

State of New Mexico

OFFICE OF THE

Commissioner of Public Lands

Santa Fe

P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

GENOMORE: THE EMPIRED

November 2, 1992

Michael L. Pierce Peak Consulting Services P. O. Box 636 Hobbs, New Mexico 88240 Case 10613

Re: WJC, Inc.

SWD Application

Sec. 13-T17S,R38E - Unit C Sec. 18-T17S,R39E - Unit M Lea County, New Mexico

Dear Mr. Pierce:

Upon receiving your letter dated October 23, 1992, regarding application for a salt water disposal easement, please be advised that we have checked our tract books and find that the above referred to descriptions are not State Trust Lands.

If we may help you in the future, do not hesitate to contact us.

Sincerely,

Johnny A. Taylor

Assistant Commisioner

JAT/d1

cc: Oil Conservation Division

P. O. Box 2088

Santa Fe, NM 87504

PEAK

CONSULTING SERVICES

P.O. BOX 636 HOBBS, NEW MEXICO 88240 OFFICE (505) 392-1915 ENVIRONMENTAL, GEOLOGICAL & REGULATORY SPECIALISTS



October 23, 1992

Re: WJC INC.

SWD Application

sec. 13-T17S-R38E unit C sec. 18-T17S-R39E unit M Lea County. New Mexico

Dear Sir:

Peak Consulting Services is acting as agent for WJC INC. concerning the above referenced SWD application's.

Please find enclosed vour copy of the application for disposal of produced water at the referenced locations. Should vou have any questions about these applications, please direct them to me at the address above. Thank you for your time and consideration.

Michael L. Pierce

Peak Consulting Services

OIL CONSERVATION DIVISION

POST OFFICE BOX 2008 STATE LAND OFFICE MULDING SANTA FE. NEW MEXICO 87501 FORM C-108 Revised 7-1-81

Case 10613

APPLICA	ATION FOR AUTHORIZATION TO INJECT
Ι.	Purpose: Secondary Recovery Pressure Maintenance XX Disposal Storage Application qualifies for administrative approval? XX yesno
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 XX no If yes, give the Division order number authorizing the project
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 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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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 lithological 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 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 source 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.
	Name: Michael L Hierce Title Consultant
	Signature:

^{*} 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) Fach 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:

- 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 or hearing with the Oil Conservation Division, P. O. Box 1388. Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UP 1 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.

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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

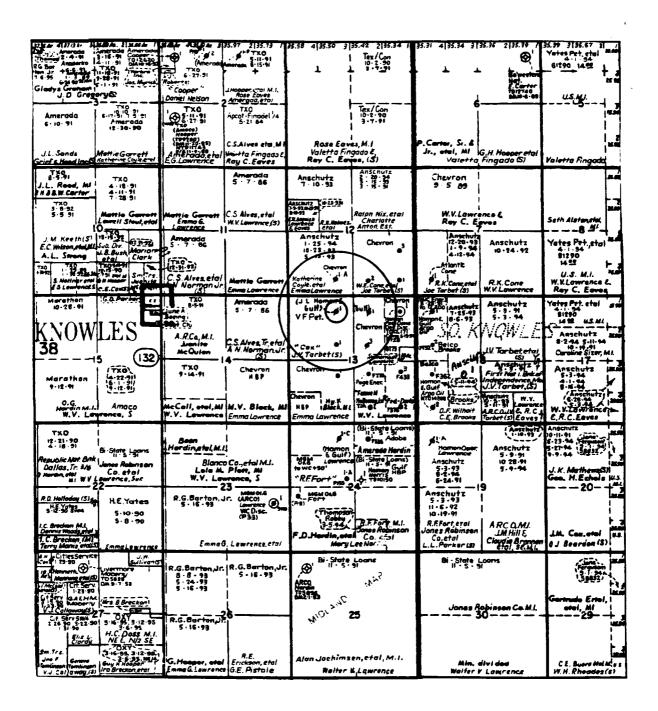
The logs have been previously submitted.

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.



C - 108 PART V

WJC INCORPORATED

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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	
Well No. See Below	DepthFormation
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	95/8 " casing set at 5000 ' Hole size 12/4 " Comenf	with 2600'sx of cemen Circulated
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DERATOR JAKE HAM	DATE 10-20-92
LEASE C. COOPER ?	1" WELL MO. LOCATION Sec 12 7/25-138 & Unit N 1 660' F5L AND 1980' FWL
	Set 10 5x plug @ surface
	13% " casing set at 304' with 300 sx of cem. Total Depth ' Hole size/7/4" Circula feel
	95/8 " casing set at 5000 with 2400 sx of cemen Hole size 12/4" Cancert Circulated
	set 50 sx pluy @ 5045 - 4914 set 25 sx pluy @ 9990 - 9748' Shot + pulled 51/2" csg @ 9880' Set 50 sx plug 17244 - 11802
	Set 50 5x plog 1244 - 11802 Part 12215 - 12240 12240 - 12250 S/2 " casing set at 12263" with 500 sx of cemer Total Depth 12263" Hole size 8 1/4 "

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LEASE F. M. Holloway WELL MA COMPANY CONTINUE 10-20-92 13% " casing set at 320 ' with 325' sx of ceme Total Depth ' Hole size /7/2 " Circulated Set 25 3x plus 4850 - 5050 Set Cmt Ret @ 5531 + 562 w/ 40 sx + 50' on top do 95% " casing set at 4998 ' with 2150 sx of cemen Hole size 2/4 " Campant Circulated Port 5362 - 5420 Cmt plus @ 6950 - 6750 Cmt plus @ 6950 - 6750 Cmt Plus @ 9360 - 9160 Set C160 @ 9625 + 35' cmt Set cmt Ret @ 9767 582 w/ 400 sx
13% " casing set at 320 ' with 325 sx of ceme Total Depth ' Hole size /7/2 " Circulated Set 25 5x plug 4850 - 5050 Set Cmt Ret @ 5331 + 562 w/ 40 5x + 50 on top of 958 " casing set at 4998 ' with 2150 sx of cemen Hole size /2/4 " Camout Circulated Depth 5362 - 5420 Cmt plug @ 6950 - 6750 Cmt plug @ 9360 - 9160 Set C160 @ 9625 + 35' cmt
CSG collapsen @ ± 11120' 5/2 " casing set at 12055' with 250 sx of cemer Total Depth 12080 ' Hole size 8/4 " OH 12055 - 12080

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OPERATOR		DATE	
LEASE IS COM	ergy Inc WELL Na	10-20	
V. F. COX	$\beta / 2 \frac{3}{4}$ " casing set at $\frac{36}{36}$	5ec 13 T175-R3BE 1980' FNL + 1980' FN 10cing from Dononing S' with 450 sx of e size CINCUM	Ceme
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AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I. Ka	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

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Beginning with the issue	dated
0-4 27	. 02
Oct. 27	
and ending with the issue	e dated
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Notary Public.	<i>O</i> ,
My Commission expires_	
_ -	٥٦
Aug. 5	, 19 <u>95</u>
(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 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 bbls/day with zero pressure. The maximum pressure will not exceed the limits as set forth by the Oil Conservation Division.

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.

AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

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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
$\frac{\text{Oct. 27}}{\text{and ending with the issue dated}}, 19 \frac{92}{}$
Oct. 27 , 19 92
Habi Blassen General Manager
Sworn and subscribed to before
me thisday of
CH, 194) Retary Public.
My Commission expires
Aug. 5 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.

(Seal)

Legal Notice
October 27, 1992
ADVERTISEMENT
WJC, INC., whose address
Is P.O. Box 3857, Midland,
Hexas 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 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.

OIL CONSERVATION DIVISION

POST OFFICE BOIL 2088 STATE LAND OFFICE BUILDING SANTA PE, NEW MEXICO 87501 FORM C-108 Revised 7-1-81

Ι.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Myes Ino
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? If yes, give the Division order number authorizing the project
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 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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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.).
111.	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 program, if any.
х.	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 source of drinking water.
aii.	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 W/ Pierce/ Fitle Consultant
	Signature:

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:

- 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

- 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 Soring 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

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

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WJC INCORPORATED

Location of fresh water samples

HALLIBURTON SERVICES HOBBS, NEW MEXICO

To		Sample Number 349
WJC Inc.		*Milligrams per liter
submitted by Mike Pierce		Date Received 10-23-92
Well No. See Below	Depth	Formation
county lea Faucett #1	Faucett #	source See Below
Resistivity		
Specific Gr		· · · · · · · · · · · · · · · · · · ·
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Calcium*		
Magnesium*75 mg Chlorides*75 mg Cl Sulfates* SO, Bicarbonates* HCO, Soluble Iron* Fe	75 mp	
Out side Ranch House		

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LEASE J. G. Cox		WELL NO. L	OCATION SPC 13- T	
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	Hole size $\frac{12/4}{4}$ 25 Sx ph 25 Sx ph 25 Sx ph 25 Sx ph 25 Sx plug 5407 \neq pulled CIBP @ 1206 S/2 " casing se	La Ca /15 @ E /15 @ 10 /15 & 15 t at /220 /3' Hole	ment Cine 5000 3360 100 100 100 100 100 100 100 100 100 1	

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	·
OPERATOR JAKE HAN	10n DATE 10-20-92
LEASE L. Cooper	WELL NO. LOCATION
mar Jam	A + A 6-10-1960 FWL
	Set 10 5x plug @ Sunthere [33/8" casing set at 304" with 300 sx of cem Total Depth" Hole size
	95/8 " casing set at 5000 with 2400 sx of cemer. Hole size 12/4 " Caneuf Circulated
	Set 50 sx pluy @ 5045 - 4914 set 25 sx pluy @ 9990 - 9748' Shot + pulled 5/2" csg @ 9880' Set 50 sx plug 17244 - 11802 Part 12215 - 12240 12240 - 12250 S/2" casing set at 12213' with 570 sx of commen
<i>Y / /</i> I	5/2 " casing set at 12.262 " with $57m$ sy of comer

Total Depth 12263' Hole size 83/4 "

OPERATOR F	+ M Oil	AND GAS	Company WELL MA Z		OATE 10-20-	92
LEASE	U.F. Con	(G	WELL NO.			
		/33/8 " cas	sing set at	660' F5 51 (Seven) 52 (Seven) 53 (Seven) 53 (Seven) 54 (Seven) 55 (Seven) 56 (Seven) 57	<u> 425</u> sx of	cer.
		Hole size	12/4 .	4799' with Coment C.	rev lated	
		Total Depth		<u>?/55</u> with ole size <u>8</u> /226/		ceme

OPERATOR C				DATE
LEASE F. M. Hollow	mo 61 a	lings in the /	10017701	10-20-92
F. M. Itollows	<u>4</u>			15-138E unit 6 MO 1980' FEL
		SW	10 well	K-51
	7" CS9 Set	Ho	1e size <u>17/2</u> 4906 w/ 4999 with	
	Set So Sx Cut muo pull s S/2 " casing set Total Depth /27/2 OH /22/	: at <u>/2</u> 2_' Ho	/ <u>//</u> with <u>57</u> le size <u>8</u>	no sx ofcemen

OPERATOR - 1)	DATE	2.
LEASE F. M. Hollo	WAY	MELL NA TICCITION	10-20 13- T175- R38E	
7.77		1980	FNL MD 1980	
7//2011	7	Well	1's SI	
	Set 25 5x, Set Cmt Ret 95/8 " casing Hole size 12/4 Pert 5362- Cmt pluq @ Cmt Pluq @ Set C16P @ Set Cmt Ret Set Cmt Ret CSG Collapse	t at 320 ' wi Hole size Hole size 1850 - 5331 + 9 set at 4998' Comput 5420 6950 - 67 9360 - 9 9625 + 35 9767 58 9767 58	ith 325 sx of	of on top of cemen:
	Total Depth 1208			
	OH 120	055- 1208	0	

ATOR AEN EN	ergy Inc			DATE	10-20-	- 92
V.F. Cox		WELL No.	LOCATION 50C /3 7	T175-K	18E 1	wit F
		prod	1980'F. Jucia h	Ne + 1	•	
	Casing set Total Depth Casing set S Casing set Casing set	' Ho	<u>Sb/7</u> ' wi	<u>/5 "</u> th <u>/500</u>	Circulii sx of _	cer
	perf 12120 - <u>S/2</u> " casing set Total Depth <u>12168</u> OH 1214	at <u>/2/</u>	<u>'47'</u> with e size	250 7/8 "	sx of	Ce

P 369 427 047



Receipt for Certified Mail

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

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P: 369 427 048



Receipt for Certified Mail

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

(See Reverse)	
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Postage	\$ 75
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	Restricted Delivery Fee	
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une 1	Return Receipt Showing Rd, Wnorm. Date, and Addressee's Address	
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PS Form 3800, June 1991		
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Receipt for Certified Mail

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	Joe V. TAKBEH
į	Route 4 Box 333A
	State and ZIP Code Service (x 79.760)
	Postage \$ · 7,
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	Special Delivery Fee
	Restricted Delivery Fee
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	Return Receipt Showing to Whom Date, and Addressee's Waress
	TOTAL Postage & Fees
,	Postmark or Date

P 369 427 051

Receipt for Certified M

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

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Restricted Delivery Fee	
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of the earlier submittal.

OIL CONSERVATION DIVISION

FORM C-108 Revised 7-1-81

FOST OFFICE BOX 2009 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501

Ι.	Purpose:	Secondary Recovery Pressure Maintenance Disc	osal Storage			
• •		tion qualifies for administrative approval? XX yes	no Storage			
II.						
	Aadress: _	P. O. Box 3857 Midland, Texas 79702				
	Contact par	rty: M.L. Pierce (Peak Consulting Services) Phone: 505-39	92-1915			
III.	Well data:	Complete the data required on the reverse side of this for proposed for injection. Additional sheets may be attached	orm for each well ed if necessary.			
IV.	Is this an If yes, giv	expansion of an existing project? yes XX no ve the Division order number authorizing the project				
٧.	injection w	ap that identifies all wells and leases within two miles o well with a one-half mile radius circle drawn around each ; s circle identifies the well's area of review.	f any proposed proposed injection			
VI.	penetrate t well's type	abulation of data on all wells of public record within the the proposed injection zone. Such data shall include a de- e, construction, date drilled, location, depth, record of a c of any plugged well illustrating all plugging detail.	scription of each			
vII.	Attach data	a on the proposed operation, including:				
	2. Whe 3. Pro 4. Sou t 5. If a	oposed average and maximum daily rate and volume of fluids ether the system is open or closed; oposed average and maximum injection pressure; urces and an appropriate analysis of injection fluid and conthe receiving formation if other than reinjected produced injection is for disposal purposes into a zone not product or within one mile of the proposed well, attach a chemical the disposal zone formation water (may be measured or infer literature, studies, nearby wells, etc.).	ompatibility with water; and tive of oil or gas cal analysis of			
III.	detail, geo bottom of a total disso	ropriate geological data on the injection zone including apological name, thickness, and depth. Give the geologic name all underground sources of drinking water (aquifers contain olved solids concentrations of 10,000 mg/l or less) overlying as well as any such source known to be immediately undinterval.	ne, and depth to ning waters with ing the proposed			
IX.	Describe th	he proposed stimulation program, if any.				
х.	Attach appr with the Di	ropriate logging and test data on the well. (If well logs ivision they need not be resubmitted.)	have been filed			
XI.	avai ^l able a	hemical analysis of fresh water from two or more fresh wate and producing) within one mile of any injection or disposal f wells and dates samples were taken.	er wells (if well showing			
XII.	examined av	for disposal wells must make an affirmative statement that vailable geologic and engineering data and find no evidence er hydrologic connection between the disposal zone and any drinking water.	of open faults			
III.	Applicants	must complete the "Proof of Notice" section on the reverse	side of this form.			
XIV.	Certificati	ion				
	to the best	ertify that the information submitted with this application t of my knowledge and belief.	is true and correct			
	Name: Mich	hael . Vietce				
	Signature:	Date: 10/23/92	2			

111. 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:
 - 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:

- 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 Soring, 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

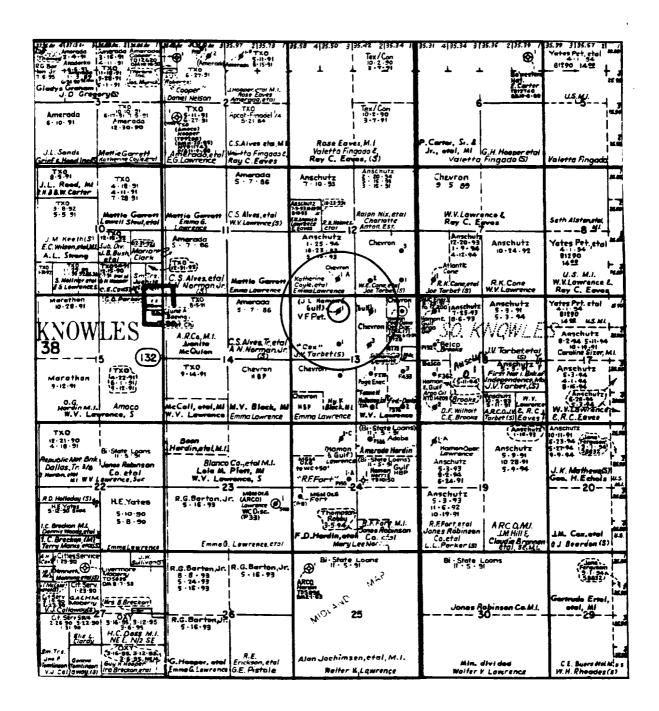
The logs have been previously submitted.

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.



C - 108 PART V

WJC INCORPORATED

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

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WJC INCORPORATED

Location of fresh water samples

HALLIBURTON SERVICES HOBBS, NEW MEXICO

To		Sample Number	348
WJC Inc.		*Milligrams pe	r liter
submitted by Mike Pierce	·	Date Received_	10-23-92
Well No. See Below			
county Lea * Faucett #1	Field Faucet	Source_ #2	See Below
Resistivity	i .		
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JAKE HUW	DATE 10-20-92
LEASE J. G. Cox	WELL NA LOCATION Sec 13-7/15-138E wif C
	660' FNL +nd 1980' FWL
\wedge	D+A 4-10-70
	10 SX plug @ Surface 13 1/8 " casing set at 303' with 350 sx of ceme Total Depth' Hole size 17/4 " Circulated
	95/8 " casing set at 5000 with 2600 sx of cemen. Hole size 12/4 " Coment Circulated
	25 SX plug @ 8360 25 SX plug @ 10100 5401 & pulled 5 1/2" (S6 @ 10131 CIBP @ 12000' + 15' cmft 5/2 " casing set at 1203' with 500 sx of cemen Total Depth 12243' Hole size 83/4 " Toc 64 75 OH 12203-12743

DPERATOR		DATE
JAKE HAM	1DA WELL NA LOCATION	10-20-92
LEASE C. COOPER	A+A 660 6- Set 10 5x plug @	rith <u>360</u> sx of cerr
	95/3 " casing set at 5000" Hole size 12/4" Convent	with 2400 sx of cemer Circula-ked
	set 50 sx pluy @ 5045 set 25 sx pluy @ 9990. Shot + pulled 5/2" csg @ " Set 50 sx plug 17240 Part 12215-12240 12240-12250 5/2" casing set at 12263" wi Total Depth 12263" Hole size	9880 1- 11802 ith <u>570</u> sx of cemer

OPERATOR	F+M Oil	AND GAS	Company		DATE /0-20-	<i>9</i> 2
LEASE	W.F. Co		WELL NO.	SEC 12-717		
m		,	<u><</u>	660' 75. 5I (Sevoni	(+ 1980°	Fel
		/33/8 " cas Total Depth	ing set at <u> </u> '	365' with <u>9</u> ole size <u>/7/</u> 2	125 SX OF	Cem
		Hole size 👤	2/4 .	4799' with Comen's Com	eco lated	
		Total Depth		<u>//55</u> with <u>y</u> ole size <u>8</u> 3/1 /226/		ceme

OPERATOR F+M O.	1 mo 6ks	Company	10-20-9.	2
LEASE F.M. Hollow	MY	WELL No. / LOCATION	- T175-138E unit	6
		660'	FNL MO 1980' FEL	
		5W0 W	ell R-51	
	7" CS9 Ser 95/8 " casing Hole size 12/4	Hole size _		ul Ated
	5/2 " casing se Total Depth /27/	plug @ 92 5/2" csq @ 'est at <u>/2/47</u> with 2' Hole size	h <u>570</u> sx of	cemer

OPERATOR F + M &	Dil Ano GAS	Company	DATE 10-20-92
LEASE F. M. Hollo		WELL NO. LOCATION	173-138E unit 6
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OPERATOR	GEN EN	nergy Inc			DATE 10-20	- 92
LEASE V.	F. Cox		WELL NO. U	ocation Sec /3 7/7	S-128E	
				1980' FNL	+ 1980' Fur Dovonin	16
		Total Depth 85/8 casing Hole size ///4	' Hole	Size <u>/S</u>	_" CINCUM /500 sx of _	cement
		perf /2/20 <u>\$\frac{5}{2}</u> " casing set Total Depth <u>/2/68</u> OH /2/4	at <u>/2/4</u> B' Hole	7' with 250 size 7/8	<u>D</u> sx of	cemen

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P 369 427 047



Receipt for Certified Mail

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

	Strte CMO	Office
	PO Bix 1149	
	State and ZIP Code My Ky Fe NW 8	31504-1148
	Postage	\$ 121
	Certified Fee	1.00
	Special Delivery Fee	
	Restricted Delivery Fee	
- 00	Return Record Showing to Whom & Date Delivered	
	Return receipt pong to Wrose Date, and And Const.	
,	TGTAL Postige & Fees	\$ 22
,	Postmark Date	,
5		
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P. 369 427 048



Receipt for Certified Mail

No Insurance Coverage Provided Do not use for International Mail

(See nevelse)			
i .			
900 Bux 3/93			
79702			
\$ 75			
1.00			
\$ 1.75			

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Receipt for Certified Mail

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

THE ANSHUTZ CORP				
et and No	ste 1/00			
, State and ZIP Code	77010			
tage	\$/2/			
tified Fee	1.00			
cial Delivery Fee				
tricted Delivery Fee				
urn Receipt Showing Whom & Date Delivered				
urn Receipt Showing he Whome, and Addressee's Address				
AL Postage	\$22			
tmark of Dale School	131			
(0) L	ブ ·			
	~			
	ret and No. 2			

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UNITED STATES

Receipt for Certified Mail

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

	Joe V. TALBETT			
1	Routs 4 Box	333A		
	State and ZIP Code	79760		
	Postage /	\$.75		
0 , June 1991	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 digress	200		
	TOTAL Postage & Fees	\$1.75		
PS Form 3800, June 1991	Postmark or Date	5.4		

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TIN THE DESIGNES

Receipt for Certified Mail

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

(000 1.010101		
Sent JM O+G	Co	
SUPPLY 891		
P. Of Street and ZIP Code	19702 - 00	
Postage	\$/,2	
Certified Fee	1.00	
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to Whom & Date Delivered		
Return Receipt Showing to Woom Date, and Addressee's Address		
TOTAL Postage & Fees	342	
Postmark or Date on Sala	3	