

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

4-10-87

POST OFFICE 80X 1980 HOBBS: NEW MEXICO 38241-1980 (505) 393-6161

GARPEY CARRUTHERS GOVERNOR

Sud 370

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

RE: Proposed:

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DHC		
NSL		
NSP		
SWD	X	
WFX		
РМХ		

Gentlemen:

I have examined the application for the:

218 # 2 - £ 7.18-34 . Unit S-T-R ate. 8 Well 1 έ. ndrea Lease & Operator

and my recommendations are as follows:

-tro We chant have engent · ~ / EUTER Cerce E

Yours very truly,

Jerry Sexton Supervisor, District 1

/ed

ENER	GY AND MINERALS DEP	ARTHENT	POST OFFICE BOX 2018 BTATE LAND OFFICE BUILD SANTA FE, NEVI MEXICO 67			ised 7-1-81
APPLIC	ATION FOR AUTHORIZA	TION TO INJECT				
Ι.		ondary Recovery alifies for admi		aintenance [oval?]yes	Disposal	Storage
11.	Operator:	Kindred Petr	oleum Company	<u> </u>	·····	
	Address:	P. 0. Box 41	l, Midland, Te	xas 79702		
	Contact party:	Frank Alvara	do	Phone:	(915) 68	87-2828
111.	Well data: Compl propo	ete the data req sed for injectio				
IV.	Is this an expans If yes, give the			yes X ng the project	סר 	•
۷.	Attach a map that injection well wi well. This circl	tn a one-half mi	le radius circl	e drawn around		
* VI.	Attach a tabulati penetrate the pro well's type, cons a schematic of an	posed injection : truction, date d	zone. Such data rilled, location	a shall include n, depth, reco	e a descript rd of comple	ion of each
VI1.	Attach data on th	e proposed opera	tion, including	:		
	 Whether t Proposed Sources a the rec If inject at or w the disposed 	average and maxin he system is open average and maxin nd an appropriate eiving formation ion is for dispo- ion is for dispo- ion is ne mile o posal zone formature, studies, ne	n or closed; mum injection pr e analysis of ir if other than r sal purposes inf f the proposed v tion water (may	ressure; njection fluid reinjected proc to a zone not p vell, attach a be measured of	and compati Juced water; productive o chemical an	bility with and f oil or gas alysis of
*VIII.	Attach appropriat detail, geologica bottom of all und total dissolved s injection zone as injection interva	l name, thickness erground sources olids concentrat well as any such	s, and depth. (of drinking wat ions of 10,000 m	Give the geolog cer (aquifers of ng/l or less) of	ic name, an containing w overlying th	d depth to aters with e proposed
IX.	Describe the prop	osed stimulation	program, if any	· •		
* X.	Attach appropriate with the Division			vell. (If wel)	logs have	been filed
* XI.	Attach a chemical avai]able and prod location of wells	ducing) within or	ne mile of any i			
XII.	Applicants for dis examined available or any other hydro source of drinking	e geologic and er plogic connectior	ngineering data	and find no ev	idence of o	pen faults
XIII.	Applicants must co	implete the "Proc	of of Notice" se	ection on the r	everse side	of this form.
XIV.	Certification					
	I hereby certify (to the best of my	knowledge and be	elief.			
	Name: R.B	usby /	, t	Title Date:	Agent	1097
	Signature:/	· / LIMM	//			
imdua	e information requi tted, it need not i e earlier submittal	oe duplicated and	ns VI, VIII, X, resubmitted. re filed after	Please show th	e date and	circumstance
<u>DISTR</u>	IUUTION: Original	and one copy to	Santa Fe with o	ne conv to the	appropriat	

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III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - 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

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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.



III. Refer to "Injection Well Data Sheet" attached

- V. Refer to map that identifies all wells and leases within two miles of our proposed injection well.
- VI. Refer to completion cards on all wells of public record within the area of review which penetrate the proposed injection zone.
- VII. (1) Proposed average and maximum daily rate and volume of fluids to be injected:

Average	rate 🥠	-	1 BPM
Maximum	rate	-	2 BPM
Average	volume	-	300 BWPD
Maximum	volume	-	500 BWPD

- (2) System is open;
- (3) Proposed average and maximum injection pressure:
 Average pressure 750 psi Maximum pressure - 1100 psi
- (4) Source of injection fluid: Kindred Petroleum Co., State HS, Well No. 1 Analysis pending
- (5) Not applicable
- VIII. Queen formation of Permian System. The formation is gray to red, fine to medium-grained sandstone. Thickness is 4 feet. Depth is 4380 feet. Underground sources of drinking water are Triassic above the Redbeds @ 300[±] feet.
 - X. Logs were filed after the well was drilled on 10/30/84.
 - XI. Not applicable.
- XII. Applicant has 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. A copy of the application has been furnished, by certified mail, to the owner of the surface of the land on which this well is located and to each leasehold operator within one-half mile of the well location. Proof to be furnished on receipt of same.

A proof of publication in the Lovington County newspaper will be furnished on receipt of same.

INJECTION MEEL DATA SHEET

	d Petroleum Co.	State			
2		660' FWL		T-18-S	R-34-E
WELL N	B. FOUTAGE LOC	ATION	SECTION	TOWNSHIP	RANGL
	Schematic	Surface	<u>Tabul</u> : Casing	ar Data	
	2		13-3/8 "	Cemented with	550 sx.
T State HS	<u> </u>		Surface fee		
1	Proposed		ze <u>17¹/2</u> "; 20"		
		Interme	diate Casing		
13-3/8",54.51,K-55 516', Ore ont			8-5/8 "	Cemented with	1650 sx.
		. 17	Surface fee		
8-5/8",24432#,K-55 @	3600	Hole si	ze <u>11"</u>		
8-5/8",2402#,N=20 e Circ ont.		∠∕ Long st	rino		
			 	Cemented with	1500 sx.
			Surface fee		
			ze <u>7-7/</u> 8"	· -	· · ·
			epth 9,000'		
		4380' - 4385'	on interval		
		-	BO feet to ated or open-hole,	4385	feet
		perfor	ated or open-hole,	indicate which)	-
4					
		25 sx (250') Plug @ 5370			
د			•		
		- /			
	ài	CIBP = 8175 w/ 90' cmt			
0'- 134': 55",17#,J- 134'-7148': 55",15.5#,					
134'-7148': 5', 15.5", 148'-9000': 5', 17#, 5- Sire crit.					
D 9000'					
	•				
• Tu bing	size <u>2-3/8"</u>	lined with	(məterial	.)	set in a
<u></u>	Otis MH	· · · · · · · · · · · · · · · · · · ·	packer at		feet
(or des	(brand and model) cribe any other cas	ing-tubing seal).			
Other D					
1. Nam	e of the injection	formation	Queen		
2. Nam	e of Field or Pool	(if applicable)	E-K Yates Sev	en Rivers Queen	
3. Is	this a new well dri	lled for injection	? <u>/</u> 7 Yes <u>/</u> X7	No	
If	no, for what purpos	e was the well orig	ginally drilled?	Oil well	
4. Has and	the well ever been give plugging deta	perforated in any il (sacks of cement	other zone(s)? L: t or bridge plug(s)	ist all such perf) used) <u>Yes</u>	orated intervals
	058-8124' squeeze				n top
			· · · · · · · · · · · · · · · · · · ·		
5. Giv	c the depth to and s oren. E-K Quee	name of any overly	ing and/or underlyi	ing oil or gas zo	nes (pools) in
thi	s oren. <u>D-A Quee</u>	4	vacuum bone sprin		

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Date: 5-8-57 Card No.: 11 32: pf	<pre></pre>	ω ic	Petroleum Information ^(h) A SUBLICITY OF A COMPONENT Dire 4-1.1-82 Card No: 23 dh	Source #791 Source	Co IP IP Ca Sp	IEA COUNTY NEW MEXICO E-K FIELD Well GRAND BANKS ENERGY CO, 1 Rhodes State Result: 01L DO Loc'n 5 mi SW/Buckeye; 660' FSL, 660' FWL Sec 9-185-34E. 4425'
(1-20-82) (6-23-82)	Drlg Drlg Drk 9295-9309 DST 10,498-587, op 120", R/7 BFw, Str (12,103) 3 EWCG6DM, 60"/3212, FF 688-2173, Atoka (12,648) 240"/3214 DST 11,008-078, op 120", 1100' WB, K/1100' WE, 10' GCO 60"/1095, FF 563-563, 120"/674 Drlg Brk 11,125-130, 11,142-150, 11,158-188, no flw Pf/26/13,512-538, 12/13,635-641, A/1600, F/39 EL/10', 48/64"ck, FTP 125, A/5000, F/8 E0, 32 EM/ 15/64"ck, FTP 275, Pf/4/11,010-020, S/46 BL, 60 BW/26' Pf/10,548-578, A/4500, Sqz pf 10,548-4578 w/200 sx, Pf/36/8410-28, A/3000, Pf/16/8050-58 	N.M. ,		GTV CP TP BHP POT DATE 200 12-17-81	L980 FSL & FWL of Sec RELSSUE TO CORR PERFS API NO. 30-025-27387 co.ord FFR. 4-29-81 obj 13,600 RT co.ord CTR McVay spud 5-11-81 clev Ka TD 13,745 FBD 10,450 P a A 6046 F PAY ZONE PROD INTERVAL IP BO W HRS CHK TEST BAI BS 8050-8428 F 314 128 124 19/64	R-34-E (K)

KINDRED PETROLEUM COMPANY P. O. Box 411 Midland, Texas 79702

April 8, 1987

Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Gentlemen:

By certified mail we are this date sending a copy of Form C-108, Application for Authorization to Inject, with Injection Well Data Sheet attached, for our Well No. 2, State HS Lease, in Section 9, T-18-S, R-34-E, Lea County, New Mexico, to the following:

Surface Owner: Commissioner of Public Lands Santa Fe, New Mexico 87501

Offset Operators: General Operating Company Ridglea Bank Building - Suite 1007 Fort Worth, Texas 76116

Ray Westall P. O. Box 4 Loco Hills, New Mexico 88255

We will forward a copy of the return receipts just as soon as they are received in our office.

Yours very truly,

KINDRED PETROLEUM COMPANY

By

RB:b

KINDRED PETROLEUM COMPANY P. O. Box 411 Midland, Texas 79702

April 8, 1987

Publisher Lovington Daily Leader P. O. Box 1717 Lovington, New Mexico 88260

Dear Sir:

Kindred Petroleum Company is making application for authorization to inject produced formation water into our Well No. 2, State HS Lease, located 1980' FSL and 660' FWL of Section 9, T-18-S, R-34-E, Lea County, New Mexico. Our purpose is to use this as a water disposal well with injection interval from 4380 feet to 4385 feet in the Queen formation. The expected maximum injection rate is 500 barrels of water per day with a maximum injection pressure of 1100 psi.

Also included in your newspaper notice is the statement 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".

The name, address and phone number and contact party for the applicant are as follows:

Kindred Petroleum Company P. O. Box 411 Midland, Texas 79702 Mr. Frank Alvarado Tel. (915) 687-2828

Please print all of the above information in your newspaper as soon as possible. We shall appreciate your mailing us a copy along with your invoice and we will immediately remit.

Yours very truly,

KINDRED PETROLEUM COMPANY

Frank Alvarado

FA:rb

KINDRED PETROLEUM COMPANY P. O. Box 411 Midland, Texas 79702

April 28, 1987

New Mexico Oil Conservation Division P. O. Box 2088' Santa Fe, New Mexico 87501

Gentlemen:

Please refer to our letter to you dated April 8, 1987, along with Form C-108 and attachments regarding our intent to use Well No. 2, State HS Lease, in Section 9, T-18-S, R-34-E, Lea County, New Mexico, as a water disposal well.

We are enclosing herewith the remaining required data as follows:

- 1. Copy of results of a water analysis test
- 2. Copy of return receipts from offset operators and the surface owner
- 3. Affidavit of Publication with copy of the notice from The Lovington Leader.

We trust that this information will enable you to approve our application. However, if additional data is needed please contact us.

Yours very truly,

KINDRED PETROLEUM COMPANY

Ву____

R. Busby

RB:b Enclosures

119904



SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services 1703 W. Industrial Avenue (915 - 683-3348) • P.O. Box 2150 • Midland, Texas 79701

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		File No
		Report No. 38975
		Report Date 4-20-87
Report of tests on:	Water	Date Received 4-10-87
Chent	Kindred Petroleum	Delivered By F. Alvarado
Identification:	State "HS" Comm No. 2, Wellhead sample	
		mg/L
	Calcium	6160
	Magnesium Sodium & Potassium (Calc. as Na)	4712 · 55079
	Carbonate	None
	Bicarbonate	107

Bicalbonace	
Sulfate	2337
Chloride	
•	
Total Dissolved Solids @ 180° C	175000
Total Hardness (as CaCO ₃)	34800

pH----- 5.42

Compatibility with State "HS" Comm No. 1

Major iron precipitation was observed on all component blends of these two waters

Standard Methods, 16th Edition

Technician: JDN

3cc Kindred Petroleum Copies

BOUTHWESTERN LABORATORIES

ary M. Bure

Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our phor written approval. Our retters and reports apply only to the sample tested and/or respected, and are not necessarily indicative of the quantities of apparently identical or similar products

UNITED STATES PUSTAL SERVICE OFT CIAL BUSINESS SEN. INSTRUCTIONS Print your name, address, and ZIP Code in the space below. * Complete items 1, 2, 3, and 4 on the reverse. • Attach to front of article if space permits, otherwise affix to back of article, PENALTY FOR PRIVATE Endorse article "Return Receipt Requested" adjacent to number. USE \$300 Print Sender's name, address, and ZIP Code in the space below. RETURN KINDRED PETROLEUM Ø1 POBOX 411 MIDLAND, TX 79702 TO UNITED STATES POSTAL SERVICE OFFICIAL BUSINESS SENDER INSTRUCTIONS Print your name, address, and ZIP Code in the space below. • Attach to front of article if space permits, otherwise affix to back of article. • Endorse article "Return Receipt PENALTY FOR PRIVATE USE, \$300 Requested" adjacent to number. WY CAR Print Sender's name, address, and ZIP Code in the space below. RETURN KINDZED PETROLEUM CO. P.O. BOX 411 MIDLAND, TX 79702 UNITED STATES POSTAL SERVICE OFFICIAL BUSINESS SENDER INSTRUCTIONS rint your name, address, and ZIP Code a the space below. Complete Items 1, 2, 3, and 4 on Complete riems 1, 2, 3, and 4 on the reverse. Attach to front of article if space permits, otherwise affix to back of article. PENALTY FOR PRIVATE Endorse article "Return Receipt Requested" adjacent to number. USE \$300 Print Sender's name, address, and ZIP Code in the space below. RETURN KINDRED PETROLEUM CO. P.O. BOX 411 MIDLAND, TX 79702



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Affidavit of Publication

STATE OF NEW MEXICO)) ss. COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that he is Adv. Director of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New México.

That the notice which is hereto attached, entitled

Legal Notice

and numbered in the
County, New Mexico, was published in a regular and
entire issue of THE LOVINGTON DAILY LEADER and
not in any supplement thereof, once each week on the
same day of the week, for <u>One (1)</u>
consecutive weeks, beginning with the issue of
April 14
and ending with the issue of

And that the cost of publishing said notice is the sum of \$.7.33 sum has been (Paid) (#55655555) as Court Costs which

Subscribed and sworn to before me this 15th

19 87 day of .. Notary Public, Lea County, New Mexico

Sept. 28 19 90 My Commission Expires

LEGAL NOTICE

Kindred Petroleum Company is making application for authorization to inject produced formation water into our Well No. 2, State HS Lease, located 1980' FSL and 660' FWL of Section 9, T-18-S, R-34-E, Lea County, New Mexico. Our purpose is to use this as a water disposal well with injection interval from 4380 feet to 4385 feet in the Queen formation. The expected maximum injection rate is 500 barrels of water per day with a maximum injection pressure of 1100 psi.

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.

The name, address and phone number and contact party for the applicant are as follows:

Kindred Petroleum Company

P.O. Box 411

Midland, Texas 79702

Mr. Frank Alvarado Tel. (915) 687-2828

Published in the Lovington Daily Leader April 14, 1987.