OIL CONSERVATION DIVISION N . Dulledijs el

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501

FORM C-108 1894189d N7-1-81

APPLICA	TION FOR AUTHORIZATION TO INJECT
I.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Xyes no
II.	Operator: Lynx Petroleum Consultants, Inc.
	Address: P. O. Box 1979, Hobbs, NM 88241
	Contact party: Marc Wise Phone: 505-392-6950
III.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? yes no If yes, give the Division order number authorizing the project
٧.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
VIII.	Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
х.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Marc, L. Wise Title President
	Signature: Marc Zulin Date: 4/15/91
imdua	e information required under Sections VI, VIII, X, and XI above has been previously tted, it need not be duplicated and resubmitted. Please show the date and circumstance e earlier submittal.

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

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III. DISPOSAL WELL DATA

A. Wellbore Data

(1) Lease Name: Sprinkle Federal

Well No. : 3

Location: 1650' FNL & 460' FEL Sec. 9, T-195, R-35E Lea County, New Mexico

(2) Surface Casing: 13 3/8", 54.5#, K-55 set @ 350'

Hole Size: 17 1/2"

Cement: 400 sxs Class "C" + 2% CaCl

+ 1/4# Flocele/sx

Cement Top: Surface (Visual)

Inter. Casing: 8 5/8", 32#, K-55 set @ 3526'

Hole Size: 11"

Cement: 1200 sxs Lite + 15# salt/sx + 1/4# Flocele/sx followed

by 300 sxs Class "C"

Cement Top: Surface (Visual)

Prod. Casing : 5 1/2", 17#, N-80 set @ 10800'

Hole Size: 7 7/8"

Cement: 600 sxs 50-50 Pozmix +

2% Gel + 0.6% Halad 22 +

3# Kcl/sx + 1/2# Flocele/sx

Cement Top: 7600' (Calculated using

Caliper Log)

(3) Tubing: 2 7/8", 6.5#, N-80, EUE 8rd set @ 10390'

(4) Packer: Baker Model "R" Nickel Plated set @ 10390'

B. Formation Data

(1) Formation: Wolfcamp

Pool : Scharb Wolfcamp

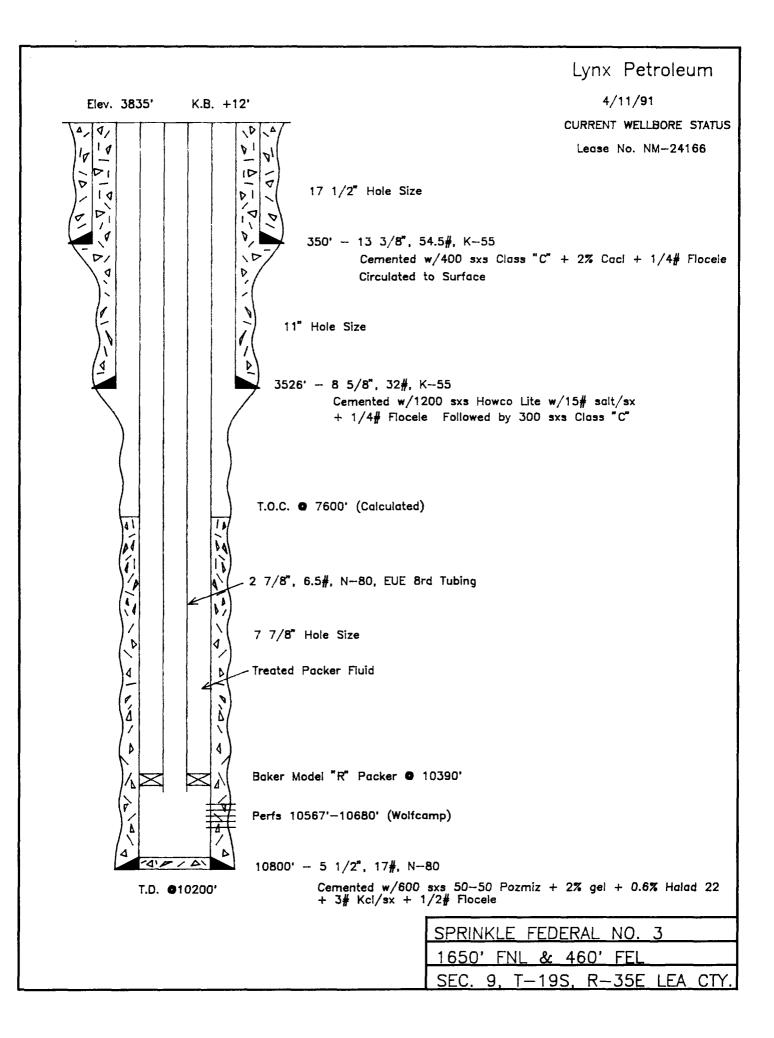
(2) Interval: 10567' - 10680' Perforated

(3) Originally drilled as a Wolfcamp producing well but was not economically productive. Cumulative produc-

tion was 1108 barrels of oil.

(4) No other zones have been perforated in this well

(5) Next higher producing zone: 9476'-9732' Bone Springs Next lower producing zone: None in the area



VI. DATA ON WELLS IN THE REVIEW AREA

VI. DATA ON WELLS IN THE REVIEW AREA (Continued)

VI. DATA ON WELLS IN THE REVIEW AREA (Continued)

(10) TEXACO (Getty Oil Co.) Scharb "10" State No. 1 1980' FSL & 660' FWL, Sec. 10, T-19S, R-35E Spud: 8/83 Elev.: 3122' G.L. T.D.: 10793' 17 1/2" Hole. 13 3/8" @ 425' w/450 sxs Circ. 11" Hole. 8 5/8" @ 4100' w/1500 sxs Circ. 7 7/8" Hole. 5 1/2" @ 10793' w/1825 sxs Circ. Perfs 10576'-10716' Wolfcamp CIBP @ 10550' Perfs 9562'-9620' B. S. CIBP @ 9510' Perfs 9086'-9114' B. S. Squeezed w/200 sxs cmt. Perfs 9094'-9104' B. S. Squeezed w/250 sxs cmt. Drilled out CIBP @ 9510' Perfs 9469'-9548' B. S. Set cmt. retainer and squeezed perfs 9469'-9620' w/150 sxs. Spot cement plugs 8958'-9230', 4005'-4152', 1753'-1900', and 10 sx surface plug. Plugged and Abandoned on 3/85.

Yates Petroleum Corp. Elev. 3844' G.L. Plugged and Abandoned 10 sxs Surface Plug 5/87 17 1/2" Hole Size 500' - 13 3/8'' csg. Cemented w/550 sxs. Circulated.Cement Plug 450' - 550' 11" Hole Size 4037' - 8 5/8" csg. Cemented w/1850 sxs Circulated. Cement Plug 3988' - 4088' Cement Plug 5200' - 5300' Cement Plug 6905' - 7005' 5 1/2" csg. Cut and Pulled at 6955' `T.O.C. • 7115' (Cement Bond Log) 7 7/8" Hole Size $4 \setminus 4 / P$ C.I.B.P. @ 8900' w/35' Cement Perfs 8978' - 8999' (Bone Springs) 4 \ 4 / 4 C.I.B.P. • 10375' w/35' Cement Perfs 10465'-10650' (Wolfcamp) $10793' - 5 \frac{1}{2}$ csg. Cemented w/820 sxs T.D. • 10793' Vacuum State No. 3 660' FNL & 1980' FWL Un. C

Sec. 10, T-19S, R-35E

Getty Oil Co. (Texaco) Elev. 3122' G.L. Plugged and Abandoned 10 sxs Surface Plug 3/9/85 17 1/2" Hole Size 425' - 13 3/8" csg. Cemented w/450 sxs Circulated. Cement Plug 1753' - 1900' 11" Hole Size 4100' - 8 5/8" csg. Cemented w/1500 sxs Circulated Cement Plug 4005' - 4152' D.V. Tool @ 6027' 7 7/8" Hole Size Cement Plug 8958' - 9230' Perfs 9094'-9104' Sqz'd w/250 sxs Perfs 9086'-9114' Sqz'd w/200 sxs Cement Retainer set and Sqz'd w/150 sxs ~ 4` 1₄ ₹ Perfs 9469'-9620' C.I.B.P. ● 10550' w/2 sxs cement Perfs 10576'-10716' (Wolfcamp) $10793' - 5 \frac{1}{2}$ csg. Cemented 1st Stage w/950sxs Circ. to D.V. T.D. • 10793' 2nd Stage w/875 sxs Circ. to Surface Scharb "10" State No. 1980' FSL & 660' FWL Un. l Sec. 10, T-19S, R-35E

VII. PROPOSED DISPOSAL OPERATION

- (1) Average Daily Rate of Injection = 75 BWPD
 Maximum Daily Rate of Injection = 100 BWPD
- (2) The system will be closed.
- (3) Average Injection Pressure = 0 psig Maximum Injection Pressure = 200 psig
- (4) Source of injected water is Bone Springs.

VIII. GEOLOGICAL DATA FOR PROPOSED INJECTION ZONE

- (1) Zone: 10567'-10680' (113') Wolfcamp
- (2) Lithology: Dolomite, buff to brown, fine to medium crystalline, slightly sucrosic with vugular and fracture porosity.
- (3) Aquifers: Ogalalla with base @ approximately 300'.

IX. PROPOSED STIMULATION PROGRAM

(1) None

X. LOGS

(1) Log Section Attached

XI. FRESH WATER WELLS

(1) None within 1 mile.

XII. STATEMENT

(1) I, Marc Wise, have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. PROOF OF NOTICE

(1) Proof of Notice Attached

INTERVALSEARKER
ONE MINUTE OF THE PROPERTY OF

AFFIDAVIT OF PUBLICATION

State of	New	Mexico,
County o	of Lea	a.

I, Kathi Bearden
of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period
of
One weeks. Beginning with the issue dated
April 17 , 19 91 and ending with the issue dated
April 17 , 19 91
General Manager Sworn and subscribed to before
me this 22 day of, 199/
Rhonda Copelar &
My Commission expires
July 24 , 1991 (Seal)

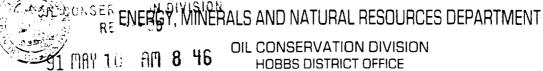
This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE

LEGAL NOTICE
April 17, 1991
Lynx Petroleum Consultants, Inc., P.O. Box 1979, Hobbs, NM, 88241, (505) 392-6950, (Marc L. Wise - Representative), is proposing to convert the Sprinkle Federal No. 3 to a water disposal well. The subject well is located 1650' FNL & 460', FEL, Section 9, T-19S, R-35E, Lea County, NM. A maximum of 100 barrels of water per day will be disposed of, with a maximum pressure of 200 psig. Injection will be in the Wolfcamp formation at a depth of 10567'-10680'. Interested parties must file an objection with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM, 87501, within 15 days.

Signature - Agent XX 6. Signature - Agent XX 7. Date of Delivery 7. Date of Delivery 8. US G.Po. 1989-238-815	SENDER: Complete items 1 and 2 when additional s 3 and 4. 4. 4. 4. 4. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6	5. Signature Addressee X 6. Signature Agent The Survey 7. Date of Delivery 8. Form 3811. Ann. 1989	SEINDER: Complete items I and 2 when additional services are desired, and complete items 3 and 4. Fut your additional the "RETURN TO" Space on the reverse side. Failure to do this will provent this card frum being returned to you. The return recorpt fee will growth you the name of the person delivered to and the lack lockly for additional service(s) requisited. 1. C.: Show to whom delivered, date, and addressee's address. 2. Hestricted Delivery (Extra charge) 3. Article Addressed to: P 119 159 358 Type of Service: Registered Express Mail Always obtain signature of addressee or agent and DATL DELIVLIEED.
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5. Signature - Addressee X 6. Signature - Agent X 7. Date of Delivery PS Form 3811, Apr. 1989 • U.S.G.PO. 1989235815	SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your arithess in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and churk boxies! for additional service(s) requested. 1. [I] Show to whom delivered, date, and addressee—are available. Consult postmaster for fees and addressee—are available. Consult postmaster for fees and addressee—are available. Consult postmaster for fees and churker) 3. Article Addressed to: 4. Article Number P.O. Box 1498 ROSWELL, NM 88201 Always obtain signature of addressee Always obtain signature of addressee	5. Signature — Agent X 1 X 4 T 1 X 7. Date of Delivery	a and 4. 3 and 4. It your address in the engine liven of devisions of chick box less [] Show to v Article Addre Charlcia P.O. Box Hobbs, N
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STATE OF NEW MEXICO



OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

5-2-91

BRUCE KING GOVERNOR

POST OFFICE BOX 1980 HOBBS, NEW MEXICO B8241-1980 (505) 393-6161

IL CONSERVATION DIVISION . O. BOX 2088
ANTA FE, NEW MEXICO 87501
E: Proposed: MC DHC NSL NSP SWD WFX PMX
entlemen:
have examined the application for the:
Lyny-Petroleum Consultants Inc. Sprinkin Federal #3-H 9-19-3. Derator Lease & Well No. Unit S-T-R
nd my recommendations are as follows:
014
ours very truly,
Strysletten
erry Sexton
upervisor, District l