STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE

FORM C-108
Revised 7-1-81

Exhibits 1 and 2
Complete Set

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no

II. Operator: WJC Inc.

Address: 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. Is this an expansion of an existing project? ☐ yes ☒ no
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 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 prog

* X. Attach appropriate logging and test da
with the Division they need not be res

* XI. Attach a chemical analysis of fresh wa
available and producing) within one mi
location of wells and dates samples we

XII. Applicants for disposal wells must mak
examined available geologic and engine
or any other hydrologic connection bet
source of drinking water.

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
WJC Inc. EXHIBIT NO. 1
CASE NO. 10613

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: Michael L. Pierce Title Consultant

Signature: _____ Date: 10/23/92

* 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.

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.

FORM C - 108 cont.

Part III. A

1.) J. G. Cox No. 1
660' FNL and 1980' FWL
Sec. 13 - T17S - 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

1.) 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 0(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

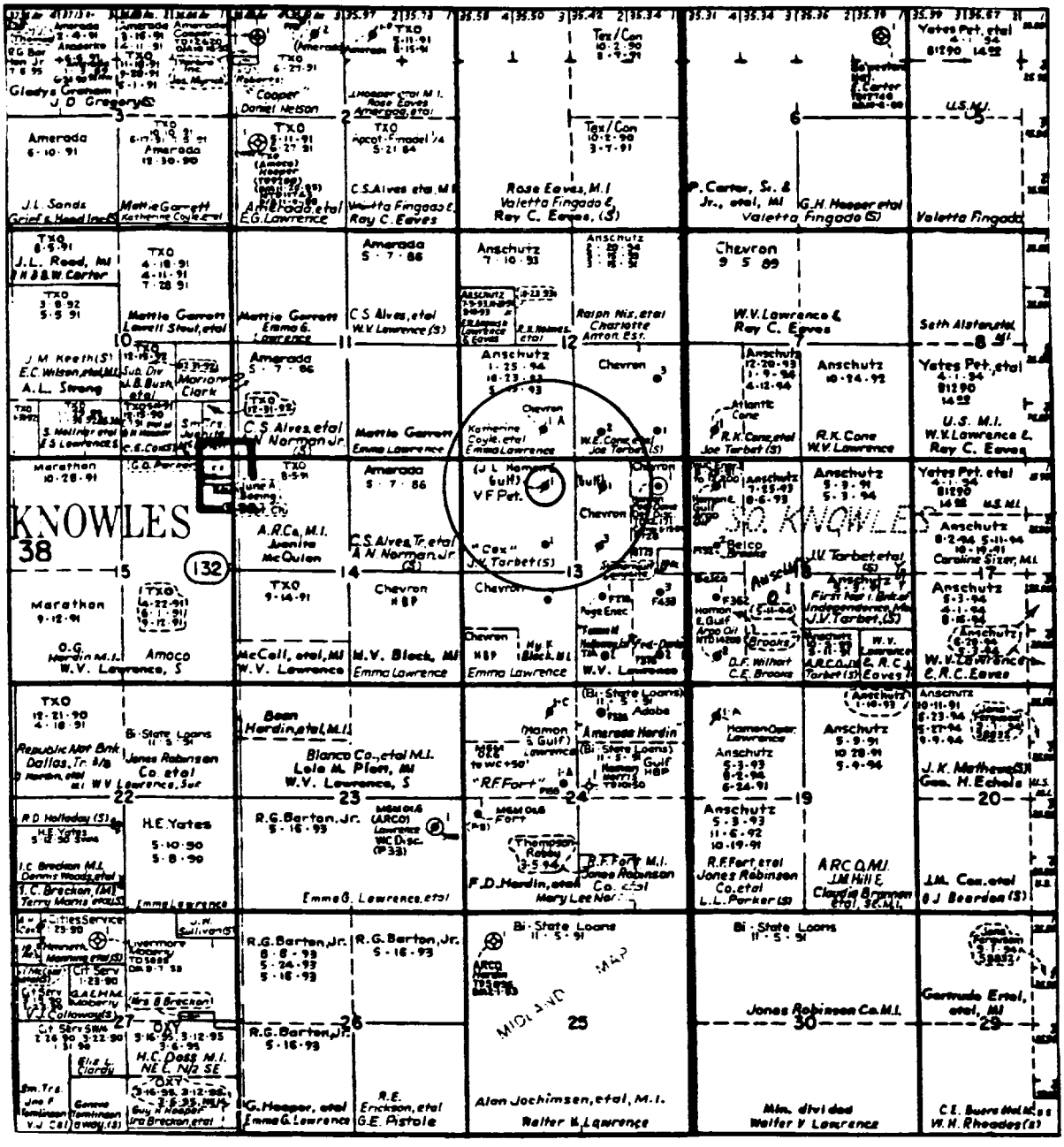
The logs have been previously submitted.

Part XI

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

Part XII

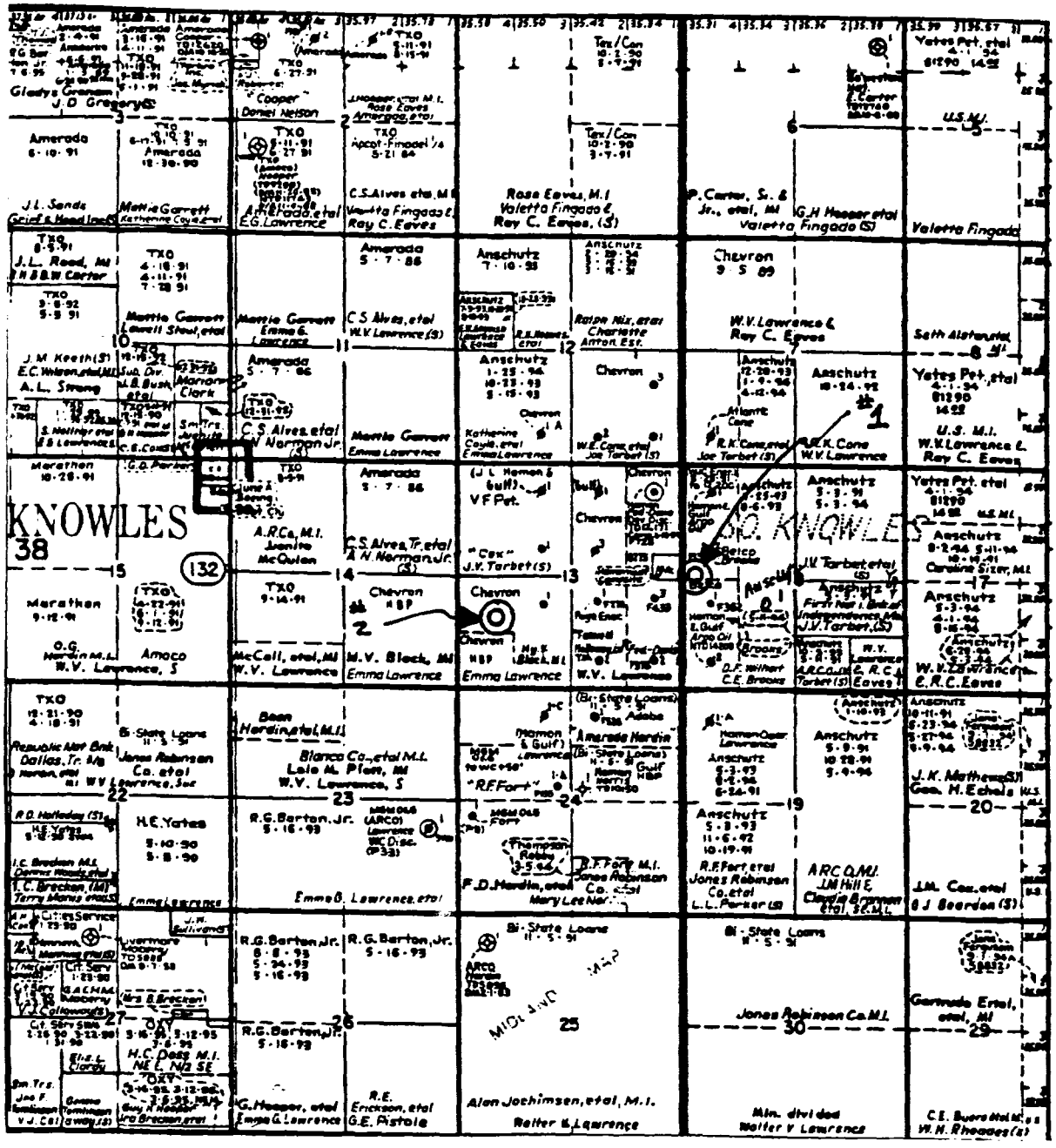
We have examined all available geologic and engineering data, and find no evidence of open faults or any other hydrologic connection between the disposal interval and any underground source of drinking water.



C - 108 PART V

WJC INCORPORATED

J. G COX
660' FNL & 1980' FWL
sec. 13-T17S-R38E
Lea County, New Mexico



WJC INCORPORATED

Location of fresh water samples

HALLIBURTON SERVICES
HOBBS, NEW MEXICO

To _____ Sample Number 348

WJC Inc.

*Milligrams per liter

Submitted by Mike Pierce Date Received 10-23-92

Well No. See Below Depth _____ Formation _____

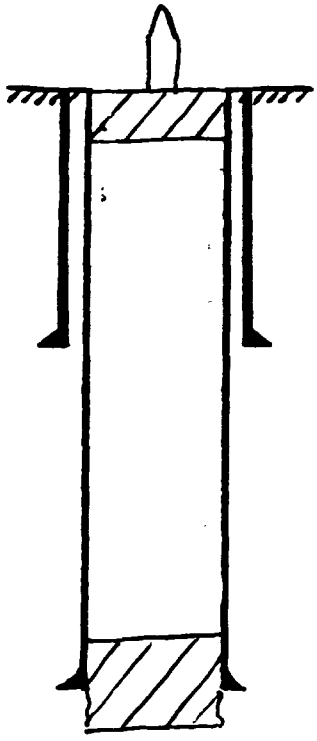
County Lea Field _____ Source See Below

	* Faucett #1	* Faucett #2	
Resistivity.....			
Specific Gr.....			
pH.....			
Calcium*..... Ca			
Magnesium*..... Mg			
Chlorides*..... Cl	75 mpl	75 mpl	
Sulfates*..... SO_4			
Bicarbonates*.... HCO_3			
Soluble Iron*.... Fe			
* Out side Ranch House			

OPERATOR			DATE
Jake Human			10-20-92
LEASE	WELL No.	LOCATION	
J. G. Cox	1	Sec 13 - T17S - R38E unit C	

660' FNL and 1980' FWL

D+A 4-10-70



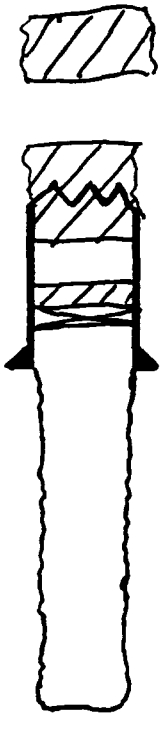
10 sx plug @ surface

13 3/8" casing set at 303' with 350 sx of _____ ceme

Total Depth _____' Hole size 17 1/4" Circulated

9 5/8" casing set at 5000' with 2600' sx of _____ cemen

Hole size 12 1/4" Cement Circulated



25 sx plug @ 5000

25 sx plug @ 8360

25 sx plug @ 10100

SHOT & pulled 5 1/2" CSG @ 10131

CIBP @ 12000' + 15' cmt

5 1/2" casing set at 12203' with 500 sx of _____ cemen

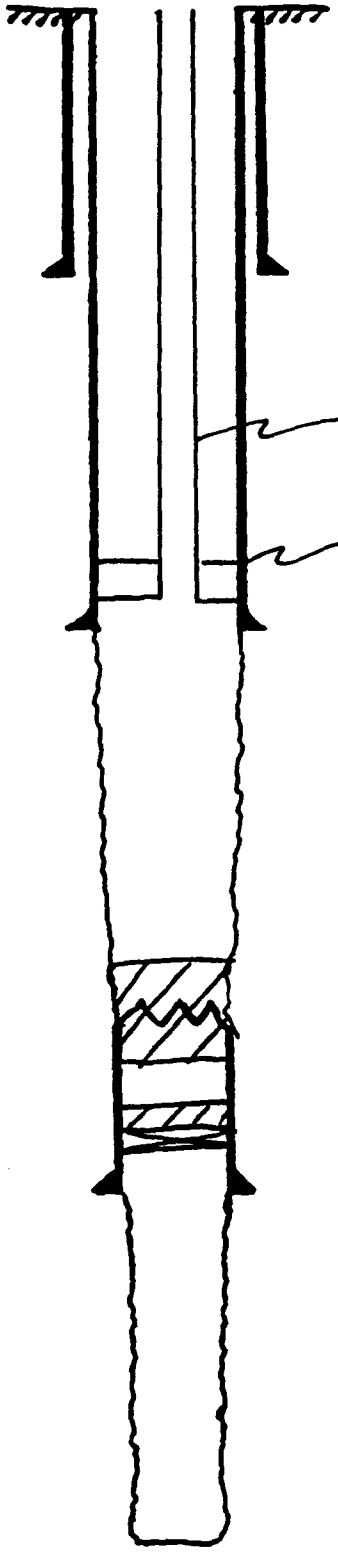
Total Depth 12243' Hole size 8 3/4" TOC by TS @ 10275'

OH 12203 - 12243

OPERATOR			DATE
Jake Hamon			10-20-92
LEASE	WELL NO.	LOCATION	
J. G. Cox	1	Sec 13 - T17S - R38E unit C	

660' FNL and 1980' FWL

Proposed Completion



13 3/8" casing set at 303' with 350 sx of _____ cem
Total Depth _____' Hole size 17 1/4" Circulated

2 7/8" plastic coated tubing set @ ± 4900'

Baker Locset packer set @ ± 4900'

9 5/8" casing set at 5000' with 2600' sx of _____ cemen
Hole size 12 1/4" Cement Circulated

OH interval 5000' - 8360 Injection zone

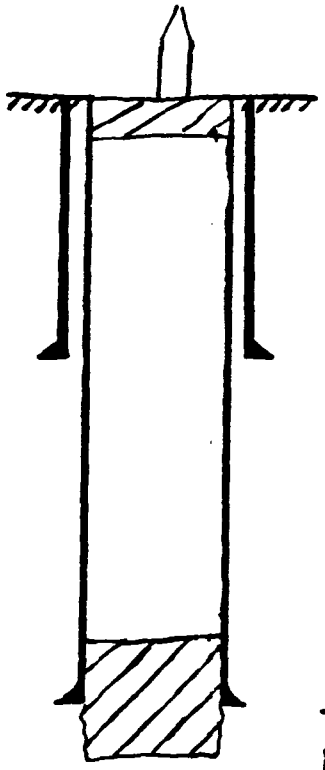
25 sx plug @ 8360
25 sx plug @ 10100
SHOT & pulled 5 1/2" CSG @ 10131
CIBP @ 12000' + 15' cmt
5 1/2" casing set at 12203' with 500 sx of _____ cem
Total Depth 12243' Hole size 8 3/4" TOC by TS @ 10275'
OH 12203 - 12243

OPERATOR			DATE
JAKE HAMON			10-20-92
LEASE C. Cooper "A"	WELL NO. 1	LOCATION Sec 12 T17S-R38E Unit N	

660' FSL & 1980' FWL

A + A

6-10-1960



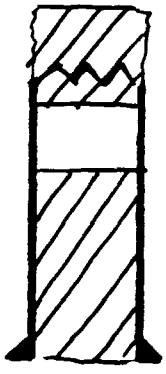
Set 10 sx plug @ surface

13 3/8" casing set at 304' with 300 sx of _____ cem

Total Depth _____' Hole size 17 1/4" Circulated

9 5/8" casing set at 5000' with 2400 sx of _____ cemen

Hole size 12 1/4" Cement Circulated



Set 50 sx plug @ 5045 - 4914

set 25 sx plug @ 9990 - 9748'

Shot + pulled 5 1/2" csg @ 9880'

Set 50 sx plug 12244 - 11802

Perf 12215 - 12240
12240 - 12250

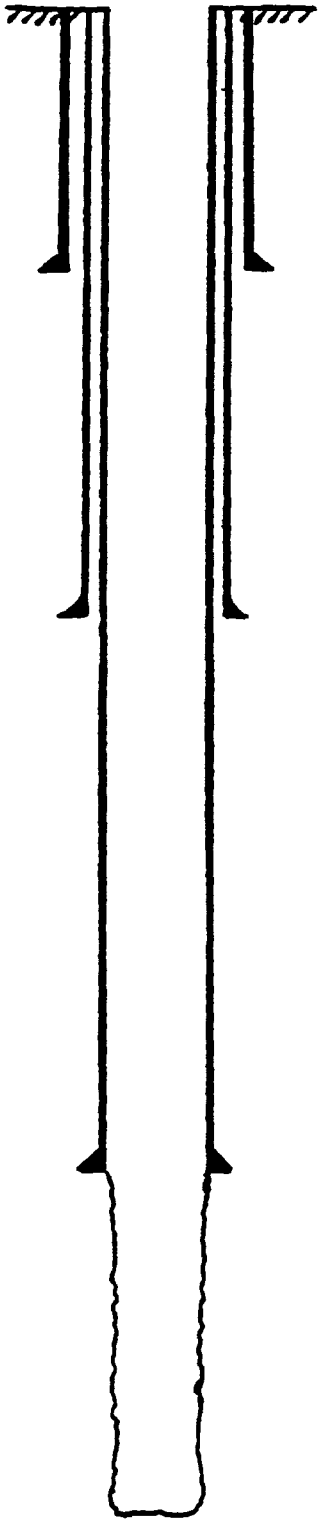
5 1/2" casing set at 12263' with 500 sx of _____ cemen

Total Depth 12263' Hole size 8 3/4"

OPERATOR			DATE
E+M Oil and Gas Company			10-20-92
LEASE	WELL No.	LOCATION	
W. F. Cone	2	Sec 12-T17S-R38E unit O	

660' FSL + 1980' FEL

SI (Devonian)



13 3/8" casing set at 365' with 425 sx of _____ cem.
Total Depth _____' Hole size 17 1/2" Circulated

9 5/8" casing set at 4799' with 4550 sx of _____ cemen
Hole size 12 1/4" Cement Circulated

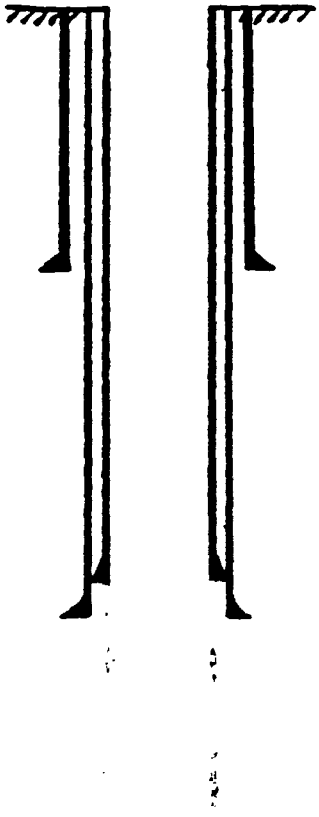
SQZ casing leak @ 6904 - 6967 w/ 450 SX.

7" casing set at 12155' with 450 sx of _____ cemer
Total Depth 12261' Hole size 8 3/4"
OH 12155 - 12261

OPERATOR		DATE
F+M Oil and Gas Company		10-20-92
LEASE	WELL No. / LOCATION	
F.M. Holloway	1 / Sec 13-T17S-R38E unit G	

660' FNL and 1980' FEL

SWD well R-51



13 3/8" casing set at 293' with 350 sx of _____ cem

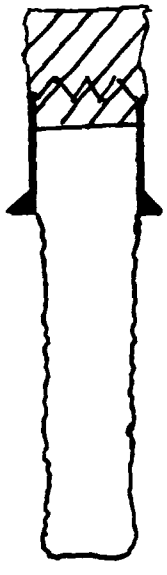
Total Depth _____' Hole size 17 1/2" Cmt circulated

7" csg set @ 4906 w/ 1500 sx cmt

9 5/8" casing set at 4999' with 2780 sx of _____ cemen

Hole size 12 1/4" Cement circulated

OH Injection 4999' – 9000'



Set 50 sx plug @ 9228-9080

Cut and pull 5 1/2" csg @ 9105'

5 1/2" casing set at 12147' with 500 sx of _____ cemen

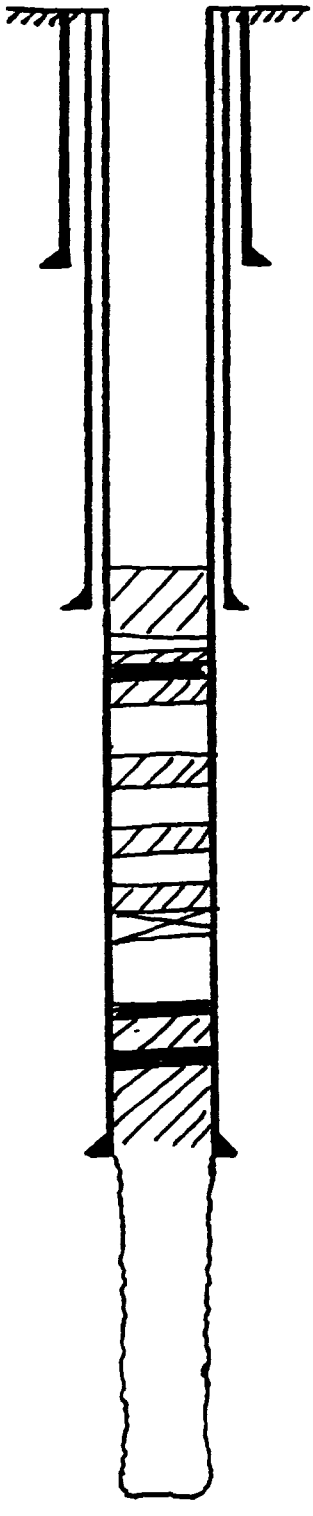
Total Depth 12212' Hole size 8 3/4"

OH 12212 - 12147

OPERATOR		DATE
F+M Oil and Gas Company		10-20-92
LEASE	WELL No.	LOCATION
F. M. Holloway	3	Sec 13- T17S-R38E Unit G

1980' FNL and 1980' FEL

Well is SI



13 3/8" casing set at 320' with 325 sx of _____ ceme
Total Depth _____' Hole size 17½" Circulated

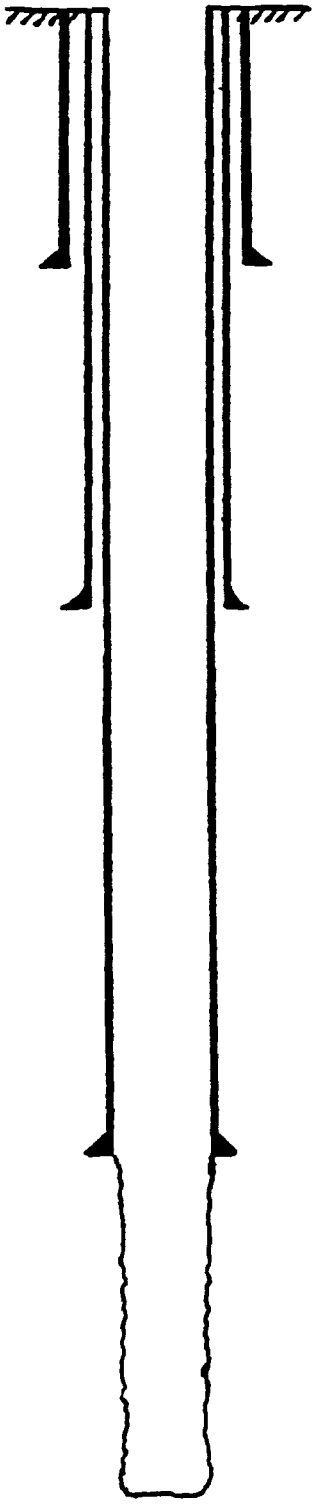
Set 25 sx plug 4850 - 5050
Set Cmt Ret @ 5331 + sqz w/ 40 sx + 50' on top of
9 5/8" casing set at 4998' with 2150 sx of _____ cemen
Hole size 12¼" Cement Circulated
perf 5362 - 5420
Cmt plug @ 6950 - 6750
Cmt Plug @ 9360 - 9160
Set CIBP @ 9625 + 35' cmt
Set cmt Ret @ 9730 sqz w/ 1550 sx
Set Cmt Ret @ 9767 sqz w/ 400 sx
CSG collapsed @ ± 11120'

5½" casing set at 12055' with 250 sx of _____ cemen
Total Depth 12080' Hole size 8¾"
OH 12055 - 12080

OPERATOR			DATE
AEN Energy Inc			10-20-92
LEASE	WELL NO.	LOCATION	
V.F. Cox	1	Sec 13 T17S-R38E unit F	

1980' FNL & 1980' FWL

producing from Devonian



12 3/4" casing set at 365' with 450 sx of _____ ceme

Total Depth _____' Hole size 15" Circulated

8 5/8" casing set at 5017' with 1500 sx of _____ cemen

Hole size 11 1/4" cement Circulated

perf 12120 - 12134

5 1/2" casing set at 12147' with 250 sx of _____ cemen

Total Depth 12168' Hole size 7 7/8"

OH 12147 - 12168

P 369 427 047

Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to	State Land Office
Street and No.	PO Box 1149
P.O., State and ZIP Code	Santa Fe NM 87504-1148
Postage	$ 1.21
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	$ 2.21
Postmark or Date	

PS Form 3800, June 1991

P 369 427 048

Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to	Arka Oil Co.
Street and No.	PO Box 3193
P.O., State and ZIP Code	Midland, TX 79702
Postage	$ .75
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	$ 1.75
Postmark or Date	

P 369 427 052

Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to	The Anschutz Corp
Street and No.	1221 Lamar Ste 1100
P.O., State and ZIP Code	Houston TX 77010
Postage	$1.21
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	$2.21
Postmark or Date	

PS Form 3800, June 1991

P 369 427 049

Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to	Joe V. Tarbet
Street and No.	Route 4 Box 333A
P.O., State and ZIP Code	Seminole, TX 79360
Postage	$ .75
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	1.75
Postmark or Date	

PS Form 3800, June 1991

P 369 427 051

Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to	HM O&G Co
Street and No.	PO Box 891
P.O., State and ZIP Code	Midland TX 79702-0891
Postage	$1.21
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	2.21
Postmark or Date	

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

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

Oct. 27, 1992
and ending with the issue dated

Oct. 27, 1992

Kathi Bearden
General Manager

Sworn and subscribed to before me this 29 day of Oct, 1992

Paula Parnell
Notary Public.

My Commission expires

Aug. 5, 1995
(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.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 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.

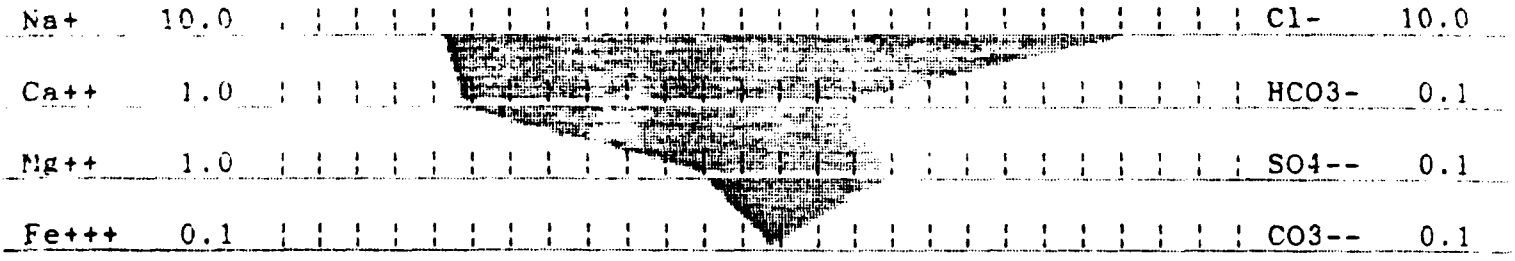
Inquiries regarding this application should be directed to Peak Consulting Services, P.O. Box 636 Hobbs, New Mexico 88240, (505)392-1915.

BAKER OIL TREATING
A Baker Hughes company

WATER ANALYSIS
for
ENRON OIL & GAS

Date of Analysis:	FEBRUARY 28, 1990	Analysis #:	3621
Company:	ENRON OIL & GAS	Attention:	RICK SCHATZ
City:	CARLSBAD	State:	NEW MEXICO
Lease/Well #:	C.E. BROOKS #1	Field:	KNOWLES
Type of Water:	PRODUCED	Water (bbl/day):	475
Temp.,C:	20	Sample Source:	WELLHEAD
Use:	N/D	Date of Sampling:	FEBRUARY 28, 1990
Representative:	STEVE STROUD	Analysis By:	CLYDE WILHOIT

WATER ANALYSIS PATTERN
(number beside ion symbol indicates me/l scale unit)



DISSOLVED SOLIDS

	mg/l	me/l
CATIONS		
Ca++	1,920.0	96.0
Mg++	244.0	20.0
Fe+++	1.0	0.1
Ba++	0.0	0.0
Na+	23,392.5	1,017.1
Mn++	0.0	0.0
ANIONS		
Cl-	40,000.0	1,126.8
SO4--	180.0	3.8
CO3--	0.0	0.0
HCO3-	159.0	2.6
OH-	0.0	0.0
S--	0.0	0.0
TOTAL HARDNESS :		116.0

TOTAL SOLIDS (quantitative): 65,896.5
RESIDUAL HYDROCARBONS : 0.0

DISSOLVED GASES

	mg/l
Hydrogen Sulfide,H2S :	250.0
Carbon Dioxide,CO2 :	159.4
Oxygen,O2 :	0.8

PHYSICAL PROPERTIES

pH :	6.6
Specific Gravity :	1.0
TDS (calc.) p.p.m. :	65,896.5

SCALE STABILITIES

Temp. C.	Temp. F.	CaCO3	CaSO4	BaSO4
20	68	-0.80	3867	1
40	104	-0.38	4192	2
60	140	0.17	3910	3
Max entity,(calc):		260		0

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

@ 20'C...Moderately corrosive.

W J C, Inc.

W. J. Collier, P.E.

(806) 495-2896

(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: _____
A.E. Nelson, Jr., President

P. O. Box 7
Post, Texas 79356

P. O. Box 3857
Midland, Texas 79702