

Michael H. Feldewert Recognized Specialist in the Area of Natural Resources - oil and gas law -New Mexico Board of Legal Specialization

mfeldewert@hollandhart.com

April 15, 2008

HAND-DELIVERED

Mark E. Fesmire, P.E. Director Oil Conservation Division New Mexico Energy, Minerals and Natural Resources Department 1220 South Saint Francis Drive Santa Fe, New Mexico 87505

Case 14122

Application of Pecos Operating Company for approval of a non-commercial salt water disposal well, Lea County, New

Mexico.

Dear Mr. Fesmire, P.E.:

Pursuant to Rule 701, enclosed is the Form C-108 comprising the application of Pecos Operating Company for approval of a salt water disposal well, as well as a copy of a legal advertisement. Pecos Operating submitted this application for administrative approval, but a protest was filed requiring that this matter to be set for a hearing. Pecos Operating therefore requests that this matter be placed on the docket for the May 15, 2008, Examiner hearings.

Sincerely

Michael H. Feldewert

Enclosures

NEW MEXICO OIL CONSERVATION DIVISION



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		NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505	Wille	` * \
	·	ADMINISTRATIVE APPLICATION CHECKLIST	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 	AL P
TH	HIS CHECKLIST IS	WANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AN WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE	D REGULATIONS	() \
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[1]	TYPE OF A [A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD	22	(2)
	Chec [B]	k One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM	Corporal	
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR		*
	[D]	Other: Specify	THE CI	4
[2]	NOTIFICATE	TION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners)EI\ 25 A	
	[B]	Offset Operators, Leaseholders or Surface Owner	T 7	,
	[C]	Application is One Which Requires Published Legal Notice	D 25	
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office		a a
	[E]	For all of the above, Proof of Notification or Publication is Attached, and	l/or,	'
	[F]	Waivers are Attached		
[3]		CCURATE AND COMPLETE INFORMATION REQUIRED TO PROCES ATION INDICATED ABOVE.	S THE TYPE	
	val is accurate	ATION: I hereby certify that the information submitted with this application for and complete to the best of my knowledge. I also understand that no action will equired information and notifications are submitted to the Division.		
	Not	e: Statement must be completed by an individual with managerial and/or supervisory capacity	•	
5+7 Print o	eve Gray r Type Name	Signature Manager Title	3-17-08 Date	
		STORPA DE TORRES	DEMINE COM	

e-mail Address

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson

Governor

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary Mark Fesmire
Division Director
Oil Conservation Division



April 10, 2008

Steve Gray Pecos Operating Company 400 W. Illinois Avenue Suite 1210 Midland, TX 79701

RE Application for SWD: State GA #1 API No. 30-025-03688

Unit B, Section 16, Township 15 South, Range 36 East, NMPM Lea County, New Mexico

Dear Sir:

The Division has received a protest to your application from Mr. Donald M. Harrod with H&M Disposal and can no longer consider this administratively.

If negotiations with Mr. Harrod are successful, ask Mr. Harrod to send a letter to the Division withdrawing his protest, and then send a formal request to the engineering bureau of the Division to re-open this application and consider it administratively.

You have the option of pursuing this through the Division's hearing process. If you want to follow this route, then have your attorney send a request to Ms. Florene Davidson of this office along with a detailed application and summary to be placed in a docket, and notify the protesting party of the pending hearing.

MARK E. FESMIRE, P.E. Director

MEF/wvjj

cc: State Land Office – Oil Gas and Minerals Division
Oil Conservation Division – Hobbs

Donald M. Harrod (575-396-5777) H&M Disposal (PO Box 1544) Lovington, NM 88260



H & M Disposal P.O. Box 1544 Lovington, New Mexico 88260 April 9, 2008

Mr. William V. Jones
Oil Conservation Division
Engineering and Geological Services Bureau
1220 South St. Francis Dr.
Santa Fe. New Mexico 87505

Info copy to: Pecos Operating Company, 400 W. Illinois Ave. Midland, TX 79701

Dear Mr. Jones:

H & M Disposal recently received a copy of Pecos Operating Company's application to convert the former Shell Oil Company State "GA" No. 7 Sec. 16-T15S-R36E into a salt water disposal well.

We object to the granting of this permit for the following reasons:

- 1. The proposed disposal well is only 1320' away from our ongoing commercial installation that has been a gravity system for years.
- 2. The proposed well is unlikely to take the proposed volume of 4000 to 8000 bwpd without pumping at pressures that are likely to adversely affect our operation.
- Pecos operating has declined to voluntarily limit the water to be disposed of to their on-lease production thus placing a competing commercial operation on our door step.

Sincerely,

Donald M. Harrod

Operator



RECEIVED

2008 MAR 25 AM 7 24

400 W. Illinois, Suite 1210, Midland, Texas 79701

(432) 620-8480 Office

(432) 682-2197 Fax

March 18, 2008

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Case 14/22

Dear Sirs:

Pecos Operating Company hereby makes application for administrative approval for a saltwater disposal well in Lea County, NM, as shown on the enclosed form C-108 and associated documents. Pecos is proposing to re-enter the former producer, the State GA #7 well that was drilled by Shell Oil Company in 1956 and plugged in 1965. The GA #7 produced from the Caudill Devonian field and is situated on a downdip eastern flank of the field. The proposed name of the new re-entry well will be the Caudill SWD No.1.

Pecos currently has one Devonian producer on the lease that is producing at a high water cut and is planning the re-activation of several more wells that are situated higher on the structure than the proposed disposal well. The Devonian reservoir in Caudill field was a strong water drive, however many of the producers that were plugged as uneconomic in the 1960's would be considered profitable in today's economic environment, provided that there is adequate and affordable water disposal capacity on the lease. For this reason we are permitting this well for non-commercial use.

There is already one commercial saltwater disposal well in the Devonian in this field. Based on the performance of that well, and the known high permeability in the Devonian, this proposed disposal well should take significant volumes of water at relatively low injection pressures. The Devonian is normally pressured based on static fluid levels observed on our producer (fluid level at approx 3000 ft)

Copies of this application have been sent to the landowner, Wanda Alexander, who owns the entirety of section 16, as well as offset operators. Proof of mailing and notice are included with this package. Please let us know if any additional information is needed to process this application.

Yours truly.

Steven Gray

Manager

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Application qua	Secondary Recovery alifies for administrative approval?	P	ressure Mair Yes		No XXX	Disposal	Storage
II.	OPERATOR:	Pecos Operating Company	_				Caso	14/22
	ADDRESS:	400 W. Illinois Ave, Suite 1210, M	idland, TX	79701				, , ,
	CONTACT PA	ARTY: Steven Gray					PHONE: <u>43</u>	2-620-8480
III.		Complete the data required on the re Additional sheets may be attached if		this form fo	r each well	proposed	for injection.	
IV.		nsion of an existing project? Division order number authorizing the		XXX	No	· · · · · · · · · · · · · · · · · · ·		
V.		hat identifies all wells and leases with each proposed injection well. This cit					ith a one-half	mile radius circle
VI.	Such data shall	tion of data on all wells of public rec include a description of each well's t ny plugged well illustrating all pluggi	ype, construc					
VII.	Attach data on	the proposed operation, including:						
	 Whether the Proposed at Sources and produced w If injection 	is for disposal purposes into a zone r nalysis of the disposal zone formation	ure; fluid and contour productive	npatibility w	vith the reco	nin one mi	le of the prop	osed well, attach a
*VIII.	depth. Give the total dissolved	riate geologic data on the injection zo e geologic name, and depth to botton I solids concentrations of 10,000 mg/ mmediately underlying the injection i	n of all under l or less) ove	ground sour	ces of drinl	king water	(aquifers cor	ntaining waters with
IX.	Describe the pr	roposed stimulation program, if any.						
*X.	Attach appropr	riate logging and test data on the well	. (If well log	s have been	filed with	the Division	on, they need	not be resubmitted)
*XI.		cal analysis of fresh water from two oposal well showing location of wells				le and pro	ducing) withi	n one mile of any
XII.		disposal wells must make an affirmation of open faults or any oth half water.						
XIII.	Applicants mus	st complete the "Proof of Notice" sec	tion on the r	everse side o	f this form	•		
XIV.	Certification: I and belief.	hereby certify that the information s	ubmitted wit	h this applic	ation is true	e and corre	ect to the best	of my knowledge
	NAME:St	even Gray /				TITLE:	Manager	
* .	If the informati	PRESS: steveg@pecoscompaties ion required under Sections VI, VIII, e date and circumstances of the earlie	.com X, and XI at	ove has been	n previousl	_ y submitte	3/12/08 ed, it need not	t be resubmitted.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

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 the 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, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, 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.

Current Wellbore Condition

Shell Oil Company	. '
State GA" #7	·
660' FNL + 2310' FEL	
Sec. 16, T155, R36E	
Lea County, NM	
Drilled: 1956 P+A'd: 1965	API: 30-025-03688

SURFACE CASING:	133/8
DEPTH:	336'
CEMENT:	400 sx.
circula	ted

DEPTH: 4,734'

CEMENT: 1,650 sx.

25 sk. cement plug @ 4740'

25 sk cement plugs @ 9010, 8118, 7409, 6206, 4740

5 1/2" casing cut & pulled @ 9,010'

Toc 12,040

PROD CASING: 5½"

DEPTH: 13,615'

CEMENT: 250 5×

= OLD PERFS. 10,150-10,600 overall (squeezed)
Plugged on top w/ 125 sx cement

CIBP-10,680° w/ cement on top

- Perfs. 13,495-13,570

TD: 13 615

:			@ _ _	CN ·					•	•	
			© 13,400'	32" & 2%		.3.05 vo 00.		<u> </u>	WELL LOCATION:	WELL NAMI	Side 1 OPERATOR:
hum Proposed TD: 13,900'	Perfs 13,495-13,570 512" @ 13,629	700 12,040	10,150 - 10,600 overall (sameezed)	ing tied back and cemented	858" @4,734"		1338" @ 336		TION: 660' FNL & 2310' FEL FOOTAGE LOCATION WELLBORE SCHEMATIC - Proposed	WELL NAME & NUMBER: Caudill SWD No. 1 (Form	Pecos Operating Company
(old perfs 13495-13570 and new openhole 13630-13800)	Total Depth: old:13,630' proposed:13,800 Injection Interval 13,495 feet To	Top of Cement:	Hole Size: 77/8" Cemented with: 250 sx.	Top of Cement: <u>circulated</u> Meth	Hole Size: 11" Cemented with: sx.	Top of Cement:	:35	Surface Casing Hole Size: 17 1/2 " Cas	B 16 UNIT LETTER SECTION WELL CO	Formerly Shell Oil Company State 'GA' No. 7) 30	INJECTION WELL DATA SHEET
w openhole 13630-13800)	nterval To 13,800	Method Determined: _temp survey_	Casing Size: 5 1/2" or ft3	Method Determined:	Casing Size: <u>8 5/8</u> " ft ³	Method Determined:	orft³	Casing Casing Size: 13 3/8"	TION TOWNSHIP RANGE WELL CONSTRUCTION DATA	30-06-	44°62°43

INJECTION WELL DATA SHEET

1/2" and 2 7/8" Lining Material: plastic coated	5 1/2" Lockset –internally plastic coated	epth: 13,400'	Other Type of Tubing/Casing Seal (if applicable):	Additional Data	well drilled for injection?	what purpose was the well originally drilled? <u>Devonian Producer</u>		Name of the Injection Formation: Devonian	Name of Field or Pool (if applicable): Caudill Devonian	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) usedCaudill Permo-Penn	10,190-10,531 - will be squeeze cemented during re-entry	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Above – Mississippian @ 12,650' Below – none	
Tubing Size: 3 1/2" and 2 7/8"	Type of Packer: 5 1/2" Lockset -into	Packer Setting Depth: 13,400'	ther Type of Tubing/Casing Sea		Is this a new well drilled for injection?	If no, for what purpose was t					10,190-10,531 - will be so		
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Pecos Operating Company Caudill SWD No. 1 660' FNL & 2310' FEL Section 16 – T15S – R36E

Form C-108 (cont'd)

- V See map attached, Exhibit 1
- VI See attached list of wells and wellbore sketches, Exhibit 2A and 2B

VII -

- 1. Proposed avg daily injection 4000 bwpd Maximum 8000 bwpd
- 2. The system will be closed
- 3. Avg injection pressure 100 psi. Maximum pressure 1500 psi.
- 4. Water will be Devonian water reinjected into Devonian formation
- VIII The injection zone is the Devonian. The Devonian is a 300 foot section of limestone and dolomite. This reservoir has excellent permeability and should be capable of taking significant volume of water at low pressure. Surface water in the area is located at a depth less than 200 ft from surface.
- IX We propose to deepen the old well by about 200 feet and inject in to the old perforations and openhole completion. Stimulation will include acid wash only.
- X Logs were previously filed under the original operator and well name: The Shell Oil Company State "GA" No. 7 well
- XI Fresh water analysis from two area water wells was obtained in 2002 and submitted along with a previous permit to inject that was never completed. These two samples are attached as Exhibit 3.
- XII Affirmative statement attached and labeled as Exhibit 4.
- XIII Proof of notice is attached as Exhibit 5

Exhibit 1

Pecos Operating Company Caudill SWD No. 1

(Formerly Shell Oil Company State 'GA' No. 1) 660 FNL, 2310 FEL Sec 16, T15S, R36E Caudill Field

Lea County, New Mexico

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Exhibit 2A

WELLS WITHIN ½ MILE RADIUS OF STATE GA #7-SWD

1. J. D. Graham

Unit O Sec 9, T15S-R36E

API No. 30-025-03676

Drilled: 1956

Plugged: 1975

Surface Casing:

13 3/8" @ 374' w/400 sx circulated

Intermediate Casing: 8 5/8" @ 4749' w/ 2300 sx TOC: 500' Production Casing: 5 ½" @ 13,630' w/ 450 sx TOC: 12,000'

See attached wellbore diagram for plugging details

2. Maymie Graham #1

Unit N Sec 9, T15S-R36E

API No. 30-025-03673

Status: Active SWD well - Devonian

Surface Casing:

11 3/4" @ 309' w/ 300 sx circulated

Intermediate Casing: 8 5/8" @ 4900' w/2100 sx

est TOC 880'

Production Casing: 5 ½" @ 13,600' w/ 1320 sx TOC unknown

TD: 13600'

3. Graham #1

Unit M Sec 9, T15S-R36E

API No. 30-025-03672

Status: D&A in 1956

Surface Casing:

13 3/8" @ 320'

w/ 300 sx circulated

Intermediate Casing: 8 5/8" @ 4750' w/500 sx

Production Casing:

none

See attached wellbore diagram for plugging details

4. State GA #6

Unit D Sec 16, T15S-R36E API No. 30-025-03687

Status: Drilled: 1955

P & A'd in 1967.

Surface Casing:

13 3/8" @ 352'

w/400 sx circulated

Intermediate Casing:

8 5/8"@ 4749'

w/1700 sx circulated

Production Casing:

5 ½" @13,682′

w/200 sx TOC--12,300

TD 13,682'

See attached wellbore diagram for plugging details

State GA #4 5.

Unit E Sec 16, T15S-R36E API No. 30-025-03685

Surface Casing:

Status: P & A'd in 1967. Drilled in 1955.

13 3/8" @ 336'

w/400 sx

circulated

Intermediate Casing: 8 5/8" @4739' **Production Casing:**

5 ½" @13,700 '

w/1700 sx w/300 sx

circulated TOC-11,872'

TD 13,700'

See attached schematic for plugging details.

6. State GA #1

Unit F Sec 16, T15S-R36E API No. 30-025-03682

Status: Producing Devonian Well. Drilled in 1955. P&A'd in 1967. Re-entered 1976.

Surface Casing: 13 3/8" @ 353' w/400 sx circulated Intermediate Casing: 8 5/8" @ 4738' w/1750 sx circulated Production Casing: 5 $\frac{1}{2}$ " @ 14,078' w/1250 sx TOC—6725'

Producing Devonian Perfs: 13,366' to 13,438'

7. State GA #5

Unit G Sec 16, T15S-R36E API No. 30-025-03686

Status: Drilled in 1955. P&A'd in 1964

Surface Casing: 13 3/8" @ 338' w/ 400 sx circulated Intermediate Casing: 8 5/8" @ 4747' w/ 2700 sx circulated

Production Casing: 5 ½" @ 13,656' w/ 200 sx est. TOC—12,300'

TD 13,656'

See attached schematic for plugging details.

8. State AP #1

Unit J Sec 16, T15S-R36E API No. 30-025-03678

Status: P & A'd in 1974. Drilled in 1955.

Surface Casing: 13 3/8" @ 315' w/ 300 sx circulated Intermediate Casing: 8 5/8" @ 4659' w/ 3250 sx circulated Production Casing: 51/" @ 13 536' w/ 425 ex ast TOC 10 6

Production Casing: 5 ½" @ 13,536' w/ 425 sx est. TOC 10,690'

TD 13,657'

See attached schematic for plugging details.

9. State GB #1

Unit C Sec 16, T15S-R36E API No. 30-025-03689

Status: Inactive producer Drilled: 1955. P & A'd:1973. Re-entered: 2000

Surface Casing: 13 3/8" @354' w/ 350 sx circulated Intermediate Casing: 8 5 /8" @ 4748' w/ 2200 sx circulated

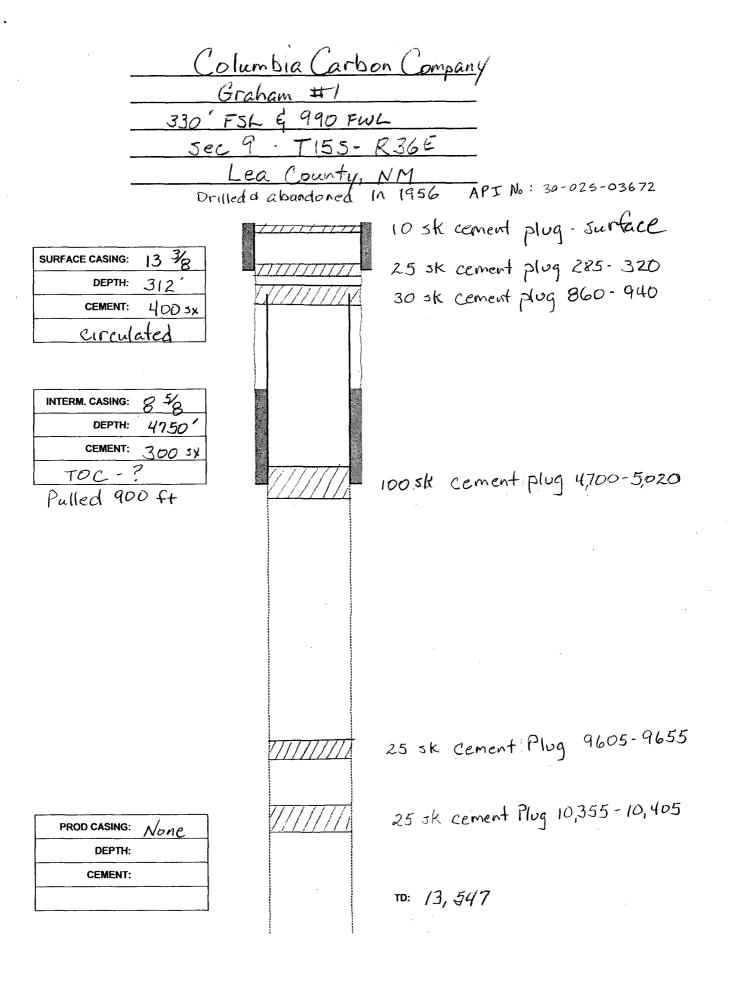
Production Casing: 5 ½" @ 13,674' w/ 200 sx est. TOC 12,250

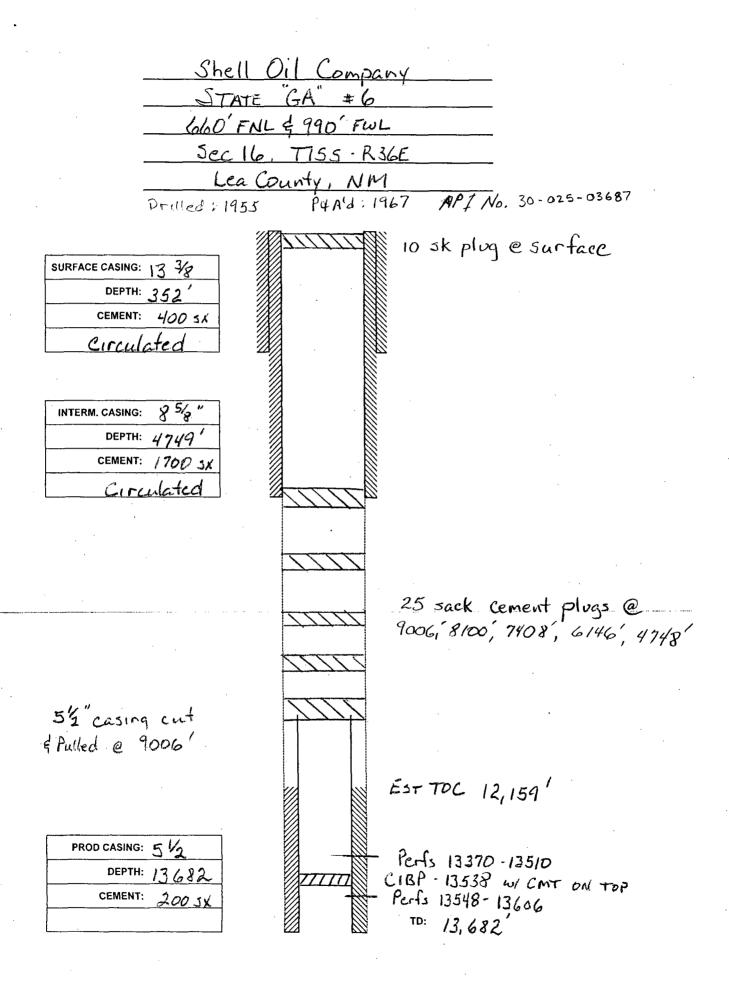
TD 13,674'

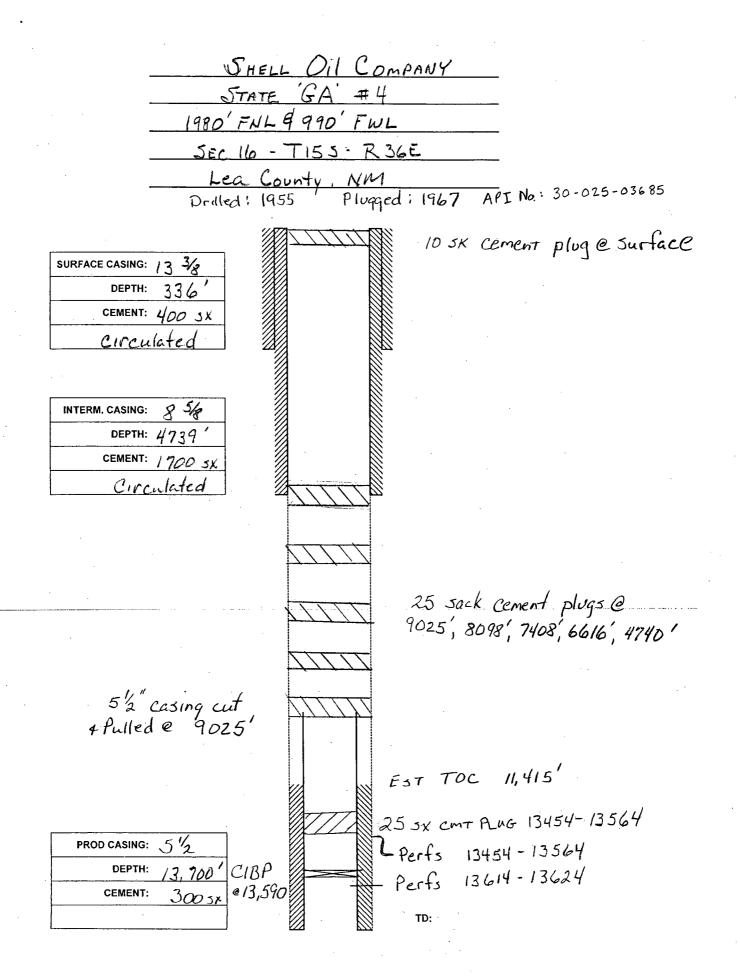
Exhibit 2B

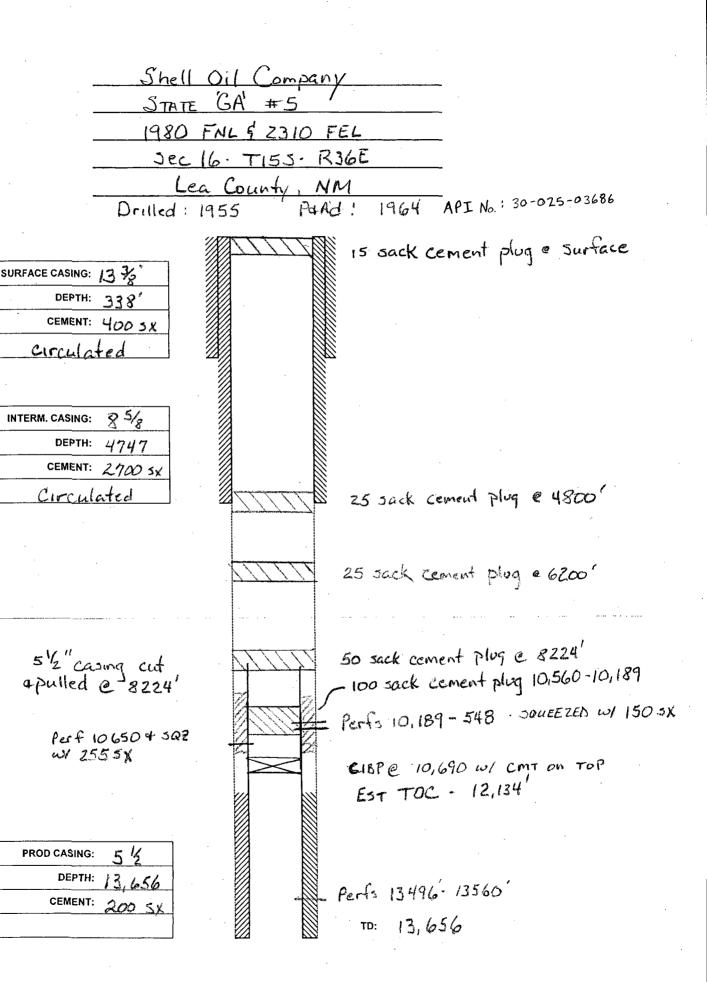
Wellbore Sketches of plugged wells within one half mile of proposed re-entry

—4.	Sunray Mi	doontinent C	Oil Co	
·	•	. Graham		
	•	L & 2310 F		
	_	T155-1		
		County, 1	,	
		API No.	: 30 - 025 - 03676	
	W.		20 sx cement plug	· surface
SURFACE CASING: /	3 3/8	h//////	125 JX Cement plug 3	
DEPTH: 2	374		123 JV CEMENT Flog 3	00 343
CEMENT: 4	00 3X			
INTERM. CASING: 8				
DEPTH: A				,
CEMENT: 6				
Cut off + pull			60 sk cement plug	4749-4543
7 7 7			, ,	٠
		7/////	50 sk Cement Plug 5	1946-6124
51/2" cut + p1	م لمهال	7/////	40 sk cement plug	8468-8603'
3603'	inca e	 	CIBP @ 10,150'	
8603				
			squeeze perfs 10190 -	
			Perfs 10,204-11,252 0	verall
			7 00 10 00	
			TOC 12,000	
· · · · · · · · · · · · · · · · · · ·				
PROD CASING:				
	13.630		Plug @ 13,532'	•
CEMENT:	450 sx		Perf 13542-13605	
EST TOC 2	12,000		TD: 13,69/	•









	Citie	s Service	Oil Cor	npany		
	STAT	TE AP' #	1			
	1980	FJL & 1980	FEL			
	Sec	16- T15:	5 - R36	promote the second seco		
	Drille	ea County ed:1955	, NM Pan'd	; 1974 A	PI No: 30-0	025-03678
				10 sack	. cement	plug e surface
SURFACE CASING:	12 0			· .		
DEPTH:	315'					
CEMENT:	300 SX					
Circulo	ited					
		<i>'//</i> 1 .	1//			i i

DEPTH: 4659'
CEMENT: 3250 SX

CIrculated

5½" casing cut & pulled at 5430

30 sk cement plug 4600 - 4700

30 sk cement plug 5478-5378'

EST TOC @ 10,690'

CIBP e 10,260 W1 5 sk Cement CAP Perfs 10,290 - 10,310 Perfs 10,504 - 10,582 CIBP @ 13,500 TD: 13,657

Devoman openhole 13,550 - 13,657

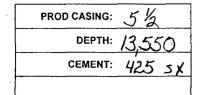


EXHIBIT 3A

Oiifield Solutions, Inc. 2614 S.C.R. 1257, Midland, Tz. 79706

WATER ANALYSIS REPORT

(>
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	X

¥	ង ដ	2 20 9	5 7 6		5 P P 7 P 14 5	43 22 -1.	Company: Lecation: Source: Dele Sampled:
@100 F. @120 F. @140 F. @160 F. Calcium Suitinte sokolity @ 90 F.	Resisivity @ 76 F. (calculated) CACCC Suburation Index 6550 F.	Total Total Hardhase As CaCO3 Suspended Off Volume Fittered (ml)	Observable Solids Fibervable Solids Total Solids	Catolium (CA++) klagnesium (Mg++) Sodium (Ne++) Bantum (Ba++) Total Iron (Fe)	Center Leader Dissolved Coygen Hydroxyl (OH-) Carbonate (COO-) Sicarbonate (HCO3-) Chloride (CI-) Suffate (\$04=)	ANALYSIS 1. pH 2. Specific Gravity 6050 f. 3. Hydrogen Suilide	C.W TRAINOR FRESH WATER SAMPLE ST 0 0
ERR ERR ERR ERR 1,590 mg/L	E RR			·			
PRODABL COMPOUND CA(HCCS)2 CASOA CACI2 MASOA MASOA MAHCO3 NASOA NASOA NASOA				Not Debiraried	Not Columbia	55	Samphed By: Analysis: Dete: Saleamen:
	2:184 /cm.	6	4,212	1.467	1,000	7.50	¥.
PRODUND EO. WT. X M APPOUND EO. WT. X M (HCCD)2 68.07 SOA 68.07 SOA 73.17 SOA 60.19 SOA 71.03 SOA 71.03 SOA 58.46 SOA 58.46	,		· .	20.1 12.2 = 23.0 =	300 a a a	EG. WT: 7.50	ĒĪ
REGE						MEOL	TORIFE F-CHEM
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1,047				·	·		

Olifield Solutions, Inc. 2614 S.C.R. 1267, Middend, Tx. 79706

i,C.R. 1267, Midlend, Tx. 78706 WATER ANALYSIS REPORT

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	Coloium Sulfaria solublity (8) 50 F	8	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	CACO3 Seburylian Index 倒80 F.	Resistority @ 75 F. (calculated)	Volume Filtered (mi)	Total Total Hardness Ay CaCOS	Total Solids	Dissolved Solids	Total Imper (File)	Bertum (Be++)	Magnesium (Mg++) Sodium (Mm+)	Caldium (CA++)	Sulfade (SQ4s)	Chloride (CI-)	Giographica (HCO3-)	Carbonate (CO3=)	Disawad Onygan	Carbon Dioxide	Hydrogen Builde	pH South County Street	ANALYSIS	C.W TRANIOR FRESH WATER SAMPLE 42 P D
	1,361 mg/L	ERS		E RR																			
MgCL2 NaHCO3 NaSION	eg(HCOSIZ	Ca(HCO3)2	COMPOUND EQ. WT. X M	•							Not Determined							Not Determined	Not Determined	NEGATIVE		mg/L	Bumplad By: Analysis Date: Galessmani
					3.182 Acm.		0	2,788	2,790	9.9		1 0	0	8		į,	• •			Ē	78		T Day
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## ## ## ## ## ## ## ## ## ## ## ## ##	73.17	81.04 88.07	7 0								Ş	3 2 2 2 2	3	8.8	36.0	# 6 2 3 4	17.0					EQ. WT.	
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			E E																			A POST	2 2
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/* 		4	mg/i										٥		7 •	9 6							
₹ 91 N	<b>∄</b> ¢∦,	n end	7	1.																			

## Devonian water Sample

P.O. BOX 98 MIDLAND, TX, 79702 PHONE (432) 683-4521 Martin Water Laboratories, Inc.

709 W. INDIANA MIDLAND, TEXAS 79701 FAX (432) 682-8819

, , , , , , , , , , , , , , , , , , , ,	RESULT OF WA	TER ANALYSES		' ( / ·	
	·	LABORATO	RY NO		06-230
TO: Mr. C.W. Trainer P.O. Box 754, Midland, TX 79702		/ 1/ 574.06			
COMPANY Individual	C 1'11	LEASE	Still	e "GA" #1	<u>,/</u>
FIELD OR POOL	Caudill				·
SECTION BLOCK SURVEY	COUNTY_	Lea	, <b>sta</b> t	EN	<u>M</u>
SOURCE OF SAMPLE AND DATE TAKEN:					
NO. 1 Submitted water sample.					
NO. 2					
NO. 3				)	
NO. 4	•	•	**		
	Devonian	······································		· · · · · · · · · · · · · · · · · · ·	
REMARKS:			<u> </u>		
<u> </u>	CHEMICAL AND PHY			NO 0	NO.4
0.000	NO. 1	NO NO		NO. 3	NO. 4
Specific Gravity at 60° F.	1.034	<del></del>		· · · · · - · · · · · · · · · · · · · ·	
pH When Sampled			+	<del>.</del>	
pH When Received	7,5				
Bicarbonate as HCO,	51:	2			<del></del>
Supersaturation as CaCO,			i		ļ
Undersaturation as CaCO,			٠ .		
Total Hardness as CaCO,	6,90			· · · · · · · · · · · · · · · · · · ·	ļ <del></del>
Catcium as Ga	2,16				
Magnesium as Mg					
Sodium andrer Potassium	16,06		<del></del>		
Sulfate as SO,	1,31				
Chloride as Ct					
Iron as Fo	Q.				
Barlum as Ba	<u> </u>	0			<del> </del>
Turbidity, Electric					
Color as Pt					ļ · • · · · · · · · · · · · · · · · ·
Total Solida, Calculated	<b>48,</b> 81	5			
Temperature *F.					
Carbon Dipxide, Calculated					
Dissolved Oxygen,					ļ
Hydrogen Gulfide	5.				
Resistivity, ohma/m at 77° F.	0.16	6	<del></del>		
Suspended Oil					
Filtrable Solids as mg/l	<del></del>	<del></del>			north feet and the
Volume Filtered, mi	<del></del>				<del></del>
				PTT/PM: 127	
				·	
	Results Reported As	Millionne Berlier			1
Additional Determinations And Remarks		· · · · · · · · · · · · · · · · · · ·	a. *l. c. * : :	January 15 and	D
	I mis water snov	vs characteristic	s that corr	elate well with ou	r Devoman
records in the vicinity of this well.				<del> </del>	
· · · · · · · · · · · · · · · · · · ·	The state of the s	****			
				· · · · · · · · · · · · · · · · · · ·	
			<del></del>		
	<del></del>		71		V V V WARRY (*** WY 4,412
			<del>//</del>		

Form No. 3

66/06. Not Stanied - Muse 1ATHAM PRINTING CO. - 353-1292 TOO/ TOO'd ST9Z#

Greg Ogden, B.S.

MARTIN WATER LABS

### Exhibit 4

Per instructions on form C-108, item XII – Pecos Operating Company have examined the available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Steven Gray, manager



### AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

### I, KATHI BEARDEN

### **PUBLISHER**

of the Hobbs News-Sun, a 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.

ofi	
	weeks.
Beginning with the issue	ue dated
March 15	2008
and ending with the iss	
March 15	2008

**PUBLISHER** Sworn and subscribed to before

17th me this. day of

March

Notary Public.

My Commission expires February 07, 2009 (Seal)



OFFICIAL SEAL **DORA MONTZ** NOTARY PUBLIC STATE OF NEW MEXICO

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.

### March 15, 2008

March 15, 2008

Pecos Operating Company. 400 W. Milnots Ave. Suits 1210. Midland, 1X 79701, has filed form C-108 (Application for Midland, 1X 79701, has filed form C-108 (Application for Information to Inject) with the New Mexico Off Conservation Division, seeking administrative approval for a salt water disposal well, The prophised work, the Caudin SWD No. 1, which is located 660° FNL & 2310° FEL of Section 16. T15S. R36E, Lee County, New Mexico, will be used for saltwater disposal only. Produced waters will be injected in to the Davonian formation at a dopen of 13,495 to 13,800 feet with a proposed maximum pressure of 1500 pal and maximum rate of 8000 barrels of water per day. Interested parties must file any objections or requests for hearing with Canka Fe, NM, 67505, within 15 days of this notice. Additional Information may be obtained by contacting Steve \$23812

02108548000 02598930 PECOS OPERATING COMPANY, LLC 400 W. ILLINOIS AVE. SUITE 1210 MIDLAND, TX 79701

CASE ______: Application of Pecos Operating Company for approval of a non-commercial salt water disposal well, Lea County, New Mexico. Applicant seeks approval to deepen and utilize the State GA Well No. 7 (API No. 30-025-03688) located 660 feet from the North line and 2310 feet from the East line in Unit B of Section 16, Township 15 South, Range 36 East, NMPM, to dispose of up to 8,000 barrels of produced water per day, at a maximum pressure of 1,500 psi, into the Caudill Devonian Pool in the Devonian Formation, at an approximate depth of 13495 feet to 13,900 feet. Applicant may be contacted through its representative, Steve Gray, 400 W. Illinois Ave., Suite 1210, Midland, TX 79701, Phone 432-620-8480. Said well is located approximately 3 miles north of Lovington and one-half mile off of Highway 206 (Tatum Hwy).