B. C. Brok

R-9305

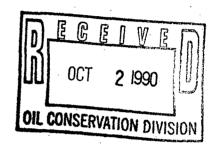
**EXPLORATION AND PRODUCTION GROUP** 

September 29, 1990

Non-Standard Location Request San Juan 32-7 Unit, Well No. 218 San Juan County, New Mexico

State of New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504-2088

Attention: Mr. William J. LeMay, Director

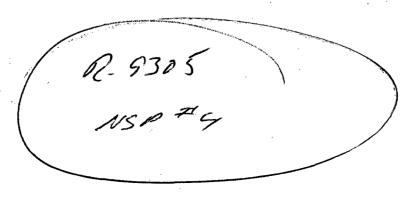


### Gentlemen:

Phillips Petroleum Company respectfully requests an exception to Rule 7 of the Basin Fruitland Coal Gas Pool Rules for a non-standard location, for the subject well, due to the topographical conditions in the southwest quarter of Section 5, and various archaeological sites near or around the proposed location. This request can be approved administratively under the provisions of Rule 8 of the Basin Fruitland Coal Gas Pool Rules.

This is a Federal Lease with both the minerals and the surface use managed by the United States Department of the Interior, Bureau of Land Management, Farmington Resource Area. The staked location was agreed upon by Bill Liess, Surface Inspector, BIM; Paul Colbert, Wildlife Biologist, BIM, and Gail Bearden, Phillips Petroleum Company employee. The staked location is 109' to near the south line of Section 5. The 320-acre proration unit is within the San Juan 32-7 Unit, and Phillips Petroleum Company operates all the offsetting proration units. There are no existing wells or access roads within the staking window in the southwest quarter of Section 5.

- 1. Complete APD packet dated September 20, 1990, with all necessary attachments.
- 2. Archaeological report prepared by La Plata Archaeological Consultants.
- 3. A copy of a portion of the Burnt Mesa Quadrangle topographical map showing Section 5.
- 4. A certified statement that the information is current and correct.



Mr. William J. LeMay, Director Non-Standard Location Request San Juan 32-7 Unit, Well No. 218 San Juan County, New Mexico September 29, 1990 Page 2

The above attachments will provide all of the information requested in Mr. W. J. LeMay's memorandum dated March 21, 1990. If any additional information is required, please contact me at the letterhead address or telephone (915) 368-1488.

Sincerely,

L. M. Sanders, Supervisor Regulation and Proration

LMS:jh SJ32-7.218

**Attachments** 

cc: United States Department of the Interior
Bureau of Land Management - Farmington, New Mexico
Oil Conservation Division - Aztec, New Mexico

### ATTACHMENTS

# (As Requested)

# SAN JUAN 32-7 UNIT, WELL NO. 218

- I. The APD package.
- II. See APD package.

0

III. See C-102 and attached copy of topographic map.

A. Information on topographic map.

B. I hereby certify the information is current and correct to the best of my knowledge and ability.

Signed: J.M. Sanders

Name: L. M. Sanders
Date: September 29, 1990

- IV. Copy of a portion of the Burnt Mesa Quadrangle topographical map.
  - A. Shown on map.
  - B. Shown on map.
  - C. There are no existing wells located in the southwest quarter of Section 5 to use as a twin location.
- V. Enlargement of the topographic map provided.
  - A. Within the window, the terrain varies in elevation from 6400' to more than 6700'. To clear the archaeological sites and find enough room to build a drilling pad would require enormous cuts and fills.
  - B. The proposed access road will be approximately 2400' in length and is laid out in an area that will minimize surface damage. The proposed location and access road is within the BLM Wildlife Area, and this was also a consideration in staking the proposed location and access road.
  - C. BLM Wildlife Area. (Same as "B" above.)
  - D. See Archaeological Report.
  - E. Described above.
- VI. See Archaeological Report.
- VII. See Surface Use Plan in APD packet.
- VIII. The additional expense required to drill a deviated hole to reach a standard location in an area of unknown coal gas development would make the well uneconomical to drill.
  - IX. Phillips Petroleum Company operates the offset proration units; therefore, no notices to offset operators is necessary.

7 orm 3160-3 (November 1983) (formerly 9-331C)

CONDITIONS OF APPROVAL, IF ANY:

# UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

•	BUREAU OI	F LAND MANA	GEMEI	NT	4	SF-078996	AND BELIAL NO.
APPLICATION	ON FOR PERMIT	TO DRILL,	DEEP	EN, OR PLUG E	BACK	6. IF INDIAN, ALLOTTI	S OR TRIPE NAME
1a. TYPE OF WORK						?. UMIT ACREEMENT	J.7.J.
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b. Tips of Well oil	WELL X OTHER			INGLE X MULTIP	, La [	San Juan 32	
2. HAMB OF OPERATOR	WELL A OTHER			ENOS LAJ ENO		0. JANE OF PRISE N	
-	etroleum Compan	ıv			-	9. WELL NO.	
S. ADDRESS OF OPERATE		•1				218	
300 W. Arri	ington, Suite 2	00, Farmin	ator	n, NM 87401	ŀ	10. FIELD AND POOL	OR WILDCAT
4. LOCATION OF WELL At SUFFEE	(Report location clearly an	d in accordance wi	th any	State requirements.*)		Basin Fruit	land Coal Ga
Unit N, 68 At proposed prod.	31' FSL & 1311'	FWL				11. SSC., T., R., M., OR AND SURVEY OR A	BEA.
	31' FSL & 1311'	FWL		•		Sec. 5, T-3	1-N, R-7-W
14. DISTANCE IN MILE	S AND DIRECTION FROM NE.	ARSET TOWN OR POS	T OFFIC			12. COUNTY OR PARISE	18. STATE
	•					San Juan	NM
18. DISTANCE FROM PRILOCATION TO NEAR	OPOSED*		16. ×	O. OF ACRES IN LEASE	17. NO. 0	F ACRES ASSIGNED	
	n Line, Fr. irig. unit line, if any; 681	' FSL	253	37.37	320 A	VELL 	
18. DISTANCE FROM PI	ROPOSED LOCATION		19. P	MOPOSED DEPTH	20. BOTAR	T OR CABLE TOOLS	
OR APPLIED FOR, ON	, drilling, completed, this lease, etc. 3866	' from #18	340	001 (+)	Rotary	7	
21. ELEVATIONS (Show	ubether DF, RT, GR, etc.)	····				22. APPROX. DATE W	DRE WILL STARTS
6647' (GL	Unprepared)					Upon Appro	val
23.		PROPOSED CASI	NG AN	D CEMENTING PROGRA	AM .		
SIRE OF HOLE	SIEB OF CARING	WEIGHT PER P	OOT	SETTING DEPTH	1	QUANTITY OF CEME	XT
12-1/4"	9-5/8"	36#, K-55	5	250'	250 sx	s, Circ to	Surface
8-3/4"	7"	23#, K-55	5	3240'	650 s	s, Circ to	Surface
6-1/8"	5-1/2"	15.5# or	23#	3140'-3400'	*	<del>- 1</del>	
without beir *If the coal J-55 liner w	l is cleated, and cemented.  I is not cleate  Vill be run wit	d, the wel hout being	l wi	ll be stimula mented.		•	
Un	orthodox	Noca	tu	il	· .		
					•		•
Mud Program	and BOP Equipm	ent: See	Atta	ched			
IN ABOVE SPACE DESCR sone. If proposal is to preventer program, if	IBE PROPOSED PROGRAM: If to drill or deepen direction any.	proposal is to deep ally, give pertinent	pen or j t data c	plug back, give data on p on subsurface locations ar	resent produ nd measured	ctive sone and propose and true vertical depti	ed new productive hs. Give blowout
24. 810 NBO	n Sande	<u> </u>	Su	pv., Regulato	ry Affa	irs 9/20,	/90
(This space for Fe	ederal or State office use)						
PSRNIT NO				APPROVAL DATE			
APPROVED BY			rl8			DATE	

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

# State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

# OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Anesia, NM 88210

DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240

DISTRICT III
1000 Rio Brazos Rd., Aziec, NM 87410

# ... WELL LOCATION AND ACREAGE DEDICATION PLAT

			All Dis	tances must be		mer doundar	hes of the	section			· .
Operator			ETROLEU		Lease S	AN JU	AN 3	32-7		Well No.	218
Unit Letter	Section	•	Township.31	N.	Range	R.7	W.	NMP	SAN C	JUAN	COUNTY
Actual Ecocyae	feet fro	om the	SOUTH	line and		1311		feet from	m the WEST	lin	
Ground level El	4	Fruitl	g Formation		Pool.	n Fruit	1	Co ol		320	Acreage:
1.0	itline the acri		d to the subject we	Il by colored pen						1 220	Acres
2 lf :	more than on	e lease is ded	licated to the well,	outline each and	identify the	ownership the	reof (bod	h as to work	cing interest and	royalty).	
			ferent ownership is	dedicated to the	well, have th	e interest of	all owner	s been coos	olidated by com	กามข่านระบ่อด	•
i	ijiµion, forc ∆A Yes	· · ·	No If an	swer is "yes" typ	e of consolid			zation		~	
this fo	orm if pecces	sary.	and tract descript								
			o the well until all minating such inten				unitizatio	n, unitizatio	on, forced-poolin	g, or otherw	ise)
		:				. <i>•</i>	,		I hereby contained herei best of my browl	certify the	TIFICATION  as the information and complete to the lief.
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									Lanc	s Susveyor	

### SURFACE USE PLAN

Phillips Petroleum Company, San Juan 32-7 Unit, Well No. 218, SN/4 SN/4, Section 05, T-31-N, R-7-W, San Juan County, New Mexico. (Lease No. SF-078996.) This plan is to accompany "Application for Permit to Drill" the subject well which is located approximately 20 miles east from Bondad, 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. Existing Roads:

A. To reach the proposed location, start from Farmington, N.M. take N.M.

550 approximately 22 miles to Bondad, N.M.. Turn right on Highway 310

and travel approximately 16 miles to Colorado 172. Follow Highway 172 to

Colorado County Road 328. Turn right and follow 328 until it changes to NM

County Road 4010. There will be 2400' of new access.

# 2. Planned Access Roads:

- A. The access road is shown on the attached map. The new location will exit from an existing access road and will require approximately 2400' of new access. 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 "Temporary Resource Road."
- B. Turnouts: None.
- C. <u>Drainage Design: The present drainage will be maintained for the existing access road.</u> After Well No. 218 is completed, a diversion cut will be placed below the cut on the west side with drainage to the south.

  Round off the NW corner to save fill.
- D. <u>Culverts, Cuts and Fills:</u> A 24" culvert will be installed at the access entrance. See Cut and Fill Sketch.
- E. Surfacing Material: Natural materials at well site.
- F. <u>Gates, Cattle Guards, Fences:</u> The new access will need to have a wing fence and a gate will need to be installed.
- G. Proposed Road: Approximately 2400' of new access will be required.
- 3. Locations of Existing Wells: Well NO. 18, 2225' FSL & 400' FEL
- 4. <u>Locations of Tank Batteries, Production Facilities, Production Gathering, and Service Lines:</u> 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. To protect livestock and wildlife, the reserve pit will be fenced with wire mesh. The condensate tanks will be enclosed by a dike. Upon

# Surface Use Plan--San Juan 32-7 Unit Well No. 218.

### Page: 2.

completion of drilling, the location and surrounding area will be cleared of debris. The flow-line from Well No. 218 will follow the proposed access road to the tie-in point where the new access exits form the existing road.

- 5. Water Supply Source: Will be provided by the drilling contractor and trucked to the drilling site. See Attachment No. 1 WATER SUPPLY SOURCE.
- 6. Source of Construction Materials:

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

- 7. Methods for Handling Waste Disposal:
  - A. 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. <u>Well Site Layout:</u> Attached sketch shows the relative location and dimensions of the well pad, mud pit, reserve pit, and trash pit. Location will be 230' X 300'.
- 10. Plans for Restoration of Surface:

Pit will be back filled and levelled as soon as practical to original condition. If well is productive, drilling pad will remain as well service pad. If dry hole, the pad will be ripped per regulations. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be completed within 60 days from commencement. Pit dirt will be saved to be used during restoration of the pit area.

# Surface Use Plan-San Juan 32-7 Unit Well No. 218.

Page	: 3.
	Other Information:
	A. Terrain: See Archaeological Survey
	B. Soil: See Archaeological Survey
	C. Vegetation: See Archaeological Survey
	D. Surface Use: <u>See Archaeological Survey</u> E. Ponds and Streams: <u>See Archaeological Survey</u>
	F. Water Wells: No water wells are located in Section 05
	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:
	Production and Drilling or R. A. Allred
	A. R. Lyons 300 West Arrington, Suite 300
	300 West Arrington, Suite 300 Farmington, New Mexico 87401
	Farmington, New Mexico 87401 Phone: 505-599-3403
	Phone: 505-599-3401
	Confirm Committee The confirm committee in Table 1
13.	Surface Ownership: The surface ownership is Federal.
11	Certification:
14.	<u>Certification.</u>
,	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.
	L. M. Sanders OM Sanders
	Typed or Printed Name Signature

surf327z.lar

<u>September 20,</u> Date

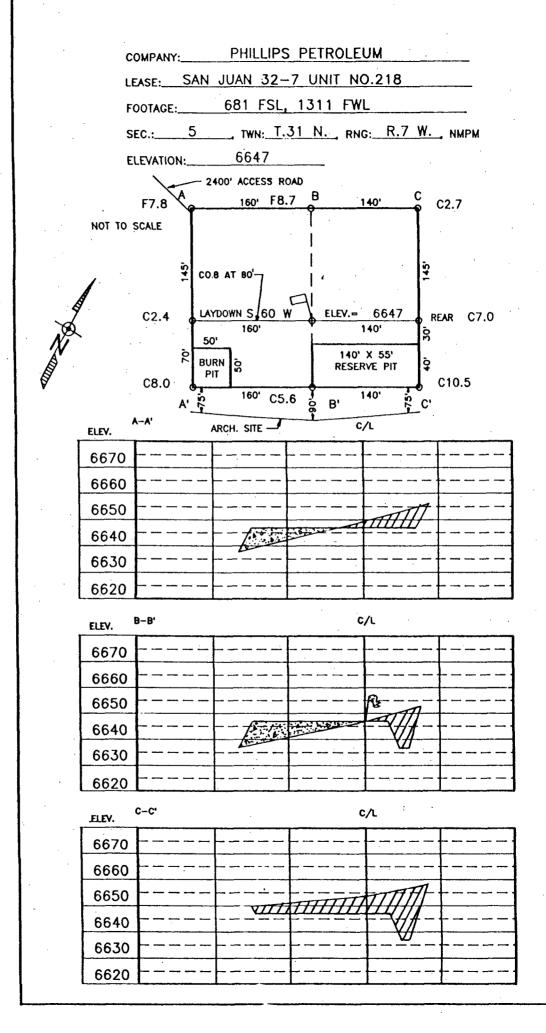
# WATER SUPPLY SOURCE Surface Use Plan San Juan 32-7 Unit

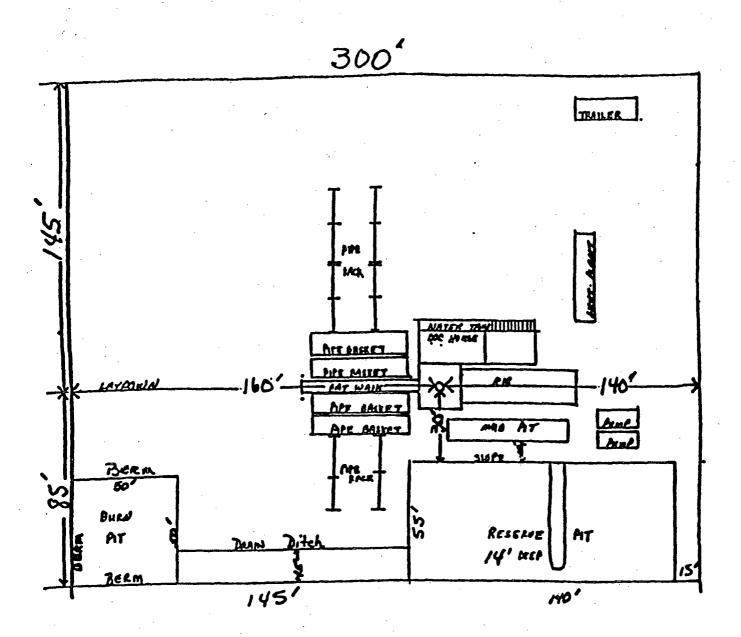
# Attachment No. 1

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

- 1. Navajo Reservoir, SW NW SE Section 14, T-30-N, R-7-W.
- 2. Middle Mesa (S.J. #12) NE SW Section 5, T-30-N,R-7-W.
- 3. Pine River in Colorado
- 4. City Water, Ignacio, Colorado.

watsup4.lar





# PHILLIPS PETROLEUM COMPANY

Well Name: San Juan 32-7 Unit Well No. 218

9.

Cement Program:

Preliminary 9-18-90

DRI	ILLING PROGNOSIS			
1.	Location of Proposed 1	Well: <u>681' FSL &amp;</u> <u>R-7-W, Sar</u>		n 5, T-31-N,
2.	Unprepared Ground Elev	vation: <u>6647</u> ,	<b>.</b>	
3.	The geologic name of	the surface forma	tion is <u>San Jose.</u>	
4.	Type of drilling tools	s will be rotary.		
5.	Proposed drilling dep	th is <u>3400</u>	•	
6.	The estimated tops of	important geolog	ic markers are as f	ollows:
	Ojo Alamo - Kirtland - Fruitland - Top Coal -	2270' 2425' 3210' 3260'	Base Coal - Picture Cliffs - Int. Csg T.D.	3344' 3458' 3240' 3400'
7.	The estimated depths a bearing formations are			
	Oil: 1	Ojo Alamo - None Fruitland Coal -	2270' - 2425' 3260' - 3344'	
8.	The proposed casing pr	rogram is as foll	ows:	
	Intermediate String _			140!-3400!

Surface String = 250 sxs (295 cu ft) CL "B" W/3% CaCl2 & 1/4# Cele-

Intermediate String = Lead cmt. 500 sxs (1035 cu ft) Cl "B" 65/35 POZ

w/12% Gel & 1/4# Cele-Flake/sx.

surface.

Flake/sk or quantity sufficient to circulate cement to

San Juan 32-7 Unit Well No. 218

Page 2.

Intermediate String (Continued)

# Tail. 150 sxs (177 cu ft) Cl "B" w/1/4# Cele-

# 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.

# Flake/sk

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 a 5-1/2", 15.5#, J-55 liner will be run.
- 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.

.2.	The testing, logging, and coring programs are as follows: D.S.T.'s or cores: None
	Logs: GR-D-N-NGT-ML
	Special Tests: None

- 13. Anticipate no abnormal pressures or temperatures to be encountered or any other potential hazards such as Hydrogen Sulfide Gas. Low risk  $\rm H_2S$  equipment will be used.
- 14. The anticipated starting date is immediately upon approval with duration of operations for approximately 30 days thereafter.

drlpr191.lar

Revised 5/30/90

PROPOSED MUD PROGRAM
San Juan 32-7 Unit
Well No. 218
San Juan County

DEPTH 0-250 Ft.	MUD WEIGHT	VISCOSITY	FLUID LOSS	CL-PPM % SOLIDS	4	* SOLIDS ADDITIVES
0-250 Ft.	Spud Mud Lima and Gel					
250-3000 Ft.	8.0-9.0 PPG	45-65 Sec/Qt	8-10CC	ი ი	С 1200 РРМ	
3000-TD	9.5-10.0 PPG	35-50 Sec/Qt	6-8CC		Ω	C Low Solids Drispac, Soda Ash Caustic Soda Rentonita

Fresh water mud with CaCo3 & Polymer, low solids. to control well. Mud Wt. 9.5 to 10.0 PPG, as necessary

Polymer mud and water with sweeps every 500' or less if hole conditions dictate.

250-3000'

Start mud up 100' above Fruitland

# BLOWOUT PREVENTER REQUIREMENTS

				• •		
Well	Name:	San Juan	32-7 Un	it No.	218	•

- I. Blowout preventer equipment, installation, testing and responsibilities will be in accordance with Phillips Petroleum Company's Blowout Preventer Standards.
- II. Figure No. <u>7-9 or 7-10</u> (Drawing Attached): Casing String <u>9 5/8"</u> surface BOP Size <u>10"</u>; Working Pressure <u>3,000</u> psi.
- III. Equipment to be furnished by Contractor:
  - A. Ram Type BOPs:
    - 1. No. Required 2
      - . Acceptable Manufacturers & Types
        - a. Cameron Iron Works: QRC; F; SS; U
        - b. Shaffer Tool Works: B; E; LWS; LWP
        - c. Hydril
  - B. Annular Type BOPs:
    - 1. No. Required <u>None</u>
    - Acceptable Manufacturers & Types
      - a. Hydril GK
      - b. Shaffer Spherical
      - c. Cameron D
  - C. Preventer Operating Equipment
    - Hydraulic Pump air, steam or electrically operated of sufficient volume and pressure capacity to close the largest ram type preventer in less than 30 seconds. Electrically operated pump must be equipped with explosion proof motor and controls.
    - 2. Manifold with a control valve for each preventer.
    - 3. A Hydril or equivalent regulator for each annular type preventer.
    - 4. Accumulator of sufficient volume and pressure capacity to close all preventers in the assembly without recharging. If the pump in C.1. is incapable of recharging the accumulator in excess of 1500 psi, a separate pump capable of this is to be furnished.
    - Remote control panel with a station for each preventer control valve.
    - 6. Steel piping to connect hydraulic closing units to preventers.
    - 7. Choke manifold with seamless steel piping and flanged or clamp hub connections. Choke manifold assembly and piping sizes as specified, on the attached drawing. All working lines, except hydraulic closing lines, shall have flanged or clamp hub connections to preventers, spools and casing heads.
    - 8. Full opening drill string safety valve (I.D. equal or larger

# Blowout Preventer Requirements Page 2

# III. C. (continued)

- than I. D. of tool joint in use). Working pressure to equal or exceed specified BOP working pressure. O.D. and configuration such that valve can be run in the hole with adequate clearance.
- 9. Full opening upper Kelly cock. Working pressure to equal or exceed specified BOP working pressure.
- 10. Hydraulic pump of sufficient pressure rating to test preventer assembly to rated working pressure with necessary hose and fittings to connect the pump to drill pipe box or safety valve pin.
- 11. Drilling spool for use with single ram type preventers or with dual ram type preventers which do not have outlets between the rams.
- 12. Two valves on each side of drilling spool or dual preventers, one side for choke manifold connection and the other for kill line connection.
- 13. Hand wheels and extensions for manual operation of the ram type preventers. U-joints, extension guides, working platform(s) as necessary.
- 14. A 1" 5000 PSI WP plug valve on the closing side of the annular type preventer using a XXE 1" x 4" nipple.
- 15. Flowlines from choke manifold to pits.
- 16. Pressure gauge with pressure range at least equivalent to BOP WP.

# IV. Equipment to be Furnished by Phillips:

- A. Test plug to seat in casing head.
- B. Remote controlled chokes, if installed.
- C. Casinghead with valves on outlets.
- D. Inside blowout preventer, if required.
- E. Mud-gas separator, if required, and necessary piping.

# V. Location of Equipment & Controls:

- A. Remote control panel on the rig floor adjacent to drillers position and stairway exit from the floor.
- B. <u>Accumulator-Hydraulic Control Valve Unit</u> to be placed minimum of 50 feet from wellbore in easily accessible location.
- C. <u>Choke Manifold</u> located 5 feet or more from the BOPs with minimum number of turns in the run.
- D. <u>Manual closing facilities</u> installed so handwheels are outside the substructures in unobstructed location. U-joints, extension

# Blowout Preventer Requirements Page 3

# V. (Continued)

guides and working platforms installed as necessary for proper and safe operation.

- E. Choke Manifold connection, where possible, is to be made between the two bottom ram type preventers through use of a drilling spool or by connecting between rams of dual type units with outlets so installed.
  - 1. On dual type preventers where outlets are not installed between rams, connection is to be made to a drilling spool installed between the ram type and annular type preventers.
- F. Position and Type Rams will be as shown on the attached drawing.
- G. Fill up line to be tied into the bell nipple above annular preventers.
- H. <u>Safety Valve</u>, open with connections and/or subs available to fit any tool joint in use, shall be on the rig floor at all times.

# VI. Testing

# A. <u>Initial Installation Test</u>

Immediately after installation, each component part of the blowout preventer assembly including choke lines, valves and closing facilities will be tested individually by steps as outlined in the Blowout Preventer Testing Procedure section of Phillips' Blowout Preventer Standards. The test pressure will be at the working pressure specified in Item II. All components must be satisfactorily tested before drilling out.

### B. Ram Change or Repair Test

- After each ram change or when any component part of the preventer assembly, including lines and valves, is disturbed, the disturbed portion is to be tested to working pressure specified in Item II.
- Installation of casing rams is not required for running casing.

# C. Weekly Pressure Test

The first trip out of the hole after 12:01 AM, Tuesday, weekly test will be performed as outlined in the Blowout Preventer Testing Procedure which includes testing the entire assembly with water to 1/2 the specified working pressure for 10 minutes. The Kelly cock and safety valve are to be tested to the specified working pressure. The weekly test is not required where the test falls within three days after the initial installation test. Upper kelly cock valve with handle available.

# D. Operational Test

Each preventer unit is to be closed and opened on each trip or

# Blowout Preventer Requirements

# Page 4

# VI. D. (continued)

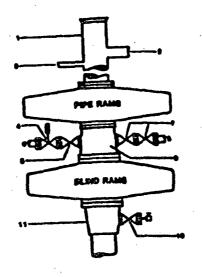
at least once each 48 hours (trip is not required just to actuate blind rams or pipe rams that do not fit top section of tapered string).

# VII. Responsibilities

- A. Contractor is to install and test the blowout preventer assembly as specified.
- B. The driller is to check and record the accumulator pressure on the daily drilling report at the beginning of each tour.
- C. Expense of rig time and pressure testing services for initial and weekly tests will be borne by:
  - 1. Contractor while on footage contract.
  - Owner while on daywork contract.

# FIELD PRACTICES AND STANDARDS

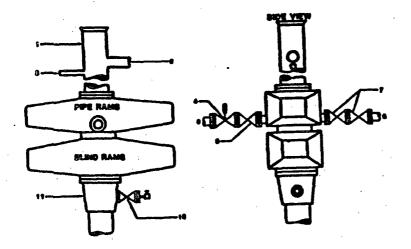
# ALTERNATIVE



- 1. BELL NOTLE
- 2. FLOW LINE
- FILLUP LINE
- 2" PE PRESSURE OPERATED CHOKE LINE
- IF PE GATE VALVE
- 2" FE CHOKE LINE TO MAKIFOLD
- 7. 2" PE GATE VALVES
- 8' S. LE KITT FINE
- A. 2" 82 OR FE GATE VALVE WITH NEEDLE
- VALVE
- 11. CARING HEAD HOUSING

NOTE: THE DRILLING SPOOL MAY BE LOCATED BELOW BOTH SETS OF RAME IF A DOUBLE PREVENTER IS USED AND IT DOES NOT HAVE SUITABLE OUTLETS BETWEEN RAMS

Figure 7-9. Standard Hydraulic Blowout Preventer Assembly 3 M Working Pressure Alternative 1



- PLOW LINE PILLUP LIN
- FE PRESSURE OPERATED CHOKE LINE
- 2" FE GATE VALVE
- 2" FE CHOKE LINE TO MANIFOLD
- . 2" PE GATE VALVES
- B. 2" SE OR PEGATE VALVE WITH NEEDLE

11. CASING HEAD HOUSING

Pigure 7-10. Standard Hydraulic Blowout Preventer Assembly 3 M Working Pressure Alternative 3 (without Drilling Spool)

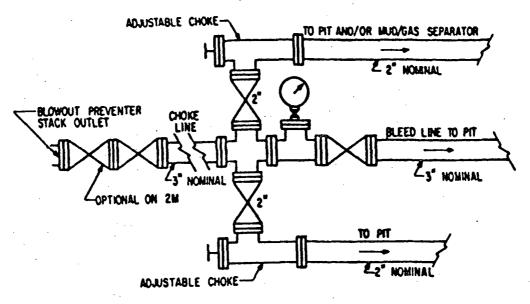
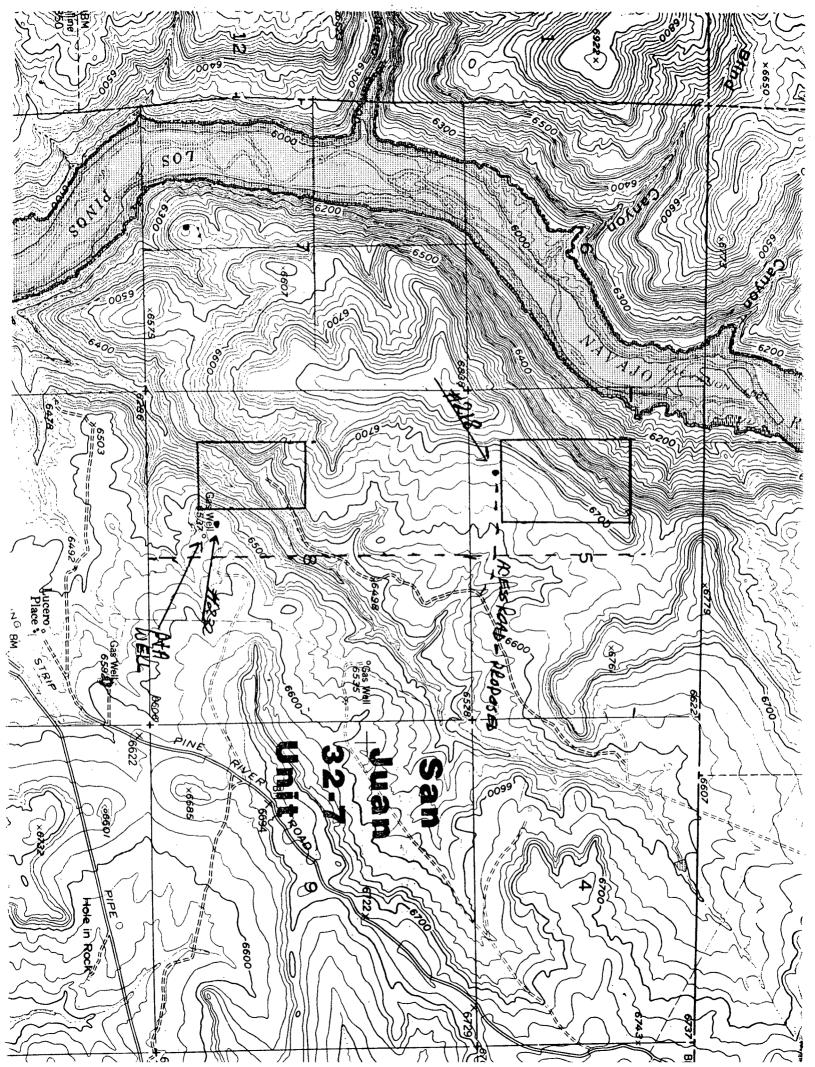
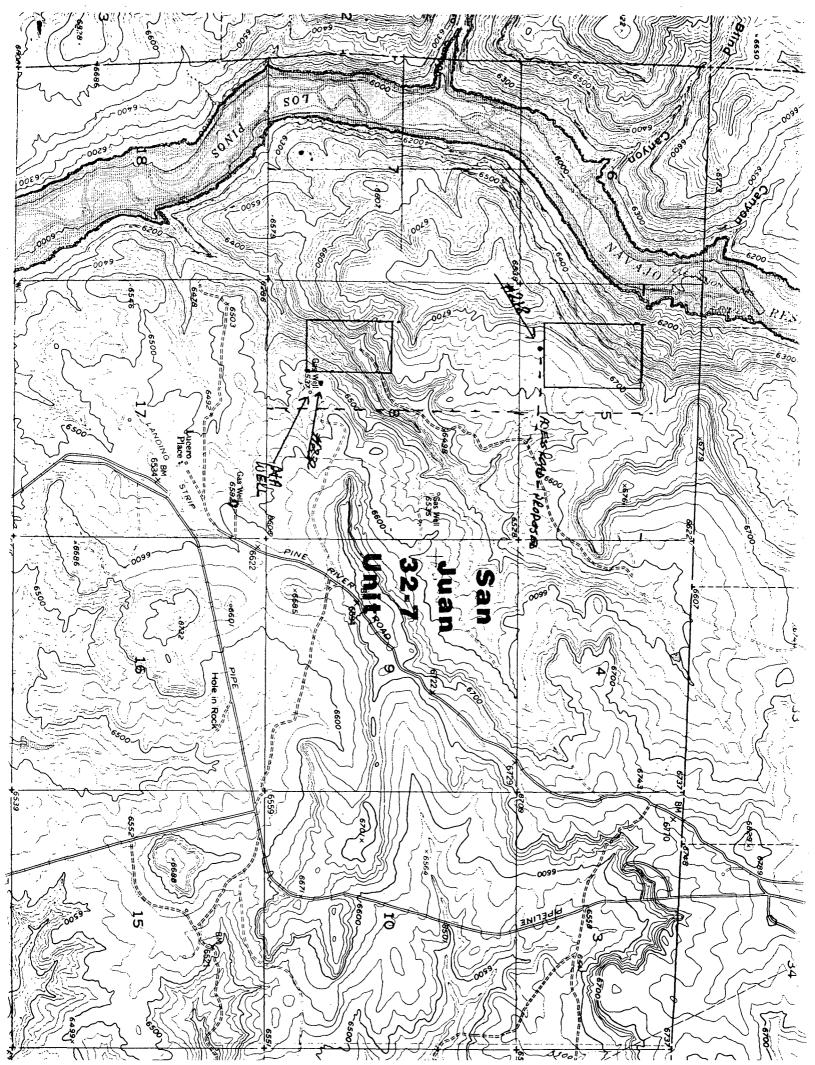


FIG. 3.A.1

TYPICAL CHOKE MANIFOLD ASSEMBLY FOR 2M AND 3M RATED WORKING PRESSURE SERVICE — SURFACE INSTALLATION





# ARCHAEOLOGICAL SURVEY OF PHILLIPS PETROLEUM'S ABANDONED AND RELOCATED SAN JUAN 32-7 UNIT #218 WELL PAD AND ACCESS ROAD SAN JUAN COUNTY, NEW MEXICO

# LAC REPORT 9046g

by

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New Mexico Cultural Resource Use Permit 19-2920-90-I

September 6, 1990

Prepared For:

Phillips Petroleum 300 West Arrington, Suite 200 Farmington, New Mexico 87401

# INTRODUCTION

The archaeological survey of Phillips Petroleum's abandoned and relocated San Juan 32-7 Unit #218 well pad and access road was conducted by personnel of La Plata Archaeological Consultants on July 10 and August 12, 20, and 24, 1990. The fieldwork was conducted by Fred Harden and Steve Fuller, and the project was administered by Steven Fuller. The survey was conducted at the request of Mr. Larry Sanders, of Phillips Petroleum. Various Phillip's representatives, accompanied the archaeologists during the fieldwork phases of the project. Personnel of Daggett Land Surveying staked the proposed well location.

The project is on lands administered by the Bureau of Land Management's Farmington Resource Area and is within San Juan County, New Mexico (Fig. 1). All work was conducted under the authority of New Mexico Cultural Resource Use Permit No. 19-2920-90-I issued to La Plata Archaeological Consultants.

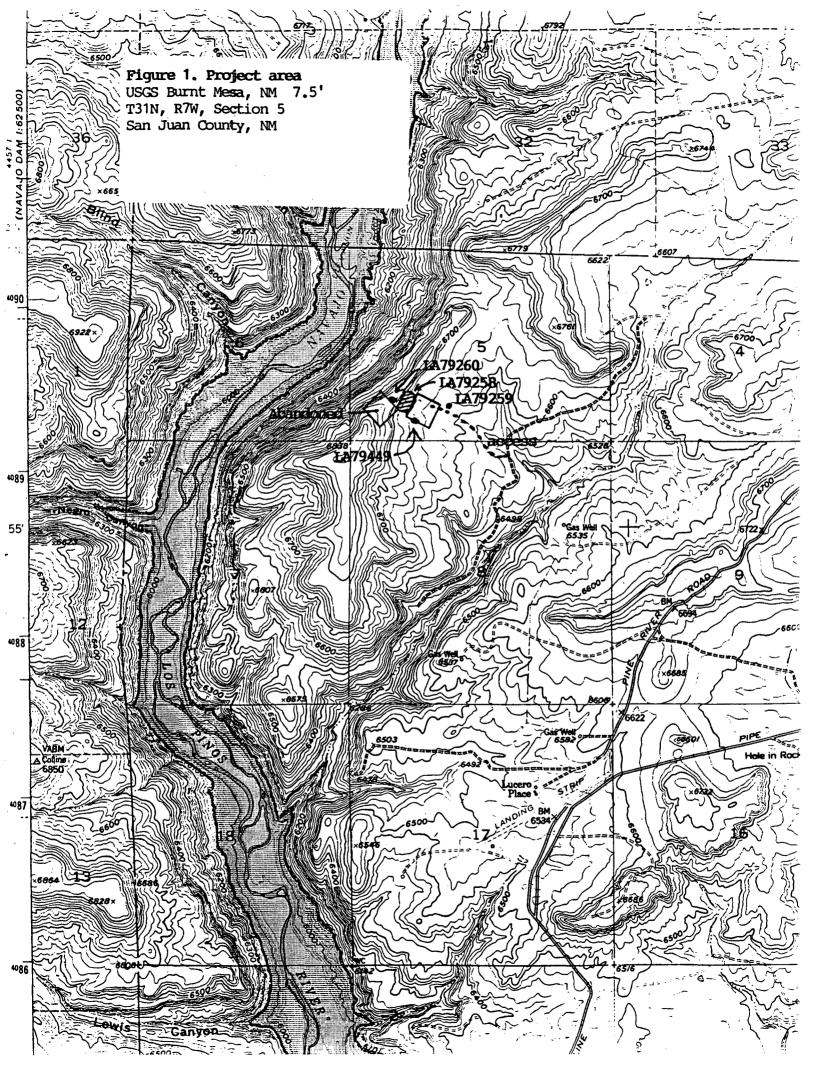
The area was surveyed for an original well pad proposed by Phillips Petroleum. The area was originally examined and found to contain one avoidable archaeological site in the vicinity of the proposed well pad. The pad was moved about 1000 feet east due to topographic concerns, and a new location was staked. The second location was subsequently found to be staked on an archaeological site and the location was moved northeast about 75 feet to avoid the site. Access to the final well pad location will require 2400 ft of new access. For this project, approximately 23.65 acres were intensively surveyed. During the survey, four archaeological sites were encountered within the various survey areas. Each has been avoided and can be protected and; archaeological clearance is recommended for the project.

# PREFIELD RECORDS SEARCH

The recently updated ARMS records on file at La Plata Archaeological Consultants were consulted, as well as a recent copy of the BLM data base map for this area. Numerous well pad surveys were conducted within 1 mile of the proposed project area. Only two previously recorded sites are within 0.5 mile of the proposed project area and both lie beneath Navajo Reservoir (Figure 1a, included only with BLM copies of the report).

# FIELD METHODS

Prior to the survey, the original proposed well pad was marked at the center, the four corners, and the four centerline endpoints. A 7.1-acre block (600 by 515 ft) was surveyed centered on the well center stake, which was sufficient to cover the 300- by 215-ft well pad, 50-ft construction zone, and at least a 100-ft buffer for cultural resources. No access road was surveyed due to the topography and the location was moved east onto a lower bench. The second location was surveyed using the same methods and was revisited twice to resize the pad and make minor



adjustments in order to avoid several sites near the final location. A 150 by 2400 foot access corridor was surveyed leading to the final location. The blocks and corridor were surveyed using pedestrian transects which were no farther than 15 m or 50-ft apart. The extent of the surveyed area is illustrated on Figure 1.

The four sites were recorded on a Laboratory of Anthropology site forms, photographed, and mapped.

# **ENVIRONMENT**

The final survey area is on a alluvial fan sloping to the east at the base of a steep sandstone cliff and is east of the Navajo Reservoir. The area is a pinyon-juniper woodland with sagebrush, serviceberry, and grasses. Soils are sheet-washed sand and are moderately deep.

# PROJECT LOCATION AND DESCRIPTION

Project Name:

Phillips Petroleum's San Juan 32-7 Unit #218 well pad.

Legal Description:

T31N, R7W, Section 5, E 1/4 SW 1/4 SW 1/4. The actual footage of the location is 681 FSL, 1311 FWL; San Juan County, New

Mexico, (see Fig. 2, well plat).

Elevation:

6647 ft

Map Reference:

USGS Burnt Mesa, New Mexico, 7.5' (1971)

Land Jurisdiction:

Bureau of Land Management, Farmington Resource Area

Project Area:

The well pad will measure about 300 by 215 ft. Access will require

construction of 2400 ft of road.

Surveyed Area:

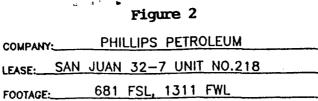
600- by 515-ft block (7.1 acres) for final well pad, 50 foot construction zone and 100 foot buffer zone. The well pad was moved 75 feet to avoid a site and an additional 75 by 565 ft area was examined (1.0 acre). Access will be from an existing roadway which is 2400 feet to the southeast (8.25 acres). The original well pad survey area measured about 600 by 230 feet (7.3 acres). Total area

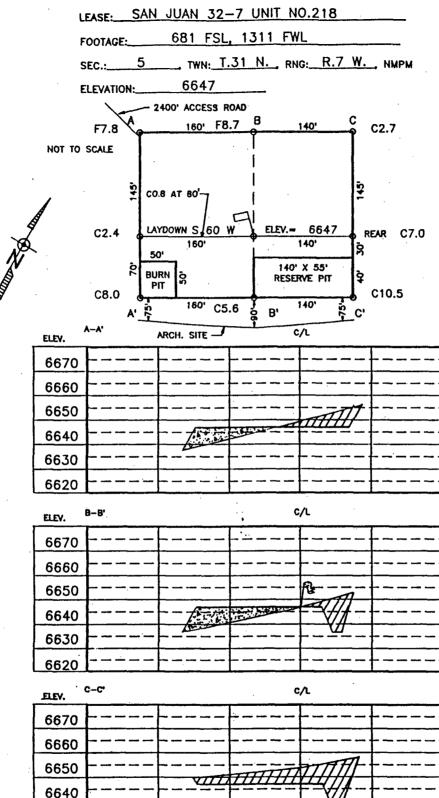
surveyed: 23.65 acres.

Results:

Four archaeological sites were recorded within the various survey areas. One site is in proximity to the abandoned well location, one is north of the final access road, and two are close to the final well location (acc. Appendix 1. PLM copies only)

location (see Appendix 1, BLM copies only).





# RECOMMENDATIONS

Four archaeological sites (Site LA79449, LA79258, LA79259, LA79260) were encountered within the survey area. The site-by-site management recommendations area as follows:

LA79258: This site is 75 to 90 feet northwest of the final well location and can be

protected by placing a protective fence along the edge of the pad as

indicated on Figure 3.

LA79259: This site is located approximately 80 feet north of the final access route and

can be protected by placing a protective fence along the north edge of the

road only during initial road clearing activities (Figure 4).

LA79260: This site is north of the abandoned location and requires no further

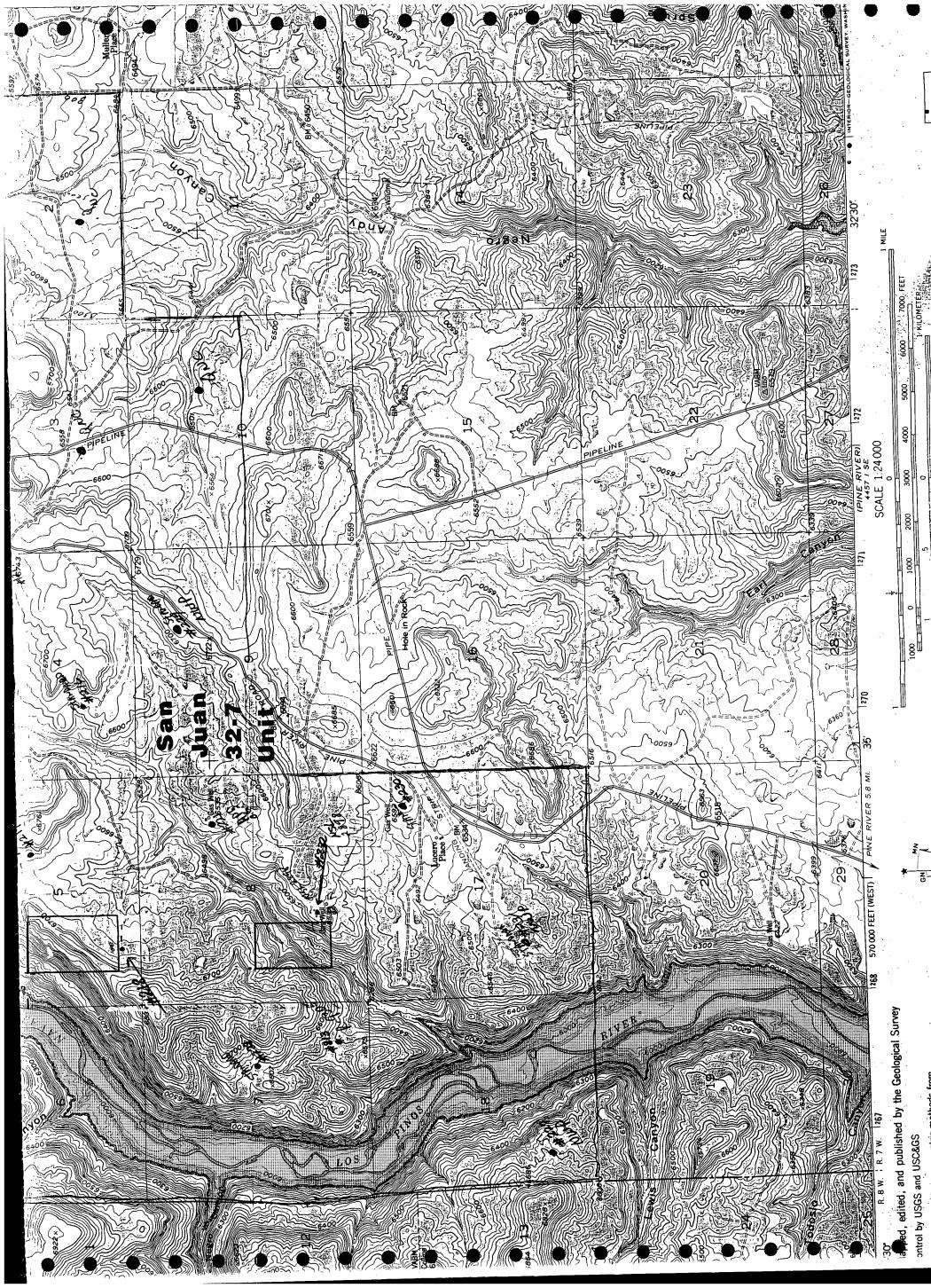
protection.

LA79449: This site is located approximately 50 feet southwest of the proposed final

well pad and can be protected during construction by placing a fence along

the edge of the pad as indicated on Figure 6.

Given these protective recommendations, archaeological clearance is recommended for the Phillips Petroleum's final SJ 32-7 No. 218 well pad and access road.





# STATE OF NEW MEXICO ENERGY AND MINERALS DERASTINENT OIL CONSTRUCT OFFICE OISTRICT OFFICE 9 30

1000 NIO NIAZOS NOAD AZTEC, NEW MEXICO 87410 (505) 334-0178

SARREY CARRUTHERS GOVERNOR

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Oll Conservat P.O. Box 2088 Santa Fe, NM			· · · · ·
Re: Proposed Proposed Proposed Proposed Proposed Proposed	DHC NSLX SWD WFX		
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M-5-31N- Unit, S-T-R	Operator <u>Zw</u> and m	Lease & Well No.	ollows