntract) oint, Cement
Casing String Surface/Conductor Production	Estimated Depth	Casing Size	Grade	Weight	Hole Size	Landing P Etc.	
Casing String Surface/Conductor	Estimated Depth 120-135 1561 Surface	Casing Size 7" 4 ½"	Grade J 55 ST&C	Weight 23#	Hole Size 8.75	Landing P Etc.	
Casing String Surface/Conductor Production REMARKS: (1) Circulate Cement to (2) Set casing 150' above CORING PROGRAM:	Estimated Depth 120-135 1561 Surface	Casing Size 7" 4 ½"	Grade J 55 ST&C	Weight 23#	Hole Size 8.75	Landing P Etc.	
Casing String Surface/Conductor Production REMARKS: (1) Circulate Cement to (2) Set casing 150' above CORING PROGRAM: None	Estimated Depth 120-135 1561 Surface ve below top of Pictur	Casing Size 7" 4 ½"	Grade J 55 ST&C	Weight 23#	Hole Size 8.75	Landing P Etc.	
Casing String Surface/Conductor Production REMARKS: (1) Circulate Cement to (2) Set casing 150' above CORING PROGRAM: None COMPLETION PROGRA	Estimated Depth 120-135 1561 Surface ve below top of Pictur	Casing Size 7" 4 ½"	Grade J 55 ST&C	Weight 23#	Hole Size 8.75	Landing P Etc.	
Casing String Surface/Conductor Production REMARKS: (1) Circulate Cement to (2) Set casing 150' above CORING PROGRAM: None	Estimated Depth 120-135 1561 Surface ve below top of Pictur	Casing Size 7" 4 ½"	Grade J 55 ST&C	Weight 23#	Hole Size 8.75	Landing P Etc.	
Casing String Surface/Conductor Production REMARKS: (1) Circulate Cement to (2) Set casing 150' above CORING PROGRAM: None COMPLETION PROGRA Rigless, Single Stage H	Estimated Depth 120-135 1561 Surface ve below top of Pictur AM: ydraulic Frac	Casing Size 7" 4 ½" ed Cliffs	Grade J 55 ST&C J 55 ST&C	23# 10.5#	Hole Size 8.75	Landing P Etc.	
Casing String Surface/Conductor Production REMARKS: (1) Circulate Cement to (2) Set casing 150' above CORING PROGRAM: None COMPLETION PROGRAM: Rigless, Single Stage H GENERAL REMARKS:	Estimated Depth 120-135 1561 Surface ve below top of Pictur AM: ydraulic Frac	Casing Size 7" 4 ½" ed Cliffs BOP testing, and C	Grade J 55 ST&C J 55 ST&C	Weight 23# 10.5#	Hole Size 8.75	Landing P Etc. The state of th	
Surface/Conductor Production REMARKS: (1) Circulate Cement to (2) Set casing 150' above CORING PROGRAM: None COMPLETION PROGRAM: Rigless, Single Stage H GENERAL REMARKS: Notify BLM/NMOCD 24	Estimated Depth 120-135 1561 Surface we below top of Pictur AM: ydraulic Frac hours prior to Spud, E	Casing Size 7" 4 ½" ed Cliffs BOP testing, and C	J 55 ST&C J 55 ST&C	Weight 23# 10.5#	Hole Size 8.75 6.25	Landing P Etc. The state of th	
Casing String Surface/Conductor Production REMARKS: (1) Circulate Cement to (2) Set casing 150' above CORING PROGRAM: None COMPLETION PROGRA Rigless, Single Stage H GENERAL REMARKS: Notify BLM/NMOCD 24 Form 46 Reviewed by:	Estimated Depth 120-135 1561 Surface we below top of Pictur AM: ydraulic Frac hours prior to Spud, E	Casing Size 7" 4 ½" ed Cliffs BOP testing, and C	J 55 ST&C J 55 ST&C asing and Cemging program re	Weight 23# 10.5#	Hole Size 8.75 6.25	Landing P Etc. The state of th	

PROPOSED CASING AND CEMENTING PROGRAM

S:ZE Oi	GRADE OF	WEIGHT .	SETTING		DENSITY	Y.ELD	WATER	EXCES
HOLE	CASING	PER FOOT	DEPTH	QUANTITY OF CEMENT	(lb/gal)	(ft3/sk)	(gal/sk)	S %
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%
	0 00 0 1 00 1			140 000 (054 011 57) 01 0 0 1 1 5 4 5	44.4	2.00	40.0	
				140 SXS (251 CU.FT.) CLS B - LEAD		2.68	16.6	700/
6 1/4"	J-55 ST&C 4 1/2"	10.5	1884'	44 SXS (97 CU.FT.) CLS B - TAIL	15.6	1.19	5.25	70%
				2%CuCl w 3% SMS				

FEDERAL CEMENTING REQUIREMENTS

- 1. All permeable zones containing fresh water and other usable water containing 10,000 PPM or less total dissolved solids will be isolated and protected from contamination by cement 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 $\frac{1}{2}$ " larger diameter than the casing O.D. across 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 zones to 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 below 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:

Gallegos Canyon Unit 571

County:

San Juan

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	351		
Kirtland	545		
Fruitland Coal	1380		
Pictured Cliffs	734		
i			

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

Requested BOP Pressure Test Exception: 750 PSI

SAN JUAN BASIN Fruitland Coal 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. Pressure 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 arrangement. 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>Interva</u>l

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.