

DATE IN <b>2/26/99</b>	SUSPENSE <b>3/18/99</b>	ENGINEER <b>MS</b>	LOGGED BY <b>RN</b>	TYPE <b>NSL</b>
------------------------	-------------------------	--------------------	---------------------	-----------------

3-29-99

*Since this is an NSL - The Special Rules require*

ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**

- Engineering Bureau -

2040 South Pacheco, Santa Fe, NM 87505



*30-days*  
*See Rule 6*

**ADMINISTRATIVE APPLICATION COVERSHEET**

*R-8768*

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
- [DD-Directional Drilling] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

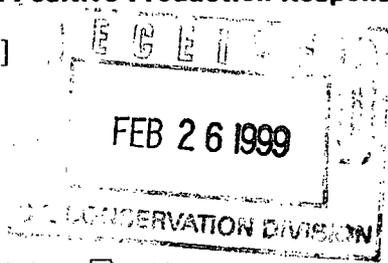
*as requested by Burlington*

[1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**

- [A] Location - Spacing Unit - Directional Drilling
- NSL  NSP  DD  SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
- DHC  CTB  PLC  PC  OLS  OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
- WFX  PMX  SWD  IPI  EOR  PPR



[2] **NOTIFICATION REQUIRED TO: - Check Those Which Apply, or  Does Not Apply**

- [A]  Working, Royalty or Overriding Royalty Interest Owners
- [B]  Offset Operators, Leaseholders or Surface Owner
- [C]  Application is One Which Requires Published Legal Notice
- [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E]  For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F]  Waivers are Attached

[3] **INFORMATION / DATA SUBMITTED IS COMPLETE - Certification**

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

**PHILLIPS PETROLEUM COMPANY**

S. Scott Prather [Signature] S.R. LANDMAN 2/23/99  
Print or Type Name Signature Title Date



**PHILLIPS PETROLEUM COMPANY**

FARMINGTON, NEW MEXICO 87401  
5525 HWY. 64 NBU 3004

February 22, 1999

State of New Mexico  
Oil Conservation Division  
2040 South Pacheco  
Santa Fe, New Mexico 87505

Attn: Ms. Lori Wrotenbery  
Director

**RE: REQUEST FOR ADMINISTRATIVE APPROVAL OF UNORTHODOX WELL LOCATION  
SAN JUAN 32-8 UNIT #247 WELL  
W/2 SECTION 19-32N-8W  
SAN JUAN COUNTY, NEW MEXICO  
PHILLIPS CONTRACT C40464**

Dear Ms. Wrotenbery:

Phillips Petroleum Company (Phillips) as Operator of the captioned well, respectfully requests administrative approval of an unorthodox well location for said well.

Phillips proposes to drill the San Juan 32-8 Unit #247 well at a location of 1885' FSL & 185' FWL of Section 19-32N-8W, San Juan County, New Mexico. This well will be located in the Basin Fruitland Coal Pool and will have the W/2 of Section 19 designated as the drillblock. This location is necessary due to topographical considerations. Our representatives have met onsite with the BLM to determine where an acceptable drillsite could be located. For your benefit in reviewing this request, we are providing the following:

1. A letter from the BLM addressing this matter.
2. An APD packet for the subject well (Form C-102 included)
3. A topographical plat of the area
4. A nine-section plat exhibiting offset operations

The offset operators have been furnished with a copy of this correspondence and accompanying data by certified letter.

Thank you for your consideration of this request and should you need additional information or clarification on this matter, please do not hesitate to contact the undersigned.

Very truly yours,

S. Scott Prather, CPL  
Senior Landman  
San Juan Basin  
(505) 599-3410

cc: J. L. Mathis (r) C40464  
Ernie Busch – OCD, Aztec  
Koch Industries, Inc.



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Farmington Field Office  
1235 La Plata Highway, Suite A  
Farmington, New Mexico 87401

FEB 17 1999

IN REPLY REFER TO:  
3162.5-1 (07200)

Mr. Richard Allred  
Phillips Petroleum Company  
5525 Highway 64, NBU 3004  
Farmington, NM 87401

Dear Mr. Allred:

The purpose of this letter is to inform Phillips Petroleum Company and NMOCD of an unorthodox well placement location for the Phillips Petroleum Company's San Juan 32-8 # 247. In the past, most locations without resource conflicts have been drilled. The window where the 247 would not require an OCD hearing has topographical constraints, is in critical big game winter range and also has elk calving restrictions and impacts to archeological resources. This caused the moving of this well to the location where it is now staked. It is the Bureau of Land Management's goal to stake these wells in an area where resource damage is minimal and can be reduced to acceptable levels by mitigation. Therefore, it is the request of the Authorized Officer that this location be moved to an unorthodox location to lessen impacts to various resources in the area.

If you have any questions, please contact Bill Liess of my staff at (505) 599-6321.

Sincerely,

Ruben Sanchez  
Environmental Protection Specialist Team Lead

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

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

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

1a. TYPE OF WORK  
**DRILL**       **DEEPEN**

1b. TYPE OF WELL  
 OIL WELL       GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR  
Phillips Petroleum Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. \*)  
 At surface  
Unit L, 1885' FSL & 185' FWL  
 At proposed prod. zone  
Same as above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
18 miles northeast of Aztec

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)      @ 185'

16. NO. OF ACRES IN LEASE  
2161.15 acres

17. NO. OF ACRES ASSIGNED TO THIS WELL  
223.40 W/2

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH  
3657'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6732' Unprepared Ground Elevation

22. APPROX. DATE WORK WILL START\*  
2nd Qtr 1999

5. LEASE DESIGNATION AND SERIAL NO.  
SF-079353

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
San Juan 32-8 Unit

8. FARM OR LEASE NAME, WELL NO.  
#247

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT  
Basin Fruitland Coal

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 19, T-32-N, R-8-W

12. COUNTY OR PARISH  
San Juan

13. STATE  
NM

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/K-55	350'	185 sx (204 cf) C1 H
8-3/4"	7"	20#, J/K-55	3332'	L-370 sx (777 cf) 35/65 C1 H POZ
6-1/4"	5-1/2" liner	15.5#	3312' - 3657'	T-100 sx (120 cf) C1 H

\*\* The 6-1/4" interval from the 7" casing shoe to the base of the coal may be underreamed to 9-1/2".  
 See the drilling prognosis for more details on the 5-1/2" liner.  
 See attached for BOP equipment, mud program and cathodic protection.

This APD and pipeline DO NOT qualify for the APD/ROW process due to the length of the pipeline.

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 12-17-98

(This space for Federal or State office use)

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 \_\_\_\_\_

\*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.

District I  
 PO Box 1980, Hobbs, NM 88241-1980  
 District II  
 811 South First, Artesia, NM 88210  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
 Geology, Minerals & Natural Resources Department

Revised October 18, 1994

OIL CONSERVATION DIVISION  
 2040 South Pacheco  
 Santa Fe, NM 87505

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 APT Number		2 Pool Code 71629		3 Pool Name Basin Fruitland Coal	
4 Property Code		5 Property Name SAN JUAN 32-8 UNIT			6 Well Number 247
7 OGRID No. 017654		8 Operator Name PHILLIPS PETROLEUM COMPANY			9 Elevation 6732'

10 Surface Location

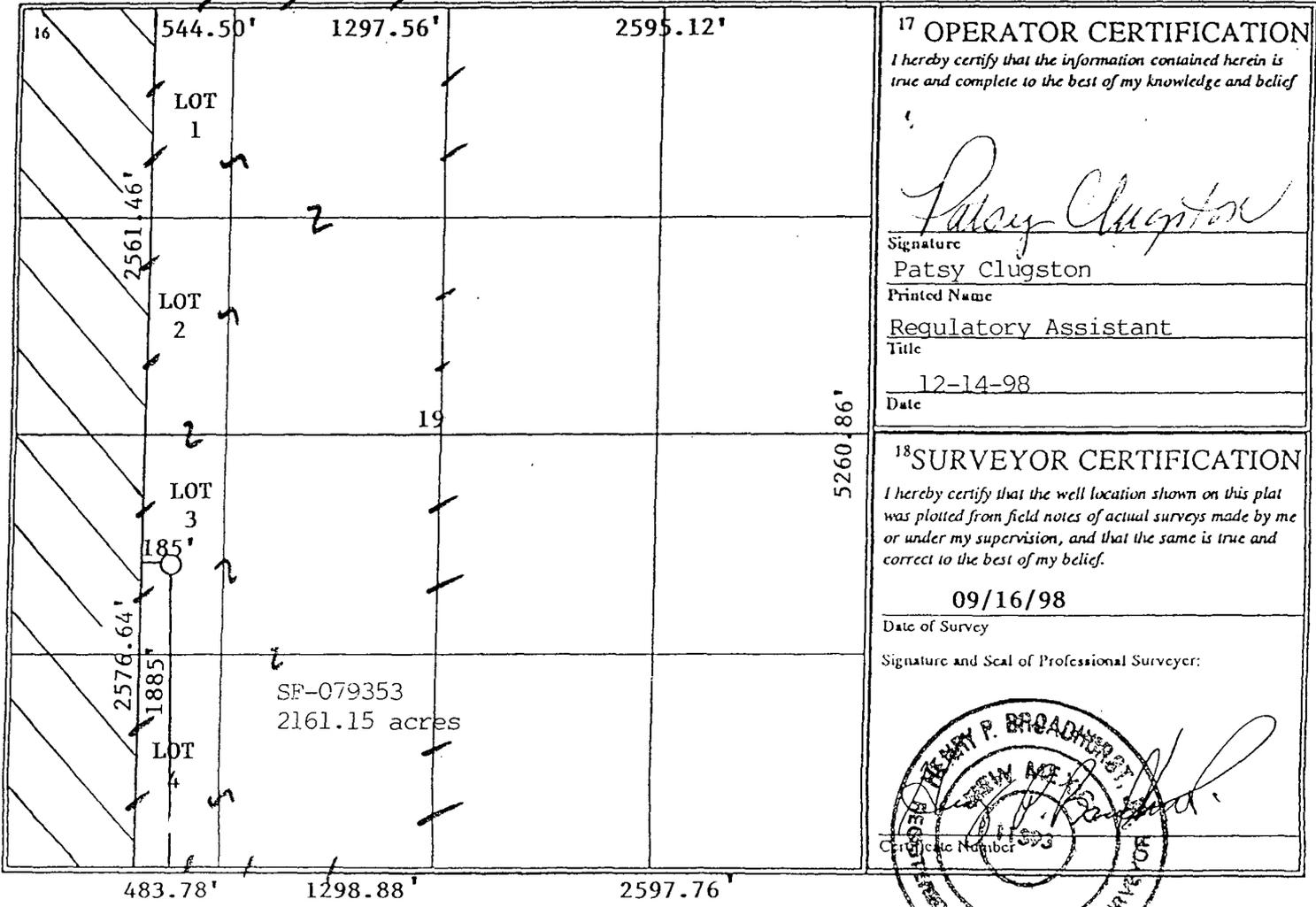
Ul. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	19	32N	8W		1885'	SOUTH	185'	WEST	SAN JUAN

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
L									

12 Dedicated Acres 223.40 W/2	13 Joint or Infill N	14 Consolidation Code U	15 Order No.
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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

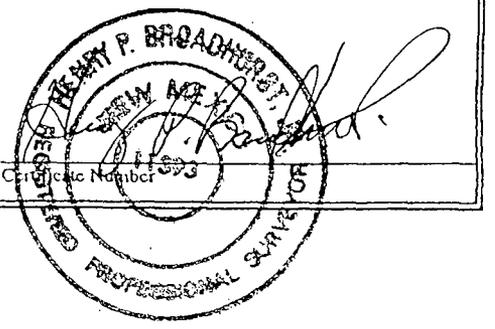


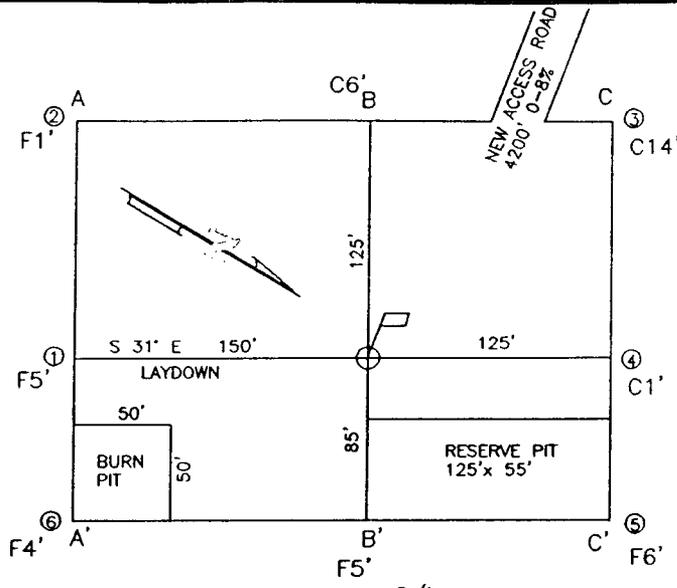
17 OPERATOR CERTIFICATION  
 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

*Patsy Clugston*  
 Signature  
 Patsy Clugston  
 Printed Name  
 Regulatory Assistant  
 Title  
 12-14-98  
 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.

09/16/98  
 Date of Survey  
 Signature and Seal of Professional Surveyer:





A-A' ELEVATION C/L

6752				
6742				
6732	[Profile sketch]			
6722				
6712				

B-B' C/L

6752				
6742				
6732	[Profile sketch]			
6722				
6712				

C-C' C/L

6752				
6742				
6732	[Profile sketch]			
6722				
6712				

COMPANY: PHILLIPS PETROLEUM CO.

LEASE: SAN JUAN 32-8 UNIT #247

FOOTAGE: 1885 FSL 185 FWL UNIT L

SEC. 19 TWN. 32 N RNG. 8 W N.M.P.M.

COUNTY, SAN JUAN STATE, N.M.

ELEVATION: 6732

LATITUDE: 36-58-03

LONGITUDE: 107-43-16

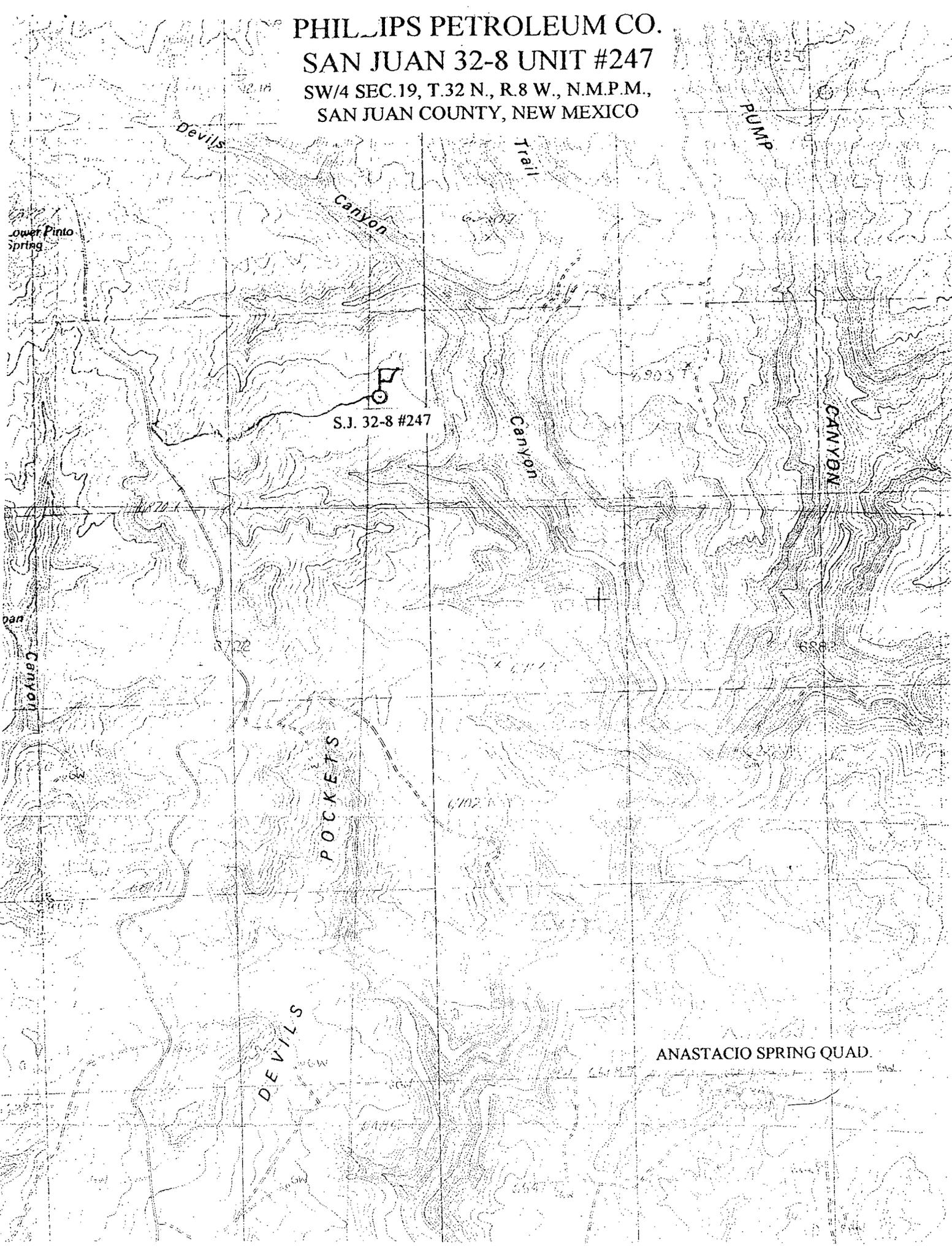
 <b>PHILLIPS PETROLEUM CO.</b> FARMINGTON, NEW MEXICO		
SURVEYED: 9/16/98	REV. DATE:	APP. BY H.B.
DRAWN BY: S.B.	DATE DRAWN: 9/25/98	FILE NAME: 328247C
<b>UNITED</b> FIELD SERVICES INC.		P.O. BOX 3651 FARMINGTON, NM 87499 OFFICE: (505)325-5319

PHILLIPS PETROLEUM CO.

SAN JUAN 32-8 UNIT #247

SW/4 SEC. 19, T. 32 N., R. 8 W., N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO



S.J. 32-8 #247

ANASTACIO SPRING QUAD.

POCKETS

DEVILS

Lower Pinto Spring

PUMP

Pan Canyon

Devils Canyon

Trail Canyon

Canyon

CANYON

LINE PHILLIPS PETROLEUM CO. - SAN JUAN 32-8 UNIT NO. 247

WO NO. 10705

FROM 0+00 = 88+04.54 ON BLANCO LATERAL N-9

RW NO. 9870318

(9N731.0-1, R/W NO. 58604)

DATE 10/19/98

SCALE 1" = 1000'

SURVEYED 10/08/98

COUNTY SAN JUAN

STATE NEW MEXICO

SECTION 19

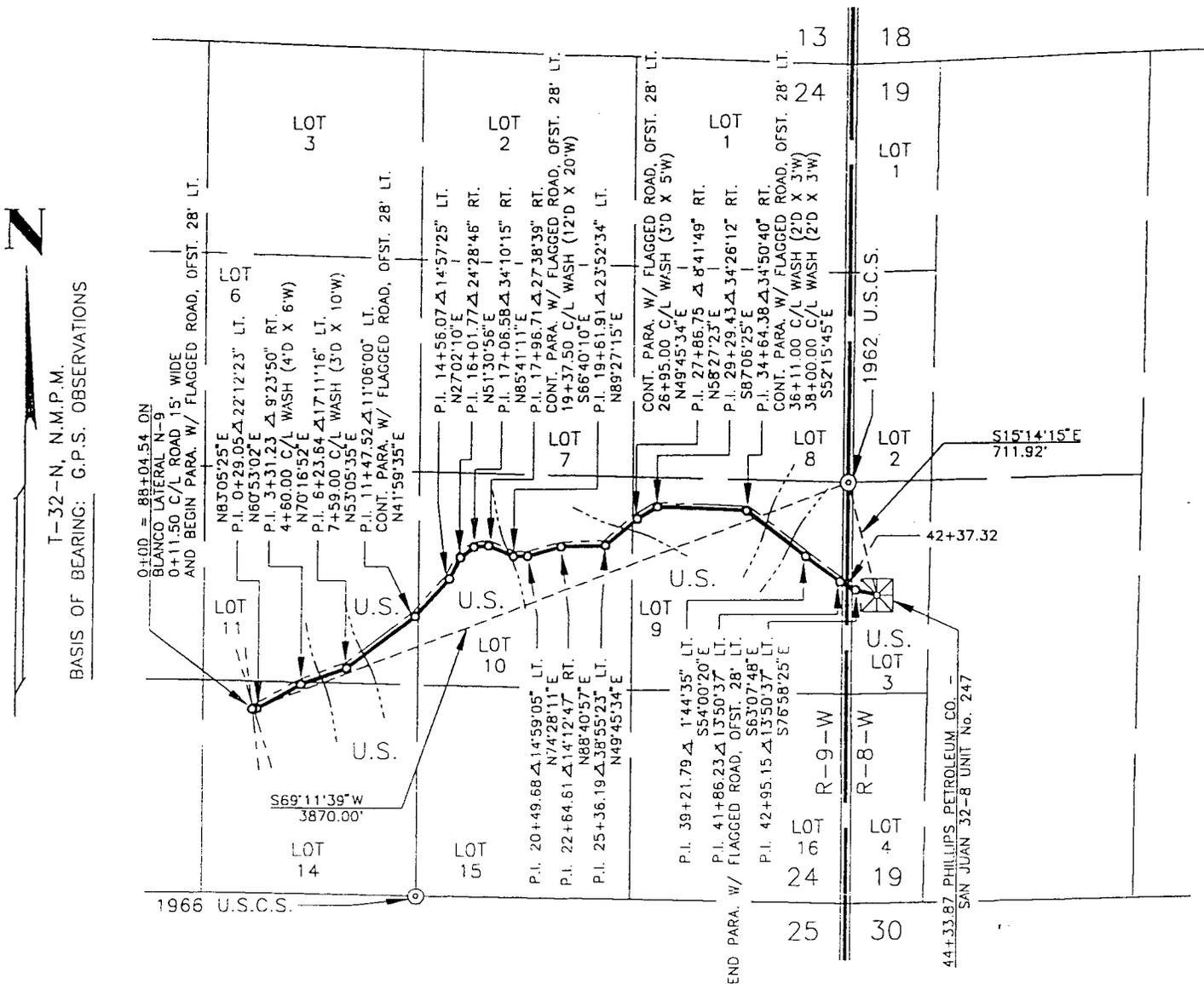
TOWNSHIP 32-N

RANGE 8-W, N.M.P.M.

SECTION 24

TOWNSHIP 32-N

RANGE 9-W, N.M.P.M.



DWN. BY GV CONSTR. COMMENCED \_\_\_\_\_ APPL. DWG. \_\_\_\_\_ SLACK CHAIN \_\_\_\_\_  
 CKD. BY MD CONSTR. COMPLETED \_\_\_\_\_ DATE \_\_\_\_\_ PIPE SIZE 4.50" O.D.

PRINT RECORD

PIPE DATA

METER STA. NO.

1	SJ ROW	
7	SJ DIST.	10/23/98
1	EP CAD	

NOTE: WELL FLAG  
 SURVEY FOLLOWS EXISTING FLAGGED PROPOSED ROAD,  
 LOCATION NOT BUILT & EXISTING WELL FLAG.

**PRELIMINARY**

OWNER	SUBDIVISION	OWNER	LESSEE	METER(S)	RODS	ACRE(S)
UNITED STATES	LOTS 9, 10, 11 & 14, SEC. 24	UNITED STATES	RICHARD & LINN BLANCETT		256.807	3.891
UNITED STATES	LOT 3, SEC. 19	UNITED STATES	RICHARD & LINN BLANCETT		11.912	0.181

F M24 (Rev. 6/94)

WL5352

## SURFACE USE PLAN

Phillips Petroleum Company, San Juan 32-8 Unit, Well No. 247,NWSW/4, Section 19, T32N, R8W, San Juan County, New Mexico. (Federal Lease No. SF-079353).

This plan is to accompany Application for Permit to Drill the subject well which is located approximately 18 miles north and east of Aztec, NM. 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. **Existing Roads:**

A. To reach the proposed location, start from Aztec, NM taking NM 550 north approx. 4 miles and turn right on Hart Canyon. Go approx. 6½ miles and turn left on Arkansas Loop Road and go 8½ miles. Turn right at "Y" (east). Follow road 2 miles and turn right (south) and go 1 ½ miles. Turn left (east) ¾ mile to location.

2. **Planned Access Roads:**

A. The access road is shown on the attached map. All existing 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 A Temporary Resource Road.

B. Turnouts: None

C. Culverts, Cuts and Fills: See cut and Fill Sketch.

D. Surfacing Material: Natural materials at the well site.

E. Gates, Cattleguards, Fences: As required

F. Proposed Road: \_\_\_\_\_ Approximately 4434' of new access required.

G. Drainage: Will be provided as needed.

3. **Location of Existing Wells:** None.

4. **Location 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 (including compression). 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 this well will have to be constructed. This pipeline will be constructed and owned by El Paso Field Service and they will be applying for the pipeline Right-of-Way, since it doesn't fit the APD/ROW criteria (4434' in length). This pipeline will run adjacent to the access road (see attached El Paso Plat). Phillips will have a 2" Drisco water line that will be laid in the same trench as El Paso's gas line.

There are two options for disposal of the produced water from this well. The plan is for Phillips to lay a 2-1/2" Drisco plastic water line in the same trench as El Paso's gas line until it ends, then run the water pipeline south and east to the water facilities at Phillips's 32-8 #239 (see attached map with tentative route mapped out). A separate ROW for the water line will be proposed and approved before this happens (we are waiting on weather conditions to allow survey and archy work to be performed). Hopefully this will take place before the well is first delivered. If the well is ready to first deliver before the water line is built, we will truck the water to the 32-8 #239 water facility mentioned above, until these lines are complete.

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 pit 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 backfilled and leveled as soon as practical.
- 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 piped and transported to an approved disposal system.

8. **Ancillary Facilities:** None

9. **Well Site Layout:** Attached sketch shows the relative location and dimensions of the well pad, and reserve pit. Location will be 275' X 210'.

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

Pit will be filled and leveled as soon as practical. If well is productive, drilling pad will remain as well service pad. If dry hole, the pad will be ripped and re-seeded 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 and Streams: See Archaeological Survey
- F. Water Wells: No known water wells are located in Section.
- 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. One previously recorded site was encountered, but can be avoided.

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

**Drilling and Production**

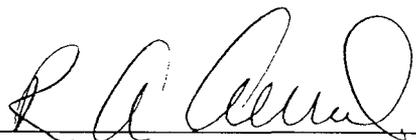
B. J. Morris	or	R. A. Allred
5525 Hwy. 64		5525 Hwy. 64
Farmington, NM 87401		Farmington, NM 87401
Phone: 505-599-3485		Phone: 505-599-3403

13. **Surface Ownership:** Federal

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

12-15-98  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
TOPOGRAPHICAL SURVEY

E. Aso's proposed gas line with  
PPCo's water line in same trench

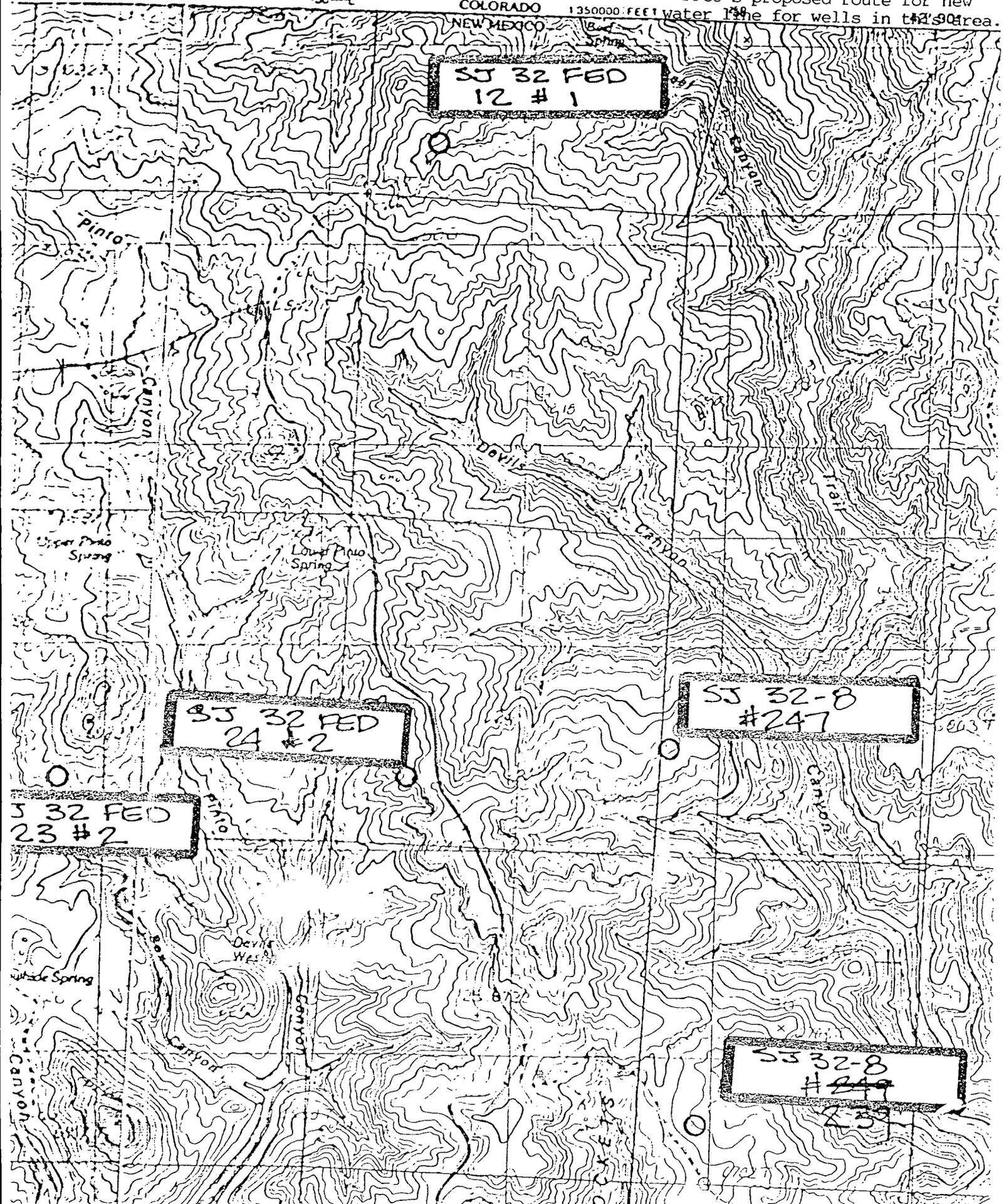
PPCo's proposed route for new  
water line for wells in the area.

107° 45'

56244

COLORADO  
NEW MEXICO

1350000 FEET



S 32 FED  
12 # 1

S 32 FED  
24 # 2

S 32-8  
# 247

S 32 FED  
23 # 2

S 32-8  
# 249

PHILLIPS PETROLEUM COMPANY

WELL NAME: San Juan 32-8 Unit #247

DRILLING PROGNOSIS

1. Location of Proposed Well: Unit L, 1885' FSL & 185' FWL  
Section 19, T32N, R9W, San Juan County, NM
2. Unprepared Ground Elevation: @ 6732'
3. The geological name of the surface formation is San Jose.
4. Type of drilling tools will be rotary.
5. Proposed drilling depth is 3657'.
6. The estimated tops of important geologic markers are as follows:

<u>Naciamenta - 772'</u>	
<u>Ojo Alamo - 2292'</u>	<u>Base of Coal - 3657'</u>
<u>Kirtland - - 2347'</u>	<u>Picture Cliffs - 3657'</u>
<u>Fruitland - 3302'</u>	<u>Interm. Casing - 3332'</u>
<u>Top of Coal - 3352'</u>	<u>T. D. - 3657'</u>
7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

Water:	<u>Ojo Alamo - 2292 - 2347</u>
Oil:	<u>None</u>
Gas & Water:	<u>Fruitland - 3352' - 3657'</u>
8. The proposed casing program is as follows:

Surface String:	<u>9-5/8", 36#, J/K-55 @ 350'</u>
Intermediate String:	<u>7", 20#, J/K-55 @ 3332'</u>
Production Liner:	<u>5-1/2", uncemented liner 3312' - 3657'</u>
9. Cement Program:

Surface String:	<u>185 sx Cl H with 2% CaCl<sub>2</sub> + 1/4#/sx Cello-Flake: mixed @</u> <u>15.6 ppg, 1.2 ft<sup>3</sup>/sx yield . (204 cf) 5.23 gal H<sub>2</sub>O sx. or sufficient</u> <u>to circulate to surface.</u>
-----------------	--

Intermediate String: **Lead Cement:** 370 sx 35/65 (Class "H" POZ) cement with 5#/sx Gilsonite, 1/4#/sx Cello-Flake and 6% gel (Bentonite) mixed at 12.0 ppg with a yield of 2.1 ft<sup>3</sup>/sx. Note 100% excess on Lead Slurry.

**Tail:** 100 sx Class "H" cement with 5#/sx Gilsonite, 1/4#/sx Cello-Flake, 0.3% FL-52 and 2% CaCl<sub>2</sub> mixed at 15.6 ppg with a 1.2 ft<sup>3</sup>/sx yeild. or quantity sufficient to circulate cement to surface.

Centralizer Program:

Surface: Total four (4) - 1 - 10' above shoe, top of 2<sup>nd</sup>, 4<sup>th</sup>, & 6<sup>th</sup> jts .

Intermediate: Total seven (7) - 10' above shoe, top of 1<sup>st</sup>, 2<sup>nd</sup>, 4<sup>th</sup>, 6<sup>th</sup>, 8<sup>th</sup>, & 1<sup>st</sup> jt. into shoe.

Turbulators: Total Three (3) - one at 1 jt below Ojo Alamo; 2 & 3 next 2 jts up.

Liner :

- If the coal is clefted a 5 1/2" 15.5# liner will be run in the open hole without being cemented.
- If the coal is not clefted, the well will be stimulate and open hole completed.

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. Drilling Mud Prognosis: Surface - spud mud on surface casing.  
Intermediate - fresh water w/polymer sweeps. Bentonite as required for viscosity.  
Below Intermediate - air drilled.

12. The testing, logging, and coring programs are as follows:  
D.S.T.s or cores: \_\_\_\_\_  
Logs: Mud logs only
  
13. Anticipated no abnormal pressures or temperatures to be encountered or any other potential hazards such as Hydrogen Sulfide Gas. Low risk H<sub>2</sub>S equipment will be used.  
  
Estimated Bottomhole pressures:  
Fruitland - +/- 1300 psi
  
14. The anticipated starting date is sometime in the 2<sup>nd</sup> Qtr 1999 with duration of drilling operations for approximately 20 days thereafter.

98drill32#247prognosis

## BOP AND RELATED EQUIPMENT CHECK LIST

### 2M 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

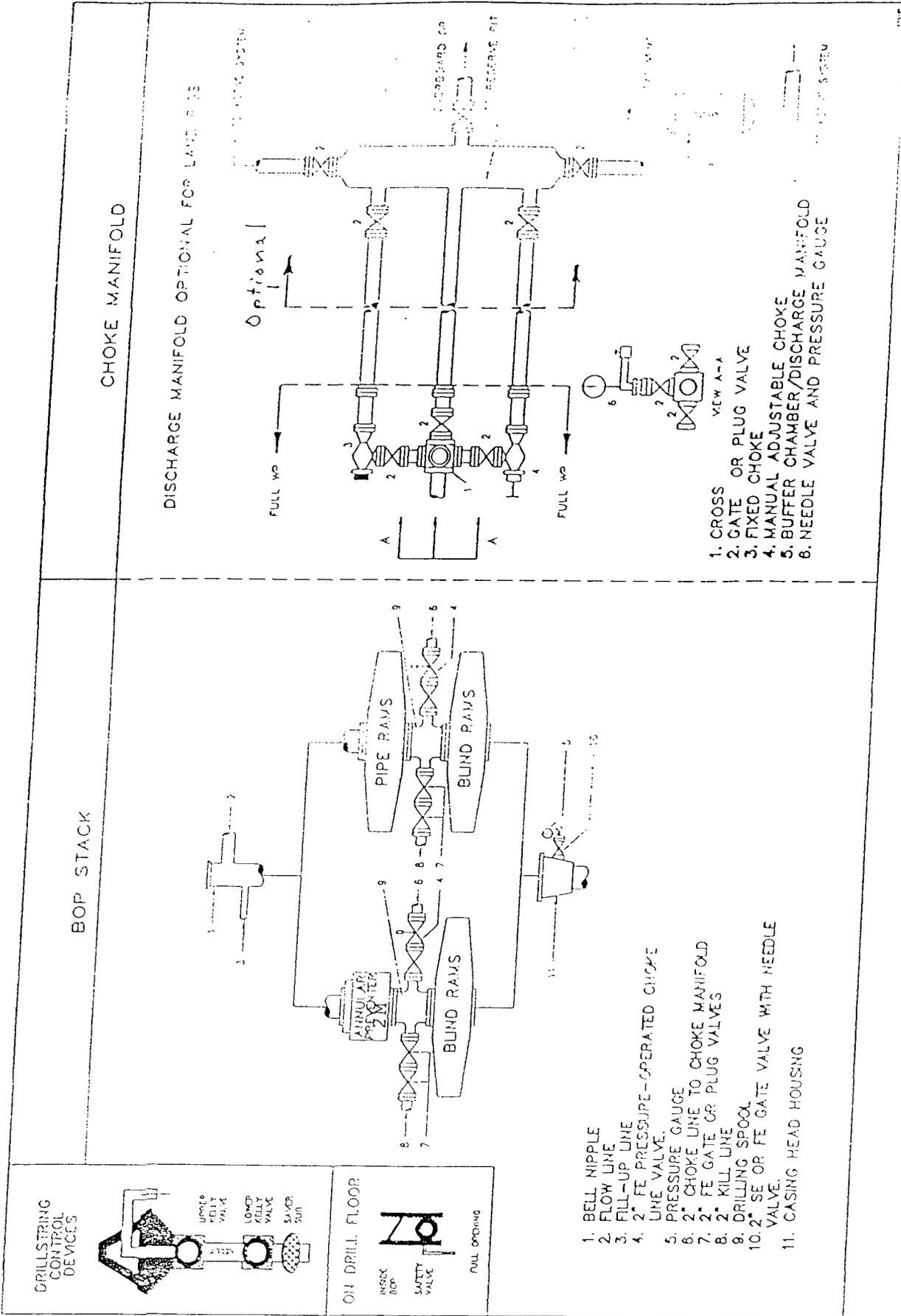
Safety valve (in open position) and subs to fit all drill strings in use (with handle available)

Pressure gauged on choke manifold

2 inch minimum choke line

Fill-up line above the uppermost preventer

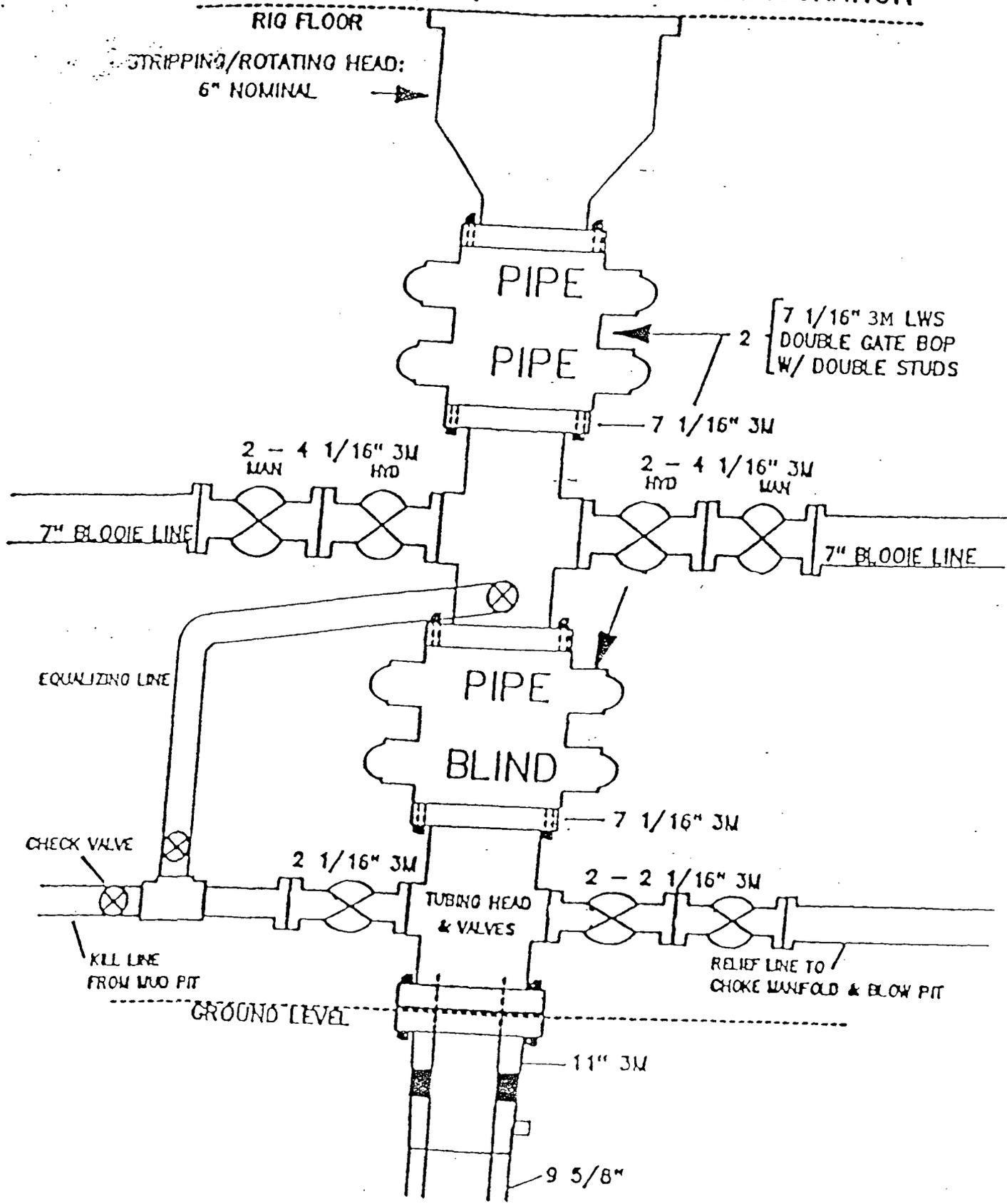
*The BOPs will be pressure tested according to Onshore Order #2 III, A 1 and 30% safety factor.*



- 1. BELL NIPPLE
- 2. FLOW LINE
- 3. FILL-UP LINE
- 4. 2" FE PRESSURE-OPERATED CHOKE LINE VALVE
- 5. PRESSURE GAUGE
- 6. 2" CHOKE LINE TO CHOKE MANIFOLD
- 7. 2" FE GATE OR PLUG VALVES
- 8. 2" KILL LINE
- 9. DRILLING SPOCK
- 10. 2" SE OR FE GATE VALVE WITH NEEDLE VALVE
- 11. CASING HEAD HOUSING

Fig. 2.4. Class 2 BOP and Choke Manifold.

# COMPLE. ON BOP/WELLHEAD CONFIGURATION



**WATER SUPPLY SOURCE**  
**Surface Use Plan**

**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, T29N, R9W.
2. 29-6 Waterhole in Unit L, Section 28, T29N, R6W.
3. Navajo Reservoir, SW NW SE Section 14, T30N, R7W.
4. Sims Mesa (SJ #14) NW SW Section 35, T31N, R7W.
5. La Jara Water Hole, Unit M, Section 11, T30N, R6W.
6. Pine River
7. City of Ignacio, CO.
8. Produced Water
9. City of Aztec, NM.

PROPOSED MUD PROGRAM  
 SAN JUAN 32-8 Unit  
 Well No. 247  
 San Juan County, NM

DEPTH	MUD WEIGHT	VISCOSITY	FLUID LOSS	CL-PPM	% SOLIDS	ADDITIVES
0 - 350' +/-	Spud Mud 8.5 - 8.7 ppg Lime and Gel	27 - 50	-	-	-	Bentonite & Lime
350' +/- to 3332' +/-	8.34 - 8.8 ppg	27 - 40	NC	1200 PPM	-	Water & Polymer

350' - 3332' +/- Clear water with Polymer sweeps as required to keep hole conditioned.  
 3332' - TD Circulate hole with produced water and air.

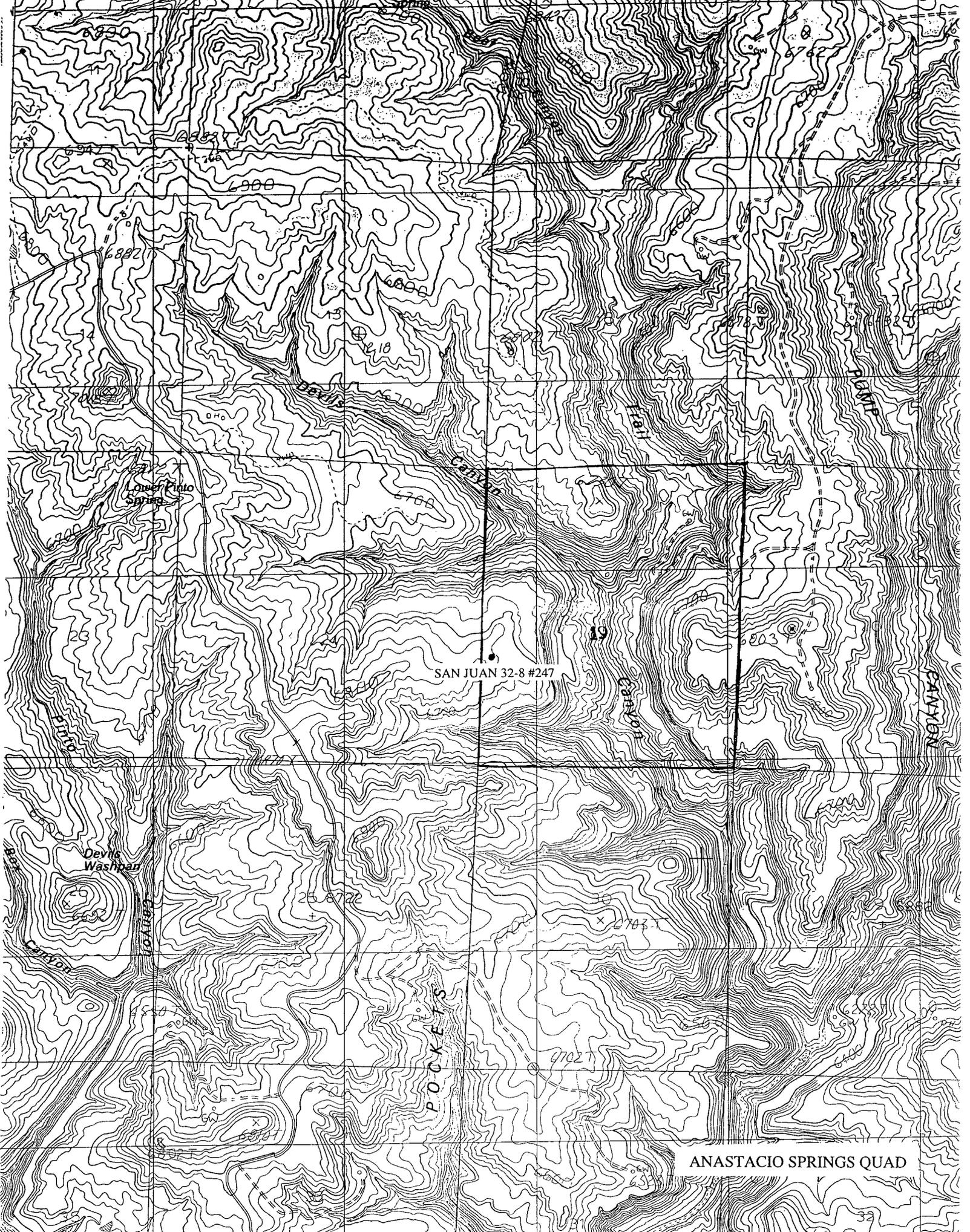
Note: Estimated BHP is 1300 psi

**San Juan 32-8 Unit #247  
SF-079353; Unit L, 1885' FSL & 185' FWL  
Section 19, T32N, R8W; San Juan County, NM**

**Cathodic Protection**

Phillips proposes to drill a cathodic protection deep well groundbed for the subject well. Will drill a 6-7/8" hole to an anticipated minimum depth of 300' (maximum depth of 500'). Cement plugs will not be used unless more than one water zone is encountered. Prior drilling history for the area indicates only one zone to that depth. If more than one water zone is encountered, notification will be made and details of cement and casing will be provided.

All drilling activity will remain on existing well pad and "Tierra Dynamic Company" of Farmington will be doing the drilling for Phillips.



SAN JUAN 32-8 #247

ANASTACIO SPRINGS QUAD

OFFSET OWNERS PLAT  
 FOR DRILLBLOCKS SURROUNDING W/2 SEC. 19-32N-8W  
 SAN JUAN COUNTY, NEW MEXICO

	13 PHILLIPS PETROLEUM	18 PHILLIPS PETROLEUM		17 PHILLIPS PETROLEUM
	24 PHILLIPS PETROLEUM	#247	19 PHILLIPS PETROLEUM	20 PHILLIPS PETROLEUM
	25 KOCH INDUSTRIES, INC	30 PHILLIPS PETROLEUM		29 PHILLIPS PETROLEUM

T32N-R9W

T-32N-R8W

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

03/03/99 18:40:05  
OGOMES -TPER  
PAGE NO: 1

Sec : 19 Twp : 32N Rng : 08W Section Type : NORMAL

1 16.56  Federal owned U	C 40.00  Federal owned U	B 40.00  Federal owned U	A 40.00  Federal owned U A A
2 16.09  Federal owned U	F 40.00  Federal owned U	G 40.00  Federal owned U	H 40.00  Federal owned U

PF01 HELP    PF02            PF03 EXIT    PF04 GoTo    PF05            PF06  
PF07 BKWD   PF08 FWD      PF09 PRINT   PF10 SDIV    PF11            PF12

$$\begin{array}{r} 56.56 \\ 56.09 \\ \hline 112.65 \\ 110.75 \\ \hline 223.40 \end{array}$$

$$223.40 / 320 = 69.8125\%$$

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

03/03/99 18:40:14  
OGOMES -TPEF  
PAGE NO: 2

Sec : 19 Twp : 32N Rng : 08W Section Type : NORMAL

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4 15.14  Federal owned U	N 40.00  Federal owned U	O 40.00  Federal owned U	P 40.00  Federal owned U

PF01 HELP    PF02            PF03 EXIT    PF04 GoTo    PF05            PF06  
PF07 BKWD    PF08 FWD       PF09 PRINT   PF10 SDIV     PF11            PF12

1  
55.61  
55.14  

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110.75