DATE	5/8/06 3/2 SUSPENS	Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [C-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] - Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] - F APPLICATION - Check Those Which Apply for [A] - A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD - Check One Only for [B] or [C] - B] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM - CI Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR - D] Other: Specify CATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
100	1,5/06	(1,30)
		1/00
	1	
		NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505 ADMINISTRATIVE APPLICATION CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE IN MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE IN MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE IN MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION RULES AND REGULATIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION RULES AND REGULATIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING REGULATIONS TO DIVISION RULES AND REGULATIONS WHICH PROVIDED RESULTS AND REGULATIONS TO DIVISION RULES AND REGULATIONS WHICH PROVIDED RESULTS AND REGULATIONS REGULATIONS REGULATIONS WHICH PROVIDED RULES AND REGULATIONS WHICH PROVIDE
	,	ADMINISTRATIVE APPLICATION CHECKLIST
	THIS CHECKLIST IS M	
Appl	ication Acronym	
	[NSL-Non-Star	
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	[EOR-Qua	
C17	TOWNE OF AR	DI ICATEIONI Chaola Thosa Which Apply for [A]
[1]	[A]	
	[, ,]	
	CI I	0 0 1 6 FB1 FG1
	[D]	
	-	
	[C]	
		☐ WFX ☐ PMX [X] SWD ☐ IPI ☐ EOR ☐ PPR
	[D]	Other: Specify
[2]	NOTIFICAT	ION REQUIRED TO: - Check Those Which Apply or Does Not Apply
[~]	[A]	

	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI BOR PPR
	[D]	Other: Specify
[2]	NOTIFICATI [A]	ON REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners
	[B]	Offset Operators, Leaseholders or Surface Owner
	[C]	Application is One Which Requires Published Legal Notice
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name	Signature	Title	Date
		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

3	0-015-26625	APPLIC	CATION FOR	AUTHOR	IZATION TO IN.	JECT	N	Iary AIV State #1
I.	PURPOSE: Application qu	Secondary alifies for administrativ		P	essure Maintenand Yes	ce X_No	Disposal	Storage
II.	OPERATOR:	Yates Petroleum C	orporation					
	ADDRESS: _	105 South 4 th Street					PHONE:(505) 748-4165 d for injection. with a one-half mile radius circle the proposed injection zone. h, record of completion, and a mation if other than reinjected mile of the proposed well, attach a misting literature, studies, nearby cologic name, thickness, and or (aquifers containing waters with me as well as any such sources ion, they need not be resubmitted). oducing) within one mile of any able geologic and engineering all zone and any underground rect to the best of my knowledge Engineer	
	CONTACT PA	ARTY: _ Margrethe Hot	tter				PHONE	: <u>(505) 748-4165</u>
III.	WELL DATA	: Complete the data requ Additional sheets may			this form for each	well propose	ed for injection	
IV.	Is this an expanding If yes, give the	nsion of an existing pro Division order number	ject? authorizing the	Yes e project:	XNo			2006
V.		hat identifies all wells a each proposed injection					with a one-hal	
VI.	Such data shall		of each well's ty	pe, construc			h, record of co	injection zone.
VII.	Attach data on	the proposed operation	, including:					
	 Whether th Proposed a Sources an produced of If injection 	water; and, a is for disposal purpose analysis of the disposal a	sed; njection pressu is of injection f s into a zone no	re; fluid and cor	npatibility with the	within one n	rmation if othe	er than reinjected
*VIII	depth. Give the total dissolved	ne geologic name, and d	epth to bottom of 10,000 mg/l	of all under or less) over	ground sources of	drinking wate	er (aquifers co	ntaining waters with
IX.	Describe the p	roposed stimulation pro	gram, if any.					
*X.	Attach approp	riate logging and test da	ta on the well.	(If well log	s have been filed w	ith the Divis	ion, they need	not be resubmitted)
*XI.	Attach a chemi injection or dis	cal analysis of fresh wa posal well showing loca	ater from two or	r more fresh nd dates san	water wells (if ava	ilable and pr	oducing) with	in one mile of any
XII.	Applicants for data and find sources of dri	no evidence of open fau	ake an affirmat alts or any othe	rive statemer r hydrologic	nt that they have ex connection betwee	amined avail en the dispose	able geologic al zone and an	and engineering y underground
XIII.	Applicants mu	st complete the "Proof of	of Notice" secti	ion on the re	verse side of this fo	orm.		
XIV.	Certification: land belief.	hereby certify that the	information su	bmitted with	this application is	true and cor	rect to the best	t of my knowledge
	NAME: Ma	rgrethe Hotter	1	101	TITLE:	Operations	Engineer	·
	SIGNATURE	Maple	I H	other		DATE	: <u>4/11/06</u>	
*	E-MAIL ADD If the informati Please show the	RESS:ho ion required under Secti e date and circumstance	ons VI, VIII, X s of the earlier	LAPCE , and XI about submittal:			ted, it need not	
DIST	RIBUTION: Or	iginal and one copy to S	Santa Fe with or	ne copy to th	e appropriate Distr	rict Office		

C-108 Application for Authorization to Inject Yates Petroleum Corporation Mary AIV St #1

Unit G, 1980 FNL & 1980 FEL, Sec.36, T21S, R31E Eddy County, New Mexico

I. The purpose of completing this well is to make a disposal well for produced Delaware Sand water into the Delaware Sand formation.

Yates Petroleum Corporation plans to convert this well to a water disposal well into the Delaware Sand.

II. Operator:

Yates Petroleum Corporation

105 South Fourth Street

Margrethe Hotter (505) 748-4165

III. Well Data:

See Attachment A

Artesia. NM 88210

- IV. This is not an expansion of an existing project.
- V. See attached map, Attachment B.
- VI. 8 wells within the area of review penetrate the proposed injection zone. (See Attachment C)
- VII. 1. Proposed average daily injection volume approximately 7500 BWPD. Maximum daily injection volume approximately 8800 BWPD.
 - 2. This will be a closed system.
 - 3. Proposed average injection pressure –unknown. Proposed maximum injection pressure –1323 psi.
 - 4. Sources of injected water would be produced water from the Delaware Sand. (Attachment D)

VIII. 1. The proposed injection interval is the portion of the Delaware Sand formation consisting of porous Sandstone from estimated depths of 6614'-8325'.

- 2. There are no fresh water zones overlying or underlying the proposed injection formations. The closest fresh water source is about 4 miles to the south west in Sec.16, T22S, R30E, with a water depth of 448'.
- IX. The proposed disposal interval may be acidized with 7-1/2% HCL acid, or proppant fractured.
- X. Logs were filed at your office when the well was drilled.
- XI. There are no windmills or fresh water wells within a one-mile radius of the subject location.
- XII. Yates Petroleum Corporation has examined geologic and engineering data and has found that there is no evidence of faulting in the proposed interval. (Attachment G)
- XIII. Proof of notice.
 - A. Certified letters sent to the surface owner and offset operators attached (Attachment E)
 - B. Copy of legal advertisement attached. (Attachment F)
- XIV. Certification is signed.

Yates Petroleum Corporation Mary AIV St #1 G-36-T21S-R31E Eddy County, New Mexico

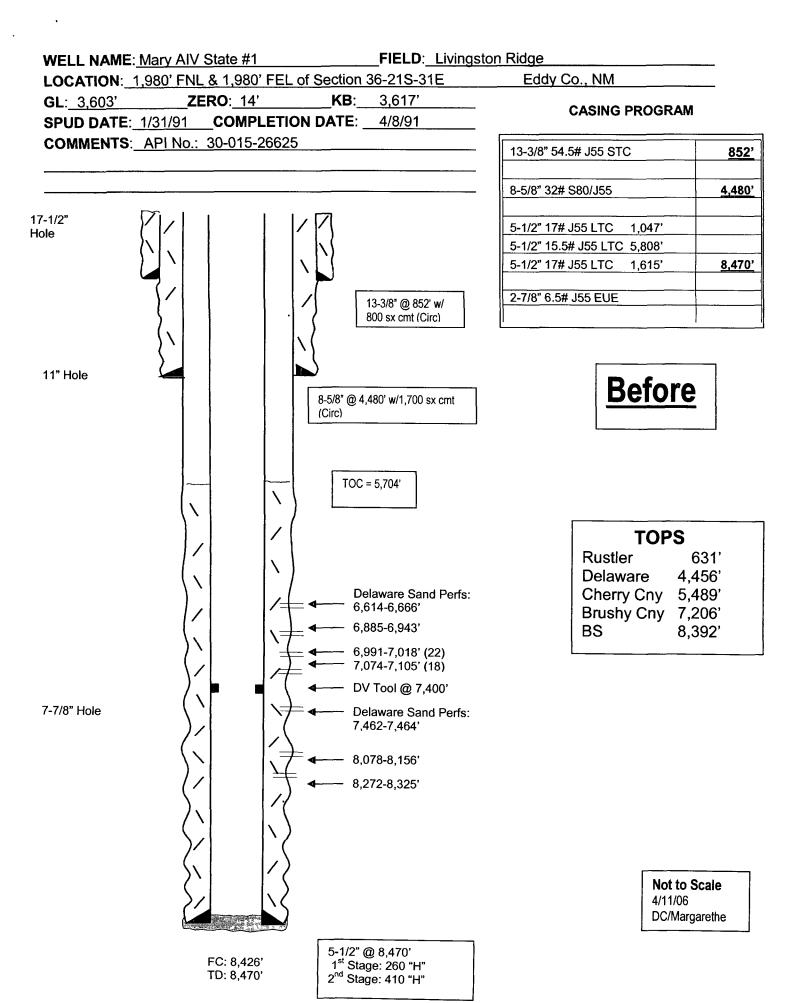
Attachment A

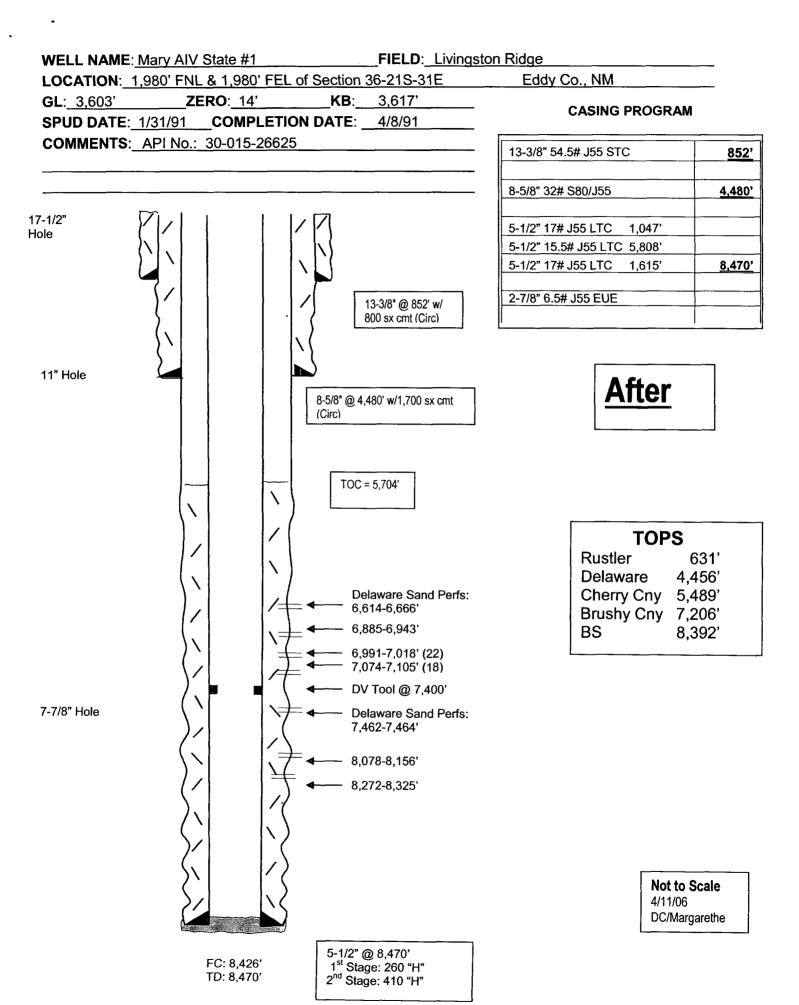
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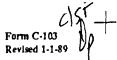
A. 1. Lease Name/Location Mary AIV St #1 G-36-T21S-R31E 1980' FNL & 1980' FEL

2. Casing Strings:

- a. Present well condition
 13 3/8", 54.5# J-55 @ 852 w/800 sx (circ)
 8 5/8", 32# S80/J-55 @ 4480' w/1800 sx (circ).
 5 ½", 17#, 15.5# @ 8470' w/670 sx
- b. Present Status:
 Non-commercial completion in Delaware at 6614'-6666', 6885'-6943', 6991'-7018', 7074'-7105', 7462'-7464', 8078'-8156', 8,272'-8,325".
- Proposed well condition:
 Casing same as above.
 3 ½" 9.3 J55 or 2-7/8" 6.5 J55 plastic-coated injection tubing @ 6585'
- 4. Propose to use Guiberson or Baker plastic-coated or nickel-plated packer set at 6585'.
- B. 1. Injection Formation: Delaware Sands
 - 2. Injection Interval will be through perforations from approximately 6614'-8325' gross interval.
 - 3. Well was originally drilled as a Delaware Sand oil well. Well will be Delaware Sand water disposal well (6614'-8325') when work is completed.
 - 4. Perforations: High porosity sands between 6614'-8325'.
 - 5. Next higher (shallower) oil or gas zone within 2 miles-None. Next lower (deeper) oil or gas zone within 2 miles-Atoka.







State of New Mexico Submit 3 Copies Energy, Minerals and Natural Resources Department to Appropriate District Office DISTRICTA OIL CONSERVATION DIVISION WELL API NO. P.O. Box 1980, Hobbs, NM 88240 P.O. Box 2088, 30-015-26625 Santa Fe, New Mexico 87504-2088 **DISTRICT II** P.O. Drawer DD, Artesia, NM 88210 5. Indicate Type of Lease STATE X FEE 🔲 APR 1 1 1991 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 6. State Oil & Gas Lease No. O C. D. LG 9280 SUNDRY NOTICES AND REPORTS ON WELLS SIA, OFFICE (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A 7. Lease Name or Unit Agreement Name DIFFERENT RESERVOIR, USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Mary AIV State METT X WELL T OTHER 2. Name of Operator 8. Well No. YATES PETROLEUM CORPORATION (505) 748-1471 3. Address of Operator 9. Pool name or Wildcat 105 South 4th St., Artesia, New Mexico 88210 Livingston Ridge Delaware Well Location G: 1980 Feet From The North _ Line and _____ Feet From The _ East Line Township 21S 31E Eddy Section Range **NMPM** County 10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3603' GR Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data 11. NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK **ALTERING CASING TEMPORARILY ABANDON CHANGE PLANS** COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT **PULL OR ALTER CASING** CASING TEST AND CEMENT JOB OTHER:8-5/8" & 5-1/2" Casing, Perforate, Trt X OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. 3-16-91. Ran 104 jts 8-5/8" 32# S-80 & J-55 casing set 4480. Guide shoe set 4480', float collar set 4441'. Cmt'd w/1500 sx "C" Lite, 10#/sx salt, 1/4#/sx Celloseal (yield 1.94, wt 12.9). Tail in w/200 sx "C", 1% CaCl2 (yield 1.32, wt 14.8). PD 4:47 AM 3-17-91. Bumped plug to 2100 psi, held OK. Circulated 300 sx. WOC. Drilled out 5:30 AM 3-18-91. WOC 24 hrs and 45 mins. NU and test to 1000 psi for 30 minutes. Reduced hole to 7-7/8", resumed drilling. TD 8470'. Reached TD 5:00 AM 3-27-91. Ran 198 jts $5\frac{1}{2}$ " 17# & 15.5# J-55 LT&C casing set 8470'. Float shoe set 8470', float collar set 8426'. DV tool set 7400'. Cmt'd in 2 stages. Stage 1: 260 sx "H" w/5#/CSE, .7% CF-14, 10# Gilsonite (yield 1.45, wt 14.46). PD 5:00 PM 3-28-91. Circulate thru DV tool 2 hrs. Stage 2: 410 sx "H" w/5# CSE, .7% CF-14, 10#/sx Gilsonite (yield 1.46, wt 14.46). PD 8:10 PM 3-28-91 with 2250 psi for 15 minutes. Bumped plug to 1200 psi for 15 minutes. WOC 18 hrs. Drilled out DV toolat 7400'. Perforated 7074-7105' w/18 .41" holes as follows: 7074, 78, 80, 87, 90, 94, 96, 7104 and 7105'. Treated perfs 7074-7105' w/2000 g. 7½% NEFE acid. Frac'd perfs w/7500g. 40# X-link gel + 22500# 20/40 sand. Perforated 6991-7018' w/22 - .41" holes as follows: 6991, 94, 95, 7000, 01, 06, 07, 08, 16, 17 and 7018', I hereby certify that the information above is true and complete to the best of my knowledge and belief. (2 SPF). Acidized perfs w/2000 g. 7½% NEFE. Frac'd perfs w/7500g. 40# X-link+22500# 20/40 sd.

Production Supervisor

Pare 4-9-91 valleti Ceruta SIONATURE __ DATE __4-9-91

APR 1 0 1991 MIKE WILLIAMS APPROVED BY-TITLE . SUPERVISOR, DISTRICT IF CONDITIONS OF APPROVAL, IF ANY:

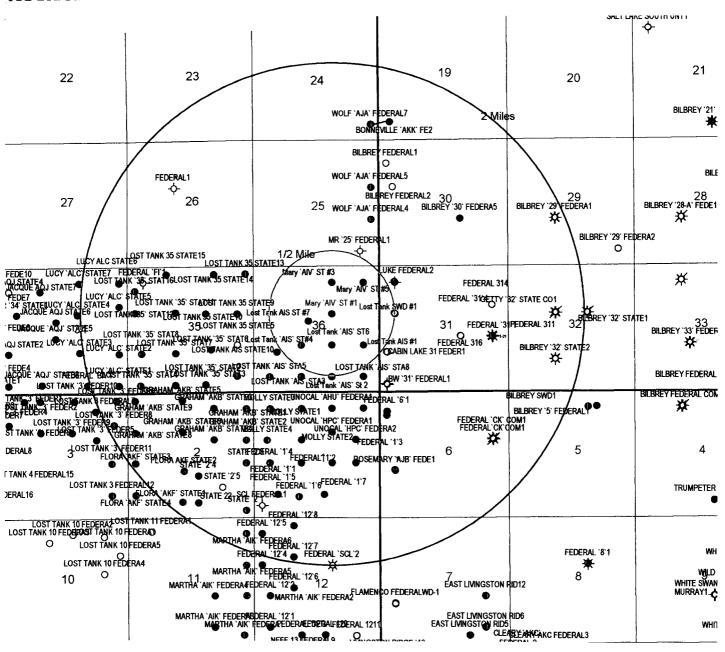
TYPEOR PRINT NAME Juanita Goodlett

ORIGINAL SIGNED BY

(This space for State Use)

TELEPHONE NO. 505/748-1471

ATTACHMENT B



У А Т	ESPETROI	LEUM
	MARYAIV STATE #	1
Author: Debbie Chavez M.Hotter		Date: 14 A pril, 2006

Mary AIV State No. 1 Form C-108

Tabulation of data on wells within area of review

Completion Information	/ 13 3/8" @ 850'. Cmtd w/ 750 sx. 8 5/8" @ 4442' Cmtd w/ 1700 sx. 5 1/2" @ 8500' Cmtd w/ 1000 sx. TOC @ 4470	13 3/8" @ 850'. Cmtd w/ 850 sx. 8 5/8" @ 4260'. Cmtd w/ 1600 sx. 5 1/2" @ 8557'. Cmtd w/ 1450 sx. TOC @ Surface	13 3/8" @ 869'. Cmtd w/ 850 sx. 8 5/8" @ 4270'. Cmtd w/ 1675 sx. 5 1/2" @ 8550'. Cmtd w/ 1525 sx. TOC @ Surface	13 3/8" @ 850'. Cmtd w/ 850 sx. 8 5/8" @ 4175'. Cmtd w/ 2225 sx. 5 1/2" @ 8450'. Cmtd w/ 1675 sx. TOC @ Surface	13 3/8" @ 868'. Cmtd w/ 850 sx 8 5/8" @ 4240'. Cmtd w/ 1600 sx. 5 1/2" @ 8610'. Cmtd w/ 1850 sx. TOC @ Surface	13 3/8" @ 865'. Cmtd w/ 700 sx. 8 5/8" @ 4220'. Cmtd w/ 1585 sx. 5 1/2" @ 8500'. Cmtd w/ 980 sx. TOC @ 5533'	13 3/8" @ 850'. Cmtd w/ 700 sx. 8 5/8" @ 4200'. Cmtd w/ 1300 sx. 5 1/2" @ 8508'. Cmtd w/ 1550 sx. TOC @ 5494'	13 3/8" @ 829'. Cmtd w/ 750 sx. 8 5/8" @ 4302'. Cmtd w/ 1050 sx. 5 1/2" @ 8103'. Cmtd w/ 1595 sx. TOC @ Surface
Perforations	7103-7140', 7013-35', 8080-8127', 7705-07' 7462-64', 7361-72', 6647-83'	6695-6712', 6798-6802', 6940-54', 7072-75', 8238-47', 8434-43'	7148-7208', 8382-8406'	6978-83', 7051-82', 8277-94'	7057-97', 8299-8346', 8449-68' CIBP @ 8425' + 35' cmt	8288-8306', 8322-26', 7508-16', 7664-68', 7794-97', 7860-64', 6834-52', 6868-74', 6940-50'	6780-6810', 6840-48', 7042-50', 7818-28', 8240-56'	5296-6012' CIBP @ 6350'. Cmtd w/ 4 sx
Producing Zone	Delaware	Delaware	Delaware	Delaware	Delaware	Delaware	Delaware	Delaware
Total Depth	8500	8565'	8550'	8450'	8610'	8500,	8508'	8364'
Spud	5/20/1991	12/13/1991	12/7/1991	11/19/1991	11/5/1991	5/21/2003	2/20/2003	11/12/1991
Type	ō	ō	ō	ō	ō	ē	ō	SWD
Operator	Yates Petroleum Corp	Yates Petroleum Corp	Yates Petroleum Corp	Yates Petroleum Corp	Yates Petroleum Corp	Yates Petroleum Corp	Yates Petroleum Corp	Penroc Oil Corporation SWD 11/12/1991
Well Name	Mary AIV State #3 660' FNL & 1980' FEL Sec 36-21S-31E	Mary AIV State #5 660' FNL & 330' FEL Sec. 36-21S-31E	Lost Tank AIS St #1 1980' FSL & 660' FEL Sec. 36-21S-31E	Lost Tank AIS St#4 1980' FSL & 1980' FWL Sec. 36-21S-31E	Lost Tank AIS St #6 1980' FSL & 1980' FEL Sec. 360-21S-31E	Lost Tank AIS St #7 2310' FNL & 2310' FWL Sec. 36-21S-31E	Lost Tank AIS St #10 1650' FSL & 990' FWL Sec. 36-21S-31E	Lost Tank SWD #1 1980' FNL & 660' FWL Sec. 31-21S-32E

ATTACHMENT D

TRETOLITE® **Chemicals and Services**



16010 Barker's Point Lane • Houston, Texas 77079 713 558-5200 • Telex: 4620346 • FAX: 713 589-4737

Reply to: P.O. Box FF

Artesia, New Mexico 88210 (505) 746-3588 Phone (505) 746-3580 Fax

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
Address : ARTESIA, NM
Lease : MARY
Well : BATTERY

Date : 10/24/91 Date Sampled : 10/24/91 Analysis No. : 009

Sample Pt. : HEATER

	ANALYSIS		mg/L		* meq/L
1. 23. 4. 56. 78. 9.	pH 5.5 H2S 0 Specific Gravity 1.190 Total Dissolved Solids Suspended Solids Dissolved Oxygen Dissolved CO2 Oil In Water		285759.5		
10. 11. 12. 13. 14. 15. 16. 17.	Magnesium Sodium (calculated) Iron Barium Strontium	aCO3) O3) HCO3 C1 SO4 Ca Mg Na Fe Ba Sr	49.0 179133.0 200.0 28240.0 6479.5 71633.0 0.0 25.0 0.0 97200.0	HCO3 C1 SO4 Ca Mg Na	0.8 5053.1 4.2 1409.2 533.1 3115.8

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound Equiv wt	X meq/L	= mg/L
1409 *Ca < *HCO3 1 /> 533 *Mg> *SO4 4	Ca(HCO3)2 81.0 CaSO4 68.1 CaCl2 55.5 Mg(HCO3)2 73.2	0.8 4.2 1404.2	65 283 77920
3116 *Na> *Cl 5053 Saturation Values Dist. Water 20 C	MgSO4 60.2 MgCl2 47.6 NaHCO3 84.0	533.1	25377
CaCO3 13 mg/L CaSO4 * 2H2O 2090 mg/L BaSO4 2.4 mg/L	Na2SO4 71.0 NaCl 58.4	3115.8	182089

REMARKS:

L. MALLETT / MLAB / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted, STEVE TIGERT

Permian Treating Chemicals

WATER ANALYSIS REPORT



AMPLE

Jil Co. : Yates Petroleum Lost Tank "AIS" St. Lease:

Well No .:

Location: Attention: Date Sampled: 20-October-2003 Date Analyzed: 03-November-2003 Lab ID Number: Nov0303.001-10

Salesperson:

95,335

0.001 /cm.

File Name: F:\ANALYSES\Nov0303.001

ANALYSIS

1.	Ph	5.720
2.	Specific Gravity 60/60 F.	1.218

@ 80F CACO3 Saturation Index 2,449

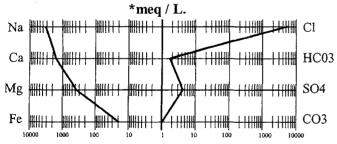
3.	CACO3 Saturation	midex	@140F	2.889			
Ī	Dissolved Gasses			MG/L.	EQ. WT.	*MEQ/L	
4. 5. 6.	Hydrogen Sulfide Carbon Dioxide Dissolved Oxygen			Not Present Not Determined Not Determined			
9	Cations						
7.	Calcium	(Ca++)		31,062	/ 20.1 =	1,545.37	
8.	Magnesium	(Mg++)		4,315	/ 12.2 =	353.69	
9.	Sodium	(Na+)	(Calculated)	71,091	/ 23.0 =	3,090.91	
10.	Barium	(Ba++)		Below 10			
A	<u> Inions</u>						
11.	Hydroxyl	(OH-)		0	/ 17.0 =	0.00	
2.	Carbonate	(CO3=)		0	/ 30.0 =	0.00	
13.	Bicarbonate	(HCO3-)		103	/ 61.1 =	1.69	
14.	Sulfate	(SO4=)		200	/ 48.8 =	4.10	
15.	Chloride	(Cl-)		176,960	/ 35.5 =	4,984.79	
16.	Total Dissolved Sol:	ids		283,731			
17.	Total Iron	(Fe)		338	/ 18.2 =	18.54	

17.

18. Total Hardness as CaCO3

19. Resistivity @ 75 F. (Calculated)

LOGARITHMIC WATER PATTERN



380 —	Calcium	Junace	Soldo	1111	101110	
372						
364						
356						
348						
340					$-\lambda$	
332					-	
324						\
316						\rightarrow
308						
300		-+-				
Temp P. 50	70	90	110	130	150	1

PROBABLE MINERAL COMPOSITION

THOUSE WILL ENGINE COMM CONTROL					
COMPOUND	EQ. WT.	X *meq/L	= mg/L		
Ca(HCO3)2	81.04	1.69	137		
CaSO4	68.07	4.10	279		
CaCl2	55.50	1,539.59	85,447		
Mg(HCO3)2	73.17	0.00	0		
MgSO4	60.19	0.00	0		
MgCl2	47.62	353.69	16,843		
NaHCO3	84.00	0.00	0		
NaSO4	71.03	0.00	0		
NaCl	58.46	3,091.51	180,730		

L GE AT	TTACHMENT E		OMPLETE THIS SECTION ON DELIVERY Signature
For delivery into	so that we can return the card to you. Attach this card to the back of the ma or on the front if space permits.	i	B. Received by (Printed Narrie) C. Date of Delivery
Certified F	Article Addressed to:		D. Is delivery address different from item 1? Yes
(Endorsement Requir Restricted Delivery F (Endorsement Requir	Penroc Oil Corporation P.O. Box 2769		
Total Postar Sent To PO	Hobbs NM 88241		3. Service Type ☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise
Street, Apt. Nor PO Box No Hob)		☐ Insured Mail ☐ C.O.D. 4. Restricted Delivery? (Extra Fee) ☐ Yes
PS Form 3800;June	Article Number (Transfer from service label)	7006	0100 0003 9638 6896
	PS Form 3811, February 2004 HODDS, NM 88241	Domestic Ret	urn Receipt 102595-02-M-1540

Gentlemen;

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates Petroleum Corporation Mary AIV St #1 located in Unit G, Section 36-T21S-R31E of Eddy County New Mexico.

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

Should you have any questions, please feel free to contact me at (505) 748-4165.

Singerely,

Margrethe F. Hotter Area Engineer

Enclosure

(Domestic Mail Orily N	SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3 Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	B. Received by (Printed Name) C. Date of Deliver	S. P. YATES NIRMAN OF THE BOARD PRESIDENT PRESIDENT PEYTON YATES UTIVE VICE PRESIDENT 'DY G. PATTERSON
Certified Fee	1. Article Addressed to:	D. Is delivery address different from item 1? Yes If YES, enter delivery address below: No	SECRETARY ENNIS G. KINSEY TREASURER
Endorsement Required) Restricted Delivery Fee Endorsement Required)	Jim Amos Bureau of Land Management		
Total F Jim Amos ent To Bureau of Land tiest A620 E. Greene	620 E. Greene Street Carlsbad, New Mexico 88220-6292	3. Service Type ☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandis ☐ Insured Mail ☐ C.O.D.	e
iiv, šia Carlsbad, New _	Mary A±U S+ #1 2. Agticle Number 200	4. Restricted Delivery? (Extra Fee) Yes	_
S.Form 3800. June 2002	(Transfer from service label) PS Form 3811, February 2004 Domestic Return 2004	JL 0100 0003 9638 6902	40
	620 E. Greene St Carlsbad, New Mexico 88220-6292		
	Dear Mr. Amos,		
	Enclosed please find a copy of form Inject) on Yates Petroleum Corpora Section 36-T21S-R31E of Eddy Cor	ition Mary AIV St #1 located in Unit	
	Should you have any questions, ple 748-4165.	ease feel free to contact me at (505))

MacHue Terft Margrethe F. Hotter Area Engineer

Enclosure

Postage \$ Certified Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Total F Mr Pete Mari Sent To State of New Street, A Commissions	P.O. Box 1148 Santa Fe. NM 87504-1148	B. Received by / Printed Name) C.	☐ Agent ☐ Addressee Date of Delivery ? ☐ Yes ☐ No	S. P. YATES CHAIRMAN OF THE BOARD JOHN A. YATES PRESIDENT PEYTON YATES XECUTIVE VICE PRESIDENT ANDY G. PATTERSON SECRETARY DENNIS G. KINSEY TREASURER
or POBIP O Box 114	himid Atta #1	4. Restricted Delivery? (Extra Fee)	☐ Yes	-
City, Sia Santa Fe. NN PS:Form:3800, June 2002	Article Number (Transfer from service label)	7004 1350 0005 3317 9727		-
Apr	PS Form 3811, February 2004 Dom	nestic Return Receipt	102595-02-M-1540	

Mr. Pete Martinez State of New Mexico Commissioner of Public Lands P.O. Box 1148 Santa Fe, New Mexico 87504-1148

Re: Mary AIV State #1

Dear Mr. Martinez:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates Petroleum Corporation Mary AIV State #1 located in Unit G, Section 36-T21S-R31E of Eddy County, New Mexico.

If you have any questions or need additional information, please call me at (505) 748-4165.

Sincerely,

Margrethe F. Hotter Area Engineer

Enclosures

Postage Certified Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required)	SENDER: COMPLETE THIS SECTION. Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: Pogo Producing Company	A. Signature GEE B. Received by (Printed Name) D. Is delivery address different from item 1 If YES, enter delivery address below:	☐ Agent ☐ Addressee Date of Dalivery	S. P. YATES CHAIRMAN OF THE BOARD JOHN A. YATES PRESIDENT PEYTON YATES EXECUTIVE VICE PRESIDENT RANDY G. PATTERSON SECRETARY DENNIS G. KINSEY TREASURER
Total Post Sent To Pogo Pic P.O. Box Street, Apt. Houston, City, State,	m = ==================================	3. Service Type Certified Mail Registered Return Receipt Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee)	for Merchandise	
PS/Form;3800; June;2002	2. Article Number (Transfer from service labe 7006 0101	P884 8E4F E000 C		
T S S S S S S S S S S S S S S S S S S S	PS Form 3811, February 2004 Domestic Re Houston, TA 252-2504	eturn Receipt	102595-02-M-1540	

110000011, 17

Gentlemen;

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates Petroleum Corporation Mary AIV St #1 located in Unit G, Section 36-T21S-R31E of Eddy County New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4165.

Sincerely,

Margrethe F. Hotter

Area Engineer

Enclosure

My Commission expires

Affidavit of Publication 19239 STATE OF NEW MEXICO County of Eddy: being duly Gary D. Scott **Publisher** of The sworn, says: That he is the Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and county and state, and that the here to attached **Legal Notice** was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 Consecutiv week/days on the same day as follows: 2006 First Publication April 30 Second Publication Third Publication Fourth Publication Subscribed and sworn to before me this Day 2006 2nd May Notary Public, Eddy County, New Mexico

September : 23, 2007

Copy of

LEGAL NOTICE:

Legal Notice Yates Petroleum Corporation, 105 south Fourth Street, Artesia, MM 88210, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well the Mary AIV St #1 located 1980' FNL & 1980' FEL, Unit G, Section 36, 21 South. Township Range 31 East of Eddy County, New Mexico, will be used for saltwater disposal. Produced waters from the Delaware Sand will be re-injected into the Delaware Sand at a depth of 6614'-8325' with a maximum pressure of 1323 psi and a maximum rate of 8800 BWPD. All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505-5472. within 15 days. Additional information can be obtained by contacting Margrethe Hotter at (505) 748-4165. C-108 Application for Authorization to Inject Yates Petroleum Corporation Mary AIV St #1 Unit 6, Section 36, T21S-R31E Eddy County, New Mexi-Available engineering and geological data have been examined and no evidence of open faults of hydrologic connection between the disposal zone and any underground sources of drinking water has been found. Ray Podany Geologist Yates Petroleum Corporation Published in the Artesia Daily Press, Artesia, N.M. April 30, 2006. Legal 19239

Attachment G

C-108 Application for Authorization to Inject Yates Petroleum Corporation Mary AIV St #1 Unit 6, Section 36 T21S-R31E Eddy County, New Mexico

Available engineering and geological data have been examined and no evidence of open faults of hydrologic connection between the disposal zone and any underground sources of drinking water has been found.

4/21/2006 Date

Ray Podany

Geologist

Yates Petroleum Corporation

MARTIN YATES, III 1912 - 1985 FRANK W. YATES 1936 - 1986



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (505) 748-1471

April 21, 2006

William Jones New Mexico Energy & Minerals Department Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

Dear Mr. Jones,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates Petroleum Corporation Mary AIV St #1 located in Unit G, Section 36-T21S-R31E of Eddy County New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4165.

Sincerely

Margrethe F. Hotter

Area Engineer

Enclosure

S. P. YATES CHAIRMAN OF THE BOARD

JOHN A. YATES PRESIDENT

PEYTON YATES EXECUTIVE VICE PRESIDENT RANDY G. PATTERSON

> DENNIS G. KINSEY TREASURER

MARTIN YATES, III 1912 - 1985 FRANK W. YATES 1936 - 1986



105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY

DENNIS G. KINSEY

May 24, 2006

Will Jones State of New Mexico OIL CONSERVATION DIVISION 1220 South Saint Francis Drive Santa Fe, NM 87505

Re: Mary AIV State #1

Dear Mr. Jones,

Please find enclosed the additional information that you requested for the C-108 for the Mary AIV State #1.

If you have any questions or need additional information, please call me at (505) 748-4361.

Sincerely,

Debbie Chavez

Engineering Technician

Enclosures

To:

Margrethe Hotter

From:

George Freeman, Reservoir Engineering Supervisor, Yates Petroleum Corp.

Copies:

Bloget Jacobin Stall Pinson McWhorter, Dave Boneau, Carolyn Yates, Ray Stall

Subject:

Reservoir Engineering Comments on Proposed SWD in Mary AIV St. #1

Cumulative production through March 2006 from the Mary AIV St. #1 is 61,000 stbo, 59,000 mcf and 229,000 bw, which represents a reservoir volume of 320,000 bbl. Future water injection into the productive interval up to this cumulative amount could be considered to be refilling the volume drained by the same well. Cumulative water injection above this amount would be expected to partially fill the volume drained by other surrounding wells.

Yates Petroleum Corporation operates the six wells which directly offset the Mary #1. These wells all produce from the same intervals proposed for SWD. The cumulative production from the six wells is 232,000 stbo, 705,000 mcf and 1,500,000 bw, equivalent to 2,100,000 bbl. reservoir volume.

Water injection into the drainage area of the six wells would increase the reservoir pressure and cause the total fluid production rates to increase. The effect that this would have on the ultimate oil and gas recovery is uncertain but would probably be positive, based on a limited amount of special core analysis data that shows a favorable mobility ratio. Eventually the water cuts of the producing wells would increase.

Since the water that is proposed for disposal is produced from the same formation, water compatibility should not be an issue.

Please let me know if you need more information.

GHF

Jones, William V., EMNRD

From:

Jones, William V., EMNRD

Sent:

Friday, May 19, 2006 4:21 PM

To:

'Margrethe Hotter'

Cc:

Ezeanyim, Richard, EMNRD; Barton, Van, EMNRD

Subject: RE: SWD application: Mary AIV State Well No. 1 30-015-26625

Tracking: Recipient

Read

'Margrethe Hotter'

Ezeanyim, Richard, EMNRD Read: 5/22/2006 8:25 AM

Barton, Van, EMNRD

Hello Margrethe:

Sorry to have used the term "waste" water. I have been around government too long I think. EPA calls salt water disposal, disposal of oil field waste water. I know you are only re-injecting the yukky Delaware water.

The reason I am asking for a reservoir engineer's opinion on this is one of my duties here is to prevent waste of oil and gas in the reservoirs. If the Delaware is producing in this area and you are wanting to inject water into the Delaware then it is possible the salt water will cause "waste of oil and gas resources". Reservoir engineers look at not only the comparison of intervals that are being used (is the injection perforations at the same depths as the producing intervals in offset wells) but also they look at mobility ratios which comparies the permeability and viscosity of the injected water with the permeability and viscosity of the oil in the Delaware. In other words, will the injected water, "water-out" the Delaware or will it be neutral or will it actually help sweep oil to one of the producing wells?

Heads up on another subject: Please have one of your field people check the bradenhead of this well for any continuous flow. Since you have an offset injection well in the Bell Canyon (permitted in 1992) that may be hitting your wellbore and moving up, it is possible that you have a bradenhead problem, even if it is not your fault.

I will write the permit such that any problem of the bradenhead be solved prior to injection.

Thank You,

William V. Jones

Engineering Bureau

Oil Conservation Division

Santa Fe

From: Margrethe Hotter [mailto:mhotter@YPCNM.COM]

Sent: Friday, May 19, 2006 4:01 PM

To: Jones, William V., EMNRD

Subject: RE: SWD application: Mary AIV State Well No. 1 30-015-26625

Hello Mr. Jones,

I am sorry, but I have to bother you with a question.

In your question to our reservoir engineer you ask:" what effect injecting waste water into....".

I have been asked to clarify with you, if you with waste water mean produced water? This is the first water disposal well I am involved with so I may have not been too clear. The plan is to bring water in from some of our other leases in the area to dispose into this well, but all the produced water will be from the same Delaware formation. We will not take water from other operators (it is hard enough finding enough disposal for our own Delaware water) nor will we dispose water from other formations.

If you have time to clarify that I would truly appreciate it.

Have a wonderful weekend!!!!!

Regards,

Margrethe Hotter

----Original Message----

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Wednesday, May 10, 2006 3:16 PM

To: Margrethe Hotter

Subject: RE: SWD application: Mary AIV State Well No. 1 30-015-26625

Margrethe:

Thank you for your immediate attention to this.

Also, thanks for the explanation of the Bell Canyon - I am not experienced in the Delaware, so any new knowledge is great.

I will wait for your proof of notice and engineer's explanation.

Regards,

William V. Jones

Engineering Bureau

Oil Conservation Division

Santa Fe

From: Margrethe Hotter [mailto:mhotter@YPCNM.COM]

Sent: Wednesday, May 10, 2006 1:57 PM

To: Jones, William V., EMNRD

Cc: Ezeanyim, Richard, EMNRD; Duran-Saenz, Theresa, EMNRD; Arrant, Bryan, EMNRD; Sanchez, Daniel J., EMNRD

Subject: RE: SWD application: Mary AIV State Well No. 1 30-015-26625

Hello Mr. Jones.

1), 2), 3a)

I will find who the nearest Potash Lessee is, notify them and send proof of notice to Santa Fe. I will at the same time send a CBL on the 5 ½" casing and an explanation letter from our reservoir engineer concerning the effect injecting produced water into the formation.

3b).

The interval 4570-4700 is in the Bell Canyon formation. We have never produced from or injected into this interval. Penroc's disposal well that is within the AOI, the Lost Tank SWD #1 got the approval to dispose into this interval, 4615'-6012' on May 27th 1992 (Administrative order SWD-475), but according to the public information available they only perforated and is injecting into the interval 5296'-6012'.

Thank you,

Margrethe Hotter

----Original Message-----

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Wednesday, May 10, 2006 9:55 AM

To: Margrethe Hotter

Cc: Ezeanyim, Richard, EMNRD; Duran-Saenz, Theresa, EMNRD; Arrant, Bryan, EMNRD; Sanchez, Daniel J.,

EMNRD

Subject: SWD application: Mary AIV State Well No. 1 30-015-26625

Hello Ms. Hotter:

The Division received your application on 8 May 2006, reviewed the application and has the following comments and requests:

- 1) This location is in the "Potash Area" as defined in division order R-111-P. You have notified the BLM already. However, since this well is being proposed for conversion to injection, please notify the nearest Potash Lessee of this fact. Send proof of that notice to Santa Fe.
- 2) Please check for a temperature survey or CBL on the 5-1/2 inch casing. If one exists, please send a "copy" to the Santa Fe Office.
- 3) Consult your geologist or engineer for the following:
- a) Yates operates several Delaware producing wells in this general interval within one half mile. Please send a explanation (signed by a reservoir engineer) of what effect injecting waste water into this same gross interval will have on that production.
- b) There is an interval from approximately 4570 to 4700 in this well that seems to have different log characteristics: higher porosity, lower short resistivity, some washouts. What formation is over that depth and is it ever produced or injected into? In this well and in most of the AOR wells, that interval is above the cement top.

As per Division rules, the 15 day suspense period must start after the application is considered "complete".

Comment for Bryan:

Looks like the mud log in this imaged well file may belong to another well? There is definitely a resistivity log in this well file that appears to be from a different well.

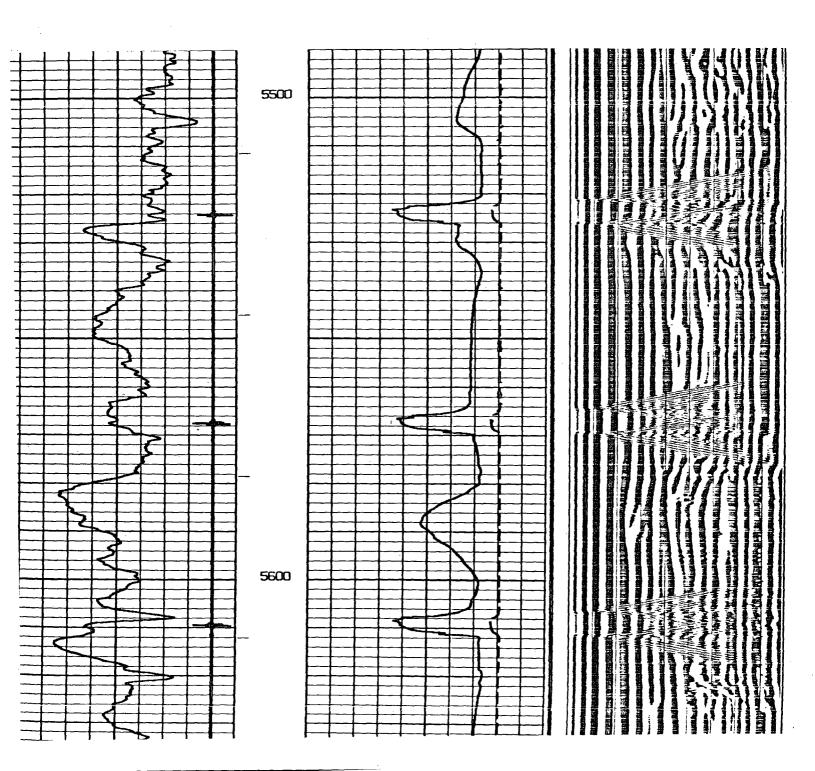
Thank You,

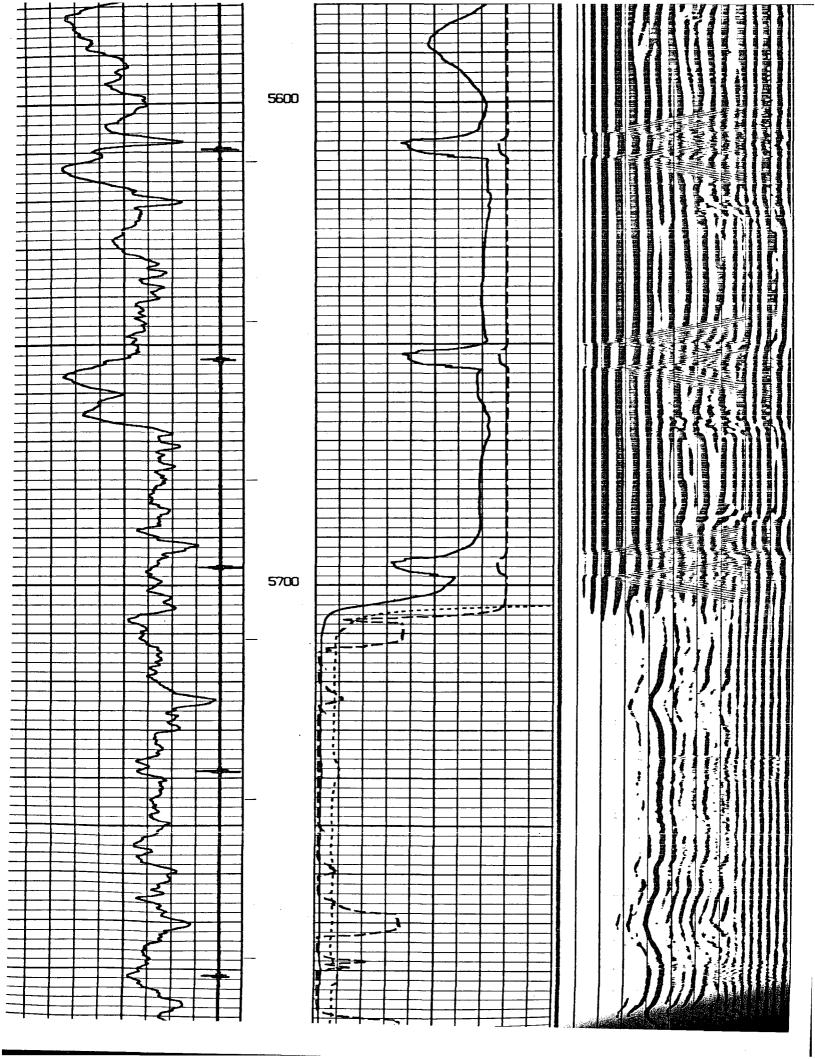
William V. Jones Engineering Bureau Oil Conservation Division Santa Fe

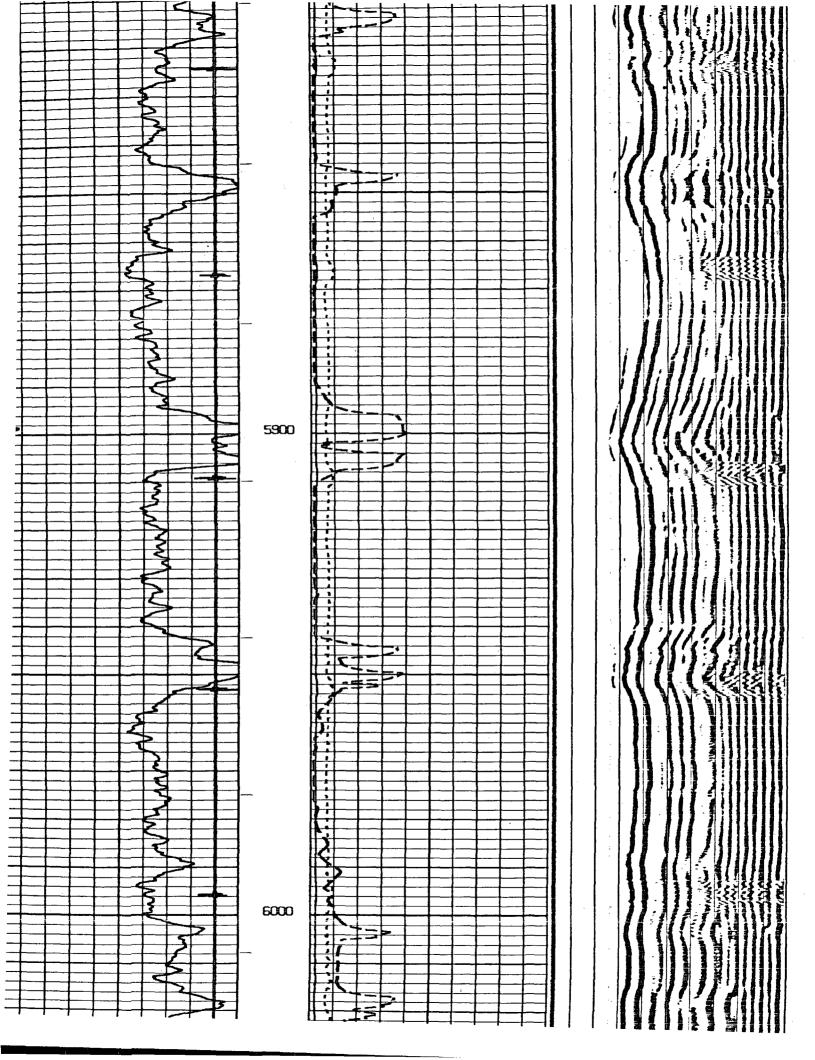
Postage \$ Certified Fee (Endorsement Required) Total Po Sent To Om McGuire Intrepid Minin(or PO Box P. O. Box 101	SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpied or on the front if space permits. Article Addressed to: Om McGuire Intrepid Mining NM LLC P.O. Box 101 Carlsbad, New Mexico 88220 Many ATI ST #	e	A. Signature X B. Received D. Is delivery a lif YES, ent G. Certified Register Insured	d Mail	Agent Agent Addressee Addressee Date of Delivery Itam 1? 100	. P. YATES AAN OF THE BOARD IN A. YATES PRESIDENT /TON YATES IVE VICE PRESIDENT / G. PATTERSON SECRETARY NIS G. KINSEY TREASURER
City, State Carlsbad, Nev	Article Number (Transfer from service label)	7006	ם מם בם	3003 9638	6872	
	Tom McGuire Intrepid Mining NM LLC P.O. Box 101 Carlsbad, New Mexico 88220 Dear Mr. McGuire,	estic Hetu	rn Receipt		102595-02-M-1540	
	Enclosed please find a copy of Inject) on Yates Petroleum Corporation 36-T21S-R31E of Eddy	poratio	on Mary A	AIV St #1 loc	Authority to ated in Unit G,	
	Should you have any questions 748-4165.	s, plea	se feel fro	ee to contact	me at (505)	
	Sincérely, May du Holder Margrethe F. Hotter Area Engineer					

Prot. String Prod. String Liner STRING Vol. of cement Type of cement Additive Additive by % Retarder by % Retarder by % Retarder loss Drilling mud wt. Drilling mud wt.	PERMANENT DATUM. LOG MEASURED FROM DRILLING MEASURED FR Run No. Depth—Driller Depth—Logger Brm. Log Interval Top Log Interval Open Hole Size CASING REC.	
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		njection Permit	Checklist	
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(1/2/
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API Num: (30-) <u>のぼっ 名</u> 6	6625 County: <u></u>	ddy	<u> </u>	•
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Operator Address. [9 9]	7 50 TH 4 50 7	1	1	T
	Hole/Pipe Sizes	Depths	Cement	Top/Method
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Checks (Y/N): ELogs in Ima	aging Well F	ile Reviewed		13428
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Water Analysis Included (Y	/N): Fresh Water N	Injection Zone`	Disposal Waters	49%
Affirmative Statement Inclu				
Surface Owner 45 L	Miners	ıl Owner(s)		must have
Checks (Y/N): Newspaper I			Well Table	
Adequate Certified Notice:		- · .		must 1
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