STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

233626550 Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

SWIS FORMC-108 RECEIVERPised 4-1-98

	APPLICATION FOR AUTHORIZATION TO INJECT NOV 2 6 2002
I.	PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Yes No DIVISION
II.	OPERATOR: KAY WESTALL ADDRESS: P.O. BOX 4 LOCO HILLS, NM 88255
	CONTACT PARTY: RANDALL HARRIS PHONE: 505 677 2370
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?YesNo If yes, give the Division order number authorizing the project:

- V. 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:
 - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
 - 2. Whether the system is open or closed;
 - 3. Proposed average and maximum injection pressure;
 - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 - 5. 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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. 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 sources 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______

CANDALL HARRIS NAME: SIGNATURE:

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the 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 the 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, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, 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.

RAY WESTALL LUSK 16 STATE #4 (30-025-24787) 2030' FSL & 660' FEL SEC 16 T19S-R32E

Surface Casing Size 12 3/4" 41.51# Set @ 374' Cemented
with 450 sxs Circulated Hole size 17 1/2"
Intermediate Casing Size 8 5/8" 24 & 32# set @ 4157' Cemented with 440 sxs. T/2370 (Temp)Perf 1300' pump 75 sxs cmt T/1025 (Calc.) Hole size
11" Long String Size 5 ¹ / ₂ 17 & 15.5# set @ 10845' Cemented
with 260 sxs T/ 9160' Cut & Pulled 9100'. Set 5 1/2" @ 7443' Cemented with 760 sxs T/2935' (Bond Log) Injection interval
6515-6535 feet Perforated

Tubing size 2 7/8" lined with Plastic set in a Baker Loc-set packer at 6400 feet.

Other Data

- 1. Name of the injection formation. DELAWARE
- 2. Name of field or pool. WEST LUSK DELAWARE
- 3. Is this a new well drilled for injection? No
 - If no, for what purpose was the sell originally drilled? Oil & Gas production
- 4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug (s) used. SEE SCHEMATIC
- 5. Give the depth to and name of any overlying or underlying oil or gas zones in this area. Morrow 12500, Wolfcamp10500, Yates 2800.

ATTACHMENT V

Maps that identifies all wells of public record within two miles of each proposed injection well, and the area of review one-half mile radius around each proposed injection well.

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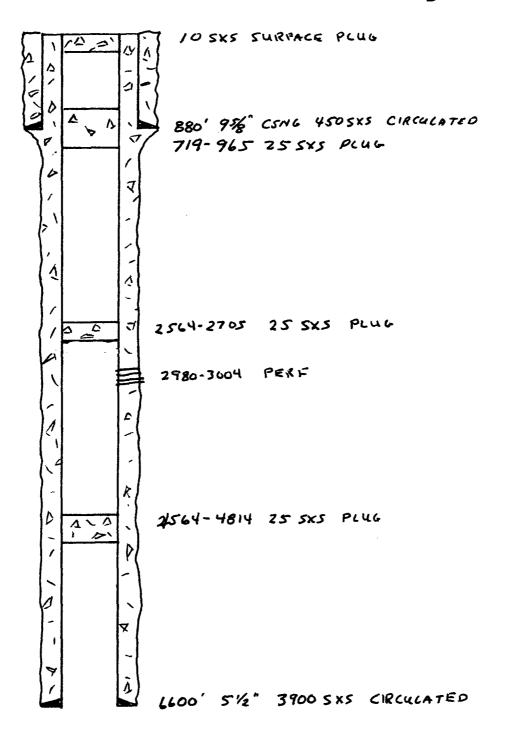
ATTACHMENT VI

Data on all wells of public record within the area of review. Included are schematics of the plugged wells that penetrated the proposed injection zone within the area of review.

WELL NAME	LOCATION	SPUD DATE	SUR.CASING	INT.CASING	PROD. CASING	COMPLETION
EOG State DR #3	NENE Sec 16 T19S-R32E	11/26/78	13 3/8" @ 455' 400 sxs Circ.	9 5/8" @ 4133' 3100 sxs Circ	5 1/2" @ 11100 1720 sxs T/4115'	10721-10728 E. Lusk Wolfcamp Oil
EOG State DR #2	SENE Sec 16 T19S-R32E	6/14/78	13 3/8" @ 392 475 sxs Circ.	8 5/8" @ 4047 2900 sxs Circ.	5 1/2" @ 11000 1420 sxs T/2410'	2890-2997 NE Lusk Yates Oit
Ray Westall Lusk 16 State #2	NESW Sec 16 T19S-R32E	10/10/64	13 3/8 @ 1000 977sxs Circ.	9 5/8" @ 3991' 2493 sxs T/830	5 1/2" @ 12948 1735 sxsT/6000'	12569-12729 Lusk Morrow Gas
Wells not deep	Wells not deep enough to penetrate disposal	disposal zone				
Amoco	NENE Sec 16	Not Deep Enough TD 3250'	TD 3250'			

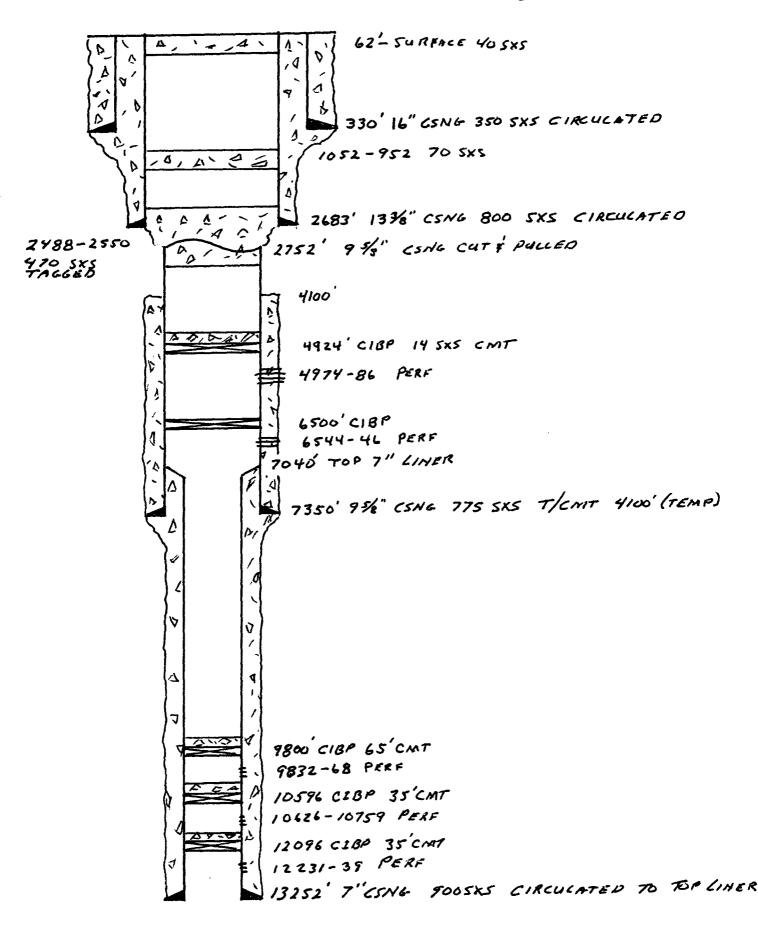
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Not Deep Enough TD 3250'	Not Deep Enough TD 3030'		2/13/89	12/7/71
NENE Sec 16	SWNW Sec 15		SWNE Sec 16	NWSW Set 15
T19S-R32E	T19S-R32E		T19S-R32E	T19S-R31E
Amoco	Sun	P & A Wells	Meridian Oil	Sun Oil
State DR #4	Shearn Fed #2		State DR #5	Shearn Federal #2

MERIDIAN OIC STATE DR" #5 1980 FAC & 1980 FEL SECTION 16 T195-R32E



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SUN OIL COMPANY SHEARN-FEDERAL 41 1980' FSL & 660' FWL SECTION IS TIRS R32E



ATTACHMENT VII

- 1. Proposed average of 150 bbls per day and maximum of 300 bbls per day of injected fluids. At a rate of one bbl per minuet.
- 2. System will be closed.
- 3. Average anticipated pressure of 450 psi and a maximum of 800 psi.
- 4. Source of produced water is reinjected produced water from offsetting leases of the same formation.
- 5. Water analysis attached.

THUTHUST

BJ SERVICES COMPANY

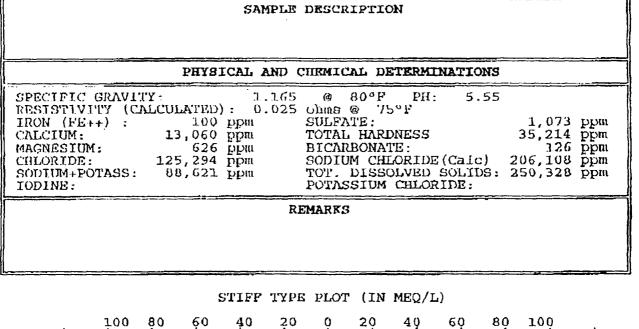
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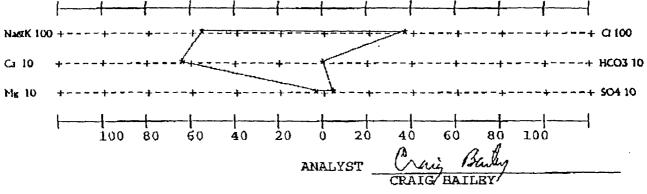
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WATER ANALYSIS #FW01W051

ARTESIA LAB

GENERAL INFORMATION RAY WESTALL OPERATING DBPTH: **OPERATOR**: WELL: LUSK IL STATE DATE SAMPLED: 04/03/96 FIELD: LUSK DATE RECEIVED:04/03/96 SUBMITTED BY:RANDY HARRIS STATE : NM COUNTY: EDDY CRAIG BAILEY FORMATION : DELA JAKE WORKED BY PHONE NUMBER:





ATTACHMENT VIII

The proposed injection zone is a fine grained sand in the Delaware Formation. It has several sands with varying thickness. There is possible drinking water overlying the injection in the surface sands at a depth of 0-250'. There is no known source underlying the injection interval.

ATTACHMENT IX

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No proposed stimulation.

ATTACHMENT XI

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There is no active fresh water wells within one mile.

ATTACHMENT XII

All available geologic and engineering data have been examined and there is no evidence of open faults or any other hydrologic connection between the disposal zone and any source of drinking water.

ATTACHMENT XIV

PROOF OF NOTICE

Leasehold operators within one-half mile of the well location are: EOG Resources, Autry Stephens, 3TEC Energy and Gruy. Each of the operators were provided a copy of our application by certified mail. Proof of notice is enclosed. The surface owner is the State of New Mexico.

PROOF OF PUBLICATION

Proof of publication will be from the Hobbs Daily Sun and will be forwarded.

CERTIFIED MAIL

Autry C. Stephens 110 N. Marienfeld St Ste 200 Midland, TX 79071-4412	7000 0600 0024 2324 1704
Gruy Petroleum 600 Las Colinas Blvd. E. Ste 1200 Irving, Tx. 75039-5613	7000 0600 0024 2324 1698
EOG P.O. Box 4362 Houston, Tx. 77210-4362	7000 0600 0024 2324 1681
3TEC Energy Two Shell Plaza 777 Walker STE 2400 Houston, Tx. 77002	7000 0600 0024 2324 1674

AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a 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.

1

of_____

weeks.

2002

Beginning with the issue dated

October 25 2002 and ending with the issue dated

October 25 _____ 2002

Publisher Sworn and subscribed to before

me this <u>25th</u> day of	of
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October

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Notary Public.

My Commission expires October 18, 2004 (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 October 25, 2002

Ray Westall-Operator, P.O. Box 4, Loco Hills, New Mexico 88255 Phone (505)677-2370. Contact party of Ray Westall-Operator is Randall Harris, is seeking administrative approval from the New Mexico Oil Conservation Division to utilize a well located 2030' FSL & 660' FEL Section 16, Township 19 South, Range 32 East, Lea County, New Mexico known as the Lusk 16 State #4 for water injection. Proposed injection is in the Delaware formation through perforations 6515-6535 feet. Expected maximum injection rate of 500 bbls per day at 800 psi. Interested parties must file objection or requests for hearing with the Oil Conservation Division, 1220 So. St. Francis Drive,, Santa Fe, NM 87505 within 15 days of the notice. #19326

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67100415000 67510293 Ray Westall Operating P.O. Box 4 LOCO HILLS, NM 88255



5WD-863



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Betty Rivera Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

Oil Conservation Division
1220 S. Francis Drive
Santa Fe, NM 87505

RE: Proposed:

MC		
DHC		
NSL		
NSP		
SWD	X	
WFX		
РМХ		

Gentlemen:

I have examined the application for the:

#4-I, 16-195-320 t S-T-RAP1#30.025-24787 usk 16 State -Lease & Well No. Unit Operator

and my recommendations are as follows:

Yours very truly,

Chris Williams

Supervisor, District 1