ENERG	STATE OF NEW MEXICO (Y AND MINERALS DEPARTMENT	DIL CONSERVATION CIVISION	FORM C-108 Revised 7-1-81		
APPLICA	TION FOR AUTHORIZATION TO INJECT	Exhibits 1 a complet	e Set		
I.	Purpose: Secondary Recovery Application qualifies for admi	Pressure Maintenance	XX Disposal Storage		
11.	Operator: WJC Inc.				
	Acdress: P. O. Box 3857 Mid	land, Texas 79702			
	Contact party: M.L. Pierce (Peak	Consulting Services) Phone:	505-392-1915		
III.		uired on the reverse side of on. Additional sheets may be			
IV.	Is this an expansion of an exist If yes, give the Division order r] no t		
۷.	Attach a map that identifies all injection well with a one-half mi well. This circle identifies the	le radius circle drawn aroun	miles of any proposed d each proposed injection		
• vI.	Attach a tabulation of data on al penetrate the proposed injection well's type, construction, date o a schematic of any plugged well i	zone. Such data shall inclu Filled. location. depth. rec	de a description of each ord of completion. and		
VII.	Attach data on the proposed opera	ition, including:			
• Y III.	the receiving formation 5. If injection is for dispo- at or within one mile o the disposal zone forma literature, studies, ne	en or closed; mum injection pressure; e analysis of injection flui if other than reinjected pr isal purposes into a zone not of the proposed well, attach ition water (may be measured earby wells, etc.).	d and compatibility with oduced water; and productive of oil or gas a chemical analysis of or inferred from existing		
	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	BEFORE EXAMIN	VER CATANACH		
• x.	Attach appropriate logging and te with the Division they need not t	est dal ON CONSERVA			
• XI.	Attach a chemical analysis of fre available and producing) within c location of wells and dates sampl	one mil	IT NO		
XII.	Applicants for disposal wells muse examined available geologic and e or any other hydrologic connection source of drinking water.	Inginet CASE NO. 1001	3		
XIII.	Applicants must complete the "Pro	of of Notice" section on the	reverse side of this form.		
XIV.	Certification	\sim			
	I hereby certify that the information to the best of my knowledge and t	ition submitted with this app	lication is true and correct		
	Name: Michael L. Pierce		Consultant		
	Signature:	Date: _1	10/23/92		
submi	e information required under Secti tted, it need not be duplicated ar he earlier submittal.	ons VI, VIII, X, and XI abov of resubmitted. Please show	e has been previously the date and circumstance		

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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.

- 8. 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.

FORM C - 108 cont.

Part III. A

- 1.) J. G. Cox No. 1 660' FNL and 1980' FWL Sec. 13 - T17S - R3BE Unit C Lea County, New Mexico
- 2.) See attached wellbore schematic.
- 3.) Propose to run 2 7/8" plastic coated tubing, and set within 100' of open hole interval.
- 4.) Propose to run a Baker Locset Packer as a seal, and load the backside with packer fluid.

Part III. B

- The injection interval is the San Andres and Bone Spring, and the well is located in the South Knowles Devonian Field.
- 2.) The injection interval is open hole at 5000 to 8360'.
- 3.) This well was originally drilled as an oil well.
- 4.) See wellbore schematic
- 5.) The Devonian produces in this field, and there is no shallower producing zone in the immediate vicinity.

Part VII.

- The proposed daily injection will be 2000 bbls. per day. The maximum will be 5000 bbls. per day.
- 2.) The system will be closed.
- 3.) The average injection pressure will be O(Vacuum). The maximum will not exceed the limits set forth by the OCD.
- The source of the injection water will be Devonian water from WJC operated wells.
- 5.) The injection interval is not productive with in 1 mile of the proposed well.

Part VIII

The injection interval is the San Andres and Bone Spring formations in the Knowles Devonian Field. and is composed of alternating beds of porous and tight dolomite in the San Andres section. The Bone Spring section is composed of permeable, fine to medium grained sands with alternating beds of limestone and porous dolomites. The injection interval is from 5000' to approximately 8360'. This entire area is overlain by the Quaternary Alluvium and caliche. The fresh water in the area comes from the Ogalalla aquifer. There are no fresh water zones below the San Andres section.

Part IX

The disposal interval will be treated with a breakdown acid job.

Part X

The logs have been previously submitted.

Part XI

The water analysis for fresh water wells within one mile of the proposed injection wells are attached.

Part XII

We have examined all available geologic and engineering data, and find no evidence of open faults or any other hydrologic connection between the disposal interval and any underground source of drinking water.

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C - 108 PART V

WJC INCORPORATED

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WJC INCORPORATED

Location of fresh water samples

	TON SERVICES NEW MEXICO
То	
WJC Inc.	*Hilligrams per liter
submitted by Mike Pierce	
Well No. See Below	DepthFormation
County Lea Field	Source See Below Faucett #2
Resistivity	
Specific Gr	
pH	
Ca Ca Magnesium*	· · · · · · · · · · · · · · · · · · ·
Mg Chlorides*75 mpl	<u>75 mpl</u>
Sulfates* SO, Bicarbonates*	
HCO3 Soluble Iron*	
& Outside Ranch House	

PERATOR DATE JAKE HUMAN 10-20-92 WELL NA LOCATION 1 Sec 13-7/15-138E wit C LEASE J. 6. Cox 660' FNL +nd 1980' FWL A+A 4-10-70 10 5x plug @ surface 13% " casing set at 303 ' with 350 sx of _____ ceme Total Depth _____ Hole size _____ " Cinculated <u>956</u> " casing set at <u>SUD</u>' with <u>2600</u> sx of _____ cemen Hole size 12/4 " Coment Circulated 25 SX plug @ 5000 25 5x plug @ 8360 25 5× plug @ 10100 5HOT + pulled 5 1/2" (56 @ 10131 CIBP @ 12000' + 15' CMT $\frac{5/2}{2}$ casing set at $\frac{2203}{3}$ with $\frac{500}{2}$ sx of _____ cemen Total Depth 1/22/3 Hole size 3/4 Toc by TS 0/0275'OH 12203-12243

Q

OPERATOR JAKE HUMON 10-20-92 Sec 13-7175-R3BE wit C LEASE J. 6. Cox 660' FNL +nd 1980' FWL Proposes Completion 13% casing set at 303 with 350 sx of _____ ceme Total Depth _____ Hole size _____ Cinculated - 2%" plastic control tubing set @ 72 4900' . Baker Locset packer set @ = 4900' 95/8 " casing set at SUD ' with 260 sx of _____ cemen Hole size 12/4 - Cament Circulatod OH interval 5000'- 8360 . Injection zone 25 5x plug @ 8360 25 5× plug @ 10100 5401 + pulled 5 1/2" (56 @ 10131 CIBP C 12000' + 15' CME $\frac{5/2}{2}$ casing set at $\frac{12203}{3}$ with $\frac{500}{2}$ sx of _____ ceme: OH 12203-12243

8A

OPERATOR DATE JAKE HAMON 10-20-92 LEASE WELL NE LOCATION Cooper "A" SEC 12 TIZS-R38E UNIT N A + A 660' FSL AMO 1980' FWL 6-10-1960 Set 10 5x plug @ suchare <u>[3%</u> " casing set at <u>304</u> ' with <u>300</u> sx of _____ Cema Total Depth _____ Hole size _____ Circulated 95/3 " casing set at 5000 ' with 2400 sx of _____ cemen Hole size 12/4 " Concert Circulated set 50 5x plug @ 5045 - 4914 set 25 5x plug @ 9990 - 9748' Shot + pulled 5/2" csq @ 9880' Set 50 5x plug 17244 - 11802 Part 12215-12240 12240-12250 <u>S/2</u> " casing set at <u>/2263</u>" with <u>500</u> sx of _____ cemen Total Depth 12263' Hole size $8^{3}/4$.

$$\frac{1}{12\text{ ANG}} \xrightarrow{F+M} 6i! \text{ And } 645 \ C_{0-4}gm_{2}^{-1} \ C_{2} = \frac{1}{12} - 20 - 22 \ (2AK - 7/75 - 4586 - 0.01 + 0) \ Gdo' F5L + 1/980' Fel \ S_T (\Delta evolution)$$

$$\frac{1}{328} \cdot \text{ casing set at } 365' \text{ with } 4255 \text{ sx of } \text{ cemen} \ Total Depth ___ Hole size $\frac{1}{216} \cdot \text{ Cancent Circulated}$

$$\frac{958}{592} \cdot \text{ casing set at } \frac{4799'}{6904 - 6904} \text{ with } \frac{4555}{505} \text{ sx of } \text{ cemen} \ \text{Hole size } \frac{1216}{592} \cdot \text{ Cancent Circulated}$$

$$\frac{7}{592} \cdot \text{ casing set at } \frac{2755'}{592} \text{ with } \frac{4555}{592} \text{ sx of } \text{ cemen} \ \text{Hole size } \frac{1216}{592} \cdot \text{ Cancent Circulated}$$

$$\frac{7}{592} \cdot \text{ casing set at } \frac{2755'}{592} \text{ with } \frac{4555}{592} \text{ sx of } \text{ cemen} \ \text{Hole size } \frac{1216}{592} \cdot \text{ Cancent Circulated}$$

$$\frac{7}{592} \cdot \text{ casing set at } \frac{2755'}{592} \text{ with } \frac{4550}{592} \text{ sx of } \text{ cemen} \ \text{Hole size } \frac{1216}{592} \cdot \text{ Cancent Circulated}$$

$$\frac{7}{592} \cdot \text{ casing set at } \frac{2755'}{592} \text{ with } \frac{4550}{592} \text{ sx of } \text{ cemen} \ \text{Hole size } \frac{1216}{592} \cdot \text{ Cancent Circulated}$$

$$\frac{7}{592} \cdot \text{ casing set at } \frac{2755'}{592} \text{ with } \frac{4550}{592} \text{ sx of } \text{ cemen} \ \text{Circulated}$$

$$\frac{7}{592} \cdot \text{ casing set at } \frac{2755'}{226} \text{ with } \frac{450}{592} \text{ sx of } \text{ cemen}$$$$

F+M Dil MO GAS COMPANY WELL Na / LOCATION I Sec 13-T175-R3BE Unit B I Sec 13-T175-R3BE Unit B I Sec 13-T175-R3BE Unit B OPERATOR EM. HollowAY LEASE SWD well R-51 <u>[3%</u> casing set at <u>293</u> with <u>350</u> sx of _____ cema Total Depth _____ Hole size _____ Cmt Circulated 7" CS9 Set @ 4906 w/ 1500 5x cmt <u>95/8</u> " casing set at <u>4999</u>' with <u>2780</u> sx of _____ cemen Hole size 12/4 " Canant circulated OH Injection 4999'- 9000' Set so sx plug @ 9228- 9000 Cut mo pull she csq @ 9105' 5/2 " casing set at 12/47 ' with 570 sx of _____ cemen Total Depth /27/2 ' Hole size 87/4 "

OH 12212 - 12147

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OPERATOR LEASE C.M. Holloway 1980' FNL MAD 1980' FEL Well is SI <u>13%</u> casing set at <u>320</u> with <u>325</u> sx of _____ ceme Total Depth _____ Hole size _/7/2 " Circulated set 25 5x plug 4050 - 5050 Set Cmt Ret @ 5331 + sgz w/ 40 sx + 50' on top di 95/8 " casing set at 4998 with 2/30 sx of _____ cemen: Hole size 12/4 " Compart Circulated pert 5362 - 5420 Cmt plug @ 6950 - 6750 Cmt Plug @ 9360-9160 Set CIBP@ 9625 + 35' cmt Set cut let @ 9730 sq2 w/ 1550 sx Set cut let @ 9767 sq2 w/ 400 sx CSG collapsen @ + 11120' 5/2 " casing set at /2055' with 250 sx of _____ cemen Total Depth 12080 Hole size $8\frac{3}{4}$ " OH 12055- 12080

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$$\frac{AEN}{NE} \underbrace{Cherry}_{IAC} \underbrace{Partial}_{JCC/IS} \underbrace{10-20-92}_{IC-IS} \underbrace{10-20-92}_{IC-I$$

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AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I<u>Kathi Bearden</u>

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

___Oct. 27 ___, 19 92 and ending with the issue dated

. 19 92 Unde aı General_Manager

Sworn and subscribed to before

me this_ day of

Notary Public.

My Commission expires_____

Aug. 5 (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 27, 1992 ADVERTISEMENT WJC, INC., whose address is P.Q. Box. 385Z, Midland, Fexas. 79702, proposes to convert the following well to injection for the purpose of disposing produced water. The well is the J.G. Cox No. 1, located at 660' FNL and 1980'FWL in section 13-T17S-R38E, Lea County, New Mexico. The injection Interval is the San Andres and Bone Spring formations at a depth of approximately 5000 to 8360. The average injection rate will be 2000 bbls/day with zero pressure. The maximum pressure will not exceed the limits as set forth by the Oil Conservation Division.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, within 15 days.

days. Inquiries regarding this application should be directed to Peak Consulting Services, P.O. Box 636 Hobbs, New Mexico 88240, (505)392-1915.



WATER ANALYSIS for ENRON OIL & GAS

Date of Analysis:FEBRUARY 28, 1990 3621 Analysis #: RICK SCHATZ Company: ENRON OIL & GAS Attention: NEW MEXICO CARLSBAD State: City: Field: KNOWLES C.E. BROOKS #1 Lease/Well #: Water (bbl/day): 475 Type of Water: PRODUCED Sample Source: WELLHEAD Temp.,C: 20 N/D Date of Sampling: FEBRUARY 28, 1990 Use: Representative: STEVE STROUD CLYDE WILHOIT Analysis By: and the second statement of the statements of the matter matter stratements were appeared by WATER ANALYSIS PATTERN (number beside for syntal indicates and scale unit) ; ; ; ; ; ; C1- 10.0 10.0 Na+ | | | HCO3- 0.1 Ca++ 1.0 : 1.0 | | <u>; SO4--</u> 0.1 hg++ Fe+++ 0.1 CO3-- 0.1 144 96 48 0 48 96 144 DISSOLVED SOLIDS DISSOLVED GASES me/l mg/l CATLENS mg/lCa++ 1,920.0 96.0 Hydrogen Sulfide, H2S: 250.0 244.0 20.0 Carbon Dioxide, CO2 : 159.4 Mg++ 1.0 10.1 Oxygen,02 0.8 Fe+++ 0.0 0.0 Ba++ Na+ 23,392.5 1,017.1 PHYSICAL PROPERTIES рН 0.0 0.0 6.6 Mn++ : Specific Gravity 1.0 ANIONS 40,000.0 1,126.8 TDS (calc.) p.p.m. : 65,896.5 Cl-3.8 S04--180.0 0.0 0.0 SCALE STABILITIES CO3--2.6 Temp. 159.0 HCO3-CaCO3 -0.80 C. F. CaSO4 BaSO4 0.0 0.0 OH-20 3867 68 1 S--0.0 0.0

TOTAL SOLIDS (quantitative): RESIDUAL HYDROCARBONS :

TOTAL HARDNESS :

): 65,896.5 0.0 Max entity,(calc): 260

40

60

104

140

-0.38

0.17

4192

3910

REMARKS: a 20'C...Calcium sulfate scaling is unlikely.

a 20'C...Moderately corrosive.

116.0

2

3







W. J. Collier, P.E.

(915) 685-4171

November 19, 1992

A.E.N. Energy, Inc. Attn: Mr. Butch Nelson P. O. Box 3883 Abilene, Texas 79604

RE: J. G. Cox #1 Well, located: 660' FNL & 1980' FWL, Sec. 13, T-17-S, R-38-E, Unit C, Lea County, New Mexico

Dear Mr. Nelson:

As you know we are going to re-enter the above-referenced well. Our intention is to make a salt water disposal well in the San Andres and Bone Spring Formation in the interval from 5,000' to 8360'. Would you please indicate in the space provided below that you have no objection or opposition to WJC, Inc. using this as a salt water disposal well and return two of the three copies provided in the self-addressed envelope enclosed.

Thank you for your attention to this matter.

Sincerely,

W. J. Collier

WJC/gs

STATEMENT

We have no objection or opposition to WJC, Inc. using the J. G. Cox #1 Well described above as a salt water disposal well.

A.E.N. Energy, Inc.

BY: <u>12</u> A.E. Nelson, Jr., President

P. O. Box 3857 Midland, Texas 79702