Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED BLM 97 APR 25 AM 9:12 070 FARMINGTON, NM

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

RECEIVED
MAY - 2 1997
OIL CON. DIV.
DIST. 3

5. Lease Designation and Serial No.
SF-080412-A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
San Juan 32-8 Unit

1. Type of Well
[ ] Oil Well [X] Gas Well [ ] Other

8. Well Name and No.
SJ 32-8 #253

2. Name of Operator
Phillips Petroleum Company

9. API Well No.
30-045- 29460

3. Address and Telephone No.
5525 Highway 64, NBU 3004, Farmington, NM 87401 505-599-3454

10. Field and Pool, or exploratory Area
Basin Fruitland Coal

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit G, 1824' FNL & 1757' FEL
Section 27, T32N, R8W

11. County or Parish, State
San Juan, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other casing/cement change	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Phillips proposes changes in the casing and cement design from what was submitted on the original APD.

1. The 7" casing will be 20# J-55 (not 23#).
2. The lead slurry on the 7" casing will be changed to 325 sx 65/35 Class B/POZ cement with 3#/sx Gilsonite, 1/4#/sx Cello-Flake and 12% gel (bentonite) mixed at 12.0 ppg with a yield of 2.2 cu ft/sx. The tail cement will remain as APD'd.
3. A 5-1/2" 15.5# J-55 liner will be run in the open hole without being cemented for the production casing.

14. I hereby certify that the foregoing is true and correct
Signed Patsy Clugston Title Regulatory Assistant Date 4-24-97

(This space for Federal or State office use)
Approved by [illegible] Title [illegible] Date APR 30 1997
Conditions of approval, if any:

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, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

NMOCD

Form 3160-3
(July 1992)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.: SF-080412-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL ☐ DEEPEN ☐

7. UNIT AGREEMENT NAME: San Juan 32-8 Unit

b. TYPE OF WELL: OIL WELL ☐ GAS WELL [X] OTHER — SINGLE ZONE [X] MULTIPLE ZONE ☐

8. FARM OR LEASE NAME, WELL NO.: SJ 32-8 #253

2. NAME OF OPERATOR: Phillips Petroleum Company

9. API WELL NO.:

3. ADDRESS AND TELEPHONE NO.: 5525 Highway 64, NBU 3004, Farmington, NM 87401 505-599-3454

10. FIELD AND POOL, OR WILDCAT: Basin Fruitland Coal

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: Unit G, 1824' FNL & 1757' FEL
At proposed prod. zone: Same as above

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 27, T32N, R8W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: @ 11 miles NE of Navajo Dam Post 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 drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
1757'	905.94 acres	320' E/2
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
@ 3100' (#202)	3600'	rotary

21. ELEVATIONS (Show whether DF,RT, GR, etc.): 6733' (unprepared ground level)

22. APPROX. DATE WORK WILL START*: 2nd Qtr. 1997

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#, J-55	260'	150 sx Cl B (@ 177 cu. ft.)
8-3/4"	7"	23#, J-55	3415'	L-500 sx Cl B (@ 1055 cu. ft.)
6-1/2"	5-1/2"	15.5# or 23#	@ 3600'	T-150 sx Cl B (@ 177 cu. ft.) **

** If the coal is cleated a 5-1/2" 23#, P-110 liner will be run in the open hole without being cemented.

If the coal is not cleated the well will be stimulated and open hole completed.

BOP Equipment and Mud Program - See attached

See attached WFS Pipeline Survey.

RECEIVED
MAY - 2 1997
OIL CON. DIV.
DIST. 3

070 FARMINGTON NM 97 APR 25 PM 12:26
RECEIVED BLM

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 Patsy Clugston TITLE Regulatory Assistant DATE April 1, 1997

(This space for Federal or State office use)

APR 30 1997

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify 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:

APPROVED BY _____ TITLE _____ DATE APR 30 1997

*See Instructions On Reverse Side

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, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOCD

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

RECEIVED
BLM
97 APR -1 PM 3:26

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	71629	Basin Fruitland Coal

[4] Property Code	[5] Property Name	[6] Well Number
009261	SAN JUAN 32-8	253

[7] OGRID No.	[8] Operator Name	[9] Elevation
017654	PHILLIPS PETROLEUM CO.	6733

[10] Surface Location

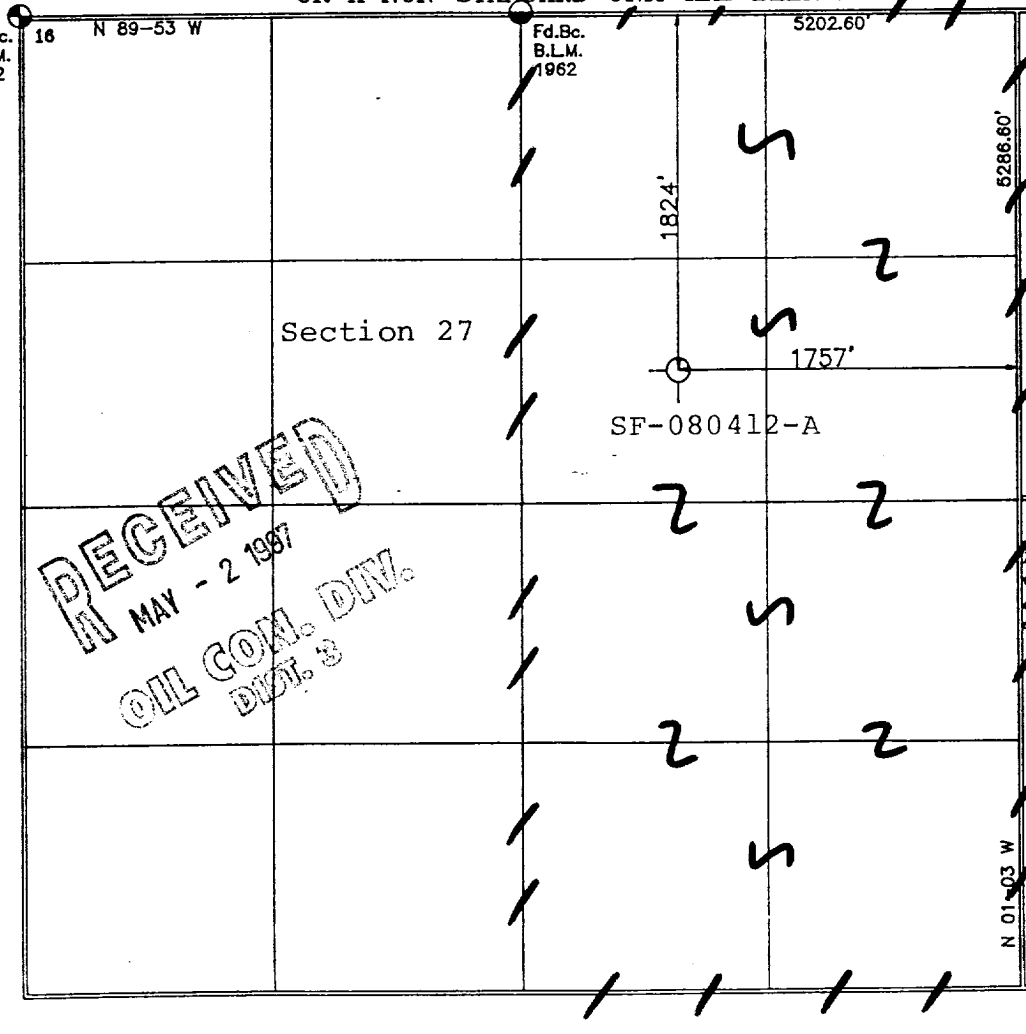
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	27	T32N	R8W		1824	NORTH	1757	EAST	SAN JUAN

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G									

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320	Y	U	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



RECEIVED
MAY - 2 1997
OIL CON. DIV.
DIST. 3

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature
Richard Allred
Printed Name
Drilling/Production Spvr.
Title
March 31, 1997
Date

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

OCTOBER 23, 1996
Date of Survey

Signature and Seal of Professional Surveyor:

GARY A. RISER
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
8894

8894
Certificate Number

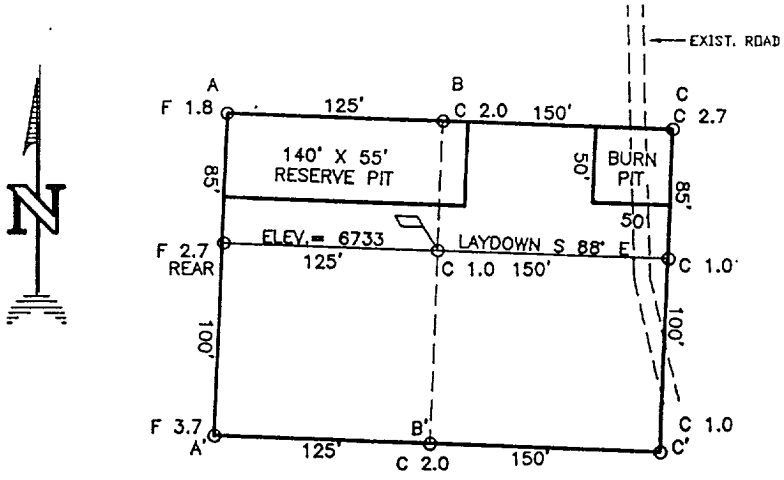
COMPANY: PHILLIPS PETROLEUM CO.

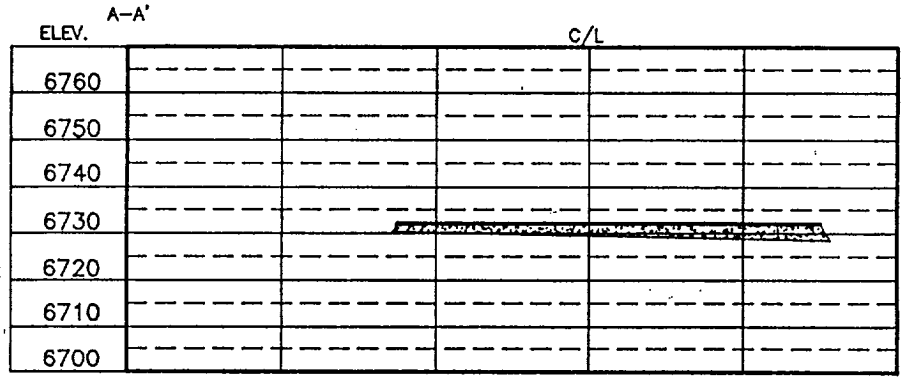
LEASE: SAN JUAN 32-8 No.253

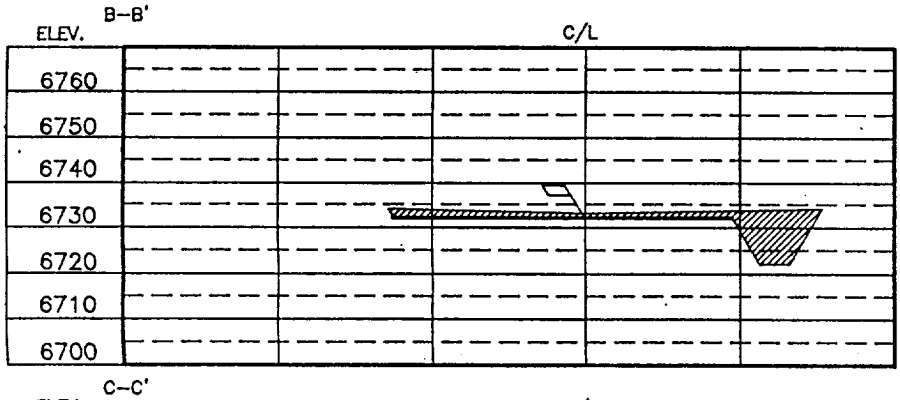
FOOTAGE: 1824' FNL 1757' FEL

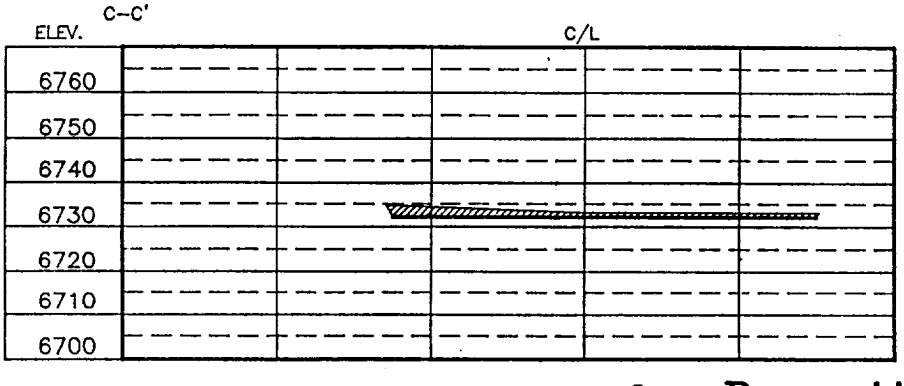
SEC.: 27, TWN: T-32-N, RNG: R-8-W, NMPM

ELEVATION: 6733





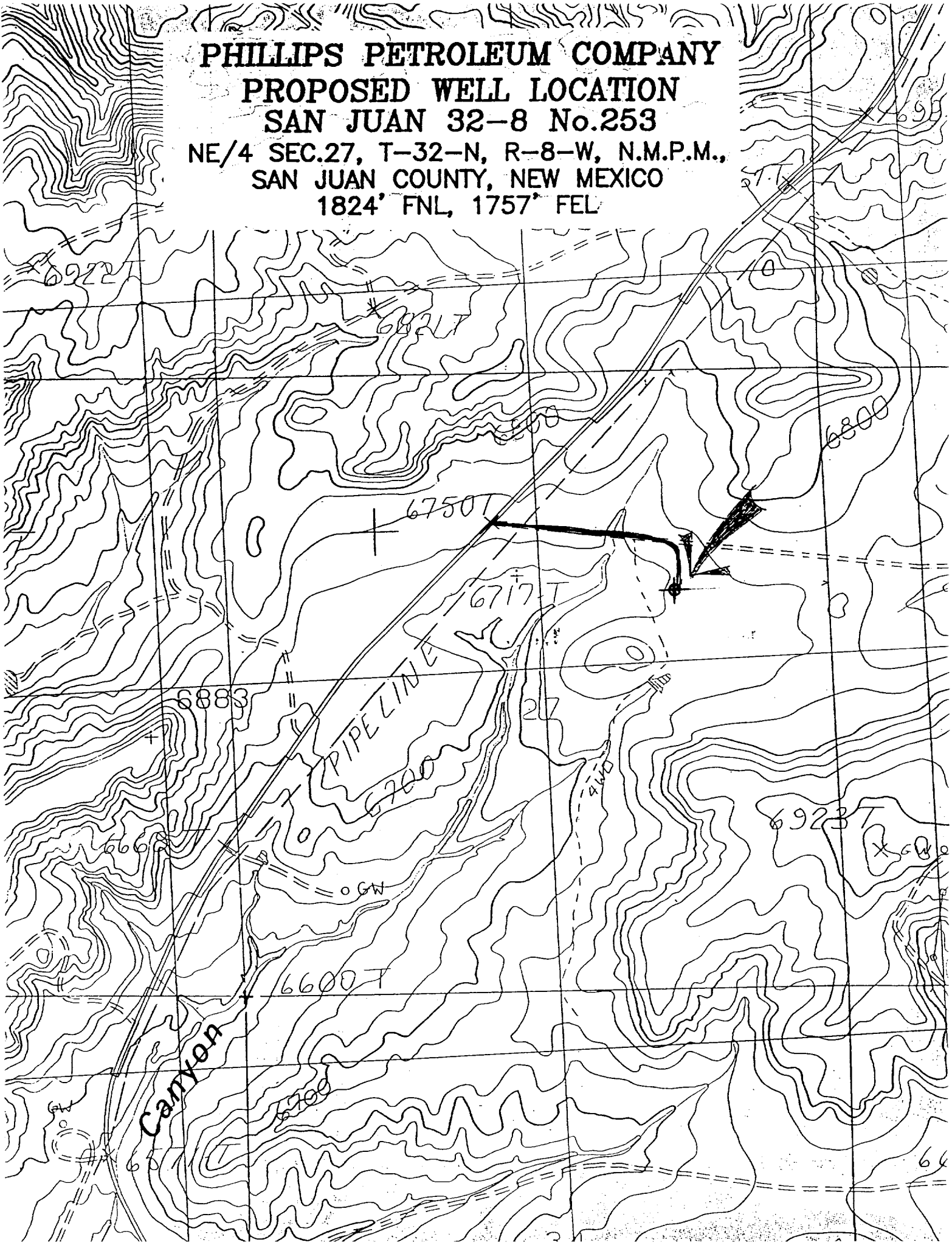




Daggett, Inc.

420 W. Elm Street Ph. (505) 326-1772
Farmington, New Mexico 87401

PHILLIPS PETROLEUM COMPANY
PROPOSED WELL LOCATION
SAN JUAN 32-8 No.253
NE/4 SEC.27, T-32-N, R-8-W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
1824' FNL, 1757' FEL



SURFACE USE PLAN

Phillips Petroleum Company, San Juan 32-8 Unit, Well No. 253, SW/4 NE/4, Section 27, T-32-N, R-8-W, San Juan County, New Mexico. (Federal Lease No. SF-080412-A).

This plan is to accompany "Application for Permit to Drill" the subject well which is located approximately 11 miles NE of Navajo Dam post office, New Mexico. The following is a discussion of pertinent information concerning the possible effect which the proposed drilling well may have on the environment of the well and road sites and surrounding acreage. A copy will be posted on the derrick floor so that all contractors and sub-contractors will be aware of all items of this plan.

1. **To reach the proposed location**, start from Aztec, New Mexico and go east on NM 173, approximately 24 miles to Navajo Lake Dam. Turn north on Hwy. 511 and travel approximately 11 miles to mile post 26. Turn east 1/4 mile, turn south to well location.

Planned Access Roads:

A. The access road is shown on the attached map. All roads used to access the proposed location shall be maintained in the same or better condition than presently found. The access road is to be classified "Temporary Resource Road."
B. Turnouts: None
C. Culverts, Cuts and Fills: See Cut and Fill Sketch. Culverts as needed.
D. Surfacing Material: Natural materials at well site.
E. Gates, Cattle Guard, Fences: As required.
F. Proposed Road: Approximately 400' of new access from existing lease road.
G. Drainage: Will be provided as needed.

3. **Locations of Existing Wells**: SJ 32-8 #202;1155 FSL & 1135 FWL Sec 27, T30N, R8W

4. **Locations of Tank Batteries, Production Facilities, Production Gathering, and Service Lines:** In the event of production, production facilities will be located on the drill pad. The actual placement of this equipment will be determined when the well's production characteristics can be evaluated after completion. The condensate tank will be enclosed by a dike. Upon completion of drilling, the location and surrounding area will be cleared of debris.

   The flow-line from Well No. 253 is to run from a measurement point on location to an existing pipeline. See attached WFS pipeline survey for exact footages.

5. **Water Supply Source:** Will be provided by the drilling contractor and trucked to the drilling site. See Attachment No. 1 - WATER SUPPLY SOURCES.

6. **Source of Construction Materials:**

No additional construction materials will be required to build the proposed location. The dirt from the reserve pit will be back-sloped and saved for use when the trench is rehabilitated.

7. **Methods for Handling Waste Disposal:**

A. A Conventional Drilling System will be used. The drill cuttings, fluids and completion fluids will be placed in the reserve pit. The reserve pit will be fenced with wire mesh on three sides away from the pad during drilling and the fourth side fenced as soon as the rig moves out. The reserve pit will be back filled, leveled and contoured so as to prevent any materials being carried into the watershed. Upon completion, the pad will be leveled, contoured, and re-seeded with the appropriate seed mixture.

B. All garbage and trash will be placed in specially constructed wire mesh containers. Upon cleanup, the refuse in the containers will be hauled to an approved landfill site.

All produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal applications will be submitted for appropriate approval.

8. **Ancillary Facilities:** None

9. **Well Site Layout**: Attached sketch shows the relative location and dimensions of the well pad, and cuttings trench. Location will be 275 ' x 185'.

10. **Plans for Restoration of Surface:**

Pits will be filled and leveled as soon as practical. If the well is productive, drilling pad will remain as well service pad. If dry hole, the pad will be ripped per regulations. Reserve pit dirt will be saved to be used during restoration of the pit area.

11. **Other Information:**

A. Terrain: See Archaeological Survey
B. Soil: See Archaeological Survey
C. Vegetation: See Archaeological Survey
D. Surface Use: See Archaeological Survey
E. Ponds & Streams: See Archaeological Survey
F. Water Wells: Water well is located in Section 27 approx. 500' from proposed site
G. Residences and Buildings: There are no occupied residences or buildings within one quarter of a mile of the proposed well location.

H. Arroyos, Canyons, Etc: See Archaeological Survey

I. Well Sign: Sign identifying and locating the well will be maintained at drill site with the spudding of the well.

J. Archaeological Resources: See Archaeological Survey.

12. **Operator's Representatives:** Field personnel who can be contacted concerning compliance of the "Surface Use Plan" is as follows:

W. D. Jaap 5525 Hwy. 64 Farmington, NM 87401 Phone: 505-599-3485	or	R. A. Allred 5525 Hwy. 64 Farmington, NM 87401 Phone: 505-599-3403

13. **Surface Ownership:** Louis E. Randle, Jr., P.O. Box 681248, Indianapolis, IN 46268

14. **Certification:**

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Phillips Petroleum Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

R. A. Allred
Typed or Printed Name

Signature

4-1-97
Date

PHILLIPS PETROLEUM COMPANY

Preliminary 7/07/93

Well Name: San Juan 32-8 #253

DRILLING PROGNOSIS

1. Location of Proposed Well: Unit G, 1824' FNL & 1757' FEL, Sec. 27
   T32N, R8W, San Juan Co., NM

2. Unprepared Ground Elevation: 6733'.

3. The geological name of the surface formation is San Jose.

4. Type of drilling tools will be rotary.

5. Proposed drilling depth is 3600'.

6. The estimated tops of important geologic markers are as follows:

Ojo Alamo -	2260'	Base Coal -	3525'
Kirtland -	2320'	Picture Cliffs -	3545'
Fruitland -	3270'	Int. Casing -	3415'
Top Coal -	3435'	T.D. -	3600'

7. The estimated depths at which anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

Water: 2260'-2320'
Oil : None
Gas : 3435'-3525'

8. The proposed casing program is as follows:

Surface String 9-5/8", 36#, J-55 @ 260'
Intermediate String 7", 23#, J-55 @ 3415'
Production String * 5-1/2", 15.5# or 23# @ 3600'

9. Cement Program:

Surface String = 150 sx CL "B" cement w/2% CaCl2 & 1/4#/sk Cello-Seal; 15.6 ppg @ 1.17 ft^3/sx yield (@ 177 cf ft); quantity sufficient to circulate cement to surface.

Intermediate String = Lead cmt: 500 sx (@ 1055 cf ft) Cl "B" 65/35 POZ w/12% Gel 1/4# Cele-Flake/sk.
Tail. 150 sx (@ 177 cu ft) Cl "B" w/1/4# Cele-Flake/sk. Aniticipate cement to surface.

Liner =

* If the coal is cleated a 5-1/2" 23#, P-110 liner will be run in the open hole without being cemented.

* If the coal is not cleated the well will be stimulated and open hole completed.

Centralizer Program:

Surface: Centralizer at 10' above shoe. Top of 2nd Joint. Top of 4th Joint.

Intermediate: Centralizer at 10' above shoe. Top of 2nd Jt., Top of 4th Jt. Top of 6th Jt., Top of 8th Jt.

Turbulator at 1 Jt. Below Ojo Alamo.
Turbulator at top of next joint.
Turbulator at top of next joint.

10. The minimum specifications for pressure control equipment which are to be used, a schematic diagram thereof showing sizes, pressure ratings (or) API series and the testing procedure and testing frequency are enclosed within the APD packet.

11. The proposed mud program is enclosed within the APD packet.

12. The testing, logging, and coring programs are as follows:
If conditions warrants, the well will be logged, but nothing else is planned for this well.
Special Tests: _____

13. Anticipate no abnormal pressure or temperatures to be encountered or any other potential hazards such as Hydrogen Sulfide Gas. The bottom hole pressure expected on this well @ 1200 psi. Low risk H_2S equipment will be used.

14. The anticipated starting date is sometime in 2nd Qtr 1997 with duration of drilling operations for approximately 20 days thereafter.

Contact person and number - Richard Allred (505) 599-3403.

WATER SUPPLY SOURCE
Surface Use Plan
San Juan Unit Wells

Attachment No. 1

Depending on which drilling contractor is used, the water for drilling and completion operations will come from one of the following locations:

1. San Juan River at Blanco Bridge, NW SE SE Section 18, T-29-N, R-9-W.
2. 29-6 Waterhole in Unit L, Section 28, T-29-N, R-6-W.
3. Navajo Reservoir, SW NW SE Section 14, T-30-N, R-7-W.
4. Sims Mesa (S.J. #14) NW SW Section 35, T-31-N, R-7-W.
5. La Jara Water Hole, Unit M, Section 11, T-30-N, R-6-W.
6. Pine River
7. City of Ignacio
8. Produced Water

PROPOSED MUD PROGRAM
SAN JUAN 32-8 UNIT
Well No. 253
San Juan County, NM

DEPTH	MUD WEIGHT	VISCOSITY	FLUID LOSS	CL-PPM	% SOLIDS	ADDIVITES
0-260 Ft.	Spud Mud Lime and Gel					Bentonite
260-3000	8.0 - 9.0 ppg	45-65 Sec/Qt	NC	1200 PPM		Drispac Lime, Soda Ash
3000-TD	9.0 - 9.5 PPG	35-50 Sec/Qt	20 cc/ml		Low Solids	Drispac, Soad Ash Caustc Soda Bentonite

260' - 3000' Polymer mud and water with seeps every 500' or less if hole conditions dictates.

3000'- TD Fresh water mud with$CaCl_3$ & Polymer, low solids
Mud Wt. 9.0 to 9.5 PPG, as necessary to control well.

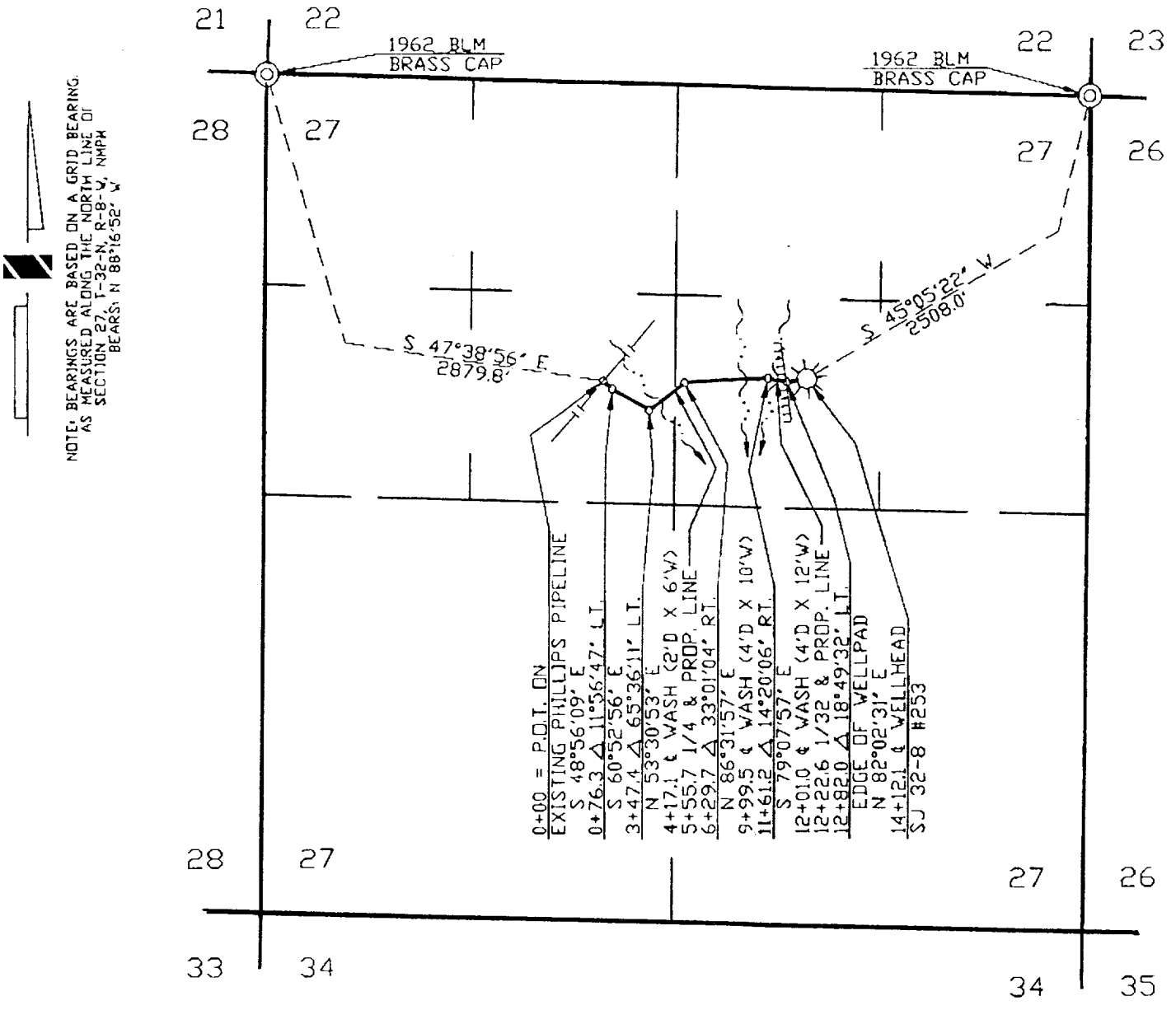
Start mud up 100' above Fruitland.

WILLIAMS GAS PROCESSING
ONE OF THE WILLIAMS COMPANIES

PHILLIPS PETROLEUM GATHERING SYSTEM

LINE: PHILLIPS - SJ 32-8 UNIT #253
FROM: 0+00 = P.O.T. ON EXISTING PHILLIPS PIPELINE (REF. DWG.)
COUNTY: SAN JUAN STATE: NEW MEXICO
SECTION: 27 TOWNSHIP: 32-N RANGE: 8-W

SCALE: 1"=1000' DRAWN BY: RSL CHECKED BY: PB APPROVED: APPROVED:
DWG. NO. 765.0-5-1 DATE: 3/24/97 SURVEYED: 3/19/97 W.O. NO.: R/W NO:



APPLICATION DWG. _____ DATE _____ METER NO. _____ FORMATION _____ METER NO. _____ FORMATION _____

AS-BUILT PIPE DATA

OWNERSHIP

SUBDIVISION	OWNER	LEASE	FEET	MILES	ACRES	RODS
0+00 TO 5+55.7	THOMAS L. JENKINS		555.7	0.105	0.765	33.679
5+55.7 TO 12+22.6	J. HERSHEL STONE		666.9	0.126	0.919	40.418
12+22.6 TO 14+12.1	HUNTINGTON RANCHES		189.5	0.036	0.261	11.485

NO.	DATE	BY	REVISION DESCRIPTION	APP.	NO.	DATE	BY	REVISION DESCRIPTION	APP.
1	3/24/97	RSL	ISSUED FOR REVIEW						

T:\MAPPING\765\00\000004G1.DWG

BOP AND RELATED EQUIPMENT CHECK LIST

3M SYSTEM:

2 hydr. rams (pipe & blind) or hydr. ram and annular with blind ram on bottom

Kill Line (2-inch minimum)

1 kill line valve (2-inch minimum)

1 choke line valve

2 chokes (refer to diagram in attachment 1) on choke manifold

Upper kelly cock valve in open position with handle available

Safety valve (in open position) and subs to fit all drill strings in use (with handle available)

Pressure gauged on choke manifold

2 inch minimum choke line

Fill-up line above the uppermost preventer

The BOPs will be pressure tested according to Onshore Order #2 III, A 1 and 30% safety factor.

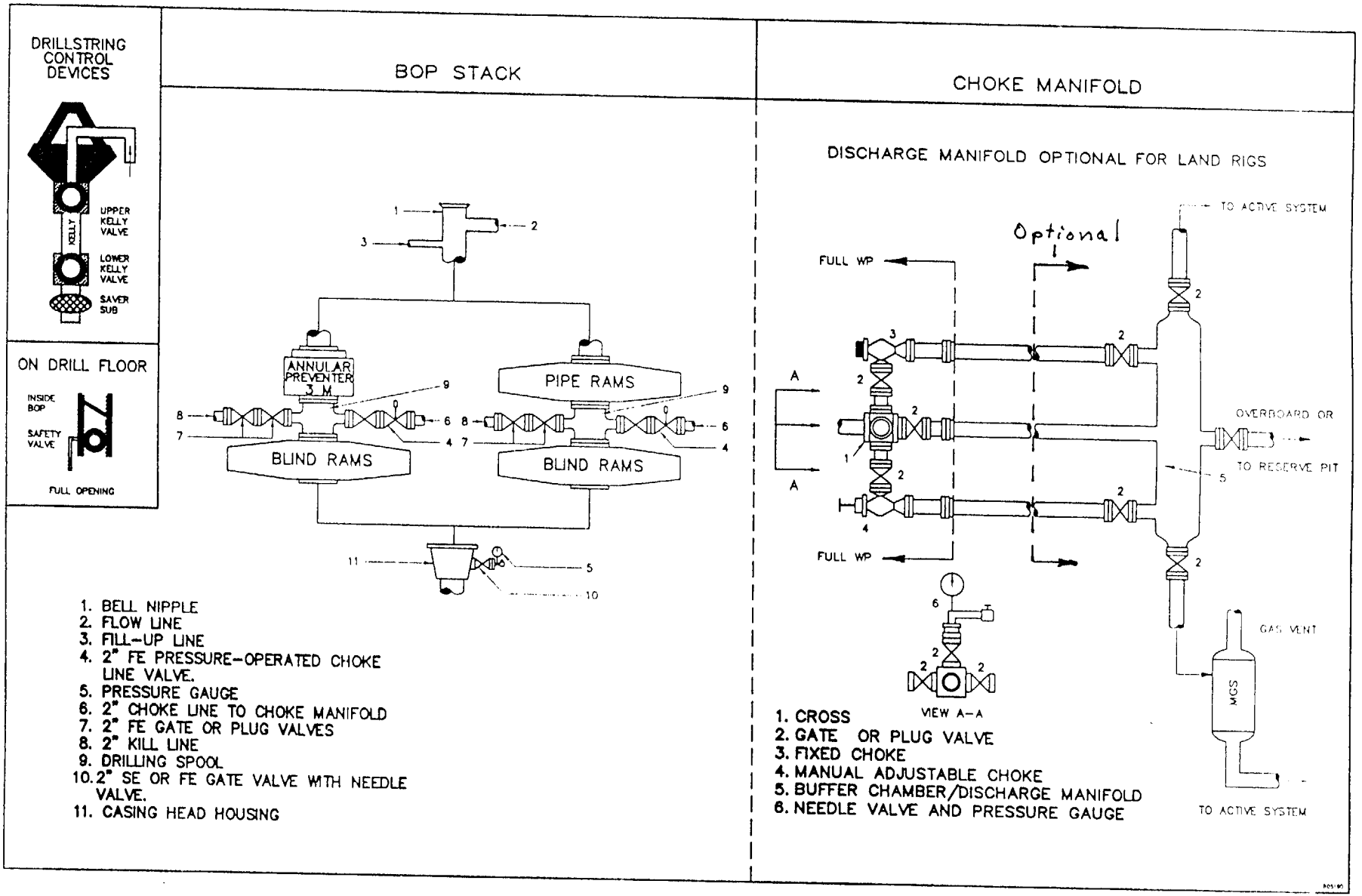
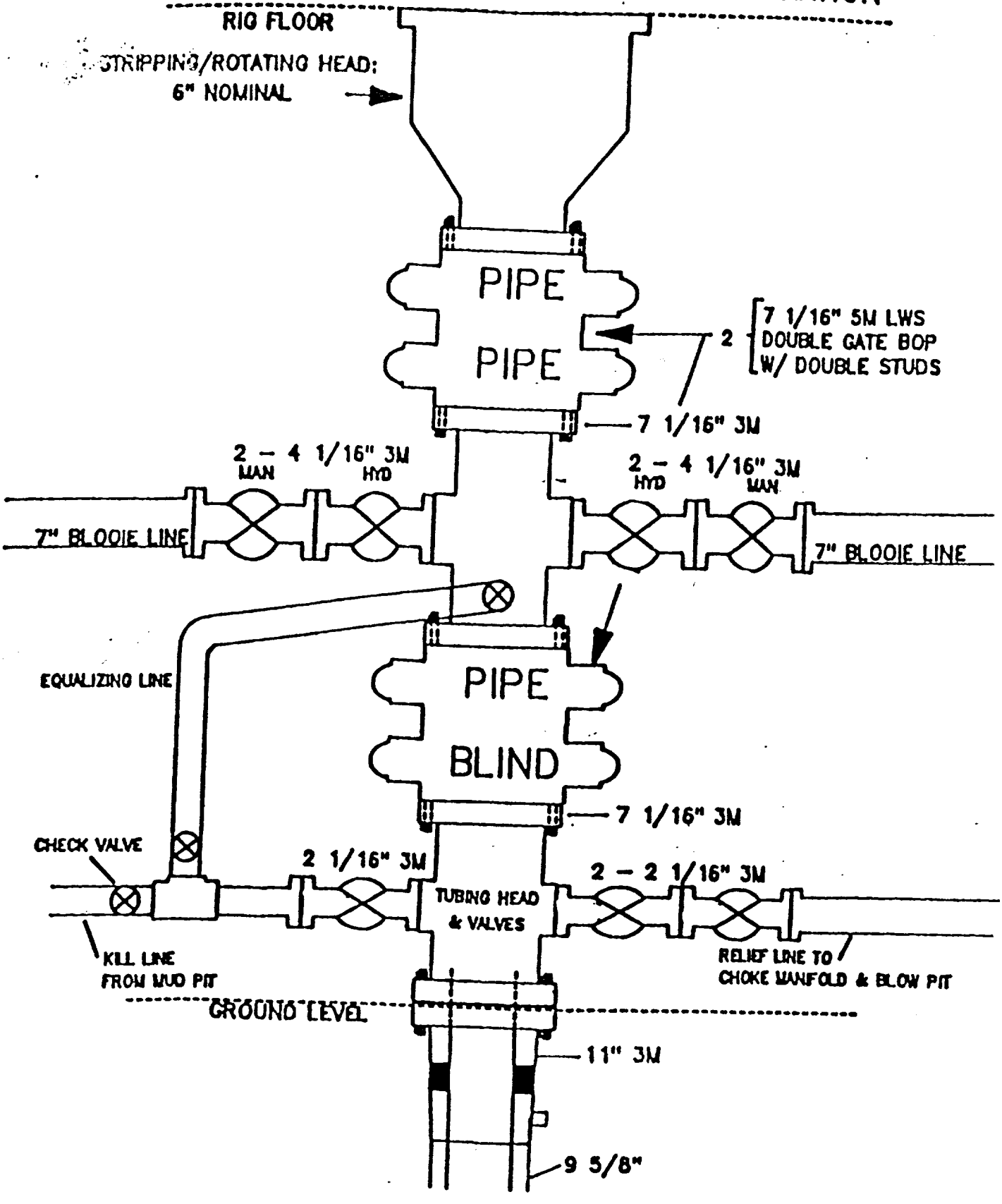


Fig. 2.4. Class 2 BOP and Choke Manifold.

COMPLETION BOP/WELLHEAD CONFIGURATION



2.8 TESTING BLOWOUT PREVENTER EQUIPMENT

2.8.1 Pressure Test Frequency

All rams, annulars, valves, choke and kill lines, choke manifold, kelly valves, and safety valves should be pressure tested at the following frequencies:

1. On installation of blowout preventers.

2. After setting casing and before drilling cement.

3. Every 7 days or on first trip out of hole after 7 days since previous pressure test.

4. After any component of the blowout preventer assembly is disassembled, replaced, or repaired (this includes lines, valves, or choke manifold). In this case, the component changed may be the only component tested.

5. Any time the Wellsite Supervisor requests testing.

6. In addition to the above tests, **subsea BOPs** shall be tested on test stump, prior to installation or reinstallation of the blowout preventer assembly. Operating chambers are to be tested in addition to all pipe rams, valves etc.

2.8.2 Function Test Frequency

Surface BOPS

All rams, annulars, valves, and other items specified below, should be function-tested at the following intervals:

1. On initial installation from all control panels.

2. After each trip out of hole alternating between driller's and remote control panel but not more than once every twenty-four (24) hours. Close pipe/blind rams only.

   NOTE: Pipe rams will only be closed with pipe in the hole.

Sub-Surface BOPs

All rams, pipe ram locks, fail-safe valves, or other subsea items specified below should be function-tested at the following intervals:

1. Prior to running the assembled blowout preventer stack, function test all components with both control pods from the driller's and remote control panels.

2. After initial installation of the blowout preventer stack or after any control components have been repaired or replaced. Function test all components, except wellhead connector, using both control pods from the driller's and remote control panels.

3. Blind/shear rams each trip out of the hole alternating between the driller's and remote control panels.

   NOTE: Do not leave blind/shear rams closed while out of the hole.

2.8.3 Test Pressures

The following Tables 2.3 and 2.4 shall be used to identify which test is appropriate and at what pressure shall be applied for surface and subsea BOPs.

Table 2.3
SURFACE BOPE PRESSURE TEST

TEST	INTERVAL
Low Pressure	Test to 200-300 psi prior to each high pressure test.
Initial Installation	Test all rams, annulars, valves, choke manifold, kelly valves, and safety valves to the lesser of the following pressures. • Rated working pressure of the component in the blowout preventer assembly with the exception of annular preventer which is to be tested to 70% of the rated working pressure. • The API rated casing burst pressure of the last casing to be utilized in the well with the BOP assembly being tested. • Rated working pressure of the casing head. • If "Cup Tester" is used, do not exceed 80% of the API rated burst pressure of the casing.
Repair	Repaired or replaced components are to be tested to the same pressures used in the Initial Test.
Subsequent Test and After Setting Casing	Test all rams, annulars, valves, choke and kill lines, choke manifold, kelly valves, and safety valves, to the lesser of the following pressures. • 50% of the rated working pressure of the component to be tested. • 80% of the API rating of the casing burst pressure then in the well. • Test blind rams during internal casing pressure test. (Refer to drilling program for test pressures.)
Accumulator and BOP Operating Chambers	Test to the manufacturer's rated working pressure, with a fluid that meets or exceeds the manufacturer's recommended practices. Test the accumulator for time to pump up to specifications. A accumulator performance test as per Section 2.8.7 should be performed on initial installation and subsequently as deemed necessary.

Table 2.4
SUBSURFACE BOPE PRESSURE TEST

TEST	INTERVAL
Low Pressure	Test to 200-300 psi prior to each high pressure test.
Test Stump	Test all rams, annulars, fail-safe valves, operating chambers, choke manifold, kelly valves, and safety valves to the lesser of the following pressures. • Rated working pressure of the component in the blowout preventer assembly with the exception of annular preventer which is to be tested to 70% of the rated working pressure. • The API rated casing burst pressure of the last casing to be utilized in the well with the BOP assembly being tested.
Initial Installation	Test connector seal, choke line, and kill line to that pressure specified for testing the pipe rams during the stump test. Test remainder of the BOP stack to that pressure specified during weekly tests.
Repair Test	Same as Stump Test. Surface component repairs or replacements can be tested separately.
Subsequent Test and After Setting Casing	Test all rams, annulars, fail-safe valves, choke and kill lines, choke manifold, kelly valves, and safety valves, to the lesser of the following pressures: • 50% of the rated working pressure of the component to be tested. • 80% of the API rating of the casing burst pressure then in the well. • Test blind rams during internal casing pressure test. (Refer to drilling program for test pressures).

NOTE: When testing Subsea BOPs, the actuating pressure on the ramlocks should be bled prior to testing the rams. In a drive-off situation there would be no pressure on these wedgelocks. Wedgelocks do not always work, and wear could result in loss of ability to hold pressure.

2.8.4 Blowout Preventer Test Practices

All pressure tests shall be witnessed by Wellsite Supervisor on location. Charts shall be certified by the Wellsite Supervisor. All tests shall be recorded on Phillips' Daily Drilling Report, the IADC Report, and the Phillips BOP Test Form. A reproducible copy of the Phillips BOP Test Forms can be found in Chapter 9.

Drilling Contractor form can be acceptable if comparable to the Phillips BOP form.

Hold all low-pressure tests for three minutes and high pressure tests for ten minutes or until the Wellsite Supervisor is satisfied that there are no leaks.

The following items should be addressed:

1. Prior to testing, all lines and valves will be thoroughly flushed to ensure that the system is clear. Test all opening and closing control lines to 1500 psi and inspect for leaks.

2. If necessary, run a stand of drill collars below the test plug to properly seat the test tool.

3. Precautions should be taken to avoid pressuring the casing below the test tool.

4. The running string is to be full of fluid (or antifreeze solution) for immediate indication of test tool leakage.

5. All pipe rams, blind/shear rams, blind rams, annular preventers, valves, fail-safe valves, choke and kill lines are to be tested at the frequencies and pressures outlined in this section.

6. Drillpipe safety valve and lower and upper kelly valves, inside BOP are to be tested from below at pressures and frequencies outlined in this section.

7. Test fluids are to be bled back to pump unit in a safe manner.