DECM 043424736 TYPE SUD ENGINEER MIS

NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau 1220 South St. Francis Drive, Santa Fe, NM 87505



IS CHECKLIST IS M			
_	B:		
[DHC-Down	nhole Commingling] [CTB-L ol Commingling] [OLS - Off [WFX-Waterflood Expansion] [SWD-Salt Water Dispos	ease Commingling] [PLC-Po Lease Storage] [OLM-Off-Le [PMX-Pressure Maintenance al] [IPI-Injection Pressure Ind	ol/Lease Commingling] ease Measurement] e Expansion] crease]
[A]	Location - Spacing Unit - Sin		Kawa Managaran M
[B]		asurement PLC PO OLS	OLM
[C]			very ☐ PPR
[D]	Other: Specify		
NOTIFICATI [A]			
[B]	Offset Operators, Leasel	nolders or Surface Owner	
[C]	Application is One Whi	ch Requires Published Legal No	otice of
[D]			
[E]	For all of the above, Pro	of of Notification or Publication	n is Attached, and/or,
[F]	☐ Waivers are Attached		
			D TO PROCESS THE TYPE
al is accurate and tion until the rec	nd complete to the best of my laured information and notification	mowledge. I also understand the tions are submitted to the Divisi	at no action will be taken on this on.
MOIE:	otatement must be completed by a	n murviduai with manageriai and/or s	upervisory Capacity.
Type Name	Signature	Title	Date
	[EOR-Qual TYPE OF AP [A] [D] NOTIFICAT [A] [B] [C] [D] SUBMIT ACC OF APPLICATION (A) [EE] [F] SUBMIT ACC OF APPLICATION (A) CERTIFICATION (A) Note:	MHICH REQUIRE PROCES [NSL-Non-Standard Location] [NSP-Non-Sta [DHC-Downhole Commingling] [OLS - Off- [WFX-Waterflood Expansion] [SWD-Salt Water Disposa [EOR-Qualified Enhanced Oil Recovery of SWD-Salt Water Disposa [EOR-Qualified Enhanced Oil Recovery of SWD-Salt Water Disposa [EOR-Qualified Enhanced Oil Recovery of SWD-Salt Water Disposa [A] Location - Check Those of NSL NSP	[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Sin [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Po [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Storage] [OLM-Off-Lease Storage] [WFX-Wasterflood Expansion] [PMX-Pressure Maintenance [SWD-Salt Water Disposal] [IPI-Injection Pressure Inc [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive] TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD NSL NSP SD Check One Only for [B] or [C] [B] Commingling - Storage - Measurement DHC CTB PLC PC OLS [C] Injection - Disposal - Pressure Increase - Enhanced Oil Reco WFX PMX SWD IPI EOR [D] Other: Specify NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Doc [A] Working, Royalty or Overriding Royalty Interest Owner [C] Application is One Which Requires Published Legal Not State U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office [F] Waivers are Attached SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRE OF APPLICATION INDICATED ABOVE. CERTIFICATION: I hereby certify that the information submitted with this all is accurate and complete to the best of my knowledge. I also understand the tion until the required information and notifications are submitted to the Division Note: Statement must be completed by an Individual with managerial and/or statement must be completed by an Individual with managerial and/or statement must be completed by an Individual with managerial and/or statement must be completed by an Individual with managerial and/or statement must be completed by an Individual with managerial and/or statement must be completed by an Individual with managerial and/or statement must be completed by an Individual with managerial and/or statement must be completed by an Individual with managerial and/or statement must be completed by an Individual with managerial and/or statement must be completed by an Individual with managerial and/or statement must be completed

e-mail Address

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: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval?
П.	OPERATOR: RAY WESTALL
	ADDRESS: Box 4 Loco Hills, WM 88253
	CONTACT PARTY: RANDACC HARRIS PHONE: 505 677.23
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? YesNo If yes, give the Division order number authorizing the project:No
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources 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: JANDALL FARRIS SIGNATURE: DATE: 1/30/64
*	E-MAIL ADDRESS: Narvishin & Netscape - West If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances 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 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.

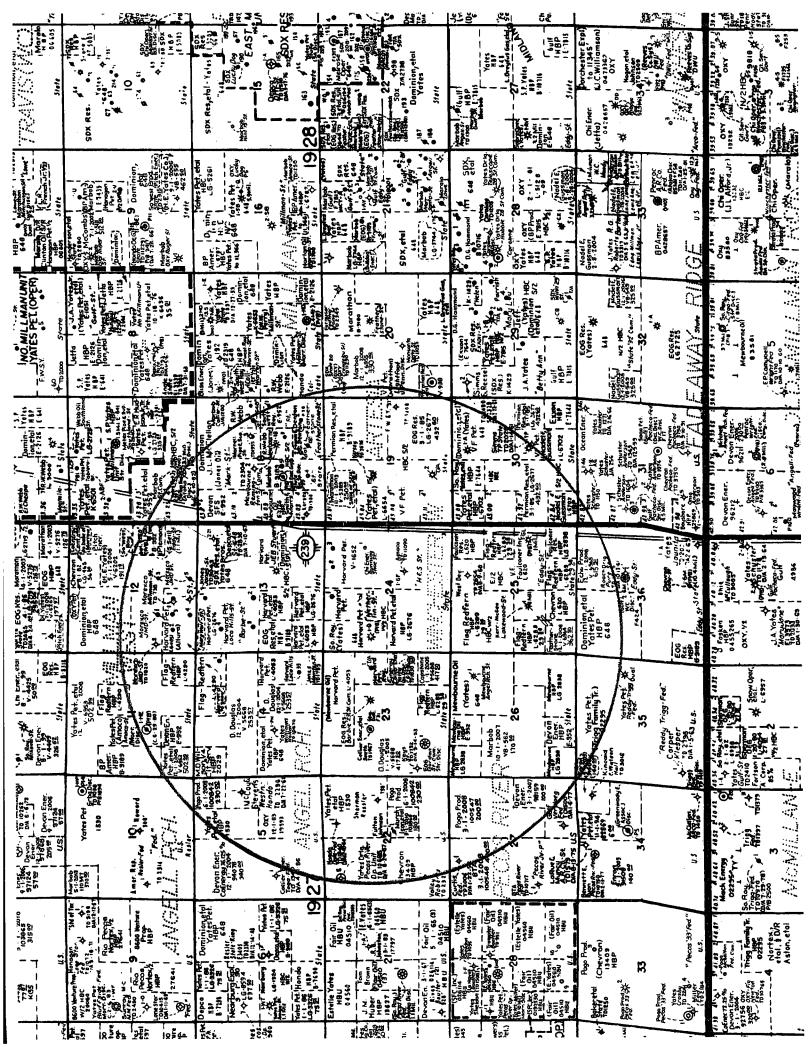
INJECTION WELL DATA SHEET

Type of Packer BAKER LOC SET Taker Type of Tubing Casing Seal (if applicable): Additional Data Is this a new well drilled for injection? Name of the Injection Formation: AAYOA Name of Field or Pool (if applicable): 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) used. 2437-9738 10373-1070: CLEP 10265 +35 'Cm7; 100712-10080 CLEP 10610 +25' cm. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: MOMMU O 300 Sucervice Adversarial injection zone in this area: MOMMU O 300 Sucervice Adversarial injection zone in this area: MOMMU O 300 Sucervice Adversarial injection zone in this area: MOMMU O 300 Sucervice Adversarial injection zone in this area: MOMMU O 300 Sucervice Adversarial injection zone in this area: MOMMU O 300 Sucervice Adversarial injection zone in this area.
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ATTACHMENT V

Maps that identifies all wells of public record within two miles of each proposed injection well, and the area of review one-half mile radius around each proposed injection well.

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Sulf HBP A E 1915 State	Nodel 5 SIZ HBC , L.	Flag Faulconer Stone Flag Faulconer Stone L-620 HBF HBF HBF L-6209 L3 2636 State 29 30	LG 2030 HBP LG 2030	Gulf Verploeg Fred DAI-6-77
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ATTACHMENT VI

Data on all wells of public record within the area of review. Included are schematics of the plugged wells that penetrated the proposed injection zone within the area of review.

One well the EOG Barbie "23" State Com #1 has penetrated the proposed injection zone within one mile, completion attached.

State of New Mexico Energy, Minerals and Namual Resources Department

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30-015-31320			1.0%	. 177
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0698-10700	(8 holes)	10588-1		holes	_	1-10716	Natur	al	
0710-10716' 0572-10574'	(24 holes) (8 holes)	10491-1		holes				•	
8.	(o notes)	10528-1	PRODU	holeb	}	.=	<u>!</u>		
Dale Firs Production		Production Method				e pump)		Well Status (Pro	d. or Shut-in)
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Sold O List Attachments			······································					· · · · · · · · · · · · · · · · · · ·	
			·						
1. I hareby certify th	at the information s	shown on both sid	des of this form	ध हम्म क	d complete t	o the best o	f my knowle	dge and belief	•
	- 10		Printed		•				
Signature	Zeho 710	_	Name M	ike Fr	ancis	Title	Agent	В	ate 12-28-00

ATTACHMENT VII

1.	Proposed average of 500 bbls per day and maximum of 1000 bbls per day of injected
	fluids. At a rate of one bbl per minuet.

- 2. System will be closed.
- 3. Average anticipated pressure of 500 psi and a maximum of 4000 psi.
- 4. Source of produced water is water from nearby fields, Typical are:

Benson Bone Spring	Water: 73.623 Na+K 7.200 ca 288 Mg 127000c1 282 SO ₄ 137 CO ₂ or HCO ₃ Ir. Fe Specific Gravity 1.150 Resistivity 05 ohms e 75 °F
Winchester Morrow	Wester:Ne+K, 400_ce, 631 Mg, 42,800_ct, 3400.so4, 622_co3, or HCO3, Ir_Fe Specific Gravity 1.050 Resistivity offens €*F
Avaion Penn Woter:	No+K, 1240 co, 172 Mg, 26.835 ct, 504, 354 c02, or MCO2, 73 Fe Gravity 1.03 Resistivity 0.173 shape 6 69 "F

5. Canyon water analysis is inferred from a nearby field.

Water: 3440 No+K, 500 Ce, 300 Mg, 4000 Ct, 1900 So, 1120 Co, or HCO3, N1] Fe Secrific Greativ 1.008 Resistivity 0.840 ohes @ 72 'F

701.E(2)

ATTACHMENT VIII

The proposed injection zone is carbonates of the Canyon formation. This carbonate is composed of dolomite. There is possible drinking water overlying the injection in the surface sands at a depth of 0-250'. There is no known source underlying the injection interval.

ATTACHMENT IX

Proposed stimulation:

Acidize perforations with 2500-5000 gal 15% HCl.

ATTACHMENT XI

Tl	nere is	one ac	tive	fresh	water	wells	within	one i	mile.	anal	vsis	attacl	red	



Water Analysis

Date: 11/23/2004

2401 Sivley, Artesia NM 88210

Phone (505) 746-3140 Fax (505) 746-2293

Analyzed For

		Well Name W Scc 13 19-27		ounty Eddy	State New Mexico	
Sample Source			Sample #		1	
Formation	Fresh Wate	r Well	Depth			
Specific Gravity	1.000	, , , , , , , , , , , , , , , , , , ,	SG @) 60 °F	1.002	
рН	7.63		\$	Sulfides	Not Tested	
Temperature (°F) 71			Reducing Agents		Not Tested	
Cations						
Sodium (Calc)		in Mg/L	5,278	in PPM	5,267	
Calcium		in Mg/L	560	in PPM	559	
Magnesium		in Mg/L	43	in PPM	43	
Soluable Iron (FE2)		in Mg/L	0.0	in PPM	0	
Anions				**		
Chlorides		in Mg/L	8,000	in PPM	7,982	
Sulfates		in Mg/L	1,600	in PPM	1,596	
Bicarbonates		in Mg/L	68	in PPM	68	
Total Hardness (as CaC	O3)	in Mg/L	1,580	in PPM	1,577	
Total Dissolved Solids (Calc)	in Mg/L	15,550	in PPM	15,515	
Equivalent NaCl Conce	ntration	in Mg/L	14,683	in PPM	14,650	
Scaling Tendencies	s					
Calcium Carbonate Inde	9 <i>X</i>				36,259	

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

896,000

Below 500,000 Remote / 500,000 - 10,000,00 Possible / Above 10,000,000 Probable

*This Calculation is only an approximation and is only valid before treatment of a well or several weaks after treatment.

Remarks

FAX 677-2361

^{*}Calcium Sulfate (Gyp) Index

ATTACHMENT XII

All available geologic and engineering data have been examined and there is no evidence of open faults or any other hydrologic connection between the disposal zone and any source of drinking water.

ATTACHMENT XIV

PROOF OF NOTICE

Leasehold operators within one-half mile of the well location are: Harvard Petroleum, Chi Energy, Capstone and EOG. Each of the operators were provided a copy of our application by certified mail. Proof of notice is enclosed. The surface owner is the State of New Mexico.

PROOF OF PUBLICATION

Proof of publication is from the Artesia Daily Press and is attached.

CERTIFIED MAIL

Harvard Petroleum 7004 0750 0002 5384 5307 P.O. Box 936

Roswell, NM 88201

Chi Energy 7004 0750 0002 5384 5314

P.O. Box 1799 Midland, TX 79702

Capstone 7004 0750 0002 5384 5321

P.O. Box 11148 Midland, TX 79702

EOG 7004 0750 0002 5384 5338

P.O. Box 2267 Midland, TX 79702

Oil Conservation Division 1301 W. Grand Artesia, NM 88210

Oil Conservation Division 1220 S. St. Francis Santa Fe, NM. 87505

Affidavit of Publication

NO.

18681

STATE OF NEW MEX	IICO		
County of Eddy:			
Gary D. Scott			being duly
sworn,says: That he is	the	Publisher	of The
Artesia Daily Press, a	daily newsp	aper of gen	eral
circulation, published i	n English at	: Artesia, sa	id county
and county and state,	and that the	here to atta	ached
		Legal Noti	се
was published in a reg	ular and en	tire issue of	the said
Artesia Daily Press,a	daily newspa	aper duly qu	alified
for that purpose within	the meaning	g of Chapte	er 167 of
the 1937 Session Law	vs of the sta	te of New M	lexico for
1 consecutiv	e weeks/da	ys on the sa	ame
day as follows:			·
First Publication	November	16	2004
Second Publication			
Third Publication			
Fourth Publication		Л	
$\langle \rangle$		X int	1
- My		1000	
Subscribed and sworn	to before n	ne this	
16th Day	November	2004	
Notary Put	olic, Eddy C	ounty, New	Mexico

September : 23, 2007

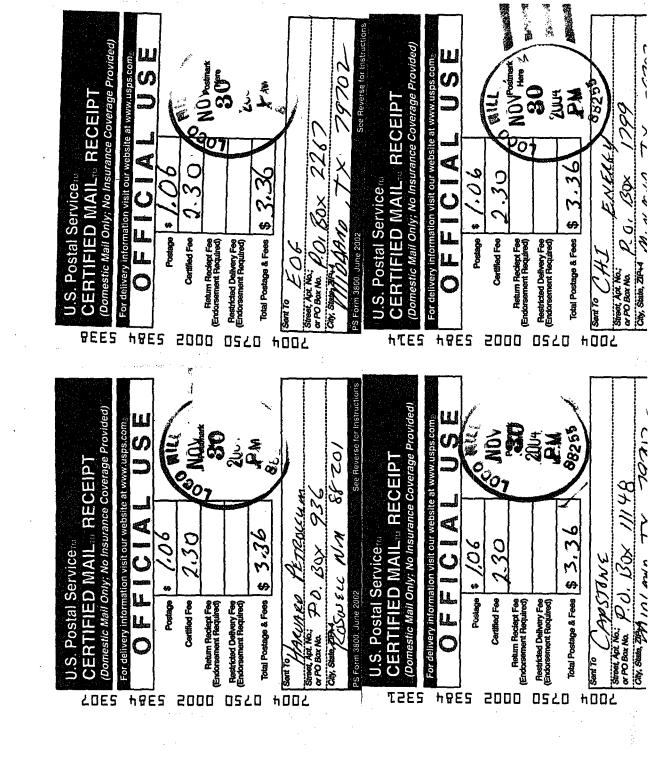
My Commission expires

Copy of Publication:

Ray Westall-Operator, P.O. Box 4, Loco Hills, New Mexico 88255 Phone (595)677-2370. Contact party for Ray Westall-Operator is Flandall Harris, is seeking administrative approval from the New Mexico Oil Conservation Division to utilize a well located 1980'FNL &660'FWL Section 24, Township 19 South, Range 27 East, Eddy County, New Mexico known as the State G Com #1 for water injection. Proposed injection is in the Canyon formation through perforations 8730-9220 feet. Expected maximum injected parties must file objection or requests for hearing with the Oil Conservation Division, 1220 So. St. Francis Drive, Santa Fe, NM 87505 within 15 days of the notice.

Published in the Artesia Daily Press, Artesia, N.M. November 16, 2004.

Legal 18681



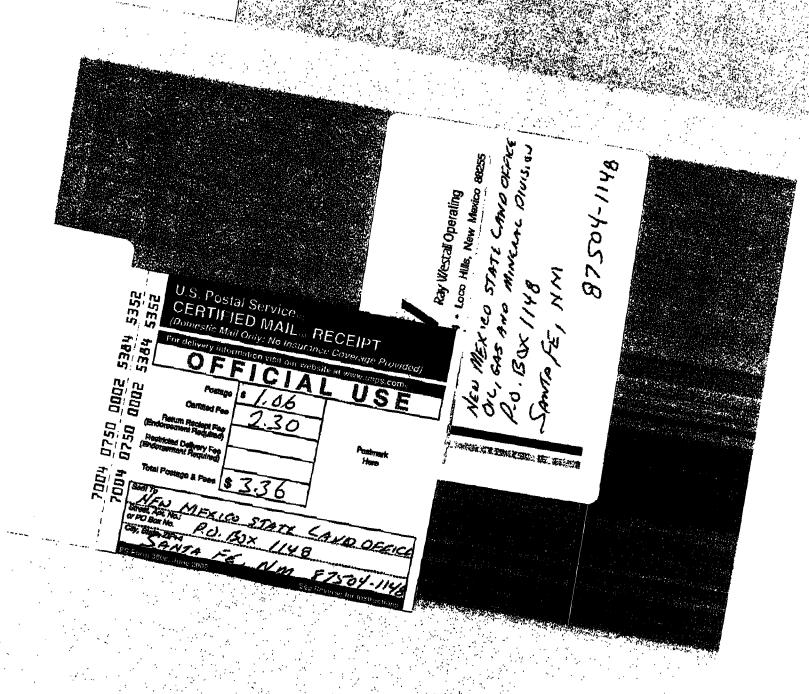


Westall Oil & Gas, Inc.

independent Oil Producer
Post Office Box 4
Loco Hills, New Mexico 88255
PH. 505-677-2370 • FAX 505-677-2361

FAX COVER SHEET

	, /
FAX NO.	:
TO	: OIL CONSERUMION DUISION
ATTENTION	: WILLIAM V JUNES
SUBJECT	STATE 'C' C108
SENDER	RANDALL HARRIS
Nı	mber of Pages: Cover Sheet + Pages
Please call	(505) 677-2370 if you have problems receiving this document.
MESSAGE:	
	STATE CAND OFFER
	ropy of C-108
	-thaks
	Cardell



Jones, William V

> Security System.

Randall Harris [rharrisnm@netscape.net] From: Thursday, December 09, 2004 8:52 AM Sent: WVJones@state.nm.us To: Re: State G Com #1 SWD proposal Subject: Untitled Attachment Hello William Jones: I will sent a copy to the state land office via certified mail # 7004 0750 0002 5384 5352. I will fax a copy to your attention. Thanks Randall Harris WVJones@state.nm.us wrote: > Hello Randall: > I briefly reviewed your application as just received today. > Please send by fax or mail the evidence that you notified the State > Land Office as the surface owner of your proposed SWD well. > Our contact info is on our web site. > Thanks, > William V. Jones Engineering Bureau <http://www.emnrd.state.nm.us/ocd/Bureaus/Engineering/engineer.htm> Oil Conservation Division > <http://www.emnrd.state.nm.us/ocd/> > <http://www.emnrd.state.nm.us/ocd/general/SFdirectory.htm> > Confidentiality Notice: This e-mail, including all attachments is for > the sole use of the intended recipient(s) and may contain confidential > and privileged information. Any unauthorized review, use, disclosure or > distribution is prohibited unless specifically provided under the New > Mexico Inspection of Public Records Act. If you are not the intended

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30-015-22955

Oged- 18862 Peoper 1- 11711 Pool- 70310

Geal Tepe Youresa 530 8630 TKINES 778 Stram 9348 Bowers 1140 Ateka 10046 Queen 1310 Morrew LS 10408 Graybung 1640 San Andrew 2246 Merrin C1 10518

Bone Spring 2906 3nd BS Snot 7868 Welfer \$ 8235

2609110 2609130 2600,50

S ESSELTE

MADE IN U.S.A.

NO. R753 1/3

12-19-79

Gomp Went Surf- 11, 130 Onal Lat.

320 - 11, 129

NO. OF COPIES RECEIVED			Form C-103
DISTRIBUTION		RECEIVE	Supersedes Old C-102 and C-103
SANTA FE /	NEW MEXICO OIL CONS	ERVATION COMMISSION	Effective 1-1-65
FILE 1 V		A 100 100 100 100 100 100 100	
U.S.G.S.		SEP 2 5 1979	5a. Indicate Type of Lease
LAND OFFICE			State X Fee
OPERATOR /	i i	O. C. C. ARTEBIA, OFFICE	5. State Oil & Gas Lease No. 648
IDO NOT USE THIS FORM FOR PROJ	Y NOTICES AND REPORTS ON POSALS TO BRILL OR TO DEEPEN OR PLUS &	WELLS	
OIL SAS X	OTHER-		7. Unit Agreement Name
2. Name of Operator Southland Royalty Co			8. Form or Lease Name State G Com.
3. Address of Operator		•	9. Well No.
1100 Wall Towers Wes	st, Midland, Texas 79701		10. Field and Pool, on Miskeyew)
	1980 PEET FROM THE north	LINE AND 660 FEET PRO	Indesignated (Angell Rang
THE West LINE, SECTIO	24 TOWNSHIP 19S	RANGE 27E NMPN	
	15. Elevation (Show whether	DF, RT, GR, etc.)	12. County
	3462.6' GR		Eddy
Check A	Appropriate Box To Indicate N ITENTION TO:	_	ther Data IT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CABING
TEMPORABILY ABANOON		COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING	CHANGE PLANS	CASING TEST AND CEMENT JOB X	
OTHER	D		
17. Describe Proposed or Completed Ope	erations (Clearly state all pertinent deta	ils, and give pertinent dates, includin	ig estimated date of starting any proposed
work) SEE RULE 1103.	of 11 1261 Pan Compone	sted Nostwar Formation	Domaites as/Calimans law
	of 11,136'. Ran Compens	ated Neutron-Formation	Density w/Caliper log
and Dual Induction w/RX		50 page 20 - 3 - 3 - 6	000 01 Hartt Fil rom (
Ran 5%" Csg set to 10,8	62'. Cement W/125 SX 50-	50 Posmix 2% gel plus 8	300 sx Class "H", 5# KCL/
	M. 9-19-79. Pres to 2000		
		mpletion unit. Tempera	ature Survey t/cmt @ 7820'.
5½" csg in hole as foll			
Btm Hole 324' 5½"	17# 11.6# S-95 LT&C		•
2714' 5½"	17# 11.6# N-80 LT&C		
4911' 5½"	17# 11.6# K-55 ST&C		
2715 5½" Top Hole 198 5½" 10,862	17# 11.6# N-80 LT&C 17# 11.6# N-80 Butt.		
10,002			
			•
		·	
18. I hereby certify that the information	above is true and complete to the best of	f my knowledge and belief.	
SIENED C. Harney Can	/ TITLE Di	strict Engineer	
0 0			
APMOVED BY W. a. S.	usset me	UPERVISOR, DISTRICT II	SEP 2 7 1979
CONDITIONS OF APPROVAL, IF ANY	,		

NO. OF COPIES RECEIVED	 	4				Form C-	
DISTRIBUTION				₩ 581		Supersec	des Old nd C-103
SANTA FE		NEV	W MEXICO OIL C	ONSERVATI RE C	5MEDION	Effectiv	
FILE	11/]					
u.s.g.s.	1			DEC 9	0 1979		Type of Lease
LAND OFFICE]		DEG Z	0 13/3	State	Fee.
OPERATOR] .		O. 0	C. D.	5. State Oil 648	& Gas Lease No.
	CUNIDE	NA NOTICES				mm	mmmn
(DO NOT USE THIS FO	SUNDH PRM FOR PRI SAPPLICAT	CY NUTICES A OPOSALS TO DRILL TION FOR PERMIT -	AND REPORTS OR TO DEEPEN OR PT	ON WELARTESIA	RENT RESERVOIR.		
l. OIL GAS	· X					7, Unit Agre	eement Name
2. Name of Operator	נ אבן	OTHER-		· · · · · · · · · · · · · · · · · · ·		8. Form or 1	_ease Name
Southland Roya	altv Co	moanv /				i	G Com.
3. Address of Operator	<u> </u>					9. Well No.	0 00
1100 Wall Tow	ers Wes	t. Midland	. Texas 79	701.		1	
4. Location of Well		70, 120,000	, 101			I —	nd Pool, or Wi(Morrow)
UNIT LETTER E	1	.980 FEET	FROM THE	cth	660 FEET	Undes:	ignated (Angell
				_			
THE	LINE, SECTI	24 ION	TOWNSHIP	L9S	27E	MPM.	
mmmmm	um.	15. E	levation (Show whe	ther DF, RT, GR, e	etc.)	12. County	/////////////////////////////////
			·	3462.6		Eddy	
16.	777777	<u> </u>	D T 1 1'				
NOTI		Appropriate i		te Nature of No	otice, Report or SUBSEQU	ENT REPORT	OF:
				_			
PERFORM REMEDIAL WORK]		PLUG AND ABANDON	REMEDIAL WO	RK	,	LITERING CASING
TEMPORARILY ABANDON				COMMENCE DR	ILLING OPNS.	Р	LUG AND ABANDONMENT
PULL OR ALTER CASING]		CHANGE PLANS	CASING TEST	AND CEMENT JOB 💢		
				OTHER			[
OTHER							
17. Describe Proposed or Co	ompleted O	perations (Clearly	y state all pertinen	t details, and give p	ertinent dates, incli	uding estimated day	e of starting any proposed
work) SEE RULE 1103.							
			136'. Ran (compensated.	Neutron-Form	ation Densi	ty w/Caliper log
and Dual Later				50 50 D			
							Class "H", 5#
							elease pressure,
float hold OK			_	_	completion u	nit. Temper	cature Survey
t/cmt @ 7820".	45"	csg in hold	e as rollows	5:			
The state of the s	2241	.1	5 05 TT:0				
		15" 11.6#	S-95 LT&C				
		以" 11.6#	N-80 LT&C				
		地" 11.6#			•		
_		13" 11.6#	N-80 LT&C				
		以" 11.6#	N-80 Butt	•			
10,8	862						
CORRECTED COPY	v						
CORRECTED COP.							
18. I hereby certify that the				est of my knowledg	e and belief.		
A Hann	. //	/		District	Engineer		121070
SIGNED C. TYWWW	y can	<u> </u>	TITLE _	District	midnieer	DATE	12-19-79
		, ,			0 1510/001/2013		4005
APPROVED BY AS CA	1. 4	respert	TITLE	SUZERVISU	R. DISTRICT M	DATE	JAN 23 1980
	+ 						

NO. OF COPIES RECEIVED	13			Form C-103
DISTRIBUTION			AEUMIVED	Supersedes Old C-102 and C-103
SANTA FE			NEW MEXICO OIL CONSERVATION COMMISSION	Effective 1-1-65
FILE	1		1650 of 21 1070	
บ.ร. G. ร.			JUL 37 1979	5a. Indicate Type of Lease
LAND OFFICE				State X Fee.
OPERATOR			a. c.	5. State Oil & Gas Lease No.
			ARTESIA, OFFICE	648
(DO NOT USE THIS FO	SUI M.F.	NDRY	NOTICES AND REPORTS ON WELLS ISALS TO DRILL OR TO DEEPEN OF PLUG BACK TO A DIFFERENT RESERVOID. N FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)	
1. OIL GAS WELL WELL	X		OTHER-	7. Unit Agreement Name
2. Name of Operator Southland Royalt	ev C		ny	8. Farm or Lease Name State G Comm.
3. Address of Operator			2	9. Well No.
	s We	st,	Midland, Texas 79701	1
4. Location of Well		198	O FEET FROM THE North LINE AND 660 Un	10. Field and Pool, or Wildcut Angell Ranch (Morrow)
UNIT LETTER	·			
West	INE, S	EC T (0)	24 TOWNSHIP 19-S RANGE 27-E NMPM.	
	III	111	15. Elevation (Show whether DF, RT, GR, etc.)	12. County
Ä	7777.	7777	3462.6' GR	Eddy ())
16.	Che	ck A	opropriate Box To Indicate Nature of Notice, Report or Oth	er Data
NOTIC	CE O	F IN	ENTION TO: SUBSEQUENT	REPORT OF:
	_			
PERFORM REMEDIAL WORK	J		PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	إ		COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
PULL CR ALTER CASING]		CHANGE PLANS CASING TEST AND CEMENT JOB X	
			OTHER	
OTHER				
17. Danish - Danish of Co	malat	-d One	cations (Clearly state all pertinent details, and give pertinent dates, including	antimonal data of anti-
work) SEE RULE 1103.	mprett	er Obe	ations (Creary state art pertinent details, and give pertinent dates, including	estimated date of starting any proposed
Spud well by Ho	ondo	Dr:	lling Company Rig #3 @ 6:00 PM 7-18-79. Drill	15" hole to 323'. Ran
			csg set @ 323'. Cement w/300 sx WDC 18 hrs. I	
			casing @ 1000 psi for 30 min. hold OK. Drill	
			, , , , , , , , , , , , , , , , , , , ,	
·				
			,	
~				·
				•
			<u> </u>	
			•	
18. I hereby certify that the	inform	ation :	bove is true and complete to the best of my knowledge and belief.	
A Home	<u>u</u> /	In.	District Engineer	7_20_70
SIGNED G, NOT	7	~~~	THE DISCRET ENGINEER	DATE 7-20-79
	Ţ	1		
APPROVED BY	مر ر	4	SUPERVISOR, DISTRICT II	JUL 3 0 1979

CONDITIONS OF APPROVAL, IF ANY:

PPROVED BY W. Q. &	Fresset , 1111 8	UPERVISOR, DISTRICT. U	JUL 3 1 1979
IGNED C. Harney Car		strict Engineer	7-27-79
8. I hereby certify that the information	on above is true and complete to the best c	of my knowledge and belief.	
Drill 11" hole to Caliper and Dual Ran 8 5/8" 24# K-w/6# salt and ¼" and 6# salt/sx. Nipple w/double 1	Leterolog w/RXO. 55 ST&C casing set @	2442'. Cement w/ Class "C" cement 26-79. Circ out er 900 Hydril and	w/2% Calcium Chloride 150 sx. WOC 18 hrs. Drlg. Head. Test
	Operations (Clearly state all pertinent dete	ills, and give pertinent dates, inc	luding estimated date of starting any proposed
PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER	PLUG AND ABANDON CHANGE PLANS	REMEDIAL WORK COMMENCE DRILLING OPNS. CASING TEST AND CEMENT JQB	ALTERING CASING PLUG AND ABANDONMENT
	Appropriate Box To Indicate N INTENTION TO:	· •	or Other Data UENT REPORT OF:
	15. Elevation (Show whether 3462.6° GR	DF, RT, GR, etc.)	12. County Eddy
	TOWN 24 TOWNSHIP 19S	RANGE 27E	NMPM.
. Location of Well	980		10. Field and Pool, or Wildcat ROOM Angell Ranch (Morrow
Southland Royalty		79701	State "G" Comm. 9. Well No.
Name of Operator	OTHER-		8. Farm or Lease Name
SUND (DO NOT USE THIS FORM FOR PER USE "APPLICA".	RY NOTICES AND REPORTS ON ROPOSALS TO DRILL OR TO DEEPEN OR PLUG BETTION FOR PERMIT — (FORM C-101) FOR SUC	WELLS ACK TO A DIFFERENT RESERVOIR. H PROPOSALS.I	7. Unit Agreement Name
OPERATOR /]	C. C. C. Artebia, office	5. State Oil & Gas Lease No. 648
U.S.G.S.	-		State X Fee
FILE		الله الله	
DISTRIBUTION SANTA FE /	NEW MEXICO OIL CONS	ERVATION COMMISSION	Supersedes Old C-102 and C-103 Effective 1-1-65
NO. OF COPIES RECEIVED	_]	the second secon	Form C-103

CONDITIONS OF APPROVAL, IF ANY:

Conclusion				'●	Copyrighted Reproduction Prohibited
COUNTY EDDY	FILLD An	gell Ranch		STATE	NM
OPR SOUTHLAND R	OYALTY CO.			API	30-015-2295
NO 1 LEASE ST	ate "G" Com	•		MAP	
Sec 24, T19	S, R27E			COORE)
1980' FNL,		Sec			2-3-9 NM
19 mi SW/Lo		= '	1) 7-18-79) (NIP	12-5-79
CSC		WELL CLASSE			
11 3/4" at 323'	w/300 sx	LORMATION	DATUM	LORAIATIC	1
8 5/8" at 2442'					
4 1/2" at 10,86			†		
4 1/2 dt 10,00	L W/JLJ OK				
·			 		
		ID 11,136	(MBBM)	PBD	10,780'
IP (Atoka-Morro	w) Parfs 10				
Dry; gty (Gas);	•	•			· GOK
bry, gry (das),	.030 ; DIWII	2072#, 51	.Diii 270.	זרכ	
CONTR Hondo		OPRS ELEV	3463' (GL PD	11.200 ° RT

```
F.R. 7-16-79
               (Morrow)
7-31-79
               Drlg 4480'
               DST (Queen) 1434-95' open 1 hr 30 mins w/wk blow
               decr to no blow, rec 20' DM, 1 hr ISIP 53#,
               FP 53-53#, 2 hr FSIP 53#, HP 738-738#
8-7-79
               Drlg 6745' lm & sh
               Drlg 9174' 1m & dolo
8-14-79
               TD 9247'; SDR
8-20-79
               Drlg 9633' 1m
TD 9710'; lost circ
Drlg 10,530' 1m & sh
8-29-79
9-5-79
9-12-79
               DST (Atoka) 10,072-098', open 1 hr 30 mins
               w/good blow, GTS in 20 mins @ 227 MCFGPD thru
      . .
               3/8" chk, rec 30' O&GCM (Sampler rec .020 CFG @ 275#), 1 hr ISIP 4655#, FP 86-129#,
               2 hr FSIP 4612#, HP 5080-5122#,
               BHT 150 deg
               TD 11,136'; SI/WOO
9-19-79
                                            2-3-9 NM
```



BAKER ATLAS

Dean R. Jackson 17015 Aldine Westfield Houston, TX 77073

Mr. Randall Harris Westall Operating Loco Hills, NM

Mr. Harris,

I have spent some time addressing the question you asked of me, namely, from conventional well logs, determine the water salinity in your zone of interest. As you are aware, this endeavor has many difficulties due to the number of variables and their uncertainties.

The well is located in Township 19-S, Range 27-E. Eddy County, New Mexico.

In the cleanest zone with the best porosity and lowest resistivity, the logs indicate the following:

Porosity = 17 % Resistivity = 24 ohm-meters

The relationship between these log parameters and the water content is described by the following equation:

$$Sw^n = aR_w / (Porosity^m * R_t)$$

Making the assumption that the zone of interest is 100 % water and that the variable a =1, and that m=n=2, the equation can be rearranged to read:

$$R_w = Porosity^2 * R_t$$

Using the log derived values for porosity and resistivity, an R_w of 0.69 is found.

The formation temperature is approximately 178 deg. F

The assumption initially made was that this is a 100% water zone containing no hydrocarbons. This is almost certainly an incorrect assumption. Water data collected from tests indicate that the R_w is in the range of 0.1ohmmeters to an extreme of 0.4 ohmmeters at formation temperature, which corresponds to a salinity of a low of 26,000 to a high of 74,000 ppm, NaCl.

If the calculation of S_w is made using an average of these values for R_w , then S_w calculates to be about 60%. The salinity for this value of R_w is about 10,000 ppm, NaCl.

The possible values for R_w appear to be between 26,000 and 74,000 ppm, NaCl, based on existing water data for the area. The calculation from log data yielding a salinity of 3,500 ppm NaCl based on the assumption of 100 % S_w does not appear to be valid and a salinity of 26,000 or more seems to be more reasonable. An average of these two values is 50,000 ppm NaCl.

Dean R. Jackson Account Manager 713.625.6846 (O) 281.723.5514 (M) 281.259.4472 (H)

email: dean.jackson@bakeratlas.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

10021

10788

T. Oio Alamo ___

T. Cliff House ____

__ T. Menefee___

Southeastern New Mexico

_____ T. Strawn ___

_____ T. Atoka ___

1248

______ T. Canyon ___

____ T. Miss __

___ T. Devonian ___

_ T. Silurian __

T. Anhy __

B. Salt_____

T. 7 Rivers ___

T. Queen ____

T. Salt ___

T. Yates___

Northwestern New Mexico

T. Leadville

T. Point Lookout ______ T. Elbert____

T. Pictured Cliffs ______ T. Perm. "D"_____

____ T. Penn. "B"__

______ T. Madison _____

T. Paddo T. Blinet T. Tubb T. Drink: T. Abo T. Wolfc	andres eta exk bry ard	8225	T. Simpson T. McKee T. Ellenburger T. Gr. Wash T. Delaware Sand T. Bone Springs 2926 T. T.	T. Gall: Base G T. Dake T. Mon T. Todi T. Entre T. Win T. Chir	reenhorn ota rison ada gate le		T. McCracken T. Ignacio Otzte T. Granite T.
			T				T
No. 1, fro No. 2, fro Include d No. 1, fro No. 2, fro	om lata on ra	ate of water	OIL OR GAS S IMPORTANT Inflow and elevation to which water n to to LITHOLOGY RECORD (No. No. No. WATEF ose in hole	3, from 4, from 3 SAND	S feetfeet	•••••••
From	То	Thickness in Feet	Lithology	From	То	Thickness in Feet	Lithology

Jones, William V

From:

RharrisNM@netscape.net

Sent:

Wednesday, January 26, 2005 10:24 AM

To:

WVJones@state.nm.us

Subject:

RE: Ray Westall's SWD Permit for the State G Com #1



Log water salinity.doc

W. Jones

Attached is a letter form Dean Jackson of Atlas Wireline attempting to calculate the NaCl from log caculations.

Randall

```
"Jones, William V" <WVJones@state.nm.us> wrote:
>Randall:
>Wow, that is high. I will look at the Marbob file.
>Would you still look at that log interval that has a lot of separation in
>the deep and shallow Res. readings and see what the log books say?
>----Original Message-----
>From: Randall Harris [mailto:rharrisnm@netscape.net]
>Sent: Thursday, January 06, 2005 1:36 PM
>To: WVJones@state.nm.us
>Subject: Re: Ray Westall's SWD Permit for the State G Com #1
>W Jones:
>The TDS is a combination of Ca, Mg, Na + Cl, SO4 and SO2
>TDS = 38,731 ppm Going to the chart books we would use .70 as the Ca
>multiplier and .38 as the Sulfate multiplier, the equivalent NaCl
>concentration is found as approximately 35,120 ppm.
>Randall
>WVJones@state.nm.us <mailto:WVJones@state.nm.us> wrote:
>I can print this email and place it into the file for this application.
>However, I am rusty on water analysis, tell me what the TDS is of this
>Marbob's Canyon water analysis..
>Thanks,
>Will
>----Original Message-----
>From: Randall Harris [ mailto:rharrisnm@netscape.net
><mailto:rharrisnm@netscape.net> ]
>Sent: Thursday, January 06, 2005 11:21 AM
>To: WVJones@state.nm.us <mailto:WVJones@state.nm.us>
>Subject: Re: Ray Westall's SWD Permit for the State G Com #1
>
>W. Jones:
>I Will look at the log 's . But more info has just come to my attention
>Marbob Energy State HU 30-015-22146 SWD 841, approx 2 miles to the
>northeast of our proposal in Sec. 7 T-19S, R28E is injecting in the same
>interval. Their application has a water analysis in the Canyon by
>Hallburton showing ph 7.5, calcium 3,643, Magnesium 1,588,
>chlorides 32,000, sulfates 1,500, bicarbonates 854. Could I amend our
```

```
>application to refect this info?
>Thank you ,
>Randall
>WVJones@state.nm.us <mailto:WVJones@state.nm.us> wrote:
>Randall:
>will you first look at the resistivity log and send an opinion about the
>"equivalent" NACL TDS of this proposed injection interval. For example, I
>have looked at the log and see a permeable interval with 80 to 100
>ohm-meters of deep resistivity - what does your log book say about the TDS
>of this interval at those resistivities?
>This is an EPA program and the US EPA in the Safe Drinking Water Act says
>protectible waters have less than 10,000 total dissolved solids. If you are
>pulling water from this zone and putting the same or better waters back into
>the zone, there is no problem.
>Regards,
>Will Jones
>----Original Message-----
>From: Randall Harris [ mailto:rharrisnm@netscape.net
><mailto:rharrisnm@netscape.net> ]
>Sent: Tuesday, January 04, 2005 3:26 PM
>To: WVJones@state.nm.us <mailto:WVJones@state.nm.us>
>Subject: Re: Ray Westall's SWD Permit for the State G Com #1
>
>
>Mr. Jones:
>After reviewing all sources I do not believe any water west to the Pecos
>river in the Cisco-Canyon formation is fresher than 10,000 ppm Cl, so
>if you would agree , we will perforate the Canyon in this well swab
>for a water sample and have it tested. If it falls below 10,000 ppm I
>will place on the Docket, if it is above I will file an amendend C-108.
```

```
>
>Respectfully submitted
>Randall L. Harris
>Geologist
>WVJones@state.nm.us <mailto:WVJones@state.nm.us> wrote:
>Hello Randall:
>According to our Rule 701.E(2), you will have to place this on a
>Division hearing dockette for consideration. It cannot be done
>administratively.
>You are applying to inject, for SWD purposes, highly saline waters
>into the Canyon in Eddy County, and the Canyon is likely less than
>10,000 tds.
>Please contact your attorney and supply Florene Davidson in this
>office with an application and ad to place on the dockette.
>If, after reading this administrative application, my conclusions are
>incorrect, please send a letter of explanation.
>Regards,
>William V. Jones
                                 Engineering Bureau
> <http://www.emnrd.state.nm.us/ocd/Bureaus/Engineering/engineer.htm>
><http://www.emnrd.state.nm.us/ocd/Bureaus/Engineering/engineer.htm>
                Oil Conservation Division
> <http://www.emnrd.state.nm.us/ocd/> <http://www.emnrd.state.nm.us/ocd/>
>Santa Fe
> <http://www.emnrd.state.nm.us/ocd/general/SFdirectory.htm>
><http://www.emnrd.state.nm.us/ocd/general/SFdirectory.htm>
>Confidentiality Notice: This e-mail, including all attachments is for
>the sole use of the intended recipient(s) and may contain confidential
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