	-				vion
DATE	NG 15/11 SUSPEN	INSE ENGINEER	J LOGGED IN 61	5.11 APRES (UD) A	PP NO 11/665 4022
		NEW MEXICO OIL - Engir 1220 South St. Fran	neering Bureau	ON DIVISION	Yates Pet 25 Lotus SWD #
		ADMINISTRATI	IVE APPLIC	ATION CHECKL	IST 30-025-31694
٦	THIS CHECKLIST IS M			S FOR EXCEPTIONS TO DIVISION IVISION LEVEL IN SANTA FE	RULES AND REGULATIONS
Appli	[DHC-Dow [PC-Po	ns: andard Location] [NSP-N vnhole Commingling] [ool Commingling] [OLS [WFX-Waterflood Expan [SWD-Salt Water D	on-Standard Prora CTB-Lease Commi S - Off-Lease Stora sion] [PMX-Pres isposal] [IPI-Inje	ation Unit] [SD-Simultane ingling] [PLC-Pool/Leas	e Commingling] asurement] sion] <i>CO</i>
[1]	TYPE OF AI	PPLICATION - Check T Location - Spacing Un: NSL NSP			STAR
	Check [B]	k One Only for [B] or [C] Commingling - Storage DHC CTE		PC OLS OI	M 12519
	[C]			Enhanced Oil Recovery IPI	
	[D]	Other: Specify			<i>)</i>
[2]	NOTIFICAT [A]	FION REQUIRED TO: - Working, Royalty of		ich Apply, or Does Not lty Interest Owners	Apply
	[B]	X Offset Operators, L	easeholders or Sur	face Owner	
	[C]	X Application is One V	Which Requires Pu	blished Legal Notice	•
	.[D]			oval by BLM or SLO blic Lands, State Land Office	
	[E]	For all of the above	ve, Proof of Notific	ation or Publication is Atta	ched, and/or,
	[F]	☐ Waivers are Attac	hed		
[3]		CCURATE AND COMP ATION INDICATED A		ATION REQUIRED TO I	PROCESS THE TYPE
	oval is accurate a cation until the re	and complete to the best/of equired information and n	of my knowledge. I otifications are sub		etion will be taken on this
3 .7.		e: Statement must be domplet	of the an individual with	th managerial and/or supervisor	
	grethe Hotter		u files	Area Engineer	5/11/11
rnnt	or Type Name	signarqre	<i>"</i> (Tıtle	Date

mhotter@yatespetroleum.com e-mail Address

MARTIN YATES, III

FRANK W. YATES

1936-1986 ENED OUD
1914-2008 A 11: 50



105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

JOHN A. YATES

JOHN A. YATES JR

SCOTT M. YATES

JAMES S. BROWN CHIEF OPERATING OFFICER

JOHN D. PERINI
CHIEF FINANCIAL OFFICER

June 14, 2011

State of New Mexico Oil Conservation Division 1220 S. Saint Francis Drive Santa Fe, NM 87505

Re: Lotus SWD #2

Dear Sirs:

Enclosed please find copies of form C-108 (Application for Authority to Inject) on said well located in Section 32T22S, R32E of Lea County, New Mexico.

If you have any questions or need additional information, please call me at (575) 748-4165.

Sincerely,

Margrethe Hotter Area Engineer

C-108 Application for Authorization to Inject Yates Petroleum Corporation Lotus SWD #2 Unit G, 1980' FNL & 1980' FEL, Sec. 32, T22S, R32E Lea 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 Artesia, NM 88210

Margrethe Hotter (575) 748-4165

III. Well Data:

See Attachment A

- IV. This is not an expansion of an existing project.
- V. See attached map, Attachment B.
- VI. There are 3 wells within the area of review that penetrate the proposed injection zone (See Attachment C).
- VII. 1. Proposed average daily injection volume approximately 2500 BWPD. Maximum daily injection volume approximately 5000 BWPD.
 - 2. This will be a closed system.
 - 3. Proposed average injection pressure –unknown. Proposed maximum injection pressure 1150 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 5750'-6500'.

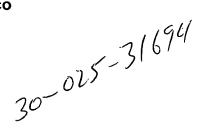
- 2. Possible Fresh water zones overlie the proposed injection formations at depths to approximately 850' or less. There are no fresh water zones underlying the formation.
- IX. The proposed disposal interval may be acidized with 7-1/2% HCL acid, or proppant fractured.
- X. Logs were filed at your office when the well was drilled.
- XI. There are no windmills 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 Lotus SWD #2 G-32-T22S-R32E Lea County, New Mexico

Attachment A

III. Well Data

A. 1. Lease Name/Location Lotus SWD #2 (Prev. Lotus ALT St #2) G-32-T22S-R32E 1980' FNL & 1980' FEL

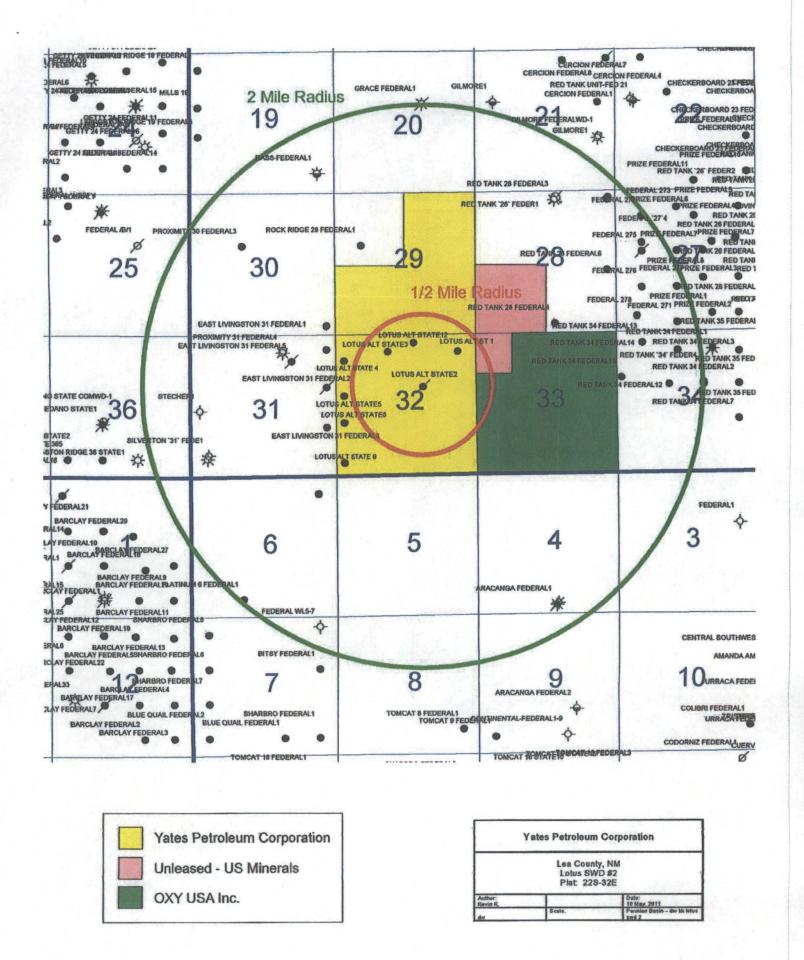


2. Casing Strings:

- a. Present well condition
 13 3/8", 48# H-40 @ 858' w/825 sx (circ)
 8 5/8", 32# J-55 @ 4,418' w/1450 sx (TOC @ 800').
 5 ½", 15.5# &17#, J-55 & N-80 @ 9,250' w/DV tool @ 8,712', 7,587'
 Stage 1: 800sx (circ)
 Stage 2: 450sx (circ)
 Stage 3: 800sx TOC @ 3,826' (CBL)
- Present Status:
 Non-commercial completion in Delaware at 6716'-6,888', 7,003-7,186', 8,006'-8,016', 8,326'-8,339', 8,414'-8,430'
 RBP @ 8,100'
- 3. Proposed well condition:
 Casing same as above. 100' cement plug across both DV tools.
 CIBP @ 6,666' and cap with 35' cement.
 3 ½" 9.3 J55 or 2-7/8" 6.5 J55 plastic-coated injection tubing @ 5650'
- 4. Propose to use Guiberson or Baker plastic-coated or nickel-plated packer set at 5650'.
- B. 1. Injection Formation: Delaware Sands
 - 2. Injection Interval will be through perforations from approximately 5750'-6500' gross interval.
 - 3. Well was originally drilled as a Delaware oil well. Well will be a Delaware water disposal well when work is completed.
 - 4. Perforations: High porosity sands between 5750'-6500'.
 - Next higher (shallower) oil or gas zone within 2 miles-None.
 Next lower (deeper) oil or gas zone within 2 miles- Brushy Canyon

WELL NAME: Lotus AL	T State #2	FIELD:			
		ection 32-22S-32E	Lea Co.,	NM	
		_KB:	C	ASING PROGR	AM
		DATE:			
COMMENTS: API No.:	: 30-025-31694		13-3/8" 54.5#	J-55	<u>858'</u>
		_	8-5/8" 32# H0		4,418'
		_	0-3/0 32#110	3-00 0 0-00	4,410
17-1/2" Hole		TOC 800' (TS)	5-1/2" 15.5#	&17# J-55 & N-80	9,250'
		13-3/8" @ 858' w/ 825 sx cmt (Circ)			
11" Hole		TOC @ 3826' (CBL)		Curre	<u>ent</u>
		8-5/8" @ 4.418' w/ 1,450' sx cmt (TOC @ 800' TS)	B B C B	herry Canyon 5 rushy Canyon 7,	,583' ,557'
7 7/8" Hole		Delaware perfs: 6,716'-6,888'			
DV Tool @ 7,587'		Delaware perfs: 7,003'-7,186'			
	$\langle \qquad \qquad \qquad \qquad $	Delaware perfs: 8,006'-8,016'			
RBP @ 8,100'		Delaware perfs: 8,326'-8,339'			
DV Tool @ 8,712'		Delaware perfs: 8,414'-8,430'	·	Not 5/10	to Scale
	FC: 9,205' TD: 9,250'	5-1/2" @ 9,250' w/ 1 st Stage: 100 sx (Circ) 2 nd Stage: 225 sx (Circ) 3 rd Stage: 800 sx (TOC @ 3826	6' CBL)	MM	ľ

FIELD: WELL NAME: Lotus SWD #2 **LOCATION**: 1980' FNL & 1980' FEL of Section 32-22S-32E Lea Co., NM KB: ___ **GL**: 3,538 ZERO: **CASING PROGRAM** SPUD DATE: 9/19/92 COMPLETION DATE: **COMMENTS**: API No.: 30-025-31694 13-3/8" 54.5# J-55 858' 4,418' 8-5/8" 32# HC-80& J-55 9,250' 5-1/2" 15.5#&17# J-55 & N-80 17-1/2" TOC 800' (TS) Hole 13-3/8" @ 858' w/ 825 sx cmt (Circ) TOC @ 3826' (CBL) 11" Hole **TOPS** Rustler 850' 8-5/8" @ 4.418' w/ Base of Salt 4,316' 1,450' sx cmt (TOC @ 800' TS) Bell Canyon 4,583' Nickel plated pkr @ 5650' Cherry Canyon 5,557' 3 1/2" or 2 7/8" PC tbg Brushy Canyon 7,265' BS 8.528' Injection interval: Porous Delaware 7 7/8" Hole sands between 5750'-6500' CIBP @ 6,666 +35'cmt' Delaware perfs: 6,716'-6,888' Cmt plug across DV Delaware perfs: 7,003'-7,186' tool, 7,537'-7,637' DV Tool @ 7,587' Delaware perfs: 8,006'-8,016' Delaware perfs: 8,326'-8,339' Delaware perfs: 8,414'-8,430' Cmt plug across DV Not to Scale tool, 8,662'-8,762' 5/10/11 DV Tool @ 8,712' **MMFH** 5-1/2" @ 9,250' w/ 1st Stage: 100 sx (Circ) 2nd Stage: 225 sx (Circ) 3rd Stage: 800 sx (TOC @ 3826' CBL) -FC: 9,205' TD: 9,250'



Attachment B

Attachment "C"

Lotus SWD #2 Form C-108

Tabulation of data on wells within area of review

				Producing	-	
Well Name	Operator	Type	Spud	Total Depth Zone	Perforations	Completion Information
Lotus ALT St #3 660FNL & 1980FWL Sec 32 22S 32E	Yates Petroleum Corp	Oil	11/3/2002	8600' Delaware	6706'-8398'	13 3/8" @ 842' Cmtd w/700 sx (circ) 8 5/8" @ 4,489' Cmtd w/1250 sx (circ) 5 1/2" @ 8,600' Cmtd w/ Stage 1: 555 sx (TOC 5608') Stage 2: 550 sx (circ)
Lotus SWD #1 660FNL & 660FEL Sec 32 22S 32E	Yates Petroleum Corp	Oil	1/30/2003	8620' Delaware	Inj interval: 6744-8518	13 3/8" @ 846' Cmtd w/700 sx (circ) 8 5/8" @ 4,510' Cmtd w/1250 sx (circ) 5 1/2" @ 8,780' Cmtd w/ Stage 1: 575 sx (TOC 5556') Stage 2: 550 sx (circ)
Lotus SWD #12 330FNL & 2310FEL Sec 32 22S 32E	Yates Petroleum Corp Sup-1198	Oil	7/6/2006	8600' Delaware	Inj. interval: 5754'-6500' CIBP @ 6720' + 35' cmt 6772'-8386'	13 3/8" @ 865' Cmtd w/780 sx (circ) 8 5/8" @ 4,528' Cmtd w/1310 sx (circ) 5 1/2" @ 8,600' Cmtd w/ Stage 1: 800'sx (circ) Stage 2: 450 sx (TOC 2650')

North Permian Basin Region P O Box 740 Sundown, TX 79372-0740 (806) 229-8121 Lab Team Leader - Sheila Hernandez (432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	YATES PETROLEUM INC	Sales RDT:	33514
Region:	PERMIAN BASIN	Account Manager:	REGGIE GUY (575) 910-9391
Area:	ARTESIA, NM	Sample #:	354147
Lease/Platform:	LOTUS 'ALT' STATE UNIT	Analysis ID #:	94689
Entity (or well #):	4	Analysis Cost:	\$90 00
Formation:	UNKNOWN		

Sample Point:

WELLHEAD

Sumn	nary		Ar	alysis of Sa	imple 354147 @ 75	°F	
Sampling Date:	9/15/09	Anions	mg/l	meq/l	Cations	mg/i	meq/l
Analysis Date:	9/23/09	Chloride:	142320.0	4014.33	Sodium:	69489.4	3022.62
Analyst:	LEAH DURAN	Bicarbonate:	36.6	0.6	Magnesium:	2815.0	231.57
TD\$ (221647.5	Carbonate:	0.0	0.	Calcium:	14251.0	711.13
TD\$ (mg/l or g/m3):		Sulfate:	350.0	7.29	Strontium:	1225.0	27.96
Density (g/cm3, ton Anion/Cation Ratio:	ne/ms): 1.15	Phosphate.			Barium:	87.0	1.27
Anion/Cation Ratio:	1	Borate:			Iron:	15.0	0.54
		Silicate:			Potassium:	1053.0	26 93
					Aluminum:		
Carbon Dioxide:	280 PPM	Hydrogen Sulfide:		0 PPM	Chromium:		
Oxygen:		11.10 6 8		r -,	Copper:		
Comments:		pH at time of sampling:		5.7	Lead:		
CONTINUENTS.		pH at time of analysis:			Manganese:	5 500	0.2
		pH used in Calculatio	n:	5.7	Nickel:		
		-					

Condi	tions		Values C	alculated	at the Giver	Conditio	ns - Amoun	ts of Scal	e in lb/1000	bbl		V
Temp	Gauge Press.		alcite aCO ₃	Gyp: CaSO	sum 4*2H ₂ 0	l	ydrite aSO ₄		estite rSO ₄		rite SO ₄	CO ₂ Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	-0 83	0.00	-0.43	0.00	-0.39	0.00	0 11	37.23	2.06	44.50	0.43
100	0	-0 74	0 00	-0.50	0 00	-0.40	0.00	0.08	29.67	1 86	44 22	0.51
120	0	-0.66	0.00	-0 57	0.00	-0.38	0.00	0 07	26 31	1 69	43.94	0.59
140	0	-0.57	0.00	-0.62	0.00	-0.35	0.00	0.08	26 59	1.54	43 39	0.67

Note 1 When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered

Note 2. Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3 The reported CO2 pressure is actually the calculated CO2 fugacity
It is usually nearly the same as the CO2 partial pressure

Attachment D Example of water to be disposed who swo well

North Permian Basin Region P.O Box 740

Sundown, TX 79372-0740

(806) 229-8121

Lab Team Leader - Sheila Hernandez

(432) 495-7240

Water Analysis Report by Baker Petrolite

Company:

YATES PETROLEUM INC

Sales RDT:

33514

Region:

PERMIAN BASIN

Account Manager: REGGIE GUY (575) 910-9391

Area:

ARTESIA, NM

Sample #:

354157

Lease/Platform:

KIWI 'AKX' STATE LEASE

Analysis ID #:

94687

Entity (or well #):

Analysis Cost:

\$90.00

Formation:

UNKNOWN

Sample Point:

WELLHEAD

Summa	ıry		Ar	nalysis of Sa	imple 354157 @ 75	°F	
Sampling Date:	9/15/09	Anions	mg/l	meq/l	Cations	mg/i	meq/l
Analysis Date:	9/23/09	Chloride:	177816.0	5015.54	Sodium:	81444.2	3542.62
Analyst:	LEAH DURAN	Bicarbonate:	73.2	1.2	Magnesium:	3828.0	314.91
TD0 / /// 2) -	000000	Carbonate:	0.0	0.	Calcium:	22006.0	1098.1
TDS (mg/l or g/m3):	289080.9	Sulfate:	774.0	16.11	Strontium:	1226.0	27.98
Density (g/cm3, tonne	e/m3): 1.192	Phosphate:	,		Barium:	2.5	0.04
Anion/Cation Ratio:	· ·	Borate:	·		Iron:	28.0	1.01
		Silicate:			Potassium:	1879.0	48.05
					Aluminum:		
Carbon Dioxide:	430 PPM	Hydrogen Sulfide:		0 PPM	Chromium:		
Oxygen [.]		_11_44i		5.5	Copper:		
Comments:		pH at time of sampling:		33	Lead:		
0011111011101		pH at time of analysis:			Manganese:	4.000	0.15
	İ	pH used in Calculation	on:	5.5	Nickel ⁻	ř	

Condi	tions		Values C	alculated :	at the Giver	Conditio	ns - Amour	its of Scal	e in lb/1000	bbl		
lemn	Gauge Calcite Press. CaCO ₃		, ,	Gypsum CaSO ₄ 2H ₂ 0		ydrite aSO ₄	Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press	
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	-0 49	0 00	0.09	74.08	0.15	94.78	0.34	175.23	0.74	1 06	1 14
100	0	-0.41	0.00	0 00	2 12	0 13	84.16	0.31	165.14	0 54	0.80	1.33
120	0	-0.33	0.00	-0.07	0.00	0.14	87:62	0.30	161 43	0.37	0.80	1 51
140	0	-0.24	0.00	-0.13	0 00	0 17	103.02	0.31	163.02	0.22	0.53	1.66

Note 1 When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

Note 3. The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure

Affachment D Example of water to be dispose into swo well

Note 2. Precipitation of each scale is considered separately Total scale will be less than the sum of the amounts of the five scales.

North Permian Basin Region P O Box 740 Sundown, TX 79372-0740 (806) 229-8121 Lab Team Leader - Sheila Hernandez (432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	YATES PETROLEUM INC	Sales RDT:	33514
Region:	PERMIAN BASIN	Account Manager:	REGGIE GUY (575) 910-9391
Area:	ARTESIA, NM	Sample #:	354152
Lease/Platform:	LOTUS 'ALT' STATE UNIT	Analysis ID #:	94688
Entity (or well #):	3 ·	Analysis Cost:	\$90.00
Formation:	UNKNOWN		

Sample Point:

WELLHEAD

Summ	ary		Ar	alysis of Sa	mple 354152 @ 75	°F	
Sampling Date:	9/15/09	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	9/23/09	Chloride:	181989.0	5133.25	Sodium:	77172.6	3356.82
Analyst:	LEAH DURAN	Bicarbonate:	48.8	0.8	Magnesium:	4720.0	388.29
	0015101	Carbonate:	0.0	. 0.	Calcium:	26148.0	1304.79
TDS (mg/l or g/m3):	294549.4	Sulfate:	541.0	11.26	Strontium:	1946.0	44.42
Density (g/cm3, tonn	e/m3): 1.197	Phosphate:			Barium:	3.5	0.05
Anion/Cation Ratio:	1	Borate:			lron:	24.0	0.87
		Silicate:			Potassium:	1952.0	49.92
					Aluminum:		
Carbon Dioxide:	400 PPM	Hydrogen Sulfide		0 PPM	Chromium.		
Oxygen:		-11 -4 15		5.2	Copper:		
Comments:		pH at time of sampling:		5.2	Lead:		·
		pH at time of analysis:	•		Manganese:	4 500	0 16
		pH used in Calculation	on:	5.2	Nickel: .		
				. 4			

Condi	tions		Values C	alculated a	at the Giver	Conditio	ns - Amour	nts of Scal	le in lb/1000	ldd		
Temp	emp Gauge Calcite CaCO 3		Gauge		L	Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	-0.93	0 00	-0.01	0 00	0.05	24 84	0.36	151.42	0 70	1.32	1.41
100	0	-0.84	0.00	-0 10	0.00	0.03	16.38	0.34	144.28	0.51	1.32	1,65
120	0.	-0.76	0.00	-0.17	0.00	0.04	20.61	0.33	142 17	0 34	1.06	1.86
140	0	-0.67	0.00	-0.23	0 00	0.07	35 15	0.33	144.02	0 19	0 53	2 05

Note 1: When assessing the seventy of the scale problem, both the saturation index (SI) and amount of scale must be considered

Note 2. Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales

Note 3 The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure

Attachment D Example of water to be disposed into SWD well

North Permian Basin Region P O Box 740 Sundown, TX 79372-0740 (806) 229-8121 Lab Team Leader - Sheila Hernandez

(432) 495-7240

Water Analysis Report by Baker Petrolite

Company:

YATES PETROLEUM INC

Sales RDT:

33514

Region:

PERMIAN BASIN

Account Manager:

REGGIE GUY (575) 910-9391

Area:

ARTESIA, NM

Sample #:

354158

Lease/Platform:

KIWI 'AKX' STATE LEASE

Analysis ID #:

94686

Entity (or well #):

1

Analysis Cost:

\$90.00

Formation:

UNKNOWN

Sample Point:

WELLHEAD

Summ	ary		Ar	nalysis of Sa	ımple 354158 @ 75	°F	
Sampling Date:	9/15/09	Anions	mg/l	meq/l	Cations	mg/l	meq/i
Analysis Date:	9/23/09	Chloride:	139881.0	3945.53	Sodium:	61614.9	2680.1
Analyst:	LEAH DURAN	Bicarbonate:	85.4	1.4	Magnesium:	3256.0	267.85
TDC /	227088 2	Carbonate:	0.0	0.	Calcium:	18604.0	928.34
TDS (mg/l or g/m3):	227088.3	Sulfate:	404.0	8.41	Strontium:	1504.0	34.33
Density (g/cm3, tonn	ne/m3): 1.152	Phosphate:			Barium:	3.0	0.04
Anion/Cation Ratio:	'	Borate ⁻			Iron:	23.0	0.83
		Silicate:		ĺ	Potassium.	1709.0	43 71
	_			•	Aluminum:		
Carbon Dioxide:	480 PPM	Hydrogen Sulfide:		0 PPM	Chromium:		
Oxygen:		pH at time of sampling:		5.1	Copper:		
Comments:				3.1	Lead [,]		
		pH at time of analysis:			Manganese:	4 000	0.15
l .		pH used in Calculati	on:	5.1	Nickel:		
l		{					

Conditions			Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl									
Temn	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ 0		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psı
80	0	-1.01	0.00	-0.29	0 00	-0.25	0.00	0.24	85.83	0.63	1 13	3.69
100	0	-0 92	0 00	-0.36	0.00	-0 26	0.00	⋅0 22	80.20	0.44	0.84	4 43
120	0	-0.84	0.00	-0 42	0.00	-0.24	0 00	0 21	78.23	0.27	0 84	5.15
140	0	-0.75	0 00	-0 46	0.00	-0.19	0.00	0 22	79.64	0.13	0.28	5.8

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales

Note 3 The reported CO2 pressure is actually the calculated CO2 fugacity It is usually nearly the same as the CO2 partial pressure

Affachment D Example of water to be disposed into swould

7007 1490 0002 7972 4889	U.S. Postal Service CERTIFIED MAIL (Domestic Mail Only; No In For delivery information visit of HOUSTON LTX 177227	Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.	A. Signature A. Signature A. Signature Addressee B. Received by (Printed Name) C. Date of Delivery D. Is delivery address different from item 1?
	Certified Fee Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required)	Oxy USA, Inc. P.O. Box 27570	If YES, enter delivery address below:
	Oxy USA, Inc. Sent To P.O. Box 27570 Street. Houston TX 772	Houston TX 77227-7570	3. Service Type Certified Mail Registered Return Receipt for Merchandise C.O.D. 4. Restricted Delivery? (Extra Fee) Yes
Ma	City, Si .PS Form 3800 August 2006 y 11, 2011	2. Article Number (Transfer from service label) 7007 1,490 PS Form 3811, February 2004 Domestic Ret	0002 7972 4889 urn Recelpt 102595-02-M-1540

OXY USA, Inc. P.O. Box 27570 Houston, TX 77227-7570

Re: Lotus SWD #2

Dear Sirs:

Enclosed please find copies of form C-108 (Application for Authority to Inject) on said well located in Section 32T22S, R32E of Lea County, New Mexico.

If you have any questions or need additional information, please call me at (575) 748-4165.

Sincerely,

Margrethe Hotter Area Engineer

		U.S. Postal Service	ate has been a second	1
		CERTIFIED MA	SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
MARTIN YATE 1912-198: FRANK W. Y. 1936-198: S.P. YATE	7972 49	Certified Fee Return Receipt Fee (Endorsement Required)	Complete items 1, 2, and 3. Also complete	A. Signature X
M	0 0641 2002	Restricted Delivery Fee (Endors) State of New M Commissioner of Sent 77 P.O. Box 1148 of PO Sireet, Santa Fe, NM 8 City, State,	of New Mexico nissioner of Public Lands Box 1148 Fe, NM 87504-1148 2. Article Number, (Transfer from service laber) 7007 1490	MAY 18 2011 3. Service Type Cottified Mails Copress Mail Registered Return Receipt for Merchandis Insured Mail Copp. 4. Restricted Delivery? (Extra Fee) Yes
			PS Form 3811, February 2004 Domestic Ref	turn Recelpt 198595-02-M-15

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

Re: Lotus SWD #2

Dear Sirs:

Enclosed please find copies of form C-108 (Application for Authority to Inject) on said well located in Section 32T22S, R32E of Lea County, New Mexico.

If you have any questions or need additional information, please call me at (575) 748-4165.

Since yely,

Margrethe Hotter Area Engineer

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		CERTIFIED	MAIL	SENDER: COMPLETE THIS SE	CTION	COMPLETE THIS SE	ECTION ON DELIVER	Υ
MARTIN Y 1912 FRANK V 1936	<u> </u>	(Domestic Mail Or For delivery informat CARLSBAD NA B Postage	tion visit our	item 4 if Restricted Delivery is Print your name and address of so that we can return the card Attach this card to the back of	A. Signature X D. Agent Address B. Received by (Printed Name) C. Date of Deliv			
S.P. Y	Γ.	Certified Fee	\$2.	or on the front if space permits	3. , , , , , , , , , , , , , , , , , , ,	D. Is delivery address	different from item 1?	Yes /
	002	Return Receipt Fee (Endorsement Required)	\$2.	A RETURN TO THE RESERVE OF THE PERSON OF THE	Comment of the second		ery address below:	LEI NO V
	7007 1490 D	Restricted De ^r – F (Endorsement	\$0.6	Bureau of Land Manage	4:			
		Total Postaç Bureau	of Land Greene S	UZU E. Greene Street	MICH	3. Service Type		***
		Sent To Carlsba Street, Apt. N. or PO Box Na	ad, NM 8	30210		☐ Certified Mail ☐ Registered ☐ Insured Mail	☐ Express Mail ☐ Return Receipt f ☐ C.O.D.	or Merchand
		City, State, ZIP+4 PS:Form 3800, August 2006			a part of all all and a second	4. Restricted Delivery	/ῖ (Extra Fee)	☐ Yes
	·			2. Article Number (Transfer from service label)	7007 1490	0002 7972	4896	, t
				PS Form 3811, February 2004	Domestic Retr	um Receipt	a wanter	102595-02-M-1

Bureau of Land Management 620 E. Greene Street Carlsbad, NM 88220

Re: Lotus SWD #2

Dear Sirs:

Singerely

Enclosed please find copies of form C-108 (Application for Authority to Inject) on said well located in Section 32T22S, R32E of Lea County, New Mexico.

If you have any questions or need additional information, please call me at (575) 748-4165.

Meflu

Mafgrethe Hotte Area Engineer

Affidavit of Publication

State of New Mexico, County of Lea.

> I, JUDY HANNA PUBLISHER

of the Hobbs News-Sun, a
newspaper published at Hobbs, New
Mexico, do solemnly swear that the
clipping attached hereto was
published in the regular and entire
issue of said newspaper, and not a
supplement thereof for a period

of 1 issue(s).

Beginning with the issue dated
May 14, 2011

and ending with the issue dated
May 14, 2011

PUBLISHER

Sworn and subscribed to before me

this 13th day of June, 2011

Notary Public

My commission expires February 09, 2013

(Seal)

OFFICIAL SEA.

DORA YANEZ

NOMEY FUNIX - STATE OF NEW MEDICO

MY Commission Enginee:

This newspaper is duly qualified to publish legal notices or advertisments within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.

LEGAL LEGAL

Legal Notice MAY 14, 2011

Yates Petroleum Corporation, 105 south Fourth Street, Artesia, NM 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 Lotus SWD #2 located 1980' FNL & 1980' FEL, Unit G, Section 32, Township 22 South, Range 32 East of Lea 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 5750'-6500' with a maximum pressure of 1150 psi and a maximum rate of 5000 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 (575) 748-4165.

01101029

00072604

ATTN: DEBBIE CHAVEZ YATES PETROLEUM CORPORATION P.O. BOX 97 ARTESIA, NM 88210

Attachment G

C-108 Application for Authorization to Inject Yates Petroleum Corporation Lotus SWD #2 Unit G, Section 32-T22S-R32E Lea 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.

Ray Podany

Geologist

Yates Petroleum Corporation

	Injection Permit Checklist (11/15/2010)									
-	WFXPMXSWD_1295_Permit Date(//%)_UIC Qtr (V/AS)									
	# Wells Well Name(s): LoTus Swp #2									
	API Num: 30-0 25-31694 Spud Date: 9/19/92 New/Old: New/Old: New (UIC primacy March 7, 1982)									
-	Footages 1980 FNL/FEL Unit G Set 32 Tsp 225 Rge 32 E County Lea									
_	General Location: 4 Mic ENT of WIPP									
	Operator: Y Contact Margrath Hotton									
· -	OGRID 555 RULE 5.9 Compliance (Wells) 3/2375 (Finan Assur) OK IS 5.9 OK?									
-	Well File Reviewed Current Status: No p - Carrent DEL 676-8430									
	Planned Work to Well: PWG BACK, Parf.									
	Diagrams: Before Conversion After Conversion Elogs in Imaging File: Sizes Setting Stage Cement Determination									
	Sizes Setting Stage Cement Determination Well Details: HolePipe Depths Tool Sx or Cf Method									
	New_Existing_Surface 17/2 13/8 858 825 CIRC	/								
	New_Existing_Interm 1 8/8 7418 - 1450 To C 800 New Existing LongSt 7/8 5/2 9250 8712587 To C 3826	·R								
	New_Existing _ LongSt 7/18 3/12 9250 8712587 To C 3826	<u>ب</u>								
	New Existing OpenHole									
	Depths/Formations: Depths, Ft. Formation Tops? See Afficial Survey Surve	۸۴ د								
	intered Sur 1990	3								
	Formation(s) Above									
	Injection TOP: 5750 (Bally Max. PS) 50 OpenHole Perfs Injection BOTTOM: 6500 (Del Tubing Size 3/2/acker Depth 5650)									
	Tubing Size 2 Vacker Depin 33									
	Formation(s) Below 765 Muchy .									
	Capitan Reef? (Potash? Noticed? WUPP? Noticed? Salado Top/1675-4316)									
7	Fresh Water: Depths: Sometion Wells? Wells? Analysis? Affirmative Statement									
	Disposal Fluid Analysis? Sources: Dol									
	Disposal Interval: Analysis? Production Potential/Testing: Wet Sle in Loss									
	Notice: Newspaper Date / 411 Surface Owner Mineral Owner(s)									
	RULE 26 7(A) Affected Persons: USA OXY									
	AOR: Maps? Well List? Producing in Interval? Wellbore Diagrams?									
	Active Wells 3 Repairs? WhichWells?									
	P&A Wells O Repairs? Which Wells?									
	Issues: Request Sent Reply:									