OIL CONSERVATION CIVISION

FORM C-108

ENERGY AND MINERALS DEPARTMENT FOST OFFICE SOIL 2006 STATE LAND OFFICE WITH AMP SANTA FE. N Revised 7-1-81 Exhibit 1 Incomplete Set APPLICATION FOR AUTHORIZATION TO INJECT Pressure Maintenance XX Disnosal Secondary Recovery Storage Application qualifies for administrative approval? XXyes no Operator: WJC Inc. II. P. O. Box 3857 Midland, Texas 79702 Contact party: M.L. Pierce (Peak Consulting Services) Phone: 505-392-1915 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. ∐ yes XX no Is this an expansion of an existing project? If yes, give the Division order number authorizing the project Attach a map that identifies all wells and leases within two miles of any proposed ٧. injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. Attach a tabulation of data on all wells of public record within the area of review which VI. 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.). Attach appropriate geological data on the injection zone including appropriate lithologic *VIII. 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 $10,000\,\mathrm{mg/l}$ 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 progr BEFORE EXAMINER CATANACH Attach appropriate logging and test dat X. OIL CONSERVATION DIVISION with the Division they need not be resu WIC INC. EXHIBIT NO. J Attach a chemical analysis of fresh wat XI. available and producing) within one mil location of wells and dates samples wer Applicants for disposal wells must make CASE NO. 10613 XII. examined available geologic and engines or any other hydrologic connection bets source of drinking water. Applicants must complete the "Proof of Notice" section on the reverse side of this form. XIII. Certification XIV.

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief. Market Cel Name: Michael L. Title Consultant _ Date: 10/23/92 Signature:

 $ilde{ to}$ 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.

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 - T175 - R38E 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.

- 1.) 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.
- 4.) 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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Sm.Trs.	H.C. Does M.I. NE L. N/2 SE OX1 3+6-95, 3-12-96,	-	A.E.		n admit ac d		,	
Ancient Cit Servi 12 30 Cit Servi 13 30 Saborny V. Colloranges C. C. Servi 20 30 3-12 90 Sm. Tr.s. Jan F. Common C	Com al Marietair " "	G.Haasar, usal Empa G.Lauronca	R.E. Erickson, etal	Alen Jochimse	n,etal, M.I. Lawrence	Min. d	livi ded Lønrence	C.E. Buero Holdings W.H. Rhoodes(s)

WJC INCORPORATED

Location of fresh water samples

HALLIBURTON SERVICES HOBBS, NEW MEXICO

To		Sample	Number 34	3
WJC Inc.		*Hill	igrams per liter	
submitted by Mike Pierce			eceived 10-23	
Well No. See Below				
county Lea	110		_Source_See Be	
* Faucett #1	Fauce	4 # 2		
Resistivity				
Specific Gr				·
рн				
Calcium* Ca Magnesium*				
chlorides*75 mp	75	mpl		
Sulfates*				
Bicarbonates*				<u> </u>
Soluble Iron*			·	
Out side Ranch House				
	•			-

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JAKE HUM	on 10-20-92
LEASE J. G. COX	WELL NO LOCATION 1 Sec 13-7/75-138E wit C
	660' FNL +nd 1980' FWL
\wedge	D+A 4-10-70
	10 5x plug @ Surface 133/8" casing set at 303" with 350 sx of ceme
	Total Depth' Hole size/7/4 " Circulated 95/8 " casing set at with sx of cemen: Hole size
	25 SX p/ug @ 8360 25 SX p/ug @ 10100 5407 + pulled 51/2" (56 @ 10131 CIBP @ 12000' + 15' cmt S/2 " casing set at 12203' with 500 sx of cemen Total Depth 12243' Hole size 83/4 " Toc 64 75 OH 12203-12243 @ 10275'

JAKE HUMON		DATE	10-20-92	1
LEASE J. G. COX	WELL NA LOCAT	TON		1
J. G. COX			5-138E wit C 1980' FWL	1
	6	O PNC THE	7700 766	
$\overline{\mathcal{L}}$	_	1 (
13% casing ser Total Depth 2% plastic co Bater Locset 95% casing Hole size 12/4	Hole s OAtod tub PAcker Se set at Sur	with 350 ize 17/4 in set @ 4 & 4 & 4 & 4 & 6 & 6 & 6 & 6 & 6 & 6 &	2 4900' 900' 50 sx of cer	
OH interval S	- COOOT — 8	3360 In	jectim dine	
25 5x pho 25 5x pho 5407 \neq pullate CIBP @ 1200 $\frac{5}{2}$ casing ser Total Depth 1225 OH 1220	$5 \frac{1}{2}$ do $\frac{1}{2}$ do \frac	(56 @ 101) cust " with 500 size 8 3/4	3/ sx ofc c by TS c 	eme:
}			٠.	

JAKE HAM	Dn		DATE 10-20	- 92
LEASE L. COOPER "	g " WELL No.	LOCATION SEC 12 T/ZS		
\bigcap	D+A	660' FSL		
	Set 10 5x plug [33/8 * casing set at 30 Total Depth ' Ho	04' with 30	Sx of	cemi
	95/3 " casing set at Hole size 12/4 " C.	5000' with accept Circ	<u>2400</u> sx of	cemen
	set 50 sx ploy @ set 25 sx ploy @ Shot + pulled 5/2" csg Set 50 sx plog Pad 12215-12246 12240-12256 S/2" casing set at 12. Total Depth 12263" Ho	17244 - 1	180z 80 sx of _	Cemer

OPERATOR	1 0.1		7		OAT	E	
LEASE	- 0i/	AND GAS C	WELL ME	LOCATION	11 - 7176-	10-20-92 1386 v	wit 0
<u> </u>	<u>. </u>	A.G.				+ 1980' Fe	
		/33/8 " casin Total Depth _	ig set at	<u>365</u> ' w	Bevon(14) ith <u>425</u>	sx of	cem
		95/8 " cas Hole size /2 592 CAS	14 .	Cem en.	& Circui	50 sx of	
		7 casing Total Depth /		ole size			Cemer

OPERATOR F+M D.	1 mg 61 0	OMPANY	10-20-	92
LEASE F. M. Hollow	AY	1 Sec /	3-T175-R38E U	
		660'	FNL MO 1980'F	EL
		5W0	vell R-51	
	7" CS9 Set 958 * casing Hole size 12/4	Hole size 4906 set at 4999 Content	ith 350 sx of	inculated emt
	Total Depth /27/	t at <u>/2/47</u> ' wi	th <u>570</u> sx of	cemen

.

. 5

F + M Dil AND GAS COMPANY 10-20-92 LEASE F. M. HOlloway WELL MA COCATEON 3 FOL 13-7175-238E Unit G 1980' FNL MO 1980' FEL
1980' FNL MO 1980' FEL
13

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AEN ENE	rgy Inc			DATE	10-20-92	
AEN ENE V.F. Cox		WELL No.	SEC /3		13BE mit	
					1980' FWL	
		010	ducin 1	from	Downim	
حديات العادد		<i>/</i>	,			
111 111						
	17 3/4 " assis					
-11 11-	12 3/4 " casing	set at	65 with	450	_ sx of	ce
	Total Depth	н	ole size _	15"	CIRUlAtoo	l
- }						
	85/8 " casi	ing set at	05/7 ! w	ith /57	<u>v</u> sx of	CAM
	Hole size <u>///</u>	// .	3011 #	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	restated	
	note \$126 _//_	<u></u>	Cemer	AT C	NOTATED	
	par 1210	20 - 12	134			
	•'/ " .					
	S/2 " casing	set at <u>//</u>	<u>/Y/</u> ' with	<u>250</u>	_ sx of	ce
1	Total Depth <u>/</u> Z			1/8		
}	OH 12	2/47-12	2/68			
} }		-	_			
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CONTRACTOR STATES

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TOTAL Postage & Fees	5
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AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I. Kai	thi.	Bear	den

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

One weeks.
Beginning with the issue dated
Oct. 27 , 19 92 and ending with the issue dated
Oct. 27 , 19 92
Alti Bearden
General_Manager Sworn and subscribed to before
me thisday of
<u>(+</u> 194)
Paula Pavilly Notary Public.
My Commission expires
<u>Aug. 5</u> , 19 95

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
W.JC, INC., whose address
is P.O. Box. 3857, Midland,
Texas-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 13T17S-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 bbis/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.
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

Compa City: Lease Type Temp. Use:	ny: e/Well #: of Water:	20 N/D	GAS #1	Analysis # Attention: State: Field: Water (bbl Sample Sou Date of Sa Analysis B	F N H (day): 4 (rce: W (mpling: F	6621 RICK SCHA' NEW MEXICO NOWLES 175 VELLHEAD FEBRUARY CLYDE WILL	28, 1990
gagit quiktier (1996) 4 - equi sei	engene i i mongajamina i milja nggje o		ER ANALYSI	S PATTERN	- किमा क्षेत्री संस्था है। एक प्रतास कर है। व्यक्तिय	ikatur, sedili krillar hahb idhir	allitellet are te a primette lles frei delle c omme
		(number besid	le ion <mark>syn</mark> tol indic	rates we i scale un	itj		
Na+	10.0				H. H		10.0
Ca±+	1.0 ! !				1	1 ; HCO	3- 0.1
Ng++	1.0 ; ;						0.1
Fe+++	0.1 ; ;	1 1 1 1 1 1			1 1 1 1 1	; ; CO3	0.1
	144	96	48 0	48	96	144	
المتنا والمحادة الطهوة السيطيطا	<u>DISSOLVED SOLIDS</u> DISSOLVED MEN DE LA CONTRACTOR DE LA						
CATAUNS	mg/l	me/l					mg/1
Ca++	1,920.0	96.0			Sulfide,		250.0
Mg++	244.0	20.0		Carbon Di	oxide,CO2	2 :	159.4
Fe+++	1.0	70. 1		Oxygen,02	<u>-</u>	:	0.8
Ba++	0.0	0.0					
Na+	23,392.5	1,017.1			PHYS10	CAL PROPE	RTIES
Mn++	0.0	0.0		Hq		:	6.6
ANIONS				Specific		•	1.0
C1-	40,000. 0	1,126.8		TDS (calc	2.) p.p.r	n. :	65,896.5
SO4	180.0	3.8		į.			
CO3							
	0.0	0.0			SCALE	STABILIT	<u>IES</u>
HCO3-	0.0 159.0	0.0 2.6		Temp.			
OH-	0.0 159.0 0.0	0.0 2.6 0.0		C. F.	CaCO3	CaSO4	BaSO4
OH- S	0.0 159.0 0.0 0.0	0.0 2.6 0.0 G.0		C. F. 20 68	CaCO3	CaSO4 3867	BaSO4
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OH- S TOTAL H.	0.0 159.0 0.0 0.0	0.0 2.6 0.0 0.0 116.0 titative):	65,896.5 0.0	C. F. 20 68 40 104 60 140	CaCO3 -0.80 -0.38	CaSO4 3867 4192 3910	BaSO4 1 2

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

a 20'C...Moderately corrosive.



WJC, Inc.



(806) 495-2896

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: 12 Mong. A.E. Nelson, Jr., President