SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

DRILL NOTE OF WALL OUT. OAS STORE SOME SOME SOME SOME SOME SOME SOME SOM	. / DE	PARTMENT OF TH	E INTERIOR	reverse side)	30 - 039 - 20803 5. LEASE DESIGNATION AND SERIAL NO.
DRILL IX DEPEN PLUG BACK T. DRIVE CORRECT VALUE OF THE CORRECT VALUE	APPLICATION FO			R PLUG BACK	
SCHALK - 49 SCHAL	DRILL				7. UNIT AGREEMENT NAME
LONE STAR INDUSTRIES, INC. C/O JOHN E. SCHALK ADDRESS OF OPERATOR P.O. BOX 2078, FARMINGTON, NEW MEXICO 87401 LOCATION OF WILL (Report Joeran) P.O. BOX 2078, FARMINGTON, NEW MEXICO 87401 LOCATION OF WILL (Report Joeran) LOCATION OF WILL (Report Joeran) LOCATION OF WILL (Report Joeran) A proposed prod. 2006 4. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR PORT OFFICE S.D. DIRECTIC FOR SHOULD LOCATION S.D. DIRECTIC FOR THOUGH AND THE WEST LINE ALSO DIRECTIC FOR THOUGH AND THE WEST OFFI AND THE WEST LINE ALSO DIRECTIC FOR THOUGH AND THE WEST OFFI AND THE WEST LINE ALSO DIRECTIC FOR THOUGH AND THE WEST OFFI AND THE WEST LINE S.D. DIRECTIC FOR THOUGH AND THE WEST OFFI AND THE WEST LINE S.D. DIRECTIC FOR THOUGH AND THE WEST OFFI AND THE WEST TO THE WILL THE WILL ATTACH LOCATION TO NAME THE WILL AS AND DIRECTION FOR THE WILL ATTACH LOCATION TO NAME THE WILL AS AND DIRECTION FOR THE WILL AS AND DIRECTION TO NAME WILL AS AND DIRECTION TO NAME WILL AS AND THE WILL AS AND DIRECTION TO NAME WILL AS AND THE WIL	OIL GAS WELL T	OTHER			-
P.O. BOX 2078, FARMINGTON, NEW MEXICO 87401 I. DOZATY OF WALL (Report footbook dearly and in accordance with any State requirements.*) 1007; FROM THE NORTH LINE, 1220; FROM THE WEST LINE At proposed gred, 2002 4. UNITARIE IN MILES AND DIRECTION FROM MEASEST TOWN OR POST OFFICE.* 50 MILES EAST OF BLOOMFIELD, NEW MEXICO 50 DIRECTOR PROPOSED* 10 DIRECTOR PROPOSED* 10 DIRECTOR PROPOSED* 11 PROPOSED PROPOSED* 12 COCHT OR PARISE IN STATE 13 PROPOSED CARISO OF ACRES IN LEASE 14 LOCATION OF THE LASS.* 15 PROPOSED CARISO OF ACRES IN LEASE 16 COCHT OR PARISE IN STATE 17 MILES AND SOLVEY OF PARISE IN STATE 18 PROPOSED CARISO OF ACRES IN LEASE 19 PROPOSED CARISO OF ACRES IN LEASE 10 PROPOSED CARISO OF ACRES IN LEASE 10 PROPOSED CARISO OF ACRES IN LEASE 11 PROPOSED CARISO OF ACRES IN LEASE 12 PROPOSED CARISO OF ACRES IN LEASE 14 PROPOSED CARISO OF ACRES IN LEASE 16 PROPOSED CARISO OF ACRES IN LEASE 17 PROPOSED CARISO OF ACRES IN LEASE 18 PROPOSED OF ACRES I	LONE STAR INDUST	RIES, INC. C/O	JOHN E. SCH	HALK	9. WELL NO.
5. DMILES EAST OF BLOOMFIELD, NEW MEXICO 8. DIAL TAKE FROM PROVIDENT OF LEASE INE, 17 No. or ACRES IN LEASE 10. No. or ACRES IN LEASE 11. No. or ACRES IN LEASE 12. No. or ACRES IN LEASE 13. No. or ACRES IN LEASE 14. No. or ACRES IN LEASE 15. No. or ACRES IN LEASE 16. No. or ACRES IN LEASE 17. No. or ACRES IN LEASE 18. No. or ACRES IN LEASE 19. No. or ACRES IN	P.O. BOX 2078, F. LOCATION OF WELL (Report loc At surface				10. FIELD AND POOL, OR WILDCAT BLANCO PICTURED CLIFFS-EAS 11. SEC., T., B., M., OR BLK.
5. DISTANCE FROM PROPOSED TO SARBERT TO NAME TO THE PROPOSED TO THE PROPOSED TO THE WARE OF CARE ASSIGNMENT TO THE WARE WILL START TO THE WARE WILL START TO THE WORK WILL START TO THE WARE WILL START TO THE WORK WILL START WORK					!
R. DISTANCE PRODUCTIONS ON THIS LEASE, PT. TO NAMES WELL, DELLAND, COMPLETE, 1/2 MILE 4266' ROTARY 1. REMATIONS (Show whether DP, RT, GR, etc.) TIII, 0 GR PROPOSED CASING AND CEMENTING PROFRAM SIZE OF CASING WEREIT PER POOT SETTING DEPTH 25 SACKS 12-1/4" 8-5/8" 24 24 250' 250 SACKS WILL DRILL WITH ROTARY TOOLS TO TEST THE PICTURED CLIFFS FORMATION. WILL RUN AN INDUCTION LOG & FORMATION DENSITY CALIPER GAMMA RAY LOG AT TOTAL DEPTH. IF PRODUCTIVE, WILL CEMENT 4-1/2" CASING AND PERFORATE AS NEEDED. ESTIMATED TOPS OUO ALAMO - 3201' KIRTLAND - 3421' PICTURED CLIFFS 3775' TOTAL DEPTH - 4276' S. MAGAL SENSE RESCRIPE PROFOSED PROGRAM: If proposal is to deepen or plug back, give data on necessary productive were as all proposed or productive as all measured and true vertical depths. Give blowout proposed for proposed or productive professor is and measured and true vertical depths. Give blowout proposed for Productive as all measured and true vertical depths. Give blowout proposed for Productive as all measured and true vertical depths. Give blowout proposed for Productive as all measured and true vertical depths. Give blowout proposed for Productive as all measured and true vertical depths. Give blowout proposed for Productive as all measured and true vertical depths. Give blowout proposed for Productive as all measured and true vertical depths. Give blowout proposed for Productive as all measured and true vertical depths. Give blowout productive proposed for Productive and Proposed for Productive ACENT. SECOND PROVIDED CONTROL PROFITE ACENT. DATE 12-4-73.	15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.	10071	16. NO. OF ACRES	S IN LEASE 17. NO	OF ACRES ASSIGNED THIS WELL
TILE AGENT OF STATE PROPOSED PROBRAM If proposal is to deepen or plug back, give data on brestal productive some and proposed over productive some and proposed some subsurface locations and document and true vertical depths. **TILE** AGENT** **PROVALDALA** **TILE** AGENT** **PROVALDALA**	 DISTANCE FROM PROPOSED LOC TO NEAREST WELL, DRILLING, 	CATION® COMPLETED,	19. PROPOSED DE		PARY OR CABLE TOOLS
PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE SIZE OF CASING WESTELL FEE POOT 250 SACKS 12-1/4" 8-5/8" 24# 250' 250 SACKS 4-1/2" 7-7/8" 10.5# 4266' 300 SACKS WILL DRILL WITH ROTARY TOOLS TO TEST THE PICTURED CLIFFS FORMATION. WILL RUN AN INDUCTION LOG & FORMATION DENSITY CALIPER GAMMA RAY LOG AT TOTAL DEPTH. IF PRODUCTIVE, WILL CEMENT 4-1/2" CASING AND PERFORATE AS NEEDED. ESTIMATED TOPS OJO ALAMO - 3201' KIRTLAND - 3421' PICTURED CLIFFS 3775' TOTAL DEPTH - 4276' S. MACAL SPACE DESCRIBE PROBORD PROGRAM: If proposal is to deepen or plug back, give data on breash: productive zone and proposed new productive zone and proposed new productive zone in the data on subsurface locations and measured and true vertical depths. Give blowout treatments are greater in special. If and the period directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout treatments are greater and proposed new productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths.	21. ELEVATIONS (Show whether DF.	RT, GR, etc.)			22. APPROX. DATE WORK WILL START
12-1/4" 8-5/8" 24# 250' 250 SACKS 4-1/2" 7-7/8" 10.5# 4266' 300 SACKS WILL DRILL WITH ROTARY TOOLS TO TEST THE PICTURED CLIFFS FORMATION. WILL RUN AN INDUCTION LOG & FORMATION DENSITY CALIPER GAMMA RAY LOG AT TOTAL DEPTH. IF PRODUCTIVE, WILL CEMENT 4-1/2" CASING AND PERFORATE AS NEEDED. ESTIMATED TOPS OJO ALAMO - 3201' KIRTLAND - 3421' PICTURED CLIFFS 3775' TOTAL DEPTH - 4276' NUMBER PROPURED IN COMPANY: If proposal is to deepen or plus back, give data on breach productive zone and proposed new productive control of proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout control of proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout control of proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout control of proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout control of proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout control of proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout control of proposal is to drill or deepen directionally. State office use: **TITLE** AGENT** **PROVALDATA**	3.			ring Program	DECEMBER 5,1973
WILL RUN AN INDUCTION LOG & FORMATION DENSITY CALIPER GAMMA RAY LOG AT TOTAL DEPTH. IF PRODUCTIVE, WILL CEMENT 4-1/2" CASING AND PERFORATE AS NEEDED. ESTIMATED TOPS OJO ALAMO - 3201' KIRTLAND - 3421' PICTURED CLIFFS 3775' TOTAL DEPTH - 4276' NABOLA SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive gone and proposed new productive revenues program. If any. TITLE AGENT. DATE 12-4-73. (This space for Foderal - State office use)	12-1/4" 8-	5/8" 24	# 25	25	0 SACKS
OJO ALAMO - 3201' KIRTLAND - 3421' PICTURED CLIFFS 3775' TOTAL DEPTH - 4276' NOW, SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive one if proposal is to drill or deepen directionally, give perfinent data on subsurface locations and measured and true vertical depths. Give blowout revenue program, if any. SHOND JACK STATE AGENT DATE 12-4-73. OTHER SPACE Follows: State office use)	WILL RUN AN INDU AT TOTAL DEPTH.	CTION LOG & FO IF PRODUCTIVE	RMATION DENS	SITY CALIPER	GAMMA RAY LOG
KIRTLAND - 3421' PICTURED CLIFFS 3775' TOTAL DEPTH - 4276' NAME SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on tresent productive zone and proposed new productive one—if proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout reventer program, if any. SIGNED TITLE AGENT DATE 12-4-73 (This space for Federal — State office use)		<u>ES</u>	TIMATED TOPS	<u>)</u>	
one—if proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout reventer program, if any. SERSE OF STATE AGENT DATE 12-4-73. (This space for Federal - State office use) OPPROVAL DATE.		K I RTLAN P I CTURE	D - 3 ^L D CLIFFS 37	+21 ' 775 '	CON COM
SHONE OF Federal State office use) OTHIS Space for Federal State office use) OPPRIVAL DATA OPPRIVAL DATA					
CThs space for Federal - State office use) PERMIT No	4. SHANEO DE A		TITLEAGE1		
The state of the s	(This space for Federal - St	ate office use)			
	(A)			DAT	PATE

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACERAGE DEDICATION PLAT

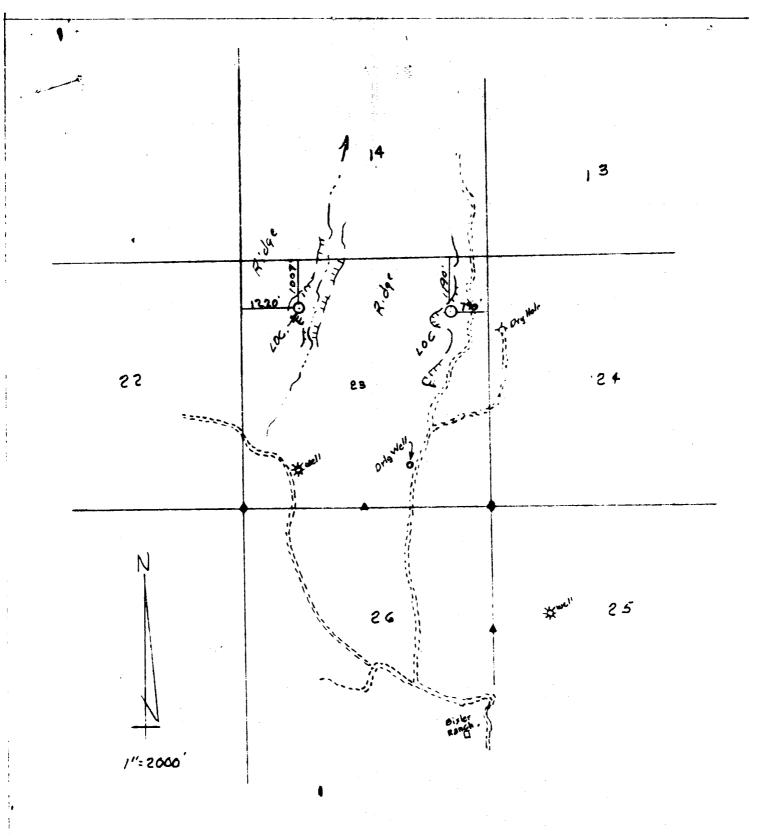
Operator Lease Well No. SCHALK- 49 INC. LONE STAR INDUSTRIES Unit Letter Section Township Range County 30 NORTH 4 WEST RIO ARRIBA Actual Footage Location of Well: 1007 feet from the line and 1220 feet from the WEST Ground Level Elev I Pool Producing Formation Dedicated Avereage: 7111.0 Acres 1. Outline the acerage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty), 3. If more than one lease of different ownership is dedicated to the well, have the interests of all own by communitization, unitization, force-pooling. etc? DEC 1 4 1973 () Yes () No If answer is "yes," type of consolidation ... If answer is "no," list the owners and tract descriptions which have actually consolidated. (Use revers eOlde CONdisCOM DIST. 3 No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my					
1	knowledge and belief.				
\searrow	the 20dall				
	JOHN E. SCHALK				
ا ۔	AGENT Company				
į	LONE STAR INDUSTRIES, INC				
-	12-4-73				

I hereby certify that the well location shown on this plot was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

28 November, 1973
Date Surgeral Engine
heere
Registeral Professional Engineer and Surveyor
TAMES IP SLEESE
1 × 640 CC
Certificate N. M.E.
A LESS OF LESS



VICINITY MAP

FOR

LONE STAR INDUSTRIES

Showing

Well Locations in N/2 Sec. 2.

T30N. R4W, NIMPM, Rio

Arriba County, New Mexico

Jon -uan Eug reering Company - Farming on New Mexico

United Statés Department of Agriculture b. Region (3-4) c. Ferest (5-6) Pérest Service 03 02 SPECIAL USE PERMIT d. District (7-8) e. Use number (9-12) f. Kind of use (13-15) 2724 03 420 Act of June 4, 1897 This permit is revocable and nontransferable g. State (16-17) h. County (18-20) k. Card no. (21) (Ref. FSM 2710) 35 039 Permission is hereby granted to Lone Star Industries of c/o John Schalk hereinafter called the permittee, to use subject to the conditions set out below, the following described lands or improvements: A two acre tract in the NW 1/4 NW 1/4 Section 23 and a road right-of-way through the NW 1/4 NW 1/4 Section 23; The S1/2 SW 1/4, NE 1/4 SW 1/4 and lot 5 Section 14; lots 7, 8, 11 and 12 Section 11: and lots 1, 2, 3 and 4 Section 13 T30N R4W NMPM as shown on the attached This permit covers _____ acres and/or _____ miles and is issued for the purpose of: Constructing, drilling and maintaining the Lone Star Schalk 49-4 gas well. 2. Constructing, using and maintaining an access road thereto under terms of lease NM 4449. 1. Construction or occupancy and use under this permit shall begin within _____ months, and construction, if any, shall be completed within ______ months, from the date of the permit. This use shall be actually exercised at least_____ ____days each year, unless otherwise authorized in writing. 2. In consideration for this use, the permittee shall pay to the Forest Service, U.S. Department of Agriculture, the sum of Free 36 CFR 251.2 Dollars (\$ ______) for the period ______ 19_____, to _____ from ___, and thereafter annually on Dollars (\$ Dollars (\$ Provided, however, Charges for this use may be made or readjusted whenever necessary to place the charges on a basis commensurate with the value of use authorized by this permit. 3. This permit is accepted subject to the conditions set forth herein, and to conditions 18 <u>37</u> attached hereto and made a part of this permit. SIGNATURE OF AUTHORIZED OFFICER NAME OF PERMITTEE DATE 12-4-73 PERMITTEE Lone Star Industries TITLE TITLE DATE ISSUING ann OFFICER LARRY SOEHLIC 12/3/73 Α. District Forest Ranger

- 4. Development plans; layout plans; construction, recommendation, or alteration of improvements; or revision of layout or construction plans for this area must be according advance and in writing by the forest supervisor. Trees or shrubbery on the permitted that was be removed or destroyed only after the forest officer in charge has approved, and has marked are 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 and any of the following clauses or any provisions thereof, the following clauses will control.

18. As a further guarantee of the faithful commence of the provisions of the permittee's special use permittee that 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 under 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 District Ranger. 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 the schedule may be allowed only when unexpected outbreaks of pestimate 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 District Ranger.
- 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 District Ranger 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 requiredby the District Ranger. 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 District Ranger 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 archaeological 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 District Ranger 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 District Ranger.
- 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 operative 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 District Ranger.

- 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 District Ranger 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 District Ranger. 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 District Ranger.
- 34. If the use granted under this permit is not exercised within one calendar year from date of issue the permit will be terminated.
- 35. The prescribed seed mixture for revegetation of disturbed areas is shown in Exhibit #3.
- 36. All construction slash will be buried, chipped or removed.
- 37. When roads become dry and dusty they will be watered to reduce rutting, improve visibility and reduce air pollution.

U.S. PUNES.

LUIUN S

UBLE LANE ALL WEATHER ROAD MINIMUM STANDARDS FOR

DESIGN CRITERIA

Grade — Maximum of 6 % unless approved in writing by the Forest Service.

Alignment - Minimum radius 200 ft. unless approved in writing by the Forest Service.

TYPICAL GRADING SECTION

FILL SLOPES

31 (or flatter) Fills under 3.

1/211 Fills over 3!

1/21 Rock fills.

Up Augustine Langen Subgrade-Base course Subgrade width

-SLOPE ROUNDING Depth varies with slope.

CUT SLOPES

1/2:1-Common, under 30% Side Slopes. 1:1-Common, 30% to 55 % Side Slopes.

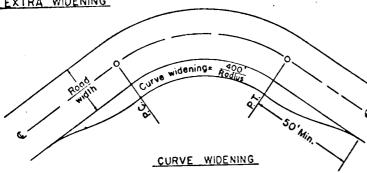
3/4: + Common, over 55% Side Slopes.

1/2:1-Hardpan-Soft rock.

First Sould rock

All cut and fill slopes 1 /2:1 and flatter to be revegetated.

EXTRA WIDENING



WIDENING ON FILL

Widen each Height of fill at Shoulder Shoulder

> 0'-3' (3:1 Fill Slopes) None

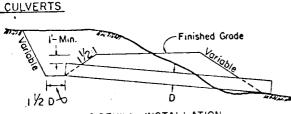
0'- 6' (1 1/2:1 Fill Slopes) 1'-0"

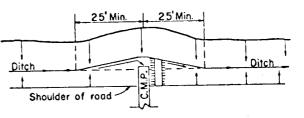
Over 6' (1/24 Fill Slopes) 2'-0"

Guardrail Sections (1/24 Fill Slopes) 3-0"

SURFACING (See above Sketch)

- (a) Base course—Depth_____inches, Maximum size____inches.
- (b) Wearing course—Depth_____ inches, Maximum size____ inches.
- (c) Bituminous surface See Supplemental Specifications.





SIDEHILL INSTALLATION

Finished Grode 1/2 0-Min 1-0" / Min. fall 1/4" per foot THROUGH FILL

Roadway if in rock.

SIDEHILL INSTALLATION

All culverts must discharge at natural ground level unless slape 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 TOO FSM 5613.54.

Commission to the private land owner

48 - 16 14 19 Mile 1.

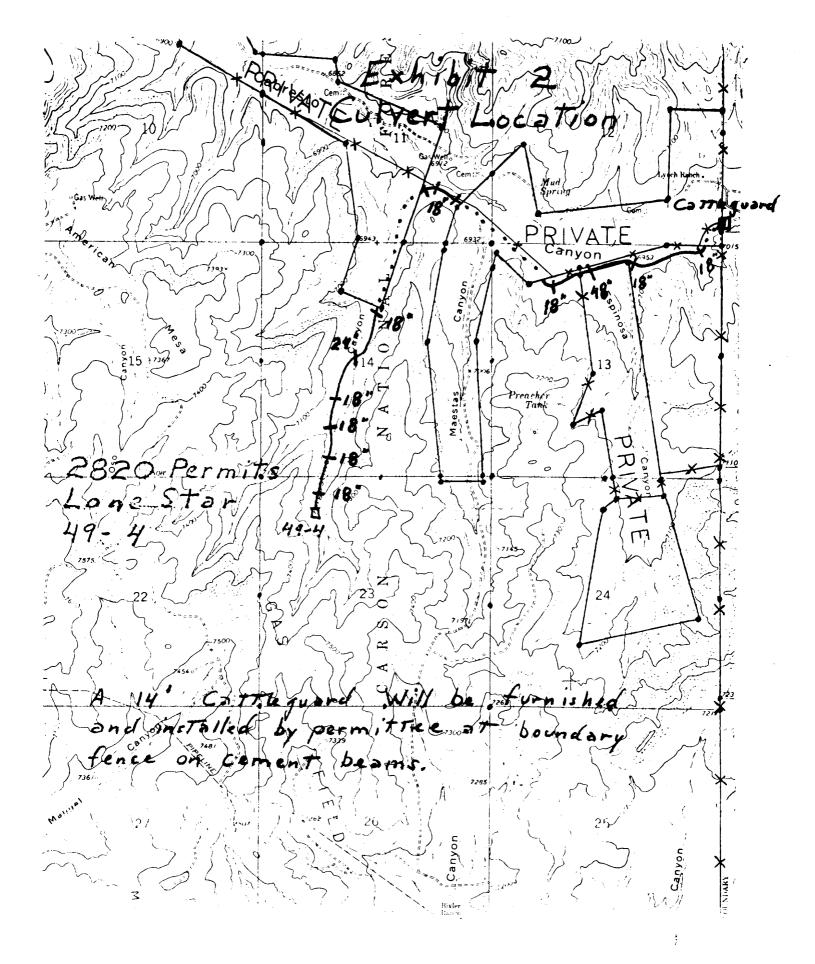
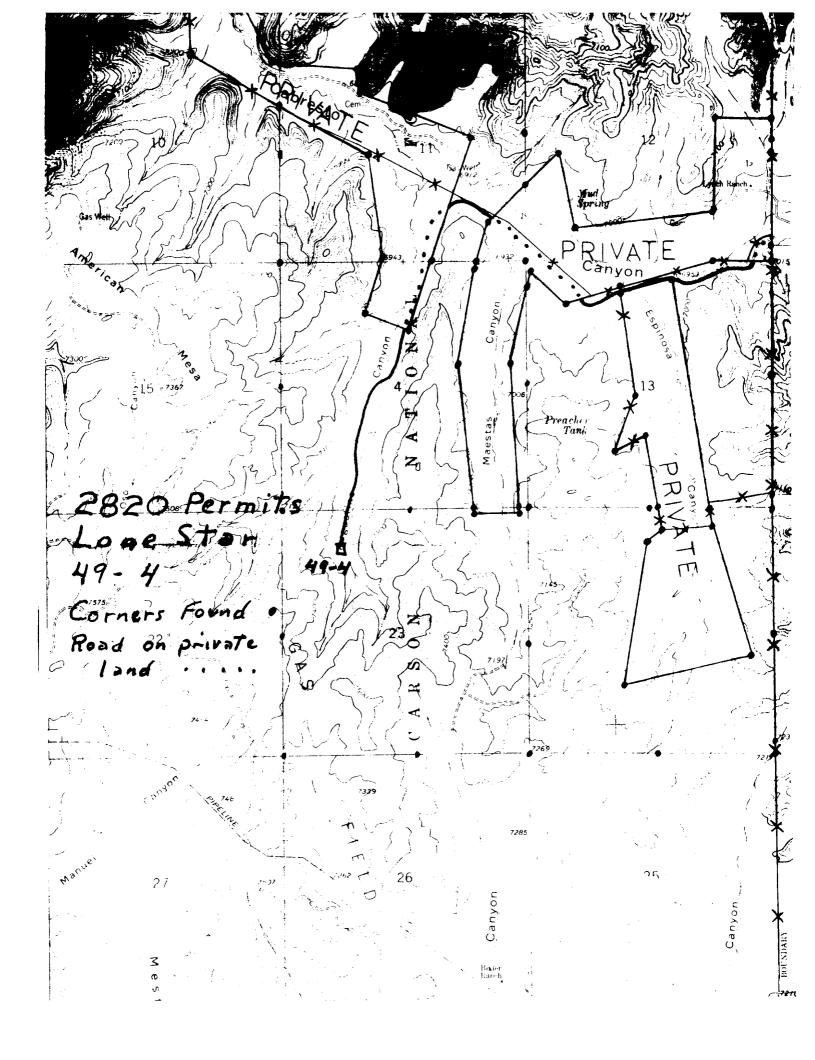


EXHIBIT #3

SEED MIXTURE

Crested Wheat	4 lbs. per acre
Pubescent Wheat	6 lbs. per acre
Sanu drop	1 lb. per acre
Ranger Alfalfa	l lb. per acre



o. 50.

Proposed Road;
app. Komile long

250' Rack Cat walk Heil Drawworks Mulah 300 75' RESERVE Mud PH

John K. Schalk

Lone Star Industries 49-4 Sec. 23, 730N, R4W

Proposed Road; app. Yomile long
14 feet wide

John E. Schalk Lone Star Industries 47-4 956.23, T30 N. R4W

Scale 1 mile 2