STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

| IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING: | M. S. 12/8/ 12/8/ CASE NO. 9736 12/11 ORDER NO. R- 9082 |
|---|---|
| APPLICATION OF WALLES PRODUCTION CON | IPINY |
| FOR A WATERFLOOD PROJECT, COUNTY, NEW MEXI | ICO |
| ORDER OF THE DIVISION | <u>ON</u> |
| BY THE DIVISION: | |
| This cause came on for hearing at 8:15 a.m. on, Fe, New Mexico, before Examiner Michael E. Stogner. | September 6, , 1989, at Santa |
| NOW, on this day of | |
| FINDS THAT: | |
| (1) Due public notice having been given as rejurisdiction of this cause and the subject matter thereof. | equired by law, the Division has |
| (2) The applicant, (Able feeduction), seeks waterflood project on its (Volta Tento Acase Comprising to | he swy 1/2 st. sysof Section |
| , Township 19 Source , Rar | nge 33 East, NMPM, |
| <u>Lea</u> County, New Mexico, by the | injection of water into the |
| Sould Tonto Yales - Sewn through its the open-hole intervallocate Rivers Port Snow approximately 2900 feet to 3/13 | ted /150 feet from |

Tonto Well No. 7

| the Sout | 6 | line and | 990 | feet from the | East | line |
|---|----------------------------|-------------------------------------|--|--|--|---|
| (Unit | I |) of Sectio | n <u>30</u> | · | | |
| current rese correlative a injection. | The volu | mes which | roposed inje | proposes to ection well and the herefore not be in | inject/do not e e offsets theret paired by the | xcded the o and the proposed |
| and should | | | | area are in an adv stripper wells." | anced state of | depletion |
| Ardely Book of the | | | oposes to uti | dize the o histood in the | | jectwaler mai krom |
| 4 | (4) T | he propose | d waterf: | lood area is | within the | Oil |
| | | | | Area" which | | |
| the prov | isions o | f Division | Rule R-1 | 111-P. | | |
| 5 k | - <i>5</i> /5) A | pplicant h | as pro vi o | ded Noranda E | xploration | |
| | , | | | ne area, with | | the |
| | | | | n C-108 with | | |
| | | | | its waiver wi | | |
| | | | | ection to the | | |
| | | | | proposed. | | |
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| le - | (8) W | hen the pro | oposed in | njection well | , Wallen To | nto |
| cased an | d cemen | <i>pursuant to</i> . tedy as a p | Special Pri roducing | d and complete | <i>lyahdl, D.</i> Rivers | 7 |
| (6) enters only | The ope | rator should ta | ke all steps interval an | necessary to ensured is not permitted oduction or plugge | e that the injected to escape i | eted water |
| feet; the cas approved le | ing-tubing ak-detection | bing installed annulus shoul | in a packer d be filled v ild be attac | shed through set at approxima with an inert fluid; hed to the annulu | tely <u>2800</u> and a pressure | gauge or |
| 1 + (8) be pressure- | | | | rations, the casing of the surface down | | |

(9) The Director of the Division should be authorized to administratively approve an increase in the injection pressure upon a proper showing by the operator that such high

at the wellhead to no more than 1743 psi.

The injection well or injection pressurization

system should be so equipped as to limit injection pressure

setting depth, to assure integrity of such casing.

| SECTION(S) APPLIED FOR 102 |
|--|
| DATE APPLICATION RECEIVED April 8, 1985 |
| APPLICATION INCOMPLETE Per your letter dated December 19, 1986 (see |
| attached), the subject Siling is hereby withdrawn and is heing |
| reduced to you. |
| DATE: January 30, 1989 Sincerely, Muhaul & Hagner |
| NOTE: |
| THIS FORM LETTER MUST ACCOMPANY TWO COPIES OF THE SUPPLEMENTARY INFORMATION. |
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| |

The New Mexico Oil Conservation Division has received your

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

FINDS THAT:

NOW, on this day of *, 1989, the Division Director, having considered the testimony, the record and the recommendations of the Examiner, and being fully advised in the premises,

South Tondo Yales - Seven Rivers Paol.

| pressure will not result in migration of the injected waters from the Delawardson. |
|---|
| The operator should give advance notification to the supervisor of the Artesia District Office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity pressure-test in order that the same may be witnessed. |
| The subject application should be approved and the project should be governed by the provisions of Rules 702 through 708 of the Division Rules and Regulations. |
| IT IS THEREFORE ORDERED THAT: |
| (1) The applicant, <u>Mallen Production longs</u> hereby authorized to institute a pilot waterflood project on its <u>Mallen Vondo hear</u> , as described below, by the injection of water into the <u>South Vondo Minister</u> through its <u>Mallen Vondo Mallen</u> located <u>1650</u> feet from the <u>South Minister</u> line and <u>940</u> feet from the <u>Fast</u> |
| line (Unit 7) of Section 30 , Township |
| line (Unit) of Section, Township, Range, NMPM, County, New |
| Mexico: |
| TOWNSHIP 19 SOUTH , RANGE 33 EAST , NMPM, |
| Section 30: 54/4, 4/2 3E/4, and SE/4 5E/4 |
| |
| (2) Injection into said well shall be accomplished through |
| (2) Injection into said well shall be accomplished through 2 3/8 - inch |
| |

LEASE

PROVIDED HOWEVER THAT, the casing-tubing annulus shall be filled with an inert fluid, and a pressure gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak-detection device in order to determine leakage in the casing, tubing or packer.

| PROVIDED FURTHER THAT, prior to commencing injection operations, the casing in the subject well shall be pressure-tested to assure the integrity of such casing in a manner that is satisfactory to the supervisor of the Division's | |
|---|--|
| (3) The injection well or system shall be equipped with a pressure-limiting switch or other acceptable device which will limit the wellhead pressure on the injection well to no more than psi. | |
| (4) The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the South Touto Yales formation South Rivers In | |
| Office of the Division in advance of the date and time of the installation of injection equipment and of the mechanical integrity pressure-test in order that the same may be witnessed. | |
| (6) The operator shall immediately notify the supervisor of the Division's | |

- (6) The operator shall immediately notify the supervisor of the Division's District Office of the failure of the tubing, casing or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.
- (7) The subject waterflood project is hereby designated the Waterflood Project and shall be governed by the provisions of Rules 701 through 708 of the Division Rules and Regulations.

(8) Monthly progress reports of the waterflood project herein authorized shall be submitted to the Division in accordance with Rules 706 and 1115 of the Division Rules and Regulations.

(9) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY Director

SEAL

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| UNITED STATES SUBMIT IN TRIBUICATES STATE 1993) DEPARTMENT OF THE INTERIOR verse side) GEOLOGICAL SURVEY | Porm approved. Endget Eureau No. 40-R1421. 5. LEASE DESIGNATION AND SERIAL NO. N.M. 073240 |
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| Walter W. Krug DBA Wallen Production Company 3. ADDZESS OF OPERATOR | Wallen Tonto 9. WELL NO. |
| Box 1960 Midland, Texas 79702 4. Lication of Well (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface | # 7 10. FIELD AND FOOL, OR WILD RIvers |
| 990 FEL & 1650 FSL | S. Tonto, Yates, Seven 11. Sec., T., E., M., OR BLE, AND SURVEY OR ABBA |
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| On 7/15/78 we plugged the above well with 100 sx o through 2 3/8 tubing on bottom. Left overnight and had fallen 120', still well up inside 7" pipe. We with gel (25 sxs/100 bbl.) and placed another 100 and fill to surface with gel. Last we put 10 sx pl monument. | in morning cement filled to 1450' sxs of class H |
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| SUNDRY NOT | TICES AND REPORTS C sals to drill or to deepen or plug b ATION FOR PERMIT—" for such pr | | 8. IF INDIAN, ALLOTTEE OR TRIBE NAME |
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| 2. NAME OF OPERATOR | | | 8. FARM OR LEASE NAME |
| Walter W. Krug D.B. | A. Wallen Product | ion Company | Wallen Tonto |
| | 1, Texas 79702 | | # 7 |
| 4. LOCATION OF WELL (Report location of See also space 17 below.) | learly and in accordance with any | State requirements.* | 10. FIELD AND POOL, OR WILDCAT Rive: |
| (At surface 990 F E L & 16 | 550 F S I. | , | South Tonto, Yates, Sever |
| | | | Sec 30. T 19 S. R 33 E |
| 14. PERMIT NO. | 15. ELEVATIONS (Show whether DF, | RT, GR, etc.) | 12. COUNTY OR PARISH 13. STATE |
| ***** | GR 3589 | | Lea New Mexico |
| | opropriate Box To Indicate N | | |
| NOTICE OF INTEN | L | SUBSEQU | JENT REPORT.OF: |
| · [] | PULL OR ALTER CASING MULTIPLE COMPLETS | WATER SHUT-OFF FRACTURE TREATMENT | REPAIRING WELL ALTERING CASING |
| | ABANDON* | SHOOTING OR ACIDIZING | ABANDONMENT* |
| REPAIR WELL | CHANGE PLANS | (Other) | |
| (Other) | (0) | Completion or Recompl | of multiple completion on Well- etion Report and Log form.) |
| 17. DESCRIBE PROPOSED OR COMPLETED OPE proposed work. If well is direction nent to this work.) * | mally drilled, give subsurface locati | t details, and give pertinent dates, ions and measured and true vertica | including estimated date of starting any all depths for all markers and zones perti- |
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| 18. I hereby certify that the foregoing is | true and correct | | |
| SIGNED ALL | TITLE Eng | gineer | DATE 7/10/78 |
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| *#* | | | JUL 1 1 1978 |
| | *See Instructions | on Reverse Side | JUL 11 1978 |

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| 7) | COPY TO O. C. | |
| | Form 9-331 UNITED STATES SUBMIT IN TRIPLICATE OF THE STATES | Form approved. Budget Bureau No. 42-R1424. |
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| 20 m | GEOLOGICAL SURVEY | NM 073240 · · |
| | SUNDRY NOTICES AND REPORTS ON WELLS | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME |
| 18 1. 18 1. e. e. | (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.) | |
| | 1. OIL X GAS WELL X WELL OTHER | 7. UNIT AGREEMENT NAME |
| | 2. NAME OF OPERATOR | 8. FARM OR LEASE NAME |
| | Walter W. Krug DBA Wallen Production Company | Wallen Tonto |
| | Box 1960 Midland, Texas 79702 | , - |
| | 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* | # / 10. FIELD AND POOL, OR WILDCARRIVER |
| | See also space 17 below.) At surface | S. Tonto Yates-Sever |
| | 07 1078 | 11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA |
| | 990 FEL & 1650 FSL / JUL 2 (1010) | |
| | | Sec 30, T 19 S, R 33 |
| 3.5 | 14. PERMIT NO. 15. ELEVATIONS (Show whether pr. NT, CR. etc.) CR 3589 11 (CO) 12 (VALUE) CC | 12. COUNTY OR PARISH 13. STATE |
| | - UK 3307 | Lea New Mexic |
| 1 | Check Appropriate Box To Indicate Nature of Notice, Report, or O | ther Data |
| 10 | 용진불추는 하는 전화하는 사고 있다. 그 사고 있는 하는 하는 사고 있는 사고 | ENT REPORT OF: |
| | Subsequi | 1 |
| | TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF | REPAIRING WELL |
| | FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT | ALTERING CASING X |
| | BHOOT OR ACIDIZE ABANDON* SHOOTING OR ACIDIZING | *THE KNOONABA |
| 468 - 14 m | REPAIR WELL CHANGE PLANS (Other) Cementing | salt string |
| が30円) 第3円) | (Other) (Note: Report results Completion or Recomple | of multiple completion on Well etion Report and Log form.) |
| | DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical | including estimated date of starting any |
| | nent to this work.) * | |
| | | * |
| 1 | On July 1 & 2, 1978 we ran 2900' of 23#, 7" casin | no we then |
| 1 ₄ | pulled our 8 5/8" cave string and our 10 3/4' wa | ater shutoff |
| FAR . | string this was done on July 3 & 4, 1978. We then | a circulated |
| | and cemented the 7" with 900 sxs of Halliburton A | |
| | and 100 sxs of class "c" with 1/4# of Flo-Celo pe | |
| 3 | was circulated to pit. | EL 572, 117 572 |
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JUL 21 1978.

| | en e | U. S. GEOLOGICAL SURVEY HOBBS, NEW MEXICO |
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| 18. I hereby certify that the foregoing is true | e and correct Engineer | DATE7/12/1978 |
| (This space for Federal or State office us APPROVED BY | TITLE | JUL 21 1978 J. U. S. GEOLOGICÁL SURVEY HOBBS, NEW MEXICO |

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| The state of the s | - S. | | | TWP | RNG | NEW COUNTY | | <u>يد ۽</u> | STATE _ | ar No |
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| SUNDRY NOTICES AND (Do not use this form for proposals to drill or Use "APPLICATION FOR PE | | , |
| 1. OIL GAS OTHER | | 7. UNIT AGREEMENT NAME |
| 2. NAME OF OPERATOR | | 8. FARM OR LEASE NAME |
| Walter W. Krug DBA Wallen 8. ADDRESS OF OPERATOR | Production Company | Wallen Tonto |
| Box 1960, Midland, Texas 7 | | # 7 |
| See also space 17 below.) At surface 990 FEL & 1650 FSL | Sold Total | 10. FIELD AND FOOL, OR WILDCATRIVERS S. Tonto Yates, Seven 11. SEC., T., R., M., OR BLE. AND SURVEY OF AREA |
| 14. PERMIT NO. 15. ELEVATION | S (Show whether DF, RT, GR, etc.) | Sec 30, T 19 S, R 33 F |
| GR | 3589 | Lea New Mexico |
| 16. Check Appropriate Bo | x To Indicate Nature of Notice, Report, | or Other Data |
| NOTICE OF INTENTION TO: | r | SEQUENT REPORT OF: |
| TEST WATER SHUT-OFF PULL OR ALTER FRACTURE TREAT MULTIPLE COMP. | | REPAIRING WELL ALTERING CASING |
| BHOOT OR ACIDIZE ABANDON* REPAIR WELL CHANGE PLANS | SHOOTING OR ACIDIZING | surface casing |
| (Other) | | sults of multiple completion on Well completion Report and Log form.) |
| 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clear) proposed work. If well is directionally drilled, g nent to this work.)* | y state all pertinent details, and give pertinent dive subsurface locations and measured and true v | ates, including estimated date of starting any ertical depths for all markers and zones perti- |
| | | |
| Cut 15½" hole 225' | deep. Ran 13 3/8" casing | (68 lbs) |
| to bottom. Halliburto | n cemented 13 3/8" in ho | le with |
| 300 sacks class H wit | h 2% calcium chloride 1/ | 4 lb, |
| flo-cell per sack of | cement. Circulated 20 sa | cks of cement |
| into pit upon complet | ion. This was cemented M | ay 22, 1978 |
| at 10:00 A.M. | | |
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| | | MAY 25 1978 |
| en grown. Mighe South a fine a factor of the sign | U. S H | . GEOLOGICAL SURVEY OBBS, NEW MEXICO |
| 18. I hereby certify that the foregoing is true and corre | ect i | |
| SIGNED Nalle W. Kruf | TITLE Engineer | DATE 5-23, 1978 |
| | * 0 . | ACCEPTED FOR RECORD |
| CONDITIONS OF APPROVAL, IF ANY: | TITLE | MAY OF SOZA |
| | · | MAT 25 19/8' |
| | *See Instructions on Reverse Side | U. S. GEOLOGICAL SURVEY |

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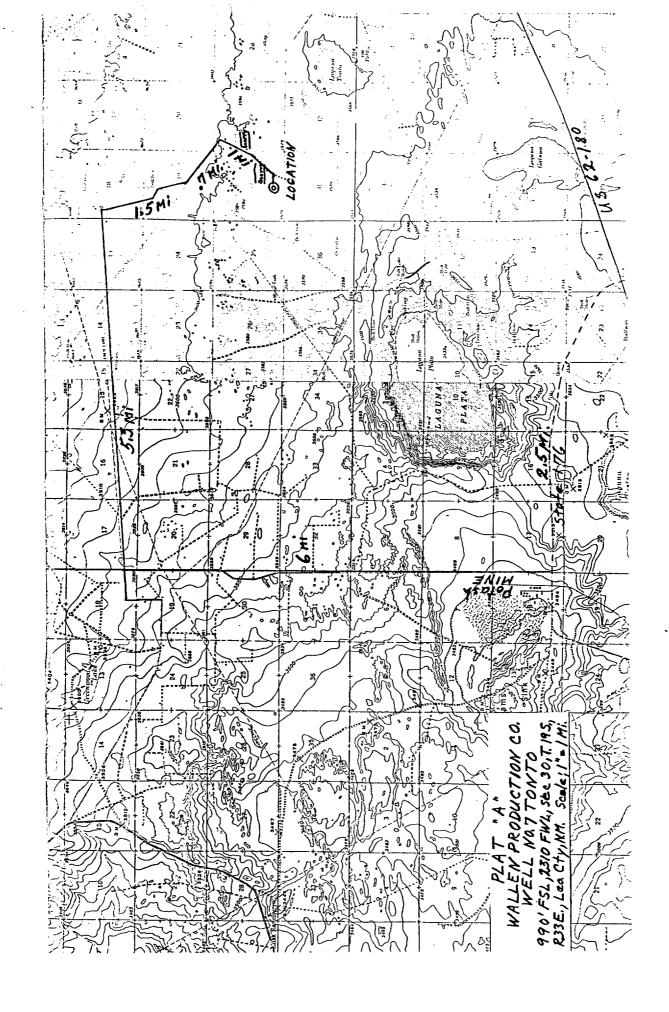
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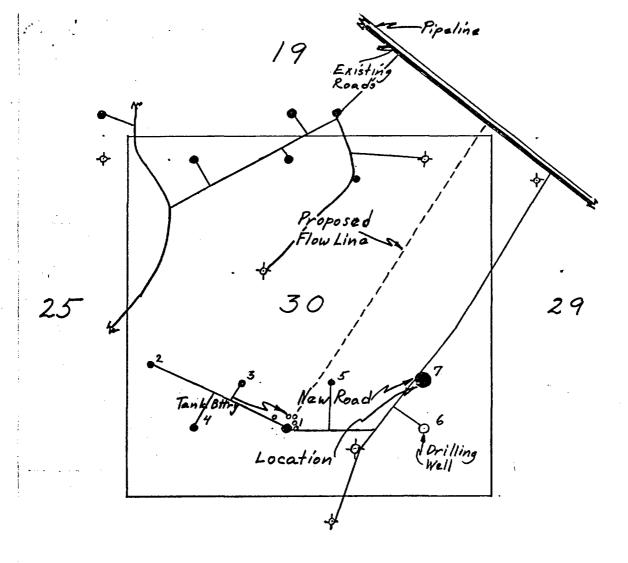
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| PERMIT NO. | | - | | APPROVAL DATI | t | <u>.</u> | <u> </u> | 33.23 | _ |
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WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section. Cresates Leose Well Ho. WALLEN PRODUCTION CO. TONTO Section Township Honge County 30 19-S 33-E LEA Astual Festage Lagation of Wells 1650 feet from the Her crid tino Producing Formation Dedicated Acreages SEVEN RIVER YATES SOUTH UNDESIGNATED 3589 40 Acres 1. Outline the acreage 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 owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation If enswer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commis-CERTIFICATION I hereby certify that the Information contained herein is true and complete to the best of my knowledge and belief. (B. M. JONES, ET AL TO 4000') JHC PRODUCTION (HUDSON & HUDSO: WALLEN I hereby certify that the well location (WALLEN) (WALLEN) shown on this plat was platted frem 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. (WALLEN) (WALLEN) (WALLEN) 40 ACRES ACRES (אטספסטו אַ אטספסט) المستعمدة المستحددات



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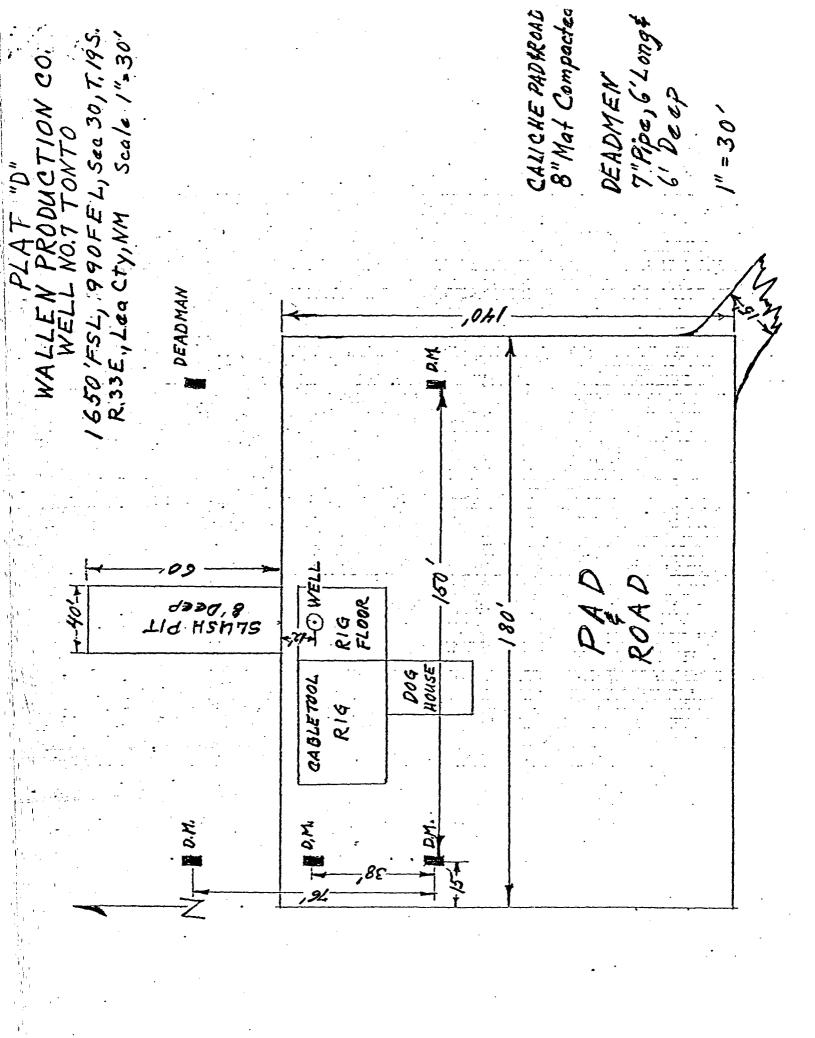
PLAT "C"

WALLEN PRODUCTION CO.

WELL NO.7 TONTO

990 F L, OF L, Sec 30, T195, R33E

Lea Cty., M.M. Scale: 1"=1000'



WALLEN PRODUCTION COMPANY

