# SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

## UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

30 -045-23214 5. LEASE DESIGNATION AND SERIAL NO. SF-078510

	GEOLO	GICAL SURVET				21-0102TO		
APPLICATION	FOR PERMIT	6. IF INDIAN, ALLOTTEE OR TRIBE NAME						
1a. Type of work						7. UNIT AGREEMENT NAME		
DKII b. tepe of well	LI XX	DEEPEN 🗌		PLUG BAC	.к 📋	w w		
Off 5 5 6A	S XX OTHER			NGLE XX MULTIPI	E	8. FARM OR LEASE NAME		
2. NAME OF OPERATOR	The Control of the Co					Blanco		
Atlantic Richfi	eld Company					9. WELL NO.		
3. ADDRESS OF OPERATOR						11		
501 Lincoln Twr	Bldg., 1860	Lincoln St.,	Der	over, Colo. 802	95	10. FIELD AND POOL, OR WILDCAT		
At surface						Blanco-Mesaverde  11. sec., T., R., M., OR BLE.		
1650' FNL & 165 At proposed prod. zone		AND SURVEY OR AREA						
Approx. Same						5-31N-8W		
14. DISTANCE IN MILES A			FFIC	E*		12. COUNTY OR PARISH 13. STATE		
14 miles Sout	hwest of Ignac	io, Colorado	e wa	OT LODGE VI TRION	17 90	San Juan   New Mexico		
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L		se line	топ			OF ACRES ASSIGNED HIS WELL		
(Also to nearest drlg	:. unit line, if any)	2000 1000 10		207.19		/2 320 PS ROTARY OR CABLE TOOLS		
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	OSED LOCATION* RILLING, COMPLETED, 179, IS LEASE, FT. NE/4 Se	well in		5110 ·	_	Rotary		
21. ELEVATIONS (SHOW WIFE	mer Dr. m., die, eu.,					22. APPROX. DATE WORK WILL START* Dirt work when appl. rec'd		
6579' GR (Ung	raded)					Est. Sep. 30, 1978		
23.	,	PROPOSED CASING	ANI	CEMENTING PROGRA	M	•		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	:	SETTING DEPTH		QUANTITY OF CEMENT		
13-3/4**	9-5/8" OD	36#		2501	250	sx.		
8-3/4"	7" OD	23#		<u>3875'</u>	300	· · · · · · · · · · · · · · · · · · ·		
6-1/4 <sup>m</sup>	4½" OD Liner	10.5#		f/3725'-T.D.	250	sx,		
set $4\frac{1}{2}$ " OD line complete.	Well Location a	rforate produ	icti Dedi	ive intervals, t	treat :	ormation. If productive if necessary, and		
	Surface Use and	d Operations	Pla	an		TED 1		
				rate	E	INED !		
	166	1		TIND RE				
gas m	alcoholasia Propi	· /		IT I'VE	CFP -	5 1978		
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		(1	٠,	50 6 15 A	neni 0	GICAL SUPVEY		
			ć	SEL ON COMMA	S. GEOLINIC	-ON, N		
IN ABOVE SPACE DESCRIBE	PROPOSED PROCESS . If	neonosal is to deenen	۷, ۵	he hard Silve data of nr	esent prod	ductive zone and proposed new productive		
zone. If proposal is to	drill or deepen direction:	ally, give pertinent d	ata	n subsurface locations an	d measure	d and true vertical depths. Give blowout		
preventer program, if any 24.	y.							
	nites /	TITLE		perations Manag	ger	September 1, 1978		
(This space for Fede	ral or State office use)							
PERMIT NO.			_	APPROVAL DATE	<del></del>			
APPROVED BYCONDITIONS OF APPROV		TITLE				DATE		

# Instructions

a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location of to a new reservoir, use this form with appropriate notations. Consult applicable State or rederal regulations concerning subsequent work proposals or reports on the well.

Consult local Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

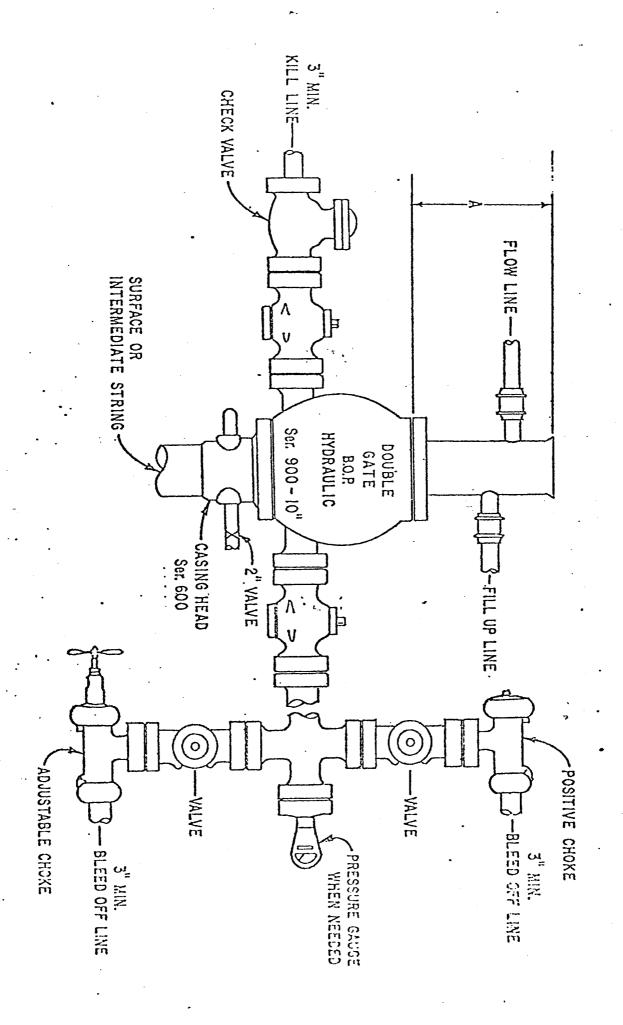
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★ U.S. GOVERNMENT PRINTING OFFICE: 1974-781-025/VIII-239

## NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

		All distances must be ire	m the outer boundaries of	the Section.	<del></del>
Operator  Operator	אושדת הדמנוה.	i	Lease BLANCO		Well No.
		TOURSELD COMPANY	Range	County	
Unit Letter <b>G</b>	Section 5	Township 31 NORTH	8 WEST	SAN JUAN	
Actual Footage Loc	_		1650 fee	from the EAS'	T
1650	feet from the ]	NORTH line and	Pool fee	t from the LAS	Dedicated Acreage:
Ground Level Elev. 6579	Mesave:		Blanco		E/2 320 8 cres
		ted to the subject we		r hachure marks o	
1. Outline in	e acreage dedica	ited to the subject we	r by colored peneri o	. Hachard marks	,,, p. 2
	an one lease is id royalty).	dedicated to the well,	outline each and ide	ntify the ownersh	ip thereof (both as to working
3. If more the	an one lease of communitization,	unitization. force-poolin	g. etc? N/A 100% At	have the interest tlantic Richf	s of all owners been consoli- ield Company
Yes	No If a	nswer is "yes," type of	consolidation		
	is "no," list the f necessary.)	owners and tract descr	iptions which have ac	ctually been cons	olidated. (Use reverse side of
No allowai	ole will be assign	ed to the well until all ) or until a non-standard	interests have been of unit, eliminating suc	consolidated (by h interests, has l	communitization, unitization, been approved by the Commis-
sion.					
					CERTIFICATION
		1		1 he	reby certify that the information con-
	i		0 '	9 1	ed herein is true and complete to the
	1			1 1	of my knowledge and belief.
	 			Norme	i. Walther J. / Ry
	+			Positi	A. Walther, Jr. ()
	ŧ		0 1650	Ope	rations Manager
	ļ		! 1	Compo	
	! !		i	Date	antic Richfield Company
1	i	<b>g</b>	1 .	£ 1	tember 1, 1978
		5			SOUNT ENGINEER
	f				
	1		1	1 1	creby feeling that the well toogthen
·	1		!	<b>!</b> !	wn or the plat was platted from held
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	1			<del> </del>	August 1978
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	1	يرموني المراجعة المرا	No.	10	James P. Leese
	i		Transport Pr		
					icate No. 1463
0 330 660	190 1320 1650 19	80 2310 2640 2000	1500 1070	FO( 1 E	



### DRILLING PLAN

Blanco Well No. 1 SW NE Section 5-31N-8W San Juan County, New Mexico

1. Surface Formation: Tertiary - Wasatch

35251 2. Geologic Markers: Pictured Cliffs

Lewis Shale 37351

Mesaverde

Cliff House 51501 Menefee 55501 Point Lookout 58401

Upper Mancos 60251

3. Anticipated Mineral Bearing Formations:

Pictured Cliffs	(Poss Gas)	35251
Mesaverde		
Cliff House	(Poss Gas)	51501
Menefee	(Poss Gas)	<b>5</b> 5501
Point Lookout	(Poss.Gas)	58401
Upper Mancos	(Poss Gas)	60251

Surface 250' 9-5/8" 36# K55 ST&C New Intermediate 3875' 7" 23# K55 ST&C New 4. Casing Program: Surface

From 3725' to T. D.  $4\frac{1}{2}$ \* 10.5# K55 ST&C New Liner

5. Control Equipment: Blowout Preventer - Ram Type, hydraulic operated Rams - Two: One blind ram and one pipe ram.

Series - 900 (3000# WP, 6000#T) Manufacturer - Cameron or Shaffer Pressure test @ 1000 psi prior to drilling out of casing string. Operational checks to be made daily and on trips.

Rotating Head - Type 50 Shaffer or equivalent.

Sketch Attached.

- 6. Drilling Fluid: 0-250' Gel and lime to drill surface hole and set casing. 250'-3875' Gel-Chem to maintain hole and set intermediate casing. 3875'-T.D. Gas drill.
- Kelly cock 7. Auxiliary Equipment:

Sub on floor with full opening valve for use in drill pipe when kelly is not in the string. Drill pipe float while gas drilling.

8. Testing, Logging, Coring: At this time no drill stem tests or cores are planned. Hole conditions or information obtained while drilling may alter these plans.

TD - Surf. Csg.  $2^n \& 5^n = 100^1$ TD -  $2000^1$   $2^n \& 5^n = 100^1$ Logs: Intermediate - IES 2" & 5" = 100" CNL-FDC/GR T.D. to base 7" casing: Dual Ind. w/GR 2" & 5" = 100" SW Neutron 2" & 5" = 1001 211 & 511 = 1001 Fm. Dens.

- 9. Abnormal Pressures, Temperatures, Potential Hazards: There are no abnormal pressures, temperatures or potential hazards in the area. The maximum anticipated pressure is 1000 psi. Weight material will be maintained on location and BOP will be pressure tested and kept in good working condition.
- 10. Starting Date Completion: We are currently utilizing one drilling rig to drill our wells in this area. Depending upon approval of our application for permit to drill and availability of equipment, drilling operations could be commenced approximately September 30, 1978 and the well could be completed about November 10, 1978.

Blanco Well Number 1 SW NE Section 5-31N-8W San Juan County, New Mexico

- 1. Existing Roads: A portion of the Navajo Dam, New Mexico Quadrangle is attached with existing roads colored green. Main access would be from Blanco, New Mexico, approximately 15.5 miles east on State Highway 511 to Navajo Dam. From Navajo Dam proceed approximately 11.5 miles north and northwest on the "Ignacio Highway" to a turn off in the northern part of Section 33-32N-8W. Turn southwest approximately 1.8 miles as shown on the attached map. Approximately 1000' of this existing road will require improvement prior to using it for the movement of drilling equipment.
- 2. Planned Access Road: The planned access road will leave the existing road in Section 5-31N-8W and will be approximately 1300' in length traveling in a southeast direction. This planned access road will be approximately 30' in width sufficient to handle drilling equipment. No grades are anticipated in excess of 8%. Grading will be kept to a minimum and very little alteration of the natural drainage of the area is expected. There will be no major cuts, fills, culverts, turnouts, gates or cattleguards. The area is a sandy type soil and no special surfacing material will be required.
- 3. Existing Wells: As shown on the attached map.

Atlantic Richfield Company Jacquez Well #1 NE NE Section 6-31N-8W Atlantic Richfield Company Jacquez Well #1A SE SE Section 6-31N-8W

4. Existing and or Proposed Facilities:

Each of the above Atlantic Richfield Company wells is equipped with a Production Unit which are located approximately 100-125' from the well and are connected to the well with a buried gas line. The gas gathering company connects at the Production Unit.

This well is proposed as a Mesaverde single completion. The anticipated facilities would include one production unit erected on a pad approximately 18' x 24' (incl. small drain pit). The unit will be erected on concrete piers and connected to the well head with buried gas line approximately 125' from the well. The drain pit will be fenced for protection of wildlife and livestock.

The area not required for facilities or operation of the well, will be contoured as near as possible to the original contours and restored as directed by the Bureau of Land Management and the United States Geological Survey.

- 5. Water Supply: It is anticipated that it will be necessary to obtain water from the Pine River near La Boca, Colorado. The water will be trucked and no new roads (other than 2 above) will be required.
- 6. Construction Materials: None anticipated.
- 7. Waste Disposal: Cuttings and drilling fluids will be disposed of in the reserve pit. A trash or burn pit will be used to dispose of trash, garbage, etc. If the reserve pit is sufficiently dry when the well is completed, both the reserve pit and trash pit will be filled upon completion of the well, and the reserve pit will be fenced to be filled when sufficiently dry.

Any produced fluids will be disposed of in the reserve pit. Any oil accumulations on the reserve pit during drilling and completion will be skimmed and disposed of immediately after the completion rig is moved off. Oil produced during completion will be held in a temporary tank for later disposition. Trash and debris cleanup will commence as soon as the completion rig moves out, and final cleanup and contouring will begin as soon as possible.

- 8. Ancillary Facilities: None are proposed.
- 9. Well Site Layout: Per the attached sketch. The reserve pit which will be approximately 50' x125', will be unlined.
- Restoration of Surface: Upon completion of the well, the drill site will be cleaned, rat and mouse holes filled, and trash pit filled. If sufficiently dry, the reserve pit will be filled. If not, any oil accumulation will be removed and the pit fenced for protection of livestock and wildlife. Other than the area needed for operation and production facilities, the site will be contoured as near as possible to its original state. Gas line ditch will be backfilled and the access road graded for proper drainage and minimum surface damage. Reseeding, or any other restoration, will be as specified by the Bureau of Land Management. Any topsoil will be stockpiled for distribution over the disturbed area upon final grading and for reseeding.
- 11. Other Information: The area of this location slopes to the south and west Reserve pit will be on west side of location. A 15 to 20' fill required on south and west side and a 20 to 25' cut on east side of location. The surface is sand and clay. It is very rough with large sand rock and rock boulders. The nearest dwelling is approximately 5 miles north in La Boca, Colorado.

The lands involved are Federal lands in a gas field. There is sheep and cattle grazing in the area. To our knowledge there are no archaeological, historical or cultural sites which will be involved, however, an archaeological survey report will be submitted.

With the short period of operations and the restoration of the surface, any disturbance to vegetation and wildlife will be temporary and minimal. It is not anticipated that there will be any substantial impact on the environment.

12. Lessee's or Operator's Representative:

W. A. Walther, Jr.
Atlantic Richfield Company
1860 Lincoln Street, Suite 501
Denver, Colorado 80295
Phone: (303) 573-4049
(303) 798-5729

B. J. Sartain
Atlantic Richfield Company
1860 Lincoln Street, Suite 501
Denver, Colorado 80295
Phone: (303) 573-4053
(303) 770-7849

Local Representative: Mr. J. E. Taylor

Atlantic Richfield Company

P. O. Box 2197

Farmington, New Mexico 87401

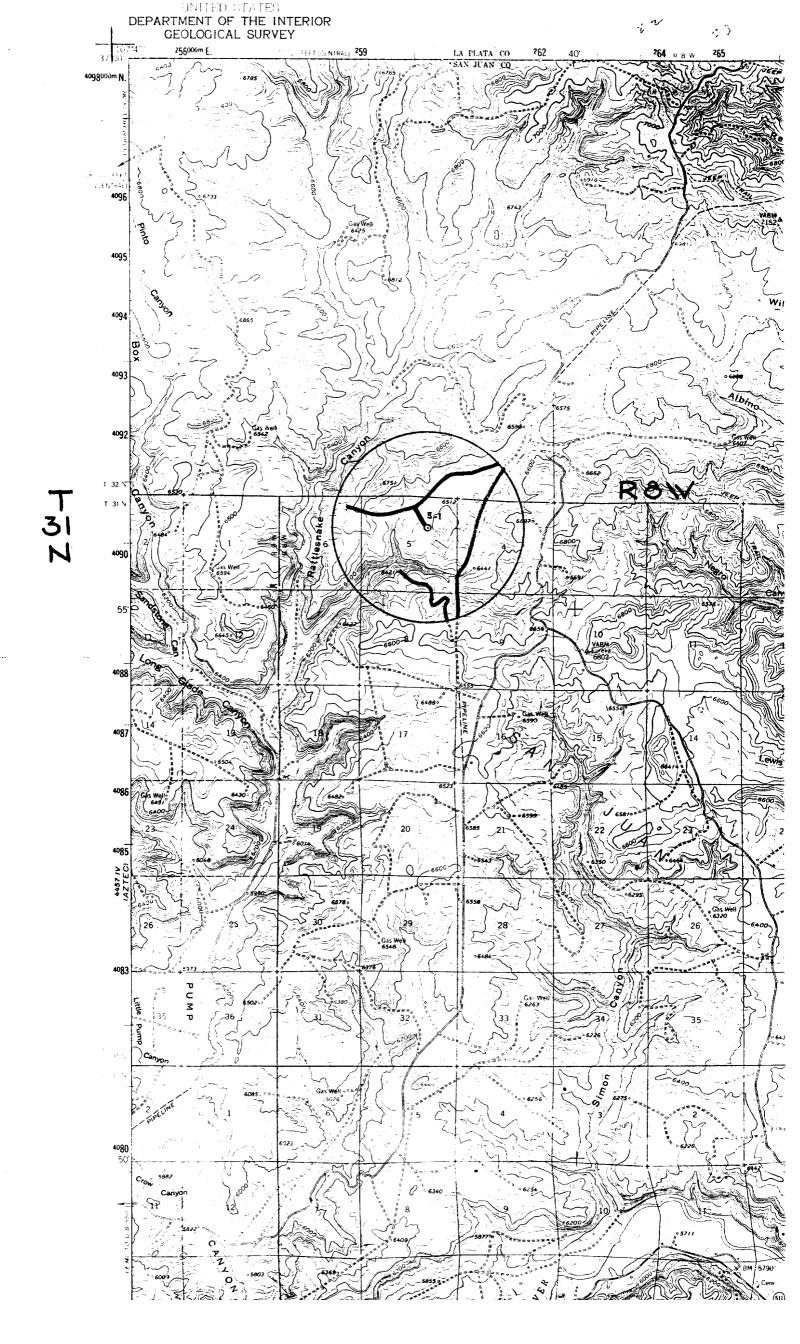
Phone: (505) 325-7527

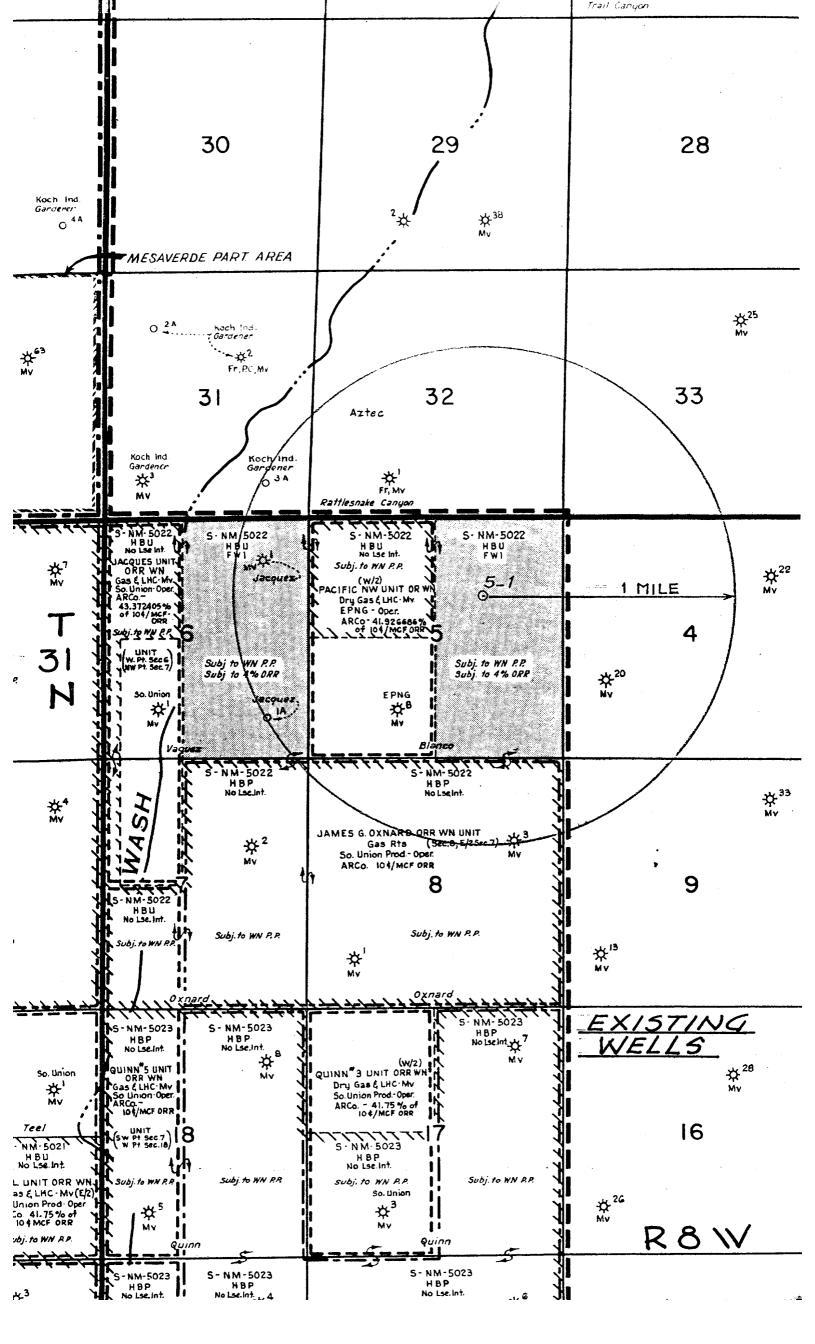
(505) 325-7968

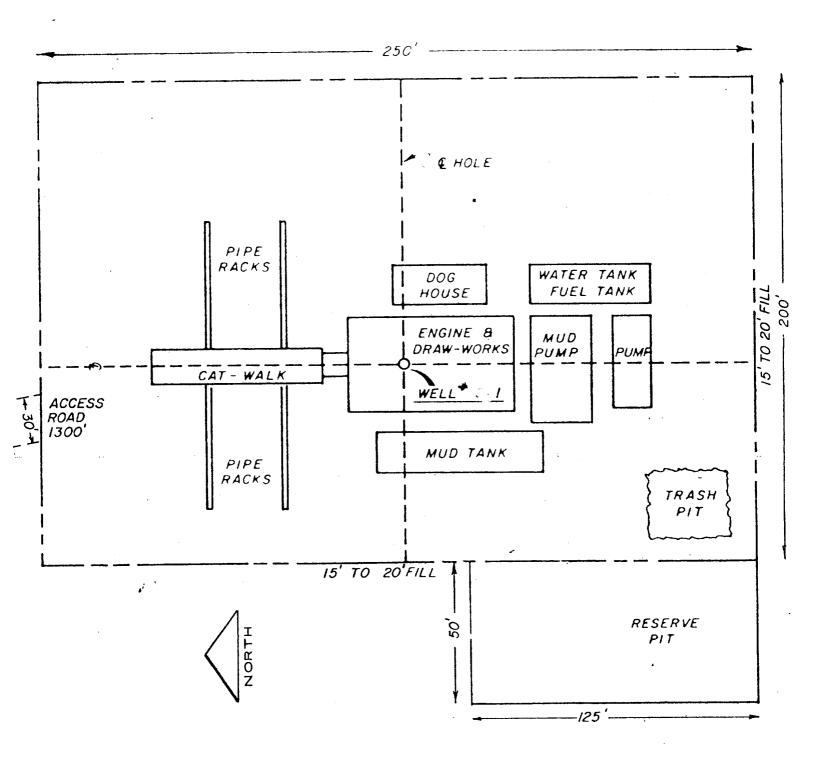
13. Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that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

September 1, 1978

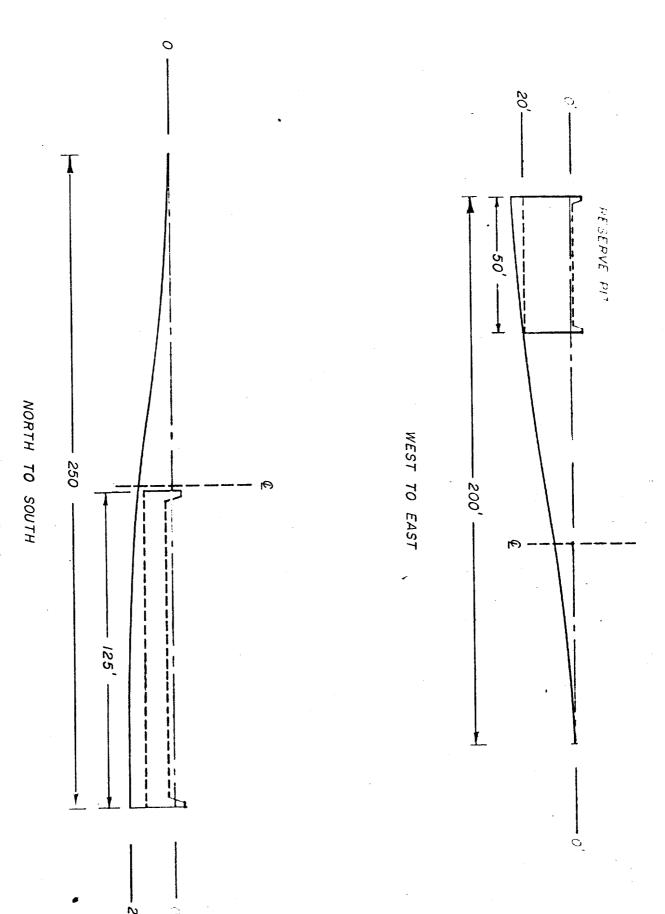
W. A. Walther, Jr.
Operations Manager







BLANCO NO. 1 1650' FNL, 1650' FEL, Sec. 5 - T 31 N - R8 W



BLANCO NO. 1