PEAK

#### **CONSULTING SERVICES**,

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

RELEASE 11.9.92 PCS

Case 10614

October 23, 1992

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

Re: WJC Inc.

SWD applications

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

Dear David:

Please find enclosed WJC Incs' disposal applications for the above captioned wells. These wells are in the South Knowles Devonian Field. We don't know if it is mechanically possible to re-enter the D.F. Willhoit well, but in an effort to same time we would like to permit both wells. It is our intent to only use one of the wells for disposal. The Willhoit # 2 is the well we would life to use , as this well would be open hole in the lower Devonian and the Ellenberger sections.

The J.G. Cox well in sec. 13-T17S-R38S unit C is a west offset to F & M Oil and Gas Company SWD well in section 13 unit B, Order No. SWD- 51. This well disposes in the open hole section form 4999'-9000'. The injection interval for the Cox well will be 5000'-8360'.

A copy of this application is being mailed to all interested parties, and proof of publication will be sent as soon as possible.

If you have any questions or if I can be of any assistance please let me know. Thank you for your time and cooperation.

Sincerely,

Michael L. Pierce

Peak Consulting Services

#### OIL CONSERVATION DIVISION

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

PRICATION FOR AUTHORIZATION TO INJECT

APPLIC	TION FOR AUTHORIZATION TO INJECT				
I.	Purpose: Secondary Recovery Pressure Maintenance  Disposal Storag Application qualifies for administrative approval?	e			
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? $\square$ yes $\stackrel{\textstyle \times}{XX}$ 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.	חכ			
VI.	Attach a tabulation of data on all wells of public record within the area of review whic 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:				
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and</li> <li>If injection is for disposal purposes into a zone not productive of oil or grat 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.).</li> </ol>	1 15			
VIII.	Attach appropriate geological data on the injection zone including appropriate lithologi 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.				
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this fo	rm.			
XIV.	Certification				
	I hereby certify that the information submitted with this application is true and conto the best of my knowledge and belief.	rect			
	Name: Michael La Pierce   Title Consultant				
	Signature:				

<sup>\*</sup> If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be dublicated 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 lessehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of 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.) D. F. Willhoit No. 2 660' FSL and 660' FWL Sec. 18 - T17S - R39E Unit M Lea County, New Mexico
- 2.) See attached wellbore schematic.
- 3.) Propose to re-enter the above captioned well, and inject produced water in the lower Devonian and Ellenberger formations. We will 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 Devonian and Ellenberger formations and the well is located in the South Knowles Devonian Field.
- 2.) The injection interval is open hole at 12,337' to 14,209'.
- 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. The Ellenberger is not productive in the area.

#### Part VII.

- 1.) The proposed daily injection will be 2000 bbls. per day. The maximum will be 5,000 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 productive with in 1 mile of the proposed well.

#### Part VIII

The injection interval is the Devonian and Ellenberger formations in the Knowles Devonian Field, and is composed of alternating beds of porous and tight dolomite and limestone. The injection interval is open hole from 12,337' to 14.209'. 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 Devonian and Ellenberger sections.

#### 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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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	
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OPERATOR  JAKE HAMON			DATE 10-19-92	
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OPERATOR F+M	Dil mo GAS Co	mpany	DATE	20 - 92
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F+M	Oil AND GAS CO.		DATE 10 - 20 - 92
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#### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

of the earlier submittal.

### OIL CONSERVATION DIVISION

POST OFFICE BOX 2009 STATE LAND OFFICE BUILDING SANTA PE NEW MEXICO 87501

	SARTA PE, NEW NEXELU B/SUT
APPLICA	ATION FOR AUTHORIZATION TO INJECT
Ι.	Purpose: Secondary Recovery Pressure Maintenance XX Disposal Storage Application qualifies for administrative approval? XX 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? $\square$ yes $X\!$
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 whic 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:
VIII.	<ol> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and</li> <li>If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).</li> <li>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</li> </ol>
	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.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification
	I hereby certify that the infarmation submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Michael L. Fierce Title Consultant
	Signature: Date:

\* 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

#### 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.
  - 1) 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 - 10B cont.

#### Part III. A

- 1.) D. F. Willhoit No. 2 660' FSL and 660' FWL Sec. 18 - T17S - R39E Unit M Lea County, New Mexico
- 2.) See attached wellbore schematic.
- 3.) Propose to re-enter the above captioned well, and inject produced water in the lower Devonian and Ellenberger formations. We will 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 Devonian and Ellenberger formations and the well is located in the South Knowles Devonian Field.
- 2.) The injection interval is open hole at 12,337' to 14.209'.
- 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. The Ellenberger is not productive in the area.

#### Part VII.

- 1.) The proposed daily injection will be 2000 bbls. per dav. The maximum will be 5,000 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 productive with in 1 mile of the proposed well.

#### Part VIII

The injection interval is the Devonian and Ellenberger formations in the Knowles Devonian Field, and is composed of alternating beds of porous and tight dolomite and limestone. The injection interval is open hole from 12,337' to 14,209'. 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 Devonian and Ellenberger sections.

#### 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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WJC INCORPORATED

D.F. WILLHOIT 660' FSL & 660' FWL sec. 18-T17S-R39E Lea County, New Mexico

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#### WJC INCORPORATED

Location of fresh water samples

## HALLIBURTON SERVICES HOBBS, NEW MEXICO

To	Sample Number348
WJC Inc.	*Milligrams per liter
submitted by Mike Pierce	
Well No. See Below	_DepthFormation
county <u>lea</u> Fiel Faucett #1	Faucett #2
Resistivity	
Specific Gr	
рн	
Calcium*	<del></del>
Magnesium*75 mp	
Sulfates*	
Bicarbonates*  HCO; Soluble Iron*  Fe	
Out side Ranch House	

OPERATOR  JAKE HAMON	DATE 10-19-92
LEASE J.F. Willhoit	WELL NO LOCATION  Z Sec. 18-TITS-R39E Unit M
	660'FSL + 660' FWL
Λ	P+A 9-1-78
	10 SX plug @ Sunface
774	40 sx plug e 500'-600'
	13 % " casing set at 326' with 340 sx of ceme
	Total Depth Hole size 17/2 " Cement circ
72	40 sx plug e 2400-2500'
	70 sx plug @ 4920 - 5100'
	95/8 " casing set at 5000 ' with 2800 sx of cemen
<b>777</b>	Hole size 12/4" cement circ
2.7	5/2" csg cut + pulled @ 5382'
	35 Sx plug @ 5317-5377
	35 Sx pluj @ 5377-5432
	C16P @ 11950' + 35' cement
	5/2 " casing set at 12337' with 500 sx of ceme
	Total Depth 14209 ' Hole size 8 1/4 " TOC by Bono (og 10030'
}	
}	
}	

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OPERATOR WJ	C Inc	DATE 10-20-92
		3-7175-139E VAIT L
	· — — - ·	FSC MO 660' FWL  A DOUDIAN  h 450 sx of ceme
	95/8 " casing set at 50/6 ' v  Hole size 12/4 " C/A	with <u>2085</u> sx ofcemen
	12037 - 1205 - 1	1 <u>/050</u> sx of cemer 8½ * Toc 7000'

OPERATOR WJC Z	nc			DATE 10-20-92	
LEASE Brooks C.		WELL NO.	LOCATION SEC	18- TITS-R39E UM	
		product at	deing with the size	FNC MO 660' FWC  From Devoning  th 450 sx of  17/2 "  with 2/100 sx of	ceme
	12064 - 5/h " casing se Total Depth (2/2)	t at <u>/2</u>	<u>/YY</u> ' wi	th <u>/200</u> sx of	ceme

.

OPERATOR THO	ANSCHUT	z Corporation			DATE 10 - 20	0-92	
LEASE	ARC		WELL NO	Sec 18- TI	15- R39E		人
			t at Ho	1980' FSL  19 From 18  190 ' with	1980 SX OF CIPCU	FWL.	сете
		12062   12130	- /2/ - /2/ t at <u>/2</u>	080 2 00 70 5 0/83' with 2	wonim bo sx of		cemer

OPERATOR F+W	Oil mo	GAS CON			DATE	10-20-9	2
LEASE DAVIS	Federal		S WELL NO			-138E u	
				_	-	o 660' FE	<b>: Z</b>
		\$rod	lucing	from	Devonia	м	
	95/8	casing set Depth casing	' Ho	le size <u>.</u> 4983'	<u>/7/2</u> "	CINCULA S sx of	ted
		E Devonion  " casing set Depth 1228			,	, sx of	cemen

F+M	0:1 mo 6A			DATE 10-20-92	
ease Davis	Fodoral	WELL NO.	LOCATION Sec /3-	7/15- K38E	mit I
			2/30' FSC	MO 660' FE	۷
		Prod	lucing from	Duonion	
	85/8	_ casing set at	4998' wit	315 sx of	Hed
	pert	12058 - 1 12080 - 1	12067	<u>/530</u> sx of	
	_/				

HAMON OFERATING COMPANY	DATE 10-20-92
W.V. LAWKENCE	WELL NO. LOCATION  Sec 19- TIJS- R39 E: Uni+ 1)
	660, ENT 440 PPO, EMT
1 P4	-A 3-1-87
	ly @ Surface
set 40 5x plus	19 @ 250'-350'
	, -
75/8" Casing set	et at <u>293</u> with <u>350</u> sx of cer
Set 40 Sx Alu	Hole size 17/2 " CINC
Set 40 SX plus Set 25 SX plus Cut - pull 5/2	us @ 3983
perf 4980 Squ	
HZZZ	•
$\frac{7/3}{}$ casing	set at 4953 with 2600 sx of ceme
7777 Hole Size <u>72/4</u>	_ CMAT CIPEUIATED
Set 15 5x plug (	@ 63vp'
CIBP @ 9300!	t 35° sxs cmt
perf WC 9336'-	
C16P@ 9580'+	9992-10010, 9955-9969
	Spe Below Ret w/ 225 3x5 cmt int on top of Ret Top @ 10200'
(enve 1.7 bet 'ch	ent on top of net Top @ 10200'
	t at <u>/2/3/</u> ' with <u>spo</u> sx of ceme 34' Hole size <u>8<sup>3</sup>/4"</u> "
$f / \Lambda$	131- 12184
	737 - 72707

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#### P 369 427 047



### Receipt for Certified Mail

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#### P 369 427 048



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#### P 369 427 052



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nne 1	Return Receipt Spowing 16; Whom Date, and Addressee's Address	
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#### P 369 427 050



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P 369 427 051

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of the earlier submittal.

#### OIL CONSERVATION DIVISION

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

	South PE TEX MEALO \$7501
APPLIC	ATION FOR AUTHORIZATION TO INJECT
I.	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 whic 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:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and</li> <li>If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).</li> </ol>
VIII.	Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, 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.
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/Pierge 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

#### 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.) D. F. Willhoit No. 2 660' FSL and 660' FWL Sec. 18 - T17S - R39E Unit M Lea County, New Mexico
- 2.) See attached wellbore schematic.
- 3.) Propose to re-enter the above captioned well, and inject produced water in the lower Devonian and Ellenberger formations. We will 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 Devonian and Ellenberger formations and the well is located in the South Knowles Devonian Field.
- 2.) The injection interval is open hole at 12,337' to 14,209'.
- 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. The Ellenberger is not productive in the area.

#### Part VII.

- 1.) The proposed daily injection will be 2000 bbls. per day. The maximum will be 5,000 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 productive with in 1 mile of the proposed well.

#### Part VIII

The injection interval is the Devonian and Ellenberger formations in the Knowles Devonian Field, and is composed of alternating beds of porous and tight dolomite and limestone. The injection interval is open hole from 12,337' to 14,209'. 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 Devonian and Ellenberger sections.

#### 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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Republic Not Bri	Jenes Rabinson	Blanc	o Co.,etal M.I.	ALR Commence	(Bi - State Loans	Anschutz	10 28 91	1	أعدن
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Paran oto: WV	Lourence, Sur		wronco, S	*RFFort	1-ch: Trioiso	6-24-91	4	20-	TWY
	۲۲	1	23 Monore	4640.6		Anschutz	13	L	T. 2
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5 E 30 5	5-10-50	3,,,,,,,	WC Disc.	Thomoso	<del>4</del>	10 - 6 - 92	1	1	!
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Terry Manus stati	تلنز المالية المالية	-	J. 23 W. C. 10 .	, y				1	+-
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C - 108 PART V

WJC INCORPORATED

D.F. WILLHOIT 660' FSL & 660' FWL sec. 18-T17S-R39E Lea County, New Mexico

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	Mattie Garrett Kartherine Coyle eral	EG.Lawrence	Vietta Fingaas E. Ray C. Eaves	Rey C. Eas	es, (S)	Valetta	Fingado (S)	Valetta Fingada	١
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, F& Comfences	C. E. Contil	(3)	Emma Laurence	Coyle,eral EmmaLawrence	Joe Tarbet (S)	JUE TO DET TOTAL	W.V. Lawrence	Ray C. Eaves	
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Marathen	(TXO)	9-14-91	Chevron	Chevron	FTB F450	#362 Q Harmon (5-8-64)	First New I. Britan	S-3-94	7
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R.O. Holladay (5)	HE Yates	R.G.Barton.	Ir. (ARCO)	MEMOLE FORT		Anschutz 5.3.73	l		-4
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I.C. Bredien M.L. Dennis Heady, that	5-8-90	<b>[</b> !	(F34)	(The property)	P.F. Fort M.I.	R.E.Fort etal	ARC O.M.	1	1
Dennis Weeds shell	4	1i		F.D.Hardin, etc. Mary	Transe Mabinson Co. 2731	Jones Rábinson Co.etal	J.M.Hill E	JM. Cox.orel	8.5
1. C. Brecken (M) Terry Manes stoy		Emma	Lawrence.eta/	Mary	Lee Nor	L.L.Parker (5)	Claydia Brancan	0 J Beerdon (5)	
Comp Cities Service	J.W.	Į	1	Bi-State	Loans	Bi - State	cons	١٩٩١	
(g)-	Livermore	R.G.Barton Jr. 8 8 93	R.G.Barton,Jr.	Ø' "``\$	. 2	7.5.9	)i	Sperz,	
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	NE E. N/2 SE	4	ì	ł				ì	. ]
		IL ".	R.E.	Alan Jochims	en,etal, M.I.	<b>1</b> .		1	-4
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4.8. Laijaway.13	, <u> </u>	4	1			- MUTTET I	COM CIRCE	1 u. v usansisti	

#### 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	_DepthFormation	**************************************
County Lea Field  Faucett #1	source S Faucet #2	ze Below
Resistivity		
Specific Gr	<del></del>	
рн	·	
Calcium*	<del></del>	
Magnesium* Mg Chlorides*75 mp		
Cl Sulfates*	! `	
Bicarbonates*		
Soluble Iron*		
Out side Ranch House		

entra sentra estentigat de el cuentífica de el primer por espectado de especial de en el como por consegue. El estentido de la como de entra por especial formación de especial de preferencia que entre de Califordia. C La como de como de la como de el como de la 
OPERATOR  JAKE HAMON	DATE 10-19-92
LEASE J.F. Willhoi-	
^	P+A 9-1-78
"" 2// ""	10 SX plug @ Sunface
774	40 Sx plug e 500'-600'
	$13\frac{3}{8}$ " casing set at $326$ with $340$ sx of ceme
	Total Depth Hole size 171/2 " cement circ
	40 sx plug @ 2400-2500'
	70 sx plug @ 4920 - 5100'
	9 % " casing set at 5000 ' with 2800 sx of cemen
	Hole size 12/4" cement circ
	5/2" csg cut + pulled @ 5382'
	35 sx plug @ 53/7-5377
	35 Sx pluj @ 5377-5432
1 1	
	CIBP @ 11950' + 35' cement
	5/2 " casing set at 12337' with 500 sx of cemer
774	Total Depth 14209 ' Hole size 83/4 " 700 by 8000 (09
{ }	
} \	

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OPERATOR WJC	Inc	DATE 10-20-92
C. E. Bi	rooks (Brooks C.E.) WELL NA LOCATION	
		BO' FSL MO 660' FUL
	_ Produces !	Som Sevonin
	95/8 " casing set at 50/6	with 450 sx ofceme e
	12037 - 1205 - 1	with <u>1050</u> sx of cemen

OPERATOR WJC I	20			DATE	10-20-	92
LEASE Brooks C.		WELL NO.	LOCATION S-EC			unit E
			1980' FA	UL MO	660' F	w(
		proa	licing hi	rom De	UMIÀM	
	133/2 casing set  Total Depth  95/8 casing  Hole size 12/4	' Ho	le size _	<u>/7/2</u> "		
	12064 - 5h " casing ser Total Depth /2/9	t at <u>/</u> 2	?/ <del>/</del> / wit	h <u>/200</u> 7 <u>%</u> "	.sx of	ceme:

OPERATOR THE ANSCHUT	2 Correct 4:			0ATE 10 - 20	2- 92	
LEASE AM		WELL NO.	LOCATION SPC 18- 7	175- R39E		L.
		1. (	1980' FSL	MO 1980		
	/3 % " casing se  Total Depth  8 % " casing  Hole size /2/4	t at <u>4</u> ' Ho	le size <u>/7</u>	500 sx of Circu	) IA-led	
	per 12062  per 12130  5/2 " casing ser  Total Depth 1218	t at <u>//</u> /	<i>183</i> 'with	<u>700</u> sx of		<b>ce</b> men:

.

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1 - 4		MO GAS COMPANY 10-20-92
OAVIS	<u>Federi</u>	Sec. 13-717-5-123E unit P 660' FSL MO 660' FEL Producing from Devonian
		13% casing set at 3/3 with 250 sx of ceme.  Total Depth' Hole size _/7/2 " Circulated  95/8 " casing set at 4983' with 2840 sx of cement  Hole size _/2/4 " Comont Circulated
		perf Devouinn       @ 12186 - 12216         5/2 " casing set at 12287" with 500 sx of cemen         Total Depth 12288" Hole size 8 34 "

PERATOR F+N	1 0:1	MO GAS	Company	· · · · · · · · · · · · · · · · · · ·	DATE /O	-20-92	
	Feder		WELL M	LOCATION Sec	13-7/15-		
					FSL MO		
			Pr	oducing t	Four Devos	ion	
		lotal Depth	casing set a	Hole size	ith 315 17/2 " with 2525	CIRCULI	Hed
			2058 - 2080 - ing set at <u>/</u>	/2067 /2090 <u>/2/43'</u> wi	ith <u>/530</u> 7 <sup>7</sup> /8 "	sx of	cemer

OPERATOR HAMON OF	Aexating Company			DATE 10-20-92	
LEASE W. V. LAWK		WELL No.	LOCATION Sec 19- TI	75- R39E UA	:+ 0
			660' FNL	440 660, EMC	
$\wedge$	P4	Α -	3-1-87		
"WY///W"	5et 10 5x pl	, , 0	Surface		
<del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>	,	, _			
<u>ua</u>	eat un ex al.	. 0 -	,		
	set 40 sx plu	•			
	13% casing set	t at _29	3_' with 3:	50_ sx of	cer
7777	. or or . neptil	. но	le size /7/	cinc	
7//4	set 40 sx pluses set 25 sx plus	, (e) 2. 1 (e) 3.9	783 183 - 5500		
777	Cut - pull 5/2	csg (e)	3983'		
1224	perf 4980 Sq4	•			
	<u>95</u> casing	set at _	<u>4953</u> with	2600 sx of	<b>ce</b> me
777	Hole size <u>/2/4</u>	· Cm	ent circula	fed	
		_			
7777	Set 15 5x pluy (	-			
	CIBP @ 9300' perf WC 9336'-	+ 35 gar	sxs c	mt	
7777	CIBP @ 9580'+				
	Perf 10010 - 30, 90	792 - 100	010 9955-	-9969	
	CIBP @ 10311	Spz Bel	ow ket w/	225 3xs cmt	
	$\frac{5/2}{}$ casing set	at $\frac{2}{3}$	194 % REF 3/ 'with 576	10200 SX OF	ceme
7//5	Total Depth /2/84				<b>CE</b> IIE
	OH 1213				
		, , ,	3.07		
{ }					
} \					

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## **PEAK**

### **CONSULTING SERVICES**

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



October 28. 1992

Re: WJC INC.

SWD Application

sec. 18-T17S-R39E unit M Lea County, New Mexico

Dear Sir:

It has been brought to my attention the the attached wellbore schematic may have been omitted from the above referenced SWD application. Please add this to your copy of the application if it was omitted.

I apologize for any inconvenience. Thank you for your time and consideration.

Michael L. Pierce

Peak Consulting Services

OMERATOR FIM Dil + GAS CO	DATE 10-23-92
LEASE F. M. HOlloway	WELL NO. LOCATION SOC 13-7775-R3BE UNIT O  660' FSL + 1980' FEL
Total Depth  On 4-23-91  by setting C  Does Not indi	SI Devonian Well  et at 292' with 490 sx of ceme  ' Hole size 17/2 " Cement Circ.  CHEUKON proposed to TA well  16P @ ± 12090 + 20'cmt. File  icate if this work was done  g set at 5005' with 3200 sx of cement
Squeeze  Perf Devonion  S/2 " casing se  Total Depth 12/3	Leak (25826-73/0-file andicate amount of cement used to mount of cement used to ak.  And 12087-12127  Let at 12/05' with 500 sx of cement of the size 8/4"  105-12135

Certified Mail No Insurance Coverage Provided Do not use for International Mail (See Reverse)
Street and No St. B91 Pulsial fad ZIP Coda 79102-0897 Postage
Certified Fee  Special Delivery Fee
Restricted Delivery Fee  Return Receipt Showing to Whom & Date Delivered  Return Receipt Showing to Whom, Date, and Addresse's Address
Postmark or Date  Postmark or Date  Postmark or Date

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	P 369 425 5	164	, <u>P</u> 369 42	5 962	P 369 425	913
	Receipt for Certified No Insurance Con Do not use for (See Reverse)		Receipt Certified No Insurance Do not use (See Revers	Mail c Coverage Provided for International Mail	Receipt for Certified No Insurance	or
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_	Restricted Delivery Fee Return Receipt Showing		Restricted Delivery Fee		Restricted Delivery Fee	
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June	Date, and Addressee's Address TOTAL Postage	17.	Return Receipt Showing to Williams Date, and Addressee's Address		Return Receipt Showing to Whom, Date, and Addressee's Address	
3300,	& Fees Postmark or Date	\$ /29	TOTAL Postage & Fees	\$ 12%	TOTAL Postage & Fees	\$ /29
PS Form 38	**		Postmark or Date		Postmark or Date	
			σ			

P 369 425 965	P 369 425 963
Receipt for Certified Mail No Insurance Coverage Provided Do not use for International Mail (See Reverse)	Receipt for Certified Mail No Insurance Coverage Provided Do not use for International Mail (See Reverse)
De Box 1148	Stylet and No. — D91
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	TOTAL POSTAGE
Postmark or Date	Postmark or Date

prict of mailing omitted well here schemic Williams Application

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UNITED STATES
Chanish 2 person

## Receipt for Certified Mail

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

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	Special Delivery Fee	
	Restricted Delivery Fee	
991	Return Receipt Showing to Whom & Date Delivered	
ne 1	Return Receipt Showing to Whom, Date, and Addressee's Address	
ر (0	TOTAL Postage 8 Fees	B1.75
PS Form 3800, June 1991	Postmark or Date	19.5

This is the correct consource for the D. F. Wilholf Application

P 369 425 941

tu
UNITED STATES

## Receipt for Certified Mail

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

	Service E. Brooks	
	Street and No. Nowte	~
	P.O. State and ZIP Code XXX 675 H15	to Ned
	Postage	\$-71
	Certified Fee	1,00
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nue	Return Receipt Showing to Whom, Date, and Addressee's Address	
٥, ي	TOTAL Postage	\$1.75
PS Form 3800, June 1991	Postmark or Date	

This is the correct Consounce for the D. F. Willholt Application

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	, '
OPERATOR F	+M Dil + GAS CO 10-23-92
	M. Holloway Z Sec 13-7775- R3BE Unit O
	660' FSL + 1980' FEL
7777	SI Devonian Well
	1378 casing set at 292 with 490 sx of c  Total Depth hole size 171/2 Cement Circ.  ON 4-23-91 CHEJKON proposed to TA well by setting CIBP @ ± 12090 + 20'cmt. File
	Does Not indicate if this work was done  95/9 " casing set at 5005" with 3200 sx of cer.  Hole size 12/4"
	repair CSG Leak @ 5826 - 7310 - file does not indicate amount of cement used to squeeze leak.
	Perf Devonisa 12087-12123
•	$\frac{5/2}{2}$ casing set at $\frac{2/05}{2}$ with $\frac{500}{2}$ sx of cer
}	Total Depth 12/35 Hole size 8/4
{	OH 12105-12135

		·	
OPERATOR F+M	Dil + GAS CO		DATE 10-23-92
TTTAY	6/10NAX		15- 138E UNIT 0 - 1980' FEL
	On 4-23-91 C by setting Close Does Not indicate	Hole size 17/ Heukon proposed Co ± 12090 te if this w	+ 20'cmt. File
	Repair CSG Les does not indic Squeeze Leak. Perf Devonin	A+C AMOUNT .	
•	5/2 " casing set a Total Depth (2/35	t <u>/2/05</u> with <u>5</u> Hole size <u>8</u>	

OH 12105-12135

#### AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

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 , 1992
Sati Berryen
General_Manager
Sworn and subscribed to before
me thisday of
Ect 192
Notary Fublic.
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.

### Legal Notice

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

injection for the purpose of disposing produced water. The well is the D.F. Willhoit No. 2, located at 660' FSL and 660' FWL in section 18-T17S-R39E, Lea County New Mexico. The injection interval is the Devonian and Ellenberger formations at a depth of approxtions at a depth of approxtions at a depth or approx-imately 12,337 to 14,209. 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 Conser-vation Division, P.O. Box 2088, Santa Fe, New Mexi-

co 87504-2088, within 15

days.
Inquines 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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