#### SUBMIT IN TRIPLICATE\*

Form approved, Budget Bureau No. 42-R1425.

(MAY 1960)		ED STATES		<b>(</b>	reverse sic		30-045-24716	
DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION AND SERIAL NO.		
GEOLOGICAL SURVEY							SF-078998	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK							6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
a. TYPE OF WORK DRII	DRILL X DEEPEN PLUG BACK						7. UNIT AGREEMENT NAME San Juan 32-7 Unit	
b. TYPE OF WELL OIL FT GA	s 🖂		SING		MULTIPI ZONE	LE	S. FARM OR LEASE NAME	
WELL WI	other		ZONI	6	20,7 5		San Juan 32-7 Unit	
	-line Composet	ion				_	9. WELL NO.	
NOTUNESU PLU	<u>eline Corporati</u>	<u> 1011</u>					#68	
DO Boy OO	Farmington New	w Mexico 87	7401				10. FIELD AND POOL, OR WILDCAT	
LOCATION OF WELL (Re	Farmington, New Port location clearly and	in accordance wi	th any Sta	te requirem	ents.*)		Basin Dakota	
At surface	FSL & 1700' F	£ Section	34, T3	2N, R7W	i		11. SEC., T., B., M., OR BLE. AND SURVEY OR AREA	
At proposed prod zone	Same as above		Sec 34, T32N, R7W					
4. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	12. COUNTY OR PARISH 13. STATE						
20 Miles So	uth of Ignacio	San Juan New Mexico						
						тот	OF ACRES ASSIGNED HIS WELL  320	
S. DISTANCE FROM PROP	SED LOCATION*		19. PRO	POSED DEPTH	i	20. ROTA	RY'OR CABLE TOOLS	
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 500							Rotary  1 22. APPROX. DATE WORE WILL START*	
1. ELEVATIONS (Show whe					•			
6753							December 1980	
:3.	I	PROPOSED CASI	NG AND	CEMENTIN	G PROGRA	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER	FOOT SETTING DEPTH			.]	QUANTITY OF CEMENT	
12-1/4"	9-5/8"	32.3#	!	35	50 1		115 sx	
8-3/4"	,	20#		40]		.	140 sx	
6-1/4"	4-1/2"	10.5# & 11	6#	83]	.0'		360 sx	
•			1		al. erita		this of the relational version and the second secon	
	appeal paretent to 50 CFR 290.							
Selectively r	perforate and s	timulate t	he Dal	ota For	rmation			
Completion p	lans will be de	termined a	t Tota	l Depth	. •			
-						and gen	mented. All subsequent	
4 DOD 11 h	anctalled off	an the city	Lace C	as 1891 - 1	0 056 6	ши Сен	ICITOCA PTT DADDCARCITO	

A BOP will be installed after the surface cast work will be conducted through the BOP's.

The South half of Section 34 is dedicated to this well.

RECEIVED Gas is dedicated. SEP 1 9 1980 IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plus back give data of proposed productive zone and proposed new productive zone. If proposal is to drill or deepen directionaliss goe Chaffiner data on subsurface locations and proposed free vertical depths. Give blowout preventer program, if any.

FARMINCTON, N. M. TITLE (This space for Federal or State APPROVED BY CONDITIONS

\*See Instructions On Reverse Side

FORM 24- 91

STATE OF NEW MEXICO

# P. O. BOX 2088 INCHGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

must be from the cuter boundaries of the Section.

· · · · · · · · · · · · · · · · · · ·			XII 2111240	es must le tre						Well No.
NORTHWEST PIPELINE CORPORATION SAN JUAN 32-7 UNIT							68			
NORTHWEST F	County				· · · · · · · · · · · · · · · · · · ·					
		և	32	N		7W		-	Juan	
P Actual Footage Loc	···		ےرا	. 1		• • •				-
920	feet from	C -	uth	line and	1080		feet	from the	East	line
Ground Level Elev:		ucing For			Pool					Dedicated Acreage:
6715		Dakota			Bas	in Dako	ta			320 Acres
2. If more the interest as	nan one lo nd royalty	ease is ).	dedicated	d to the wel	l, outline	e each an	d iden	ntify the	ownership	the plat below. thereof (both as to working of all owners been consoli-
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?  X Yes No If answer is "yes," type of consolidation Unitization  If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of										
this form i No allowa	if necessa ble will be	ry.) assign	ed to the	well until al	l interest	s have b	een c	onsolida	ted (by co	ommunitization, unitization, en approved by the Commis-
								7		CERTIFICATION
	     				 				tained	y certify that the information con- herein is true and complete to the my knowledge and belief.
	- <del></del> -	_ <b>-</b> -			  - 				Name Paul Position	C. Thompson
·	t .			-	; 				ł	ing Engineer
	i				!			1	North	west Pipeline Corp.
		Se	c.		!	! 			Date Decem	nber 26, 1980
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			34		920' @	1080	) 1	Date Sur Dece Registers and Tred	ed Professional Engineer and Surveyor Jr. A. Kerr Jr. Lee No.
		C n r	le: 1"=	i con r		•			3350	

REPAIR WELL

REQUEST FOR APPROVAL TO: TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE

PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON\*

## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Dec. 1973	budget bureau No. 42-K1424			
UNITED STATES  DEPARTMENT OF THE INTERIOR  GEOLOGICAL SURVEY	5. LEASE SF 078998 6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)	7. UNIT AGREEMENT NAME San Juan 32-7 Unit			
	8. FARM OR LEASE NAME San Juan 32-7 Unit			
well Well X other	9. WELL NO. #68			
2. NAME OF OPERATOR Northwest Pipeline Corporation	10. FIELD OR WILDCAT NAME  Basin Dakota			
<ul> <li>3. ADDRESS OF OPERATOR</li> <li>P.O. Box 90, Farmington, N.M. 87401</li> <li>4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17</li> </ul>	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA			
below.) AT SURFACE: 920' FSL & 1080' FEL AT TOP PROD. INTERVAL: Same as above AT TOTAL DEPTH: Same as above	Sec 34, T32N, R7W  12. COUNTY OR PARISH 13. STATE San Juan New Mexico			
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	14. API NO.  15. ELEVATIONS (SHOW DF, KDB, AND WD) 6715 GR			
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:				

(NOTE: Report results of multiple completion or zone

change on Form 9-330.)

(other) Change of Location 17. 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.)\*

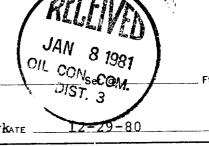
This well location has been changed due to archaeological findings on location.

Old Location:

900' FSL & 1700' FWL

New Location:

920' FSL & 1080' FEL



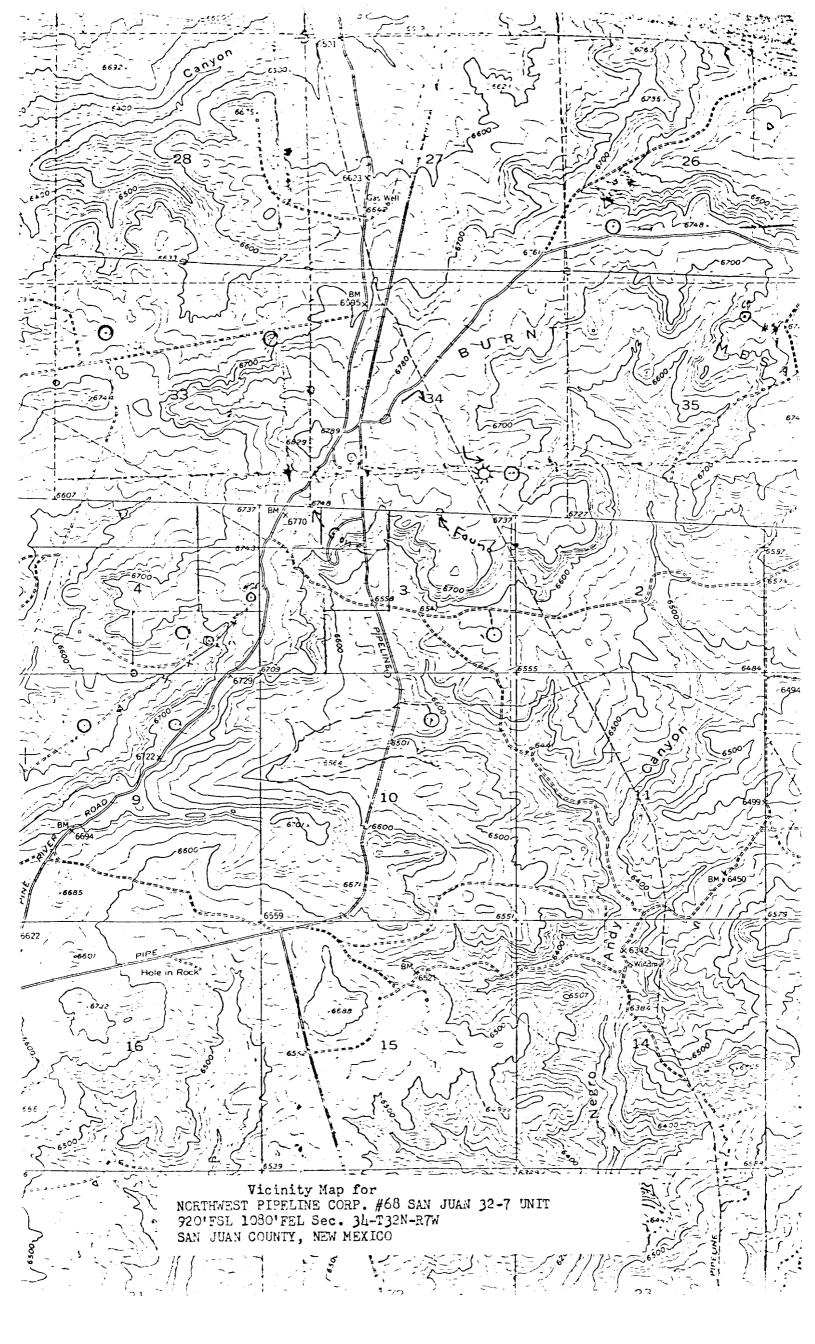
Subsurface Safety Valve: Manu. and Type		<b>L</b>	DIST 3
18. I hereby certify that the foregoing is true a	and correct		\
A PIPORIO VIENDO	TITLE Production Clerkate	:	12-29-80

(This space for Federal or State office use)

APPROVER BY CONDITIONS OF APPENDING, HE AN

DATE \_\_

James F. Sims



Form 9-331 Dec. 1973

Form Approved. Budget Bureau No. 42-R1424

UNITED STATES	5. LEASE
DEPARTMENT OF THE INTERIOR  GEOLOGICAL SURVEY	SF 078998  6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir, Use Form 9-331-C for such proposals.)	7. UNIT AGREEMENT NAME  San Juan 32-7 Unit  8. FARM OR LEASE NAME
1. oil gas	San Juan 32-7 Unit  9. WELL NO.
2. NAME OF OPERATOR Northwest Pipeline Corporation	#68  10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR P.O. Box 90, Farmington, New Mexico 87401	Basin Dakota  11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  AT SURFACE: FSL & 1700! FWL  AT TOP PROD. INTERVAL: Same as above  AT TOTAL DEPTH: Same as above	AREA Sec 34, T32N, R7W  12. COUNTY OR PARISH 13. STATE San Juan New Mexico  14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:  TEST WATER SHUT-OFF	67531 GR 3 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8
FRACTURE TREAT  SHOOT OR ACIDIZE  REPAIR WELL  PULL OR ALTER CASING  MULTIPLE COMPLETE  CHANGE ZONES  ABANDON*  (other) Cement change	(NOTE: Report results of multiple completion or zone change on Form 9–330.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is d measured and true vertical depths for all markers and zones pertinent.  We would like to change the Surface cement fr	irectionally drilled, give subsurface locations and to this work.)*
as reported on Application	ON CON COM
Subsurface Safety Valve: Manu. and Type	Set @
18.   hereby certify that the foregoing is true and correct	Section 1
SIGNED TITLE Production C.	
AS AMENDED (This space for Federal or State off	
CONDITIONS DE PEROVASSITANY  JAMES F. SIMS  DISTRICT ENGINEER	DATE Services of the provided by the first of the provided by

#### NORTHWEST PIPELINE CORPORATION

#### DRILLING PROGNOSIS

Well Name: San Juan 32-7 Unit #68 Date: September 17, 1980

I. LOCATION: 900' FSL & 1700' FWL ELEVATION: 6753' GR

Section 34, T32N, R7W
San Juan Co New Meyico SURFACE: BLM

San Juan Co., New Mexico

SURFACE: BLM

MINERALS: Federal SF 078998

FIELD: Basin Dakota

II. <u>GEOLOGY</u>: Surface - San Jose

Α.	Formation:	Depth:	Formation:	Depth:
	Ojo Alamo	3045'	Mancos	6312'
	Kirtland	3133 <b>'</b>	Gallup	7137
	Fruitland	3443 *	Greenhorn	8027 <b>'</b>
	Pictured Cliffs	36031	Graneros	8077 <i>'</i>
	Lewis	3812'	Dakota	8207 <b>'</b>
	Cliff House	5832'	Total Depth	8310'
	Point Lookout	6027 <b>'</b>		3310

B. Logging Program: Gamma Ray Induction & Density at Total depth.

C. Natural Gauges: Gauge @ 5832', 7137', 8207', and @ Total Depth. Record all gauges on daily drilling report and morning report. Gauge all noticeable increases in gas while drilling & report.

#### III. DRILLING:

- A. Contractor:
- B. Mud Program: Mud, water & gas will be furnished by Northwest Pipeline Corp from surface to total depth.
  - a) From Surface to Intermediate casing depth to be drilled with mud.
  - b) From Intermediate casing depth to T.D. will be drilled with gas.
- C. While drill pipe is in use, pipe rams shall be actuated to test proper functioning not less than once each day. The blind rams shall be actuated to test proper functioning once each trip. All tests will be reported in the Northwest Pipeline tour reports as to time and date.

### IV. MATERIALS:

A. Casing Program:

Hole Size	Depth	Casing Size	Wt & Grade
12-1/4"	350'	9-5/8"	36# K-55
8-3/4"	4012'	7''	20# K-55
6-1/4"	8310'	4-1/2"	10.5# K-55 (To 6800')
		4-1/2"	11.6# K-55 (6800' to TD)

- B. Float Equipment:
  - a) Surface Casing: 9-5/8" Larkin Guide Shoe and Self-fill insert float valve.
  - b) Intermediate Casing: 7" Dowell guide shoe, Dowell self fill insert float valve. Dowell centralizers five (5).
  - c) Production Casing: 4-1/2" Larkin Geyser Shoe. Larkin Flapper type float collar.
- C. Tubing: 8260' of 2-3/8", 4.7#, J-55, 10 RD EUE tubing with common seating nipple above bottom joint.

Drilling Prognosis
San Juan 32-7 Unit #68
Page #2

D. Well Head Equipment: Gray Tool Company drawing No. E-5533, or equivalent. Well head representative to set slips on intermediate and production strings.

#### V. CEMENTING:

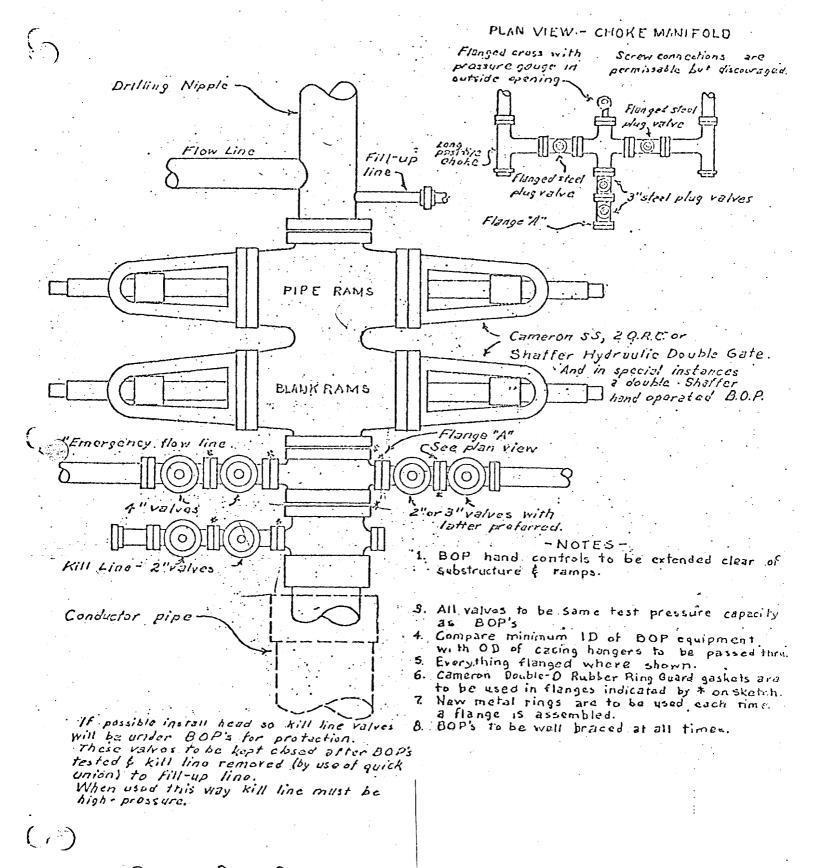
- A. Surface Casing: 9-5/8" Use 115 sks of C1 "B" cement with 1/4# gel flake per sack and 3% CaCl<sub>2</sub> (100% excess to circulate 9-5/8" casing). WOC 12 hrs. Test to 600 psi for 30 min.
- B. Intermediate Casing: 7" Use 65 sks of 65/35 Class "B" poz with 12% gel and 15.2 gal of water per sk. Tail in with 75 sacks of Class "B" with 2% CaCl<sub>2</sub> ( 240 cu.ft of slurry, 65% excess to cover Ojo Alamo). Use top rubber plug only. Run tempreature survey after 8 hrs. WOC 12 hrs. Test casing to 1200 psi for 30 min.
- C. Production Casing: 4-1/2" Precede cement with 40 bbls of water mixed with 4 sks gel. Cement with 260 sks of Cl "B" cement with 8% gel, 12-1/2# fine gilsonite per sk and 0.4% HR-4. Tail in with 100 sks of Cl "B" cement with 1/4# fine tuf-plug per sack. ( 660 cu.ft of slurry), (50% excess to fill to intermediate csg). Run temperature survey after 8 hrs. Perforate after 18 hrs.

F. H. Wood

PCT/djb

Original: Well File

sc: Regular Distribution



SINGLE PIPE RAM BLOWOUT PREVENTOR HOOKUP

- 1. Existing Roads: See attached topographic map. All existing roads used, shall be maintained in a serviceable condition at all times during the drilling operation.
- 2. Planned Access Roads: See attached topographic map. Maximum grade is approximately 1%. The road surface will not exceed twenty feet in width. Upon completion of drilling operations the access road will be adequately drained to control runoff and soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary. All activities will be confined to the access road and drill pad.
- 3. Location of Existing Wells: See attached topographic map.
- 4. <u>Location of Tank Batteries</u>; <u>Production Facilities</u>; and <u>Production</u>, <u>Gathering and Service Lines</u>: See attached topographic map for locations of existing and proposed gas gathering lines.
- 5. Location and Type of Water Supply: Water needed for the drilling operation will be hauled from the Pine River,
- 6. Source of Construction Materials: No additional materials will be needed.
- 7. Methods for Handling Waste Disposal: All garbage, debris, and trash will be buried at least three feet deep. A portable toilet will be supplied for human waste. After drilling operations have been completed the reserve pit will be fenced and the liquid portion will be allowed to evaporate before the location is cleaned up and leveled. The earthen pits will not be located on natural drainages and will be constructed in such a manner so that they will not leak. Any evaporator pit containing toxic liquids will be fenced.
- 8. Ancillary Facilities: There will be no camps or airstrips associated with the drilling of this well.
- 9. Wall Site Layout: See attached location layout sheet.
- 10. Plans for Restoration of the Surface: Upon completion of drilling, the location will be cleaned, and leveled so that no cut or fill banks will be steeper than 3:1.

All of the area disturbed in connection with the drill site will be seeded as close as possible for any above ground equipment while still allowing for access to the equipment. Seeding will be done within one year after drilling is completed and during the period from July 1 through September 15. Seeding will be done with the seed mixture recommednded by BLM.

All equipment above ground will be painted a non-glare, non-reflective, non-chalking color that simulates the natural color of the site.

11. Other Information: If, during operations, any historic or prehistoric ruin, monument or site, or any object of antiquity is discovered, then work will be suspended and the discovery will be reported to the District Manager of the BLM.

All liquids from the line will be contained at the site unless otherwise specified by the surface agency's representative.

When drilling with gas, the line used to discharge and burn off the gas will be located so as not to damage vegetation in the area, and if necessary an earthen screen will be constructed to protect the vegetation. All liquids from the line will be contained at the site unless otherwise specified by the surface agency's representative.

12. Operator's Representative: Paul C. Thompson - P.O. Box 90, Farmington, New Mexico 87401. Phone: 327-5351.

## 13. Certification:

I hereby certify that I have inspected the proposed drillsite 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 Northwest Pipeline Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

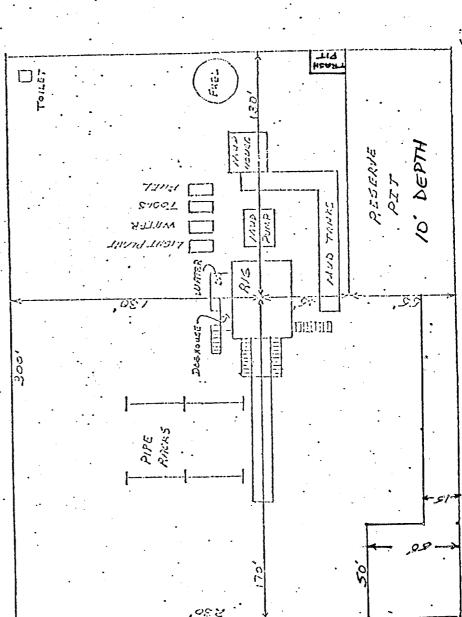
Paul C. Thompson Drilling Engineer

PCT/djb

NO THWEST PITHURE 1077

TXOTAS & MOSA VERDET.

SAN JUAN 32-7 UNIT #68



DATE. 9/17/80

