roma 3160-5 Deusmner 1989:

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED Budget Burray No. 1004-0135 Expirer. September 30, 1990

5. Leay Designation and Serial No. -0606

				SUNDRY NOTICES AND REPORTS ON WELLS	
Do	not	use	this	form for proposals to drill or to deepen or reentry to a different resi	ervoir,
				Use "APPLICATION FOR PERMIT—" for such proposals	

SUBMIT IN TRIPLICATE

if Indian. Ailottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well		
Oil Gas Other		8. Well Name and No.
2. Name of Operator		Atlantic Fruitland 26 #2
ARCO Oil & Gas Company		9. API Well No.
3. Address and Telephone No.	700 015 600 5670	30-045-27952
P. O. Box 1610, Midland, TX 797		10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey D.	esemption)	Basin-Fruitland Coal Gas
Mea FSL & Meia FWL (U	nit Letter N)	11. County or Parish, State Pool
26-31N-10W		san Juan
2. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE. F	REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF AC	ОТІОМ
Nouce of Intent	Abandonrnent	Change of Plans
	Recomptenon	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturas
	Casing Ripeir	Water Shut-Off
Final Abandonment Nouce	Altering Casing	Conversion to Injection
	Recompletion	result of multiple completion on Well Completion or Report and Log form.)
 Describe Proposed or Completed Operations (Clearly state at give substitute locations and measured and true vertice) 	i pertinent detaus, and give pertinent dates, including estimated date of all depths for all markers and zones pertinent to this work.)*	or starting any proposed work. If well is directionally drutted.
Propose to change casi	ing program from a cased	hole completion to a
open hole completion	. Revised Drilling Plan a	Haehed.

JUL3 1 1990

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OIL CON. DIV DIST. 3

14. I hereby certify that the foregoing is true and correct Signed Ken Cu Ho Hull	Tide Regulatory Coordinator	APPROVIS-90
(This space for Federal or State office use)		
Approved by	Tide	Date
Congruence of approved, if any:	NMOCE	JUL 2 3 1990
Title 18 U.S.C. Section 1001, makes it a crime for any person or representations as to any makes within its jurisdiction.	mowingly and willfully to make to any department or agency of the	
- 10/10-10-10-10-10-10-10-10-10-10-10-10-10-1	*See instruction on Reverse Side	FARMINGTON DESCITE

TO NOW TO SERVICE THE SERVICE OF THE SERVICE THE SERVICE OF THE SE

DRILLING PLAN

Attach to Form 3160-3
ARCO Oil and Gas Company
Well: Atlantic Fruitland 26 #2
Section 26-T31N-R10W
1162' FSL & 1612' FWL
San Juan County, New Mexico

1. Estimated Tops of Geological Markers

Ojo Alamo	1714'
Kirtland	1765'
Fruitland	2750'
Pictured Cliffs	3084'

2. Estimated Tops of Possible Water, Oil, Gas or Minerals:

Sands above 1765'-Water Fruitland 2750'-Gas

3. Minimum Specifications for Pressure Control

Interval 250'-2800'	Pressure Control Equipment 11", 3000 psi double ram preventer with Rotating Head (Exhibit 1 &2).
2800'-3064'	2 - 7 1/16" double ram preventers with Stripping Head (Exhibit 1A & 2A).

Shown in Exhibits #1-3 are the BOP stack arrangements, choke manifold arrangements and the BOP specifications, respectively. This BOP stack conforms to API RP-53 (Figure 2.C.2) for a 2000 psi system. Maximum anticipated Fruitland pore pressure is 1500 psi. All ram type preventers and related control equipment will be hydraulically tested at nipple-up, after any use under pressure, and every 30 days, to 2000 psi. In addition, the blind ram will be operationally checked each time pipe is pulled out of the hole. All checks of BOPE will be noted on Daily Drilling Reports. Accessories to BOP equipment will include a kelly cock, floor safety valve, and choke manifold with pressure rating equivalent to the BOP stack.

4. Proposed Casing Program

	Hole	(Casing	Weight &
	<u>Size</u>	<u>Interval</u>	<u>Size</u>	Grade
Surface	12-1/4"	0-250'	9-5/8"	36.0# K-55
Production	8-3/4"	0-2800'	7"	23# N-80
Open-Hole	6-1/4"	2800- 3064	NA.	NA

Surface Casing cemented to surface with 200 sx (236 ft³) of Cl "B" containing 2% CaCl₂. Production casing cemented to surface with \pm 400 sx (720 ft³) 65/35/6 Cl "B"/Poz/Gel w/ 1/4# CF lead and 100 sx (118 ft³) Cl "B" tail.

If hole stability is a problem, a 5-1/2" liner will be set uncemented across the open-hole section. The liner will overlap the 7" casing 100' and it will be perforated across the coal.

5. Type and Characteristics of Proposed Drilling Fluids

		Weight	Funnel	Water
<u>Depth</u>	Mud Type	ppg	Viscosity	Loss
0-250'	Spud Mud	9.0	35-45	NC
250'-2800'	Low Solids	8.7-9.5	32-45	<10
2800-3064'	Water/Air	8.4-1.0	28	NC

6. Testing, Coring and Logging Program

- A. Drill Stem Testing None Anticipated
- B. Coring None Anticipated
- C. Logging-

Open Hole	<u>Cased Hole</u>
Mud Logger from 7" casing point	Temperature Survey if cement does not circulate
to TD.	

D. The well is planned to be completed Open-Hole style. The Fruitland will be drilled out from under 7" Casing using a Completion Rig and utilizing water as the drill fluid. After reaching TD, air will be added to the water to induce gas/water flow from the coal. Should wellbore stability be a problem, a 5-1/2" liner will be run to TD with 100' overlap across the 7" casing. The liner will not be cemented but will be perforated.

7. Anticipated Abnormal Temperature, Pressure, or Hazards

The maximum anticipated Fruitland pore pressure is 1500 psi. The Fruitland will be drilled out under balanced approximately 300 psi. A completion rig will be utilized for this operation using the BOP equipment specified in Exhibit #1A & #2A. There are no other abnormal pressures, temperatures or potential hazards in the area.

8. Anticipated Starting Date and Duration of Operations

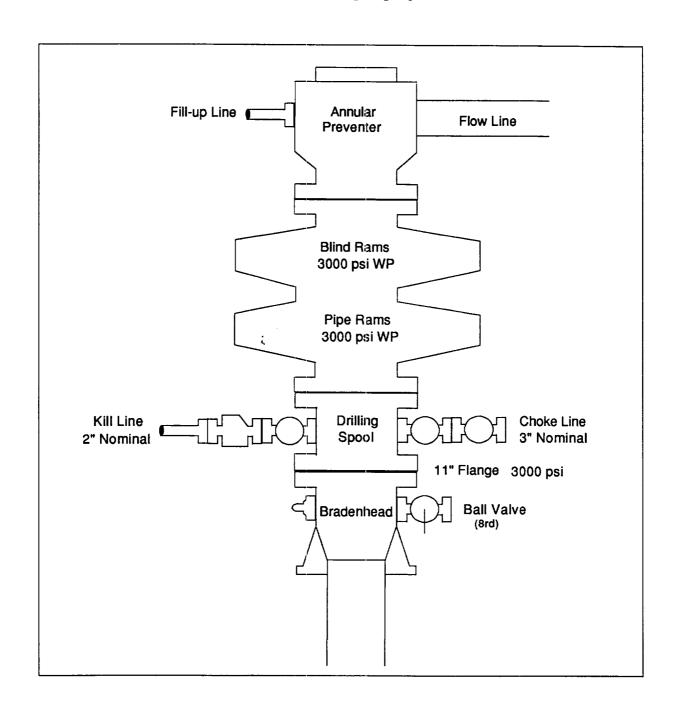
Pending favorable weather and permit approval, construction work for this location is planned to begin in July 1990. Construction work will require 5-7 days, moving-in and rigging-up rotary tools, 1 day, drilling and completion, 14 days. It is planned to spud the well in July 1990.

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Exhibit #1

BOP Stack Arrangement

Drilling Rig Operations



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Exhibit #1A BOP Stack Arrangement Open-Hole Completion Rig Operations

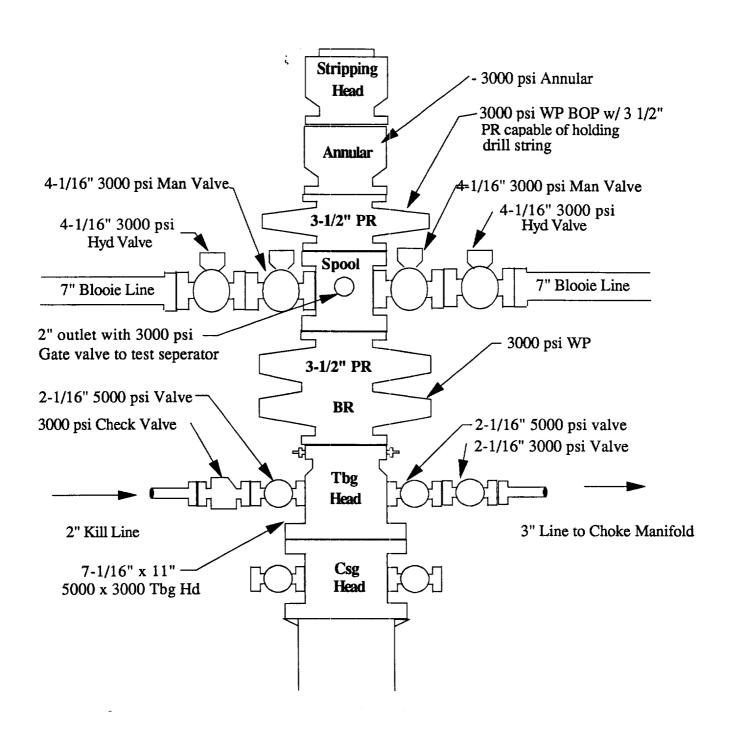
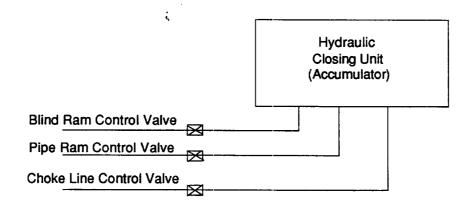


Exhibit #2 Choke Manifold & Accumulator Schematic Drilling Rig Operations



To Mud Tanks

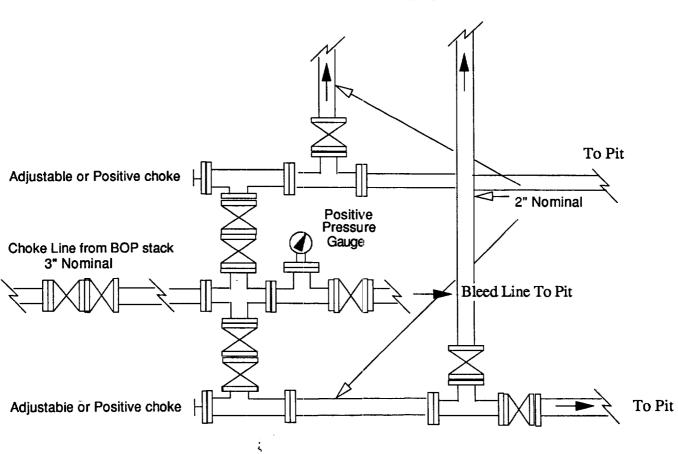
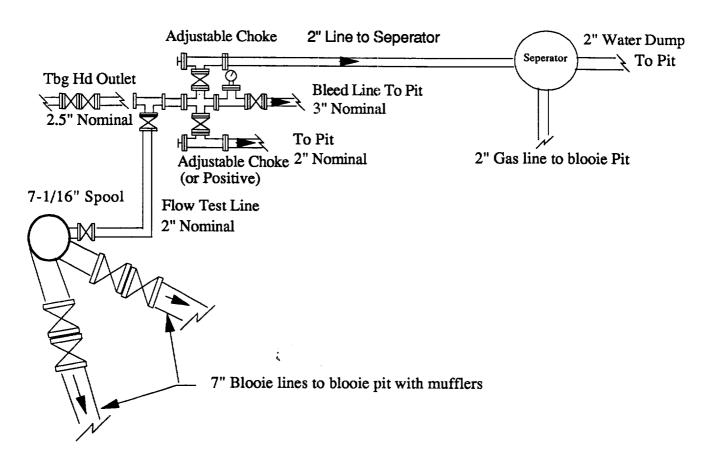


Exhibit #2A Surface Manifold Schematic Completion Rig Operations



All manifold valves to be rated for 3000 psi WP

Exhibit #3 **Blowout Prevention Equipment Specifications**

- 1. All BOP equipment shall be fluid and/or mechanically operated.
- 2. BOP's and all fittings will be in good working condition.
- 3. Equipment through which the bit must pass shall be at least as large as the casing size being drilled
- 4. The nipple above the BOP shall be at least the same size as the last casing set.
- 5. The upper kelly cock with handle and lower kelly cock shall be rated at the BOP working pressure.
- 6. A floor safety valve (full opening) or drill string BOP with appropriate pressure ratings shall be available on the rig floor with connections or subs to fit any tool joint in the string.
- 7. The minimum size choke line shall be 3 inches nominal diameter, with a minimum size for vent lines downstream of chokes of 2 inches nominal, and vent lines which by-pass shall be a minimum of 3 inches nominal and as straight as possible.
- 8. All valves, fittings and lines between the closing unit and the blowout preventer stack should be of steel construction with rated working pressure at least equal to working pressure rating of the stack. Lines shall be bundled and protected from damage.
- 9. Minimum size for kill line is 2 inches nominal.
- 10. Ram type preventers shall be equipped with extension hand wheels or hydraulic locks.

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