SUBMIT IN TRIPLICATE*

Form approved, Budget Bureau No. 42-R1425.

(Other instructions on reverse side) **UNITED STATES** 30-039-20175

	5. LEASE DESIGNATION AND SERIAL NO.					
APPLICATIO	N FOR PERMIT	GICAL SURVEY TO DRILL DEF	PEN OR PLUG	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
1a. TYPE OF WORK						
b. TYPE OF WELL	RILL 🗗	DEEPEN	PLUG BA	ACK		
	GAS WELL OTHER		SINGLE MULT ZONE ZONE	8. FARM OR LEASE NAME		
JOHN E. SCI	HALK			NO ELL TO LONE STAR		
3. ADDRESS OF OPERATOR		70M MEN MEN		ÎNDUSTRÎES-SCHÂLK-4		
	2078, FARMING Report location clearly and	•		BASIN DAKOTA		
	THE SOUTH LIN	E, 1765' FR	OM THE EAST L			
At proposed prod. zo	ne WEST	TOWNSHIP 3	9 NORTH, RANG	\$EC. 23, T-38N, R-4		
	AND DIRECTION FROM NEA			12. COUNTY OR PARISH 13. STATE		
15. DISTANCE FROM PROF	AST AND NORTH		NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED		
LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dr		50	638.04	TO THIS WELL 318-04		
18. DISTANCE FROM PRO TO NEAREST WELL,	POSED LOCATION* DRILLING, COMPLETED, 1	2 MILE	PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS ROTARY		
OR ATTEMP FOR, ON 11	hether DF, RT, GR, etc.)		8835'	22. APPROX. DATE WORK WILL START*		
	0.0 GR.					
23. 	I	PROPOSED CASING A	ND CEMENTING PROGE	RAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT		
7-7/8*	4-1/2"	10.50	8835'	350 SACKS		
	DENSITY CALI	PER GAMMA R	AY LOĞ AT TOT	G AND FORMATION AL DEPTH. IF IG AND PERFORATE		
	AS REEDED.			- W. I.		
		PROPOSI	ED TOPS	SECTIVED/		
	P	ICTURED CLI	FFS 3970'	/Ribert		
	P	DINT LOOKOUT		AUG 1 1973 OIL CON. COM.		
	_	AMCOS REENHORN	6550' 1405'	AUG COM.		
	G	RAMEROS	8450	OIL COIN. 3		
		AKOTA DTAL DEPTH	\$5\$ 5;	present productive zone and proposed new productive		
one. If proposal is to	drill or deepen directiona	proposar is to despen or lly, give pertinent data	r plug back, give data on p a on subsurface locations a	present productive zone and proposed new productive and measured and true vertical depths. Give blowout		
reventer program, if an	() N	. ~				
8 IGNE OT	MSCHOOL	AU TILE		JULY 30, 1973		
(This space for Fede	eral or State office use)					
PERMIT NO.			APPROVAL DATE			
U	′ λ					
APPROVED BY	4X					

Instructions

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 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.

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

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

839-171

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the outer houndaries of the Section

JOHN E. SCHALK

i Township

30 North

Leose LONE STAR INBUSTRIES SCHALK 49

RIO ARRIBA

tual Footage L	ocation o	f Well:					
850		from the	SOUTH	line and	1765	feet from the EAST	line
ound Level Elev		Producing			Pool	CIN DAVOTA	Dedicated Avereage:
7310.		<u></u>	DAKOTA			SIN DAKOTA	\$20318-04 Acre
Lalf more t	han one	e lease is				or hachure marks on the plat d identify the ownership the	
Afficient and i	han one	lease of	di fferent own e	ership is ded	licated to the	well, have the interests of a	II owners been consolidated
y communit	ization,		on, force-pooli				
) Yes	() N	a, H	fonswer is "y	es," type of	consolidation		
i onswer is	-			d es criptions	which have	actually consolidated. (Use r	everse side of this Torm if
la allowable	will be	assigned t	o the well unt	il all interes	ts have been	consolidated (by communitie	zation, unitization, forced-
coling, or o	therwise) or until	a non standa r	d unit, elimi	nating such i	nterests, has been approved b	y the Commission.
· · · · · · · · · · · · · · · · · · ·						C E	RTIFICATION
						. I bendy o	ertify that the information quatel
						herein is true	and complete to the best of
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		1					SCHALK
		 +			1111	OPERA T	RECEIPER
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	<u> </u>	-+	+ -	+ - +	Alth.	Date	JUL 31 1973
	·]	1 1		1	16.		
	· ·		Sec. 23	4	AUG	cow.	S. GEOLOGICAL SURVEY
				1 1	OIL OF		DURANGO COM Cocation shows
	i	!			Con D	this plot was	plotted from field notes of an
	- -	+ - +	- + -	+-+		N surveys made	by me or utility my asperviolate.
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Ì	1	1		10	17651		
	L	<u> </u>		<u> </u>	· + -	Date Space	STATE STATE OF THE
	-	T - :	- T -	20	1	Red And Pr	ofential Engineery
	1			4	1	and see and	Smr 1953
						- JAN	V. LEGIN
SCALE-	HINCHE	S EGNALS	i ja jairķ			140	CW MEN
			ME COMPANY	FARMIN	IGTON, N. M.	Certification	MARS P. LEV.

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United States Department of Agriculture Felest Service	Record no. (1-2)	b. Region (3-4)	c. Forest (5-6)	-
and the second s	70	• 03	02	
SPECIAL USE PERMIT	d. District (7-8)	e. Use number (9-12)	f. Kind of use (13-15)	
Act of June 4, 1897	03	2724	#50	
This permit is revocable and nontransferable	g. State (16-17)	h. County (18-20)	k. Cord no. (21)	-
(Ref. FSM 2710)			1	
	35	039	:	
Permission is hereby granted to John E.	Schalk			
				-
of P. O. Box 2078, Farmington, New	Mexico 87401	1 1 1 4 11		
nereinafter called the permittee, to use subject to or improvements:				5
A two acre plot in the	SW 1/4 SE 1/4, Se	ction 23 and an	access road	
through the SW 1/4 SE 1/4, Section	on 23 and the W 1	./2 NE $1/4$ and L	ot 5, Section	
26, T30N, RW, NMPM, as shown on	the attached map	•	·	
				•
	i			
This permit, covers2 acres an	id/or0.9m	iles and is issued	for the purpose of:	:
1. Constructing, drilling and pr	roducing the Scha	1k 49-#2 gas we:	ll located	
850' FSL and 1765' FEL under	terms of lease N	м 4449.		
		*		
Constructing, using and main	taining an access	road thereto.		
1. Construction or occupancy and use under	this permit shall been	in within 1	months, and	
construction, if any, shall be completed within	12 month	s, from the date of		
construction or occupancy and use under construction, if any, shall be completed within use shall be actually exercised at least	65 322 650			
n writing.	ays eac	h year, unless othe	rwise authorized	
2. In consideration for this use, the permitted	e shall pay to the Fo	rest Service, U.S.	Department of	
Agriculture, the sum of Free Use CFR 251.2	Dollars (\$) for the period	
Agriculture, the sum of Free Use CFR 251.2 rom19	_ , to	. 19	, and thereafter	منطق المنطق المنطق المنطق المنطق المنط
annually on		,		
	Dollars (\$);	/01.
Provided, however, Charges for this use may be				
charges on a basis commensurate with the value	made or readjusted w	henever necessary	to place the	/ nro
	made or readjusted w	henever necessary this permit.	to place the	/ NLO
3. This permit is accepted subject to the cou	made or readjusted w of use authorized by	this permit.		AUG
3. This permit is accepted subject to the cor	made or readjusted we of use authorized by nditions set forth her	this permit. ein, and to conditio		1
3. This permit is accepted subject to the condition and made attached hereto and made	made or readjusted we of use authorized by nditions set forth here a part of this permit	this permit. ein, and to conditio		AUG OIL CO

TITLE

TITLE

ליום משולים והיי מחולים ומלים ומ

District Forest Ranger

PERMITTEE

ISSUING OFFICER NAME (NO SIGNATURE)

UMAY

LARRY A. SOEHLIG

373 N.C.

DATE

- 4. Development plans; layout plans; construction, reconstruction, or alteration of improvements; or revision of layout or construction plans for this area must be approved in advance and in writing by the forest supervisor. Trees or shrubbery on the permitted area may be removed or destroyed only after the forest officer in charge has approved, and has marked or otherwise designated that which may be removed or destroyed. Timber cut or destroyed will be paid for by the permittee as follows: Merchantable timber at appraised value; young-growth timber below merchantable size at current damage appraisal value; provided that the Forest Service reserves the right to dispose of the merchantable timber to others than the permittee at no stumpage cost to the permittee. Trees, shrubs, and other plants may be planted in such manner and in such places about the premises as may be approved by the forest officer in charge.
- 5. The permittee shall maintain the improvements and premises to standards of repair, orderliness, neatness, sanitation, and safety acceptable to the forest officer in charge.
 - 6. This permit is subject to all valid claims.
- 7. The permittee, in exercising the privileges granted by this permit, shall comply with the regulations of the Department of Agriculture and all Federal, State, county, and municipal laws, ordinances, or regulations which are applicable to the area or operations covered by this permit.
- 8. The permittee shall take all reasonable precautions to prevent and suppress forest fires. No material shall be disposed of by burning in open fires during the closed season established by law or regulation without a written permit from the forest officer in charge or his authorized agent.
- 9. The permittee shall exercise diligence in protecting from damage the land and property of the United States covered by and used in connection with this permit, and shall pay the United States for any damage resulting from negligence or from the violation of the terms of this permit or of any law or regulation applicable to the national forests by the permittee, or by any agents or employees of the permittee acting within the scope of their agency or employment.
- 10. The permittee shall fully repair all damage, other than ordinary wear and tear, to national forest roads and trails caused by the permittee in the exercise of the privilege granted by this permit.
- 11. No Member of or Delegate to Congress or Resident Commissioner shall be admitted to any share or part of this agreement or to any benefit that may arise herefrom unless it is made with a corporation for its general benefit.
- 12. Upon abandonment, termination, revocation, or cancellation of this permit, the permittee shall remove within a reasonable time all structures and improvements except those owned by the United States, and shall restore the site, unless otherwise agreed upon in writing or in this permit. If the permittee fails to remove all such structures or improvements within a reasonable period, they shall become the property of the United States, but that will not relieve the permittee of liability for the cost of their removal and restoration of the site.
- 13. This permit is not transferable. If the permittee through voluntary sale or transfer, or through enforcement of contract, foreclosure, tax sale, or other valid legal proceeding shall cease to be the owner of the physical improvements other than those owned by the United States situated on the land described in this permit and is unable to furnish adequate proof of ability to redeem or otherwise reestablish title to said improvements, this permit shall be subject to cancellation. But if the person to whom title to said improvements shall have been transferred in either manner provided is qualified as a permittee and is willing that his future occupancy of the premises shall be subject to such new conditions and stipulations as existing or prospective circumstances may warrant, his continued occupancy of the premises may be authorized by permit to him if, in the opinion of the issuing officer or his successor, issuance of a permit is desirable and in the public interest.
 - 14. In case of change of address, the permittee shall immediately notify the forest supervisor.
- 15. The temporary use and occupancy of the premises and improvements herein described may be sublet by the permittee to third parties only with the prior written approval of the forest supervisor but the permittee shall continue to be responsible for compliance with all conditions of this permit by persons to whom such premises may be sublet.
- 16. This permit may be terminated upon breach of any of the conditions herein or at the discretion of the regional forester or the Chief, Forest Service.
 - 17. In the event of any conflict between any of the preceding printed clauses or any provisions thereof in the conflict printed clauses or any provisions thereof in the conflict printed clauses or any provisions thereof in the conflict printed clauses or any provisions thereof in the conflict printed clauses or any provisions thereof in the conflict printed clauses or any provisions thereof in the conflict printed clauses or any provisions thereof in the conflict printed clauses or any provisions thereof in the conflict printed clauses or any provisions thereof in the conflict printed clauses or any provisions thereof in the conflict printed clauses or any provisions thereof in the conflict printed clauses or any provisions thereof in the conflict printed clauses or any provisions thereof in the conflict printed clauses or any provisions thereof in the conflict printed clauses or any provisions thereof in the conflict printed clauses or any provisions thereof in the conflict printed clauses or any provision of the conflict printed clauses or any provisions thereof in the conflict printed clauses or any printed clause or any pr

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SPECIAL USE APPLICATION AND REF	ك الله PART	d. District (7-8)	a. Us	er number (9-12)	f. Kind of use (
Ref: FSM 2712	ERVI		<u>03</u>	2724	:	420
,	TAOS	g. State (16-17)	h. Co	unty (18-20)	k. Card No. (21)	
	FORE		35	039		<u>1</u> .
PART I - APPLICATION (To be con	mpleted by applica	nt)				
Application is hereby made for a permit 1. Description of land: (Attach MAP or PLA	to use National For	est land as indicat	ed below:			· · · · · ·
A TWO ACRE TRACT RANGE 4 WEST, RI FROM OUR PRESENT	O AKKIDA LU	UNIY. NEW N	41- X I C C	AND AN	ACCESS RO	DAD
2. Purpose of use.				·		
3. Land Area applied for (For Rightwow-Tax	show length and width	and conven to acres	s; for other	rses store active		
Length in: 30	rs) or	Width	200	= <u>2</u>	·•·	
4. Improvements a. Description						
			·			
b. Plans attached Yes X No. 1	f ''NO'' show date pla	ا = المناسسة الإنساء		JULY 15, 1	1973	
c. Estimated cost	d. Construction will b	cegin within		nstruction will be o		

(Months)

Date of Application

JUNE 1, 1973

(Months)

P. O. BOX 2078 FARMINGTON, NEW MEXICO

Applicant's address

18. As a further guarantee of the faithful performance of the provisions of the permittee's special use permits for oil and gas exploration on the Carson National Forest, the permittee has delivered and agrees to maintain a surety bond in the amount of ten thousand dollars (\$10,000.00). Should the sureties or bonds delivered under this permit become unsatisfactory to the Forest Service, the permittee shall, within thirty (30) days of demand, furnish a new bond with surety, solvent and satisfactory to the Forest Service.

The permittee agrees that all moneys deposited nature these permits may, upon failure on his part to fulfill all and singular the requirements herein set forth or made a part hereof, be retained by the United States to be applied as far as may be to the satisfaction of his obligations assumed hereunder, without prejudice whatever to any other rights and remedies of the United States.

- 19. Chemical materials may not be used to control undesirable woody and herbaceous vegetation, insects, rodents, etc., without the prior written approval of the Forest Service. A report of planned use of pesticides will be submitted annually by the permittee on the due date established by the Forest Supervisor. The report will cover a 12 month period of planned use beginning 3 months after the reporting date. Information essential for review will be provided in the form specified. Exceptions to this schedule may be allowed only when unexpected outbreaks of pests require control measures which were not anticipated at the time the annual report was submitted.
- 20. This permit shall have no force or effect until the permittee has signified his acceptance of its provisions and conditions by signing the original and all carbon copies and returning the copies to the Forest Supervisor.
- 21. A muffler or spark arrester satisfactory to the Forest Service shall be maintained on the exhausts of all trucks and tractors or other internal combustion engines used in connection with this permit.

The permittee will make arrangements to have all equipment inspected for compliance with fire requirements prior to entry onto the National Forest. In addition to an adequate muffler or spark arrestor all vehicles or equipment will have a shovel. All heavy equipment and vehicles except sedans and pickups will also be equipped with a fire extinguisher.

Each drilling rig will be equipped with adequate fire extinguishers and a tool cache containing a minimum of 3 shovels and 2 axes.

- 22. The permittee shall save the United States harmless from and indemnified against claims for injury to persons or damages to property, due to development, operation or use under this permit.
- 23. All liquids and solids discharged from the well will be vented into storage tanks or fenced drip pits. The permittee will provide that the location and all equipment will be kept in satisfactory condition to prevent damage to livestock and wildlife.
- 24. The permittee shall take all practicable precautions to minimize damage to the soil, and to prevent the creation of conditions conducive to continuing or accelerated soil erosion. The precautions may include but shall not necessarily be limited to, bank sloping, benching, wattling, sod planting, seeding, fertilizing, and mulching as determined by the Forest Service to be practicable and necessary. All earth cuts or fill slopes on any disturbed areas which are favorable to revegetation or other areas on which the soil and/or ground cover is destroyed in the course of construction, will be revegetated with suitable vegetation or otherwise treated by the permittee as required by the Forest Supervisor. Such seeding or planting shall be done at a time of the year, in a manner, and with the kinds and amounts of species which in the opinion of the Forest Supervisor offers the best chance of success.
- 25. A chemical toilet or similar adequate sanitary facilities will be provided on the location while men are regularly employed there. Untreated sewage will not be permitted to enter any stream course.
- 26. If, during construction, items of a substantial archeological or paleontological value are discovered, or a known deposit of such items is disturbed, the permittee will cease work in the area so affected. He will then notify the Forest Service and will not resume work until written approval is given.
- 27. This permit authorizes only such use and occupancy of National Forest land as is essential for purposes directly connected with the construction, maintenance, and use of the road and well site. It does not authorize uses such as borrow pits, stockpiles, quarries or any other similar use except with the written approval of the Forest Supervisor.

- 28. All or portions of the work herein described for revegetation, brush disposal, fence construction and/or reseeding for which the permittee is responsible, may upon written request of the permittee and approval by the Forest Supervisor be performed by the Forest Service on a opperative or assistance basis under Section 5, Act of April 24, 1959, 64 Stat. 83, U.S.C. 572. When the work is to be so performed, the permittee shall make advance deposits as requested by the Forest Service. The total deposits will be sufficient to cover the cost of the work including necessary overhead charges. Deposits for the control of erosion may be used to maintain installations made for erosion control for a period not to exceed three years or until site stabilization is accomplished, whichever is less. Advance estimates of the cost of this work may be obtained from the Forest Supervisor.
- 29. The road will be constructed in accordance with the specifications set forth in Exhibit I. Cuts in earth will not be steeper than 2:1, cuts in rock will not be steeper than 1/4:1. Fill material will not be steeper than 2:1. All roads will be ditched and crowned with adequate wing ditches and culverts for proper ditch relief.
- 30. This road will be maintained a minimum of twice each year. To insure proper care of the improvements, the Forest Officer may require more frequent maintenance.
- 31. To protect vegetation and prevent scorching of top soil, drilling gas will be burned in a pit and against a dirt bank.
- 32. Gates, cattleguards, culverts and other structures installed as part of this road shall become the property of the United States and may not be removed without the consent of the Forest Officer. The Forest Service, or its cooperator, (with Forest Service consent) may improve this road in any manner so long as it does not materially interfere with its use by the permittee. Specifications for construction of these improvements are given in Exhibit 2.
- 33. None of the conditions of the permit as set forth herein can be varied or modified, except with the written consent of the Forest Supervisor.
- 34. If the use granted under this permit is not exercised within one calender year from date of issue the permit will be terminated.
- 35. The prescribed seed mixture for revegetation of disturbed areas is:

Crested Wheatgrass - 4 lbs/acre
Pubescent Wheatgrass - 6 lbs/acre
Sand drop seed - 1 lb/acre
Burnet - 1 lb/acre

36. All construction slash will be buried or chipped.

- 37. No off-road vehicle travel in the reseeded area will be tolerated.
- 38. All road cut-and-fill slopes within the revegetated area will be drilled with the prescribed seed mixture.
- 39. The permittee will furnish and install nine 18" CMP as located by the the Forest Officer.

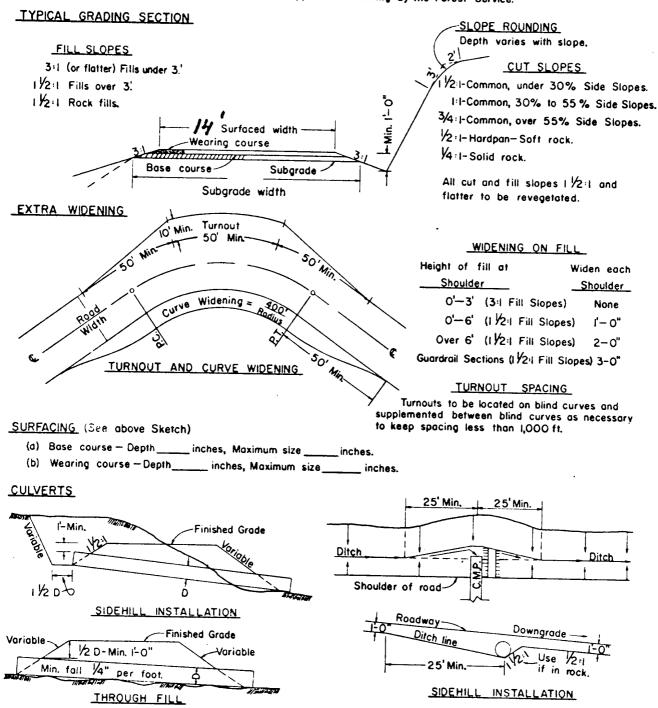
U.S. FOREST SERVICE-REGION 3

MINIMUM STANDARDS FOR SINGLE LANE ALL WEATHER ROAD

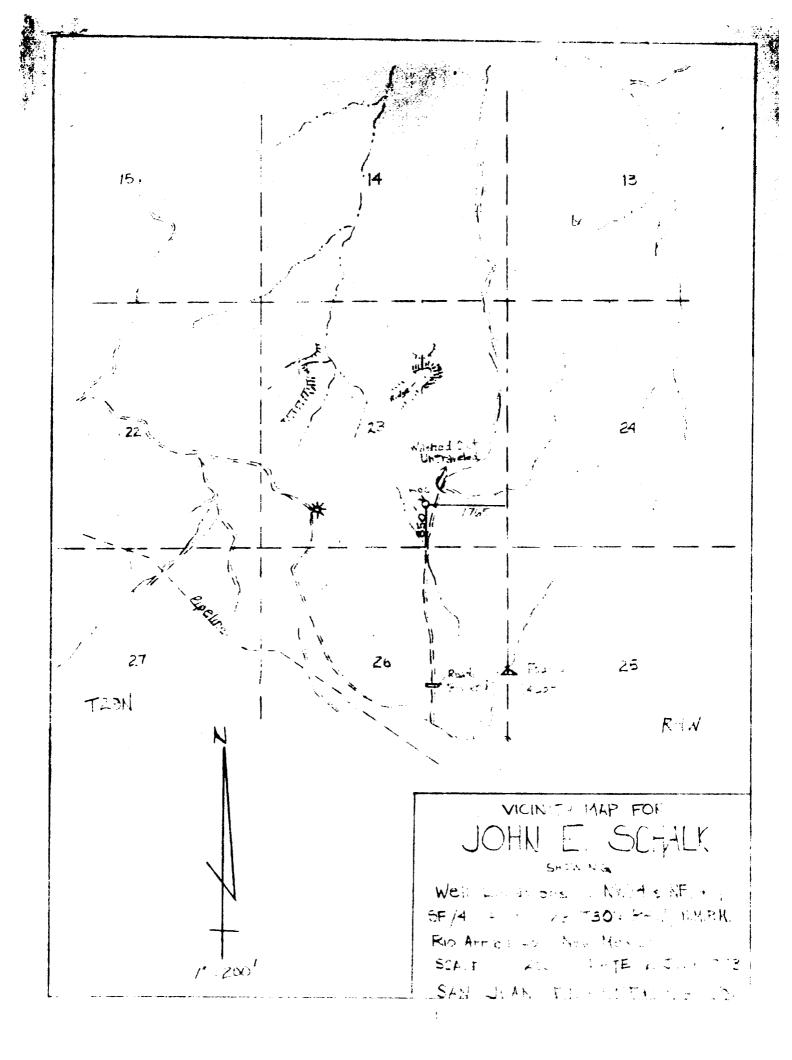
DESIGN CRITERIA

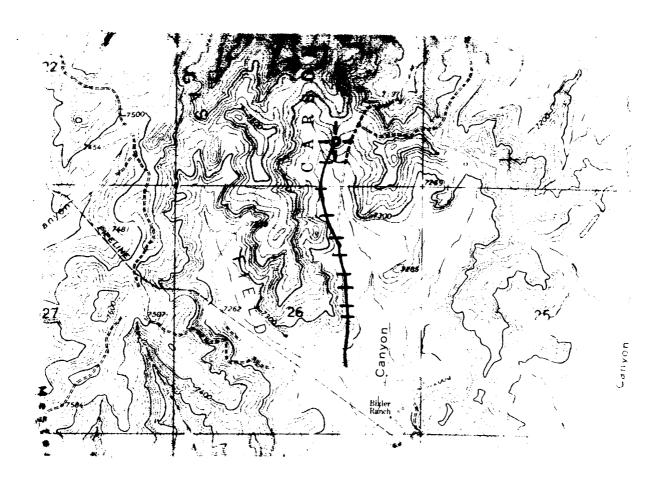
Grade — Maximum of 8% unless approved in writing by the Forest Service.

Alignment - Minimum radius 100 ft. unless approved in writing by the Forest Service.



All culverts must discharge at natural ground level unless slope under pipe is protected by rock fill. Gradient of culverts on Sidehill Installation not less than approaching ditch gradient. For spacing of Ditch Relief Culverts sec F.S.M. 5313.54.





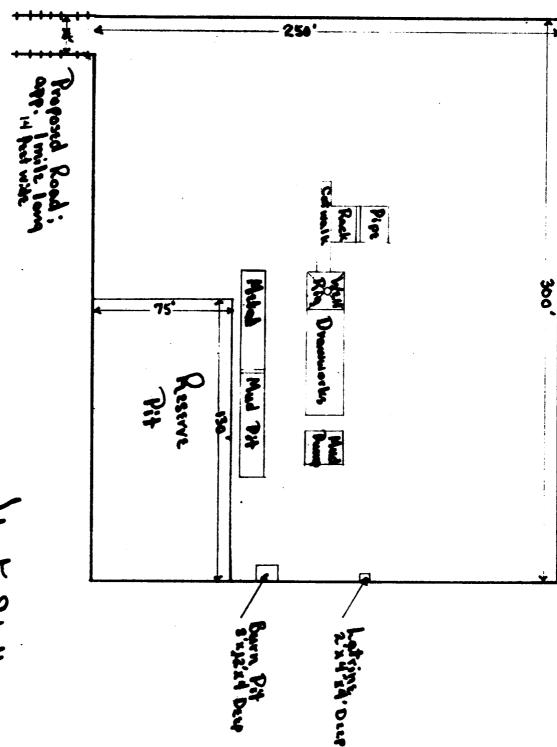
Proposed Road; along old road app. I mile long
14 feet wide

Proposing 9.30 Poot

John E. Schalk Lone Star Industries 49-2 986.23, T30 N. R4W

Scale

8.



John E. Schalk
Lone Star Industries 49-2
SEC. 23. 730N, RAW