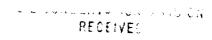
# CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: <u>ENRON OIC &amp; GAS CO.</u> Well: <u>NACA RIME '30" FED COM NO</u>
Contact: RANDAL CATE Title: ENGINEER Phone: 915.686.36
DATE IN 12.20.93 RELEASE DATE 1.3.94 DATE OUT
Proposed Injection Application is for: WATERFLOOD Expansion Initial
Original Order: R Secondary Recovery Pressure Maintenance
SENSITIVE AREAS X SALT WATER DISPOSAL
WIPP Capitan Reef Commercial Operation
Data is complete for proposed well(s)? Additional Data
AREA of REVIEW WELLS
Total # of AOR # of Plugged Wells
Tabulation Complete Schematics of P & A's
465 Cement Tops Adequate VA AOR Repair Required
INJECTION INFORMATION
Injection Formation(s) <u>Becc Cawyow</u>
Source of Water DERSUARE, MORKOW, ATOKO, Workson Compatible 4
PROOF OF NOTICE
Copy of Legal Notice Information Printed Correctly
Objection Received Set to Hearing Date
NOTES:
APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL 465  COMMUNICATION WITH CONTACT PERSON:
1st Contact:TelephonedLetter Date Nature of Discussion
2nd Contact:TelephonedLetter Date Nature of Discussion
3rd Contact: Telephoned Letter Date Nature of Discussion

# **ENRON** Oil & Gas Company



P. O. Box 2267 Midland, Texas 79702 (915) 686-3600

100 DE 120 AT, 0 22

December 15, 1993

New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87504-2088

> Re: Application for Authority to Inject Form C - 108 Vaca Ridge "30" Federal Com. No. 1 Section 30-T24S-R34E Lea County, New Mexico

Attn: Mr. Bill LeMay

Mr. David Catanach

Please find attached Enron Oil & Gas Company's application Form C - 108 and attachments requesting approval to inject water into the Delaware formation in the above referenced well. (Original plus one copy)

Proof of notice and publication is forthcoming. If you have any questions or require additional information please call me at (915) 686-3698.

Sincerely,

Randall S. Cate

Project Reservoir Engineer

cc:

with attachments

Attn:

Jerry Sexton AMOCD District One P.O. Box 1980

Hobbs, New Mexico 88241-1980

m:\misc\se020rcw

HOBBS OIL CONSRN

OIL CONSERVATION DIVISION
POST GREET SON ROME
STATE LAND CONCE MALEGINE

FORM C-108 Revised 7-1-81

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

	SAMFA FIL NOW INCLICO 87501									
APPLI	CATION FOR AUTHORIZATION TO INJECT									
I.	Purpose: Secondary Recovery Preseure Haintenance X Dinnosol Storage Application qualifies for administrative approval? X yes no									
11.	Operator: Enron Oil & Gas Company									
	Address: 4000 N. Big Springs, Suite 500 Midland, Texas 79705									
	Contact party: Randall Cate Phone: (915) 686-3698									
111.	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									
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 panetrate 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:									
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and</li> <li>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 zons formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).</li> </ol>									
•VIII.	Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickname, 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.									
• x.	Attach eppropriate 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 svailable 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 Natice" 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: Randall Cate Title Project Reservior Engineer									
	Signature: 12-16-93									

DISTRIBUTION: Original and one copy to Santa fe with one copy to the appropriate Division district office.

\* If the information required under Sections VI. VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance

of the earlier submittal.

FORM C-108 Side 2

### 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:

HUBBS UIL LUNSKN

- (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 cament 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 metting 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.

- 3. 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 lessehold 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 sultiple 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. G. Box 2088, Santa Fe, New Maxico 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 soplications within 15 days from the date this application was mailed to them.

# Enron Oil & Gas Application for Injection Attachments to Form C - 108

### Part III. Well Data

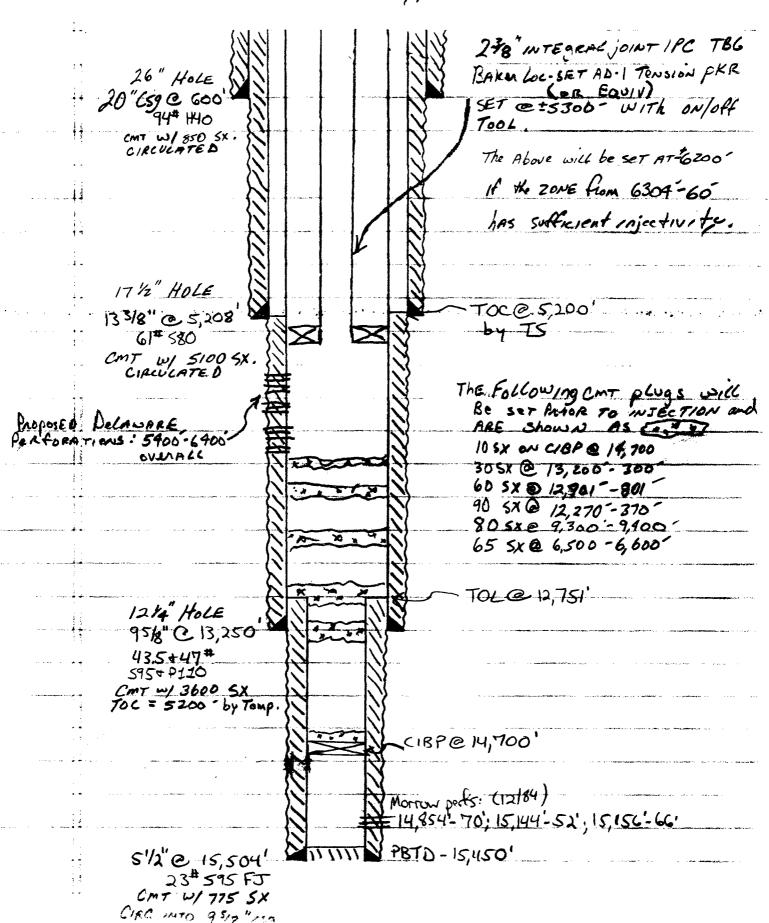
- A. 1. See attached injection well data sheet.
  - 2. See attached injection well data sheet.
  - \* 3. This will install ± 5,300' 2 3/8" integral joint 1 PC tubing.
  - \* 4. Packer will be a Baker loc-set (or equivalent) set @ ± 5,300'. A teflon coated on/off tool assembly will be run on top of the packer.
- B. 1. The injection formation is the Bell Canyon portion of the Delaware Mountain group.
  - 2. See attached injection well data sheet.
  - 3. This well was originally drilled as a 15,500' Morrow test.
  - 4. The well produced 88,478 MCF, 388 BBL condensate, and 1,662 BBL water through Morrow perforations 14,854' 15,166'. Last reported production was September 1985. A CIBP was set @ 14,700'. Currently well is temporally abandoned. EOG plans to plug back to the Delaware according to the attached sundry notice filed with the BLM.
  - 5. There is no oil or gas zone higher than the Delaware formation. The next lower oil or gas zone is the Morrow formation at ± 14,800'.

<sup>\*</sup> Tubing and packer assembly will be set @  $\pm$  6,200' if the zone from 6,304' - 6,360' has sufficient injectivity.

Vaca Ridge "30" Federal	30 24 34 SECTION TOWNSHIP RANGE	Lea County, New Mexico	Tabular Data	Surface Casing	Size 20" @ 600' " Cemented with 850 sx.	TOC Surface feet determined by Circ. CMT	Hole size	Intermediate Casing	Size 13 3/8 @ 5,208' " Cemented with 850 sx.	TOC Surface feet determined by Circ. CMT	Hole size 17 1/2"	Long string	Size 9 5/8 @ 13,250" " Cemented with 5,100 sx.	10C 5,200 feet determined by Temp. Log (Attached)	Hole size 12 1/4".	Total depth 13,250 5 1/2 Liner from 12,751 - 15,504' Injection interval	5,400 Feet to 6,400 Feet Overall If needed (perforated or xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Enron Oil & Gas Company VIPERATOR	1 1,980' FSL & 1,980' FWL WILL NO. FOOTAGE LOCATION		Schematic ATTACHED	REMARKS		CMT plugs will be set in accordance with NMOCD Rules	to plug back and isloate Delaware interval for injection.	Original USGS Well Completion	Report included				· -				

## WELLBORE SCHEMATIC

VACA RIDGE "30" FED. COM. NO.I 1980' FSL & FWL OF Section 30-7245-R34E LEA County, New Mexico



Filed W/ BLM

Form 3160-5 June 1990)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

	Expires:	March	31, 199	3
Lease	Designet	on and	Serial	No.
N	4-288	81		

### SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to dr	rill or to deepen or reentry to a different reservoir.  R PERMIT—" for such proposals	6. If Indian, Allouse or Tribe Name				
SUBMIT	7. If Unit or CA, Agreement Designation					
1. Type of Well  Oit Well Well Well Well Other Shut In 2. Name of Operator Enron Oil & Gas Company (former	8. Well Name and No. Vaca Ridge "30" Fed'l Com #1					
3. Address and Telephone No. P.O. Box 2257, Midland, Texas		30025288730000 10. Field and Pool, or Exploratory Area				
4. Location of Well (Footage, Sec., T., R., M., or Survey D 1980 FSL & 1980 FWL, Sec 30,	Pitchfork Ranch Morrow 11. County or Parish, State Lea, NM					
12. CHECK APPROPRIATE BOX(	s) TO INDICATE NATURE OF NOTICE, REPOI	RT, OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION					
Notice of Intent  Subsequent Report	Abandonment Recompletion Plugging Back Casing Repair	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off				
Final Abandonment Notice	Altering Casing Other	Conversion to Injection  Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)				
	Il pertinent details, and give pertinent dates, including estimated date of starting cal depths for all markers and zones pertinent to this work.)*	any proposed work. If well is directionally drilled,				
. MIRU pulling unit, plugging NU BOP.	equipment and 14,700' of 2-7/8" 6.5#/	ft N-80 workstring. ND WH,				
PU & RIH with 2-7/8" workstr 14,700'. PUH to 13,300'.	ing. Tag CIBP @ 14,700'. Spot 10 sk	s Class "H" cement on CIBP @				
	with 2-1/2 - 3 hours pump time (acro 3,000', reverse circulate tubing clea					
Spot 60 sks Class "H" cement from 12,801' to 12,701'. PUH 12,500'. PUH to 12,370'.	with 2-1/2 - 3 hours pump time (acro to 12,300', reverse circulate tubing	ss 5-1/2" liner top @ 12,751' clean, WOC and tag plug ±				
12,270'. PUH to 9,400'.	(across top of Wolfcamp formation @					
	from 9,400' to 9,300'. PUH to 6,400'	. CONTINUED ON PAGE -2-				
3. I hereby certify that the foregoing is true and correct	Tide Project Resevoir Engineer	Date 12-16-93				

tle 18 U.S.C. Section 1001, makes it a crume for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements representations as to any matter within its jurisdiction.

Title

rm 3160-5 une 1990)

### **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993

5. Lease Designation and Serial No. NM-28881

6. If Indian. Allottee or Tribe Name

### SUNDRY NOTICES AND REPORTS ON WELLS

• •	ill or to deepen or reentry to a different reservoir.  R PERMIT—" for such proposals								
SUBMIT	7. If Unit or CA, Agreement Designation								
Type of Well Oil Gas Well Well Cher Shut In Name of Operator	8. Well Name and No. Vaca Ridge "30" Fed'1 Com #								
nron Oil & Gas Company (former	ly operated by Southland Royalty)	9. API Well No.							
Address and Telephone No. O. Box 2257, Midland, Texas	30025288730000 10. Field and Pool, or Exploratory Area								
Document of Well (Footage, Sec., T., R., M., or Survey D	Pitchfork Ranch Morrow II. County or Parish, State Lea, NM								
CHECK APPROPRIATE BOX	s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA							
TYPE OF SUBMISSION	TYPE OF ACTION								
Notice of Intent  Subsequent Report  Final Abandonment Notice	Abandonment  Recompletion  Plugging Back  Casing Repair  Altering Casing  Other	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Dispose Water							
		(Note: Report results of struktsple completion on Well Completion or Recompletion Report and Log form.)							
give subsurface locations and measured and true vertice	il pertinent details, and give pertinent dates, including estimated date of startin cal depths for all markers and zones pertinent to this work.)*								
Spot 65 sks Class "H" cement 5,500', reverse circulate to	t from 6,500' to 6,500' with 2 - 2-1/ ubing clean. Tag plug @ ± 6,500'. POH	2 hours pump time. PUH to with tubing.							
Perforate Delaware formation	n from 6,304' - 6,360' 2 SPF using 4"	casing gun. POH with guns.							
RIH with tubing and packer Acidize perfs with 4,000 ga	RIH with tubing and packer to $6,360'$ . Spot acid at perfs. PUH and set packer at $\pm$ $6,200'$ . Acidize perfs with $4,000$ gals $15\%$ HCL with additives and ball sealers.								
Rig up pump truck and test inectivity. If satisfactory injectivity has been achieved, unseat packer at $\pm$ 6,200'.									
. RIH with Baker Lok-Set pakcer with teflon coated on/off tool and $\pm$ 6,200' IPC tubing. Set packer at $\pm$ 6,200'.									
. POOH with on/off tool. Circ	packer fluid in annulus. Set on/off	tool. NU wellhead.							
. Pressure annulus to 200 psi	g. Make sure it holds for 30 minutes.	CONTINUED ON PAGE -3-							
I hereby certify that the fort-going of true and correct									
Signed / A A	Title	Date 12-16-93							
(This space for Federal or State office use)									

<sup>: 18</sup> U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictuous or fraudulent statements opresentations as to any matter within its jurisdiction.

ge -3rm 3160-5 me 1990)

### UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993

5. Lease Designation and Serial No.

NM-28881 SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE . Type of Well OH Gas 8. Well Name and No. Vaca Ridge "30" Fed'l Com #1 Other Shut In . Name of Operator nron Oil & Gas Company (formerly operated by Southland Royalty) 9. API Well No. . Address and Telephone No. 30025288730000 915/686-3600 .O. Box 2257, Midland, Texas 79702 10. Field and Pool, or Exploratory Area Location of Well (Footage, Sec., T., R., M., or Survey Description) Pitchfork Ranch Morrow 11. County or Parish, State 980' FSL & 1980' FWL, Sec 30, T24S, R34E Lea. NM CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Abandonment Change of Plans **New Construction** Subsequent Report Plugging Back Non-Routine Fracturing Water Shut-Off Dispose Water tion Report and Log form. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) Begin inection operations with surface injection pressure of 600 psig. Monitor daily the annulus and braden head pressure. I hereby certify that the toregoing of true and correct Title (This space for Federal or State office use) 

18 U.S.C. Section 1001. makes at a crume for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent state ntations as to any matter within its jurisdiction

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LOCATION OF WEI	L (Report location cle	arly and in acc	ordance with en	h Regie zeda	aremen.	યસંક				inch (Morrow
At surface 19	80' FSL & 198	O' FWL. S	ec. 30, T-	-24-SP4	<b>F134</b> +	Enustor		11. sec T	R., M., C	BLOCK AND SCRVET
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. I hereby certify	that the foregoing and	attached info	rmation is comp	ete and Me	rect de	determine	d from	all avatlable -	econia	
Ć	that the foregoing and			7	Tille.	1-41				
SIGNED	and Holo	<u> </u>	TITLE	Operat	ions	Engine	er.	MEXICO DATE	1/	7/85

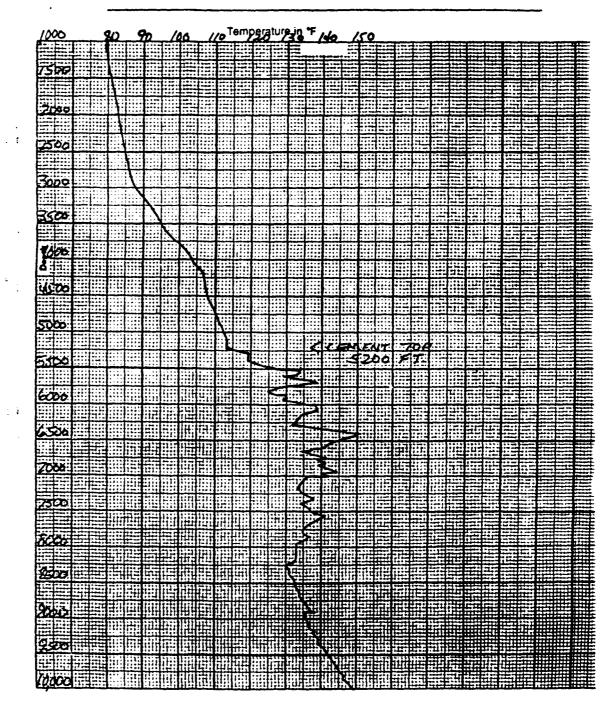
# BENNETT-CATHEY WIRE LINE SERVICE

P. O. BOX 787 / ARTESIA, NEW MEXICO 88210 / PHONE 746-3281



# **TEMPERATURE SURVEY**

GPERATOR	SOUTHLAND ROYAL	ITY					
	VACA RIDGE "30"						
	4 1						
	IESENTATIVE						
	EMENT JOB COMPLETES						
	URVEY MADE						
		DAVID SPENCER					
		MEASURED F	ROM K.B.				



# LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE