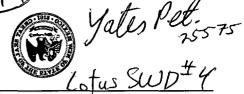
DATE IN 1-	11-11	61.16
DATE IN	ハフィ	SUS

SPENSE

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



7	THIS CHECKLIST IS M	ANDATORY FOR ALL ADMINISTRATIVE APPLICAT		S AND REGULATIONS
Appli	cation Acronym	WHICH REQUIRE PROCESSING AT THE	HE DIVISION LEVEL IN SANTA FE	
	[NSL-Non-Star [DHC-Down [PC-Po	ndard Location] [NSP-Non-Standard P nhole Commingling] [CTB-Lease Cor ool Commingling] [OLS - Off-Lease S	mmingling] [PLC-Pool/Lease Con torage] [OLM-Off-Lease Measure Pressure Maintenance Expansion] Injection Pressure Increase]	nmingling] ement]
[1]	TYPE OF AP	PLICATION - Check Those Which Ap	oply for [A]	⁵ 7
	[A]	Location - Spacing Unit - Simultaneon NSL NSP SD	us Dedication	z-228-32
-	Check [B]	One Only for [B] or [C] Commingling - Storage - Measuremer DHC CTB PLC		
	[C]	Injection - Disposal - Pressure Increas WFX PMX X SWD [e - Enhanced Oil Recovery IPI EOR PPR	5850-645 1170/0I
	[D]	Other: Specify		170/01
[2]	NOTIFICAT	ION REQUIRED TO: - Check Those \(\subseteq \text{Working, Royalty or Overriding R} \)	• • • • · · · · · · · · · · · · · · · ·	у
	[B]	X Offset Operators, Leaseholders or	Surface Owner	
	[C]	X Application is One Which Requires	Published Legal Notice	
	[D]	Notification and/or Concurrent A U.S. Bureau of Land Management - Commissioner		
	[E]	For all of the above, Proof of Not	tification or Publication is Attached,	and/or,
	[F]	☐ Waivers are Attached		
[3]		CURATE AND COMPLETE INFOR ATION INDICATED ABOVE.	MATION REQUIRED TO PROC	CESS THE TYPE
	val is accurate a	TION: I hereby certify that the informand complete to the best of my knowledguired information and notifications are	ge. I also understand that no action v	
Maro	Note: rethe F. Hotter	Statement must be completed by an individua	al with managerial and/or supervisory capa Area Engineer	1/3/12
	or Type Name	Signature /	Title	Date
	or Type Ivalile	Signature /V	•	•
			<u>mhotter@yatespetroleum.co</u> e-mail Address	m

FRANK W. YATES 1936-1986

> 5.P. YATES 1914-2008



JOHN A. YATES HAIRMAN OF THE BOARD

JOHN A. YATES JR. PRESIDENT

SCOTT M. YATES

JAMES S. BROWN

105 SOUTH FOURTH STREET (1) JAN 10 1

TELEPHONE (575) 748-1471

HEF OPERATING OFFICER

JOHN D. PERINI

CHIEF FINANCIAL OFFICER

January 3, 2012

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

Re: Lotus SWD #4

Dear Sirs:

Enclosed please find copies of form C-108 (Application for Authority to Inject) on said well located in Section 32 T22S, 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 #4 Unit D, 990' FNL & 330' FWL, 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 10 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 –/1170 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 5850'-6450'.

- 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 #4 D-32-T22S-R32E Lea County, New Mexico

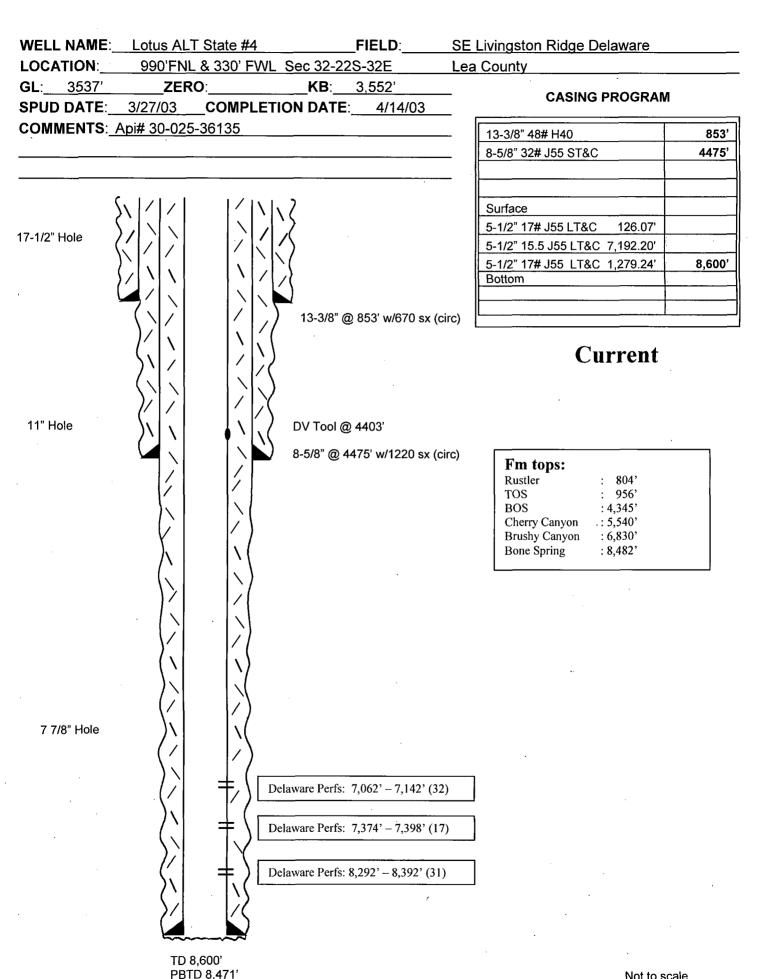
Attachment A

-			_
- 1	И.	1MAII	Data
	11.	vveii	Dala

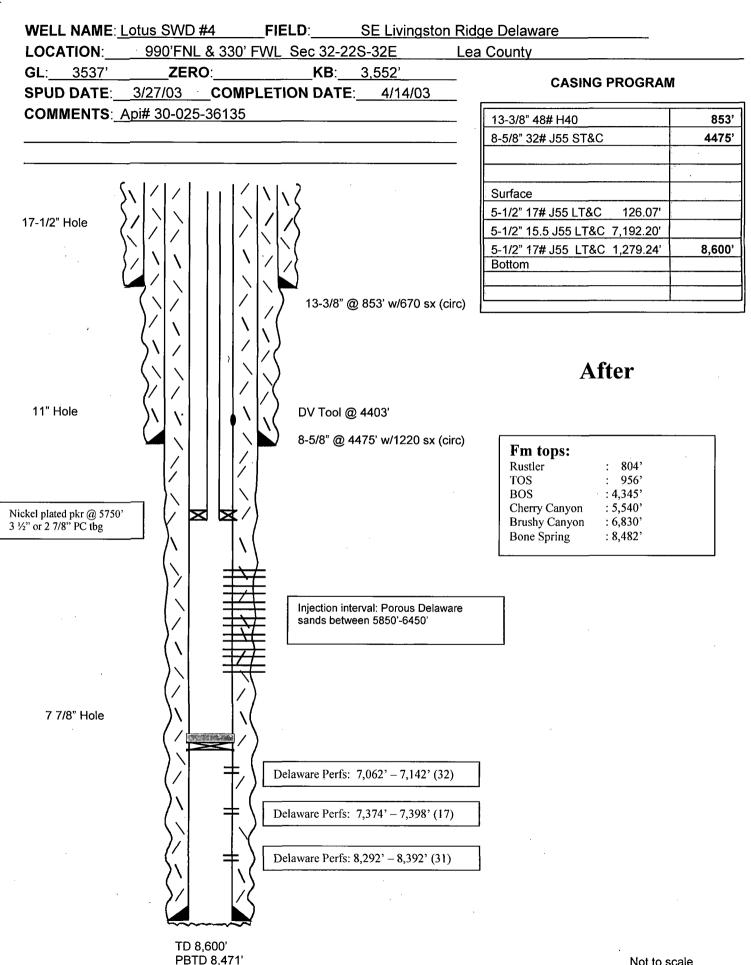
A. 1. Lease Name/Location Lotus SWD #4 (Prev. Lotus ALT St #4) D-32-T22S-R32E 990' FNL & 330' FWL

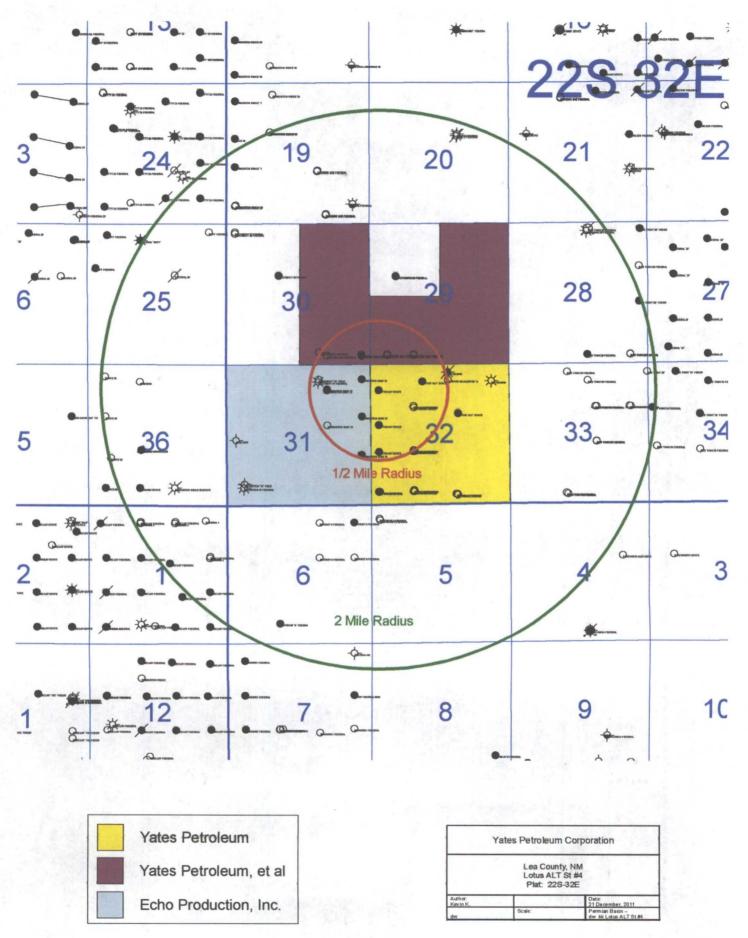
2. Casing Strings:

- a. Present well condition
 13 3/8", 48# H-40 @ 853' w/670 sx (circ)
 8 5/8", 32# J-55 @ 4,475' w/1220 sx (circ).
 5 ½", 15.5# &17#, J-5 @ 8,600' w/DV tool @ 4,403'
 Stage 1: 870sx (circ)
 Stage 2: 450sx (circ)
- b. Present Status:
 Non-commercial completion in Delaware at 7,062'-7,142', 7,374'-7,398', 8,292'-8,392'
- Proposed well condition:
 Casing same as above.
 CIBP @ 7,012' and cap with 35' cement.
 3 ½" 9.3 J55 or 2-7/8" 6.5 J55 plastic-coated injection tubing @ 5750'
- 4. Propose to use Guiberson or Baker plastic-coated or nickel-plated packer set at 5750'.
- B. 1. Injection Formation: Delaware Sands
 - 2. Injection Interval will be through perforations from approximately 5850'-6450' 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 5850'-6450'.
 - Next higher (shallower) oil or gas zone within 2 miles-None.
 Next lower (deeper) oil or gas zone within 2 miles- Brushy Canyon



Not to scale 12/15/11 MMFH





Attachment B

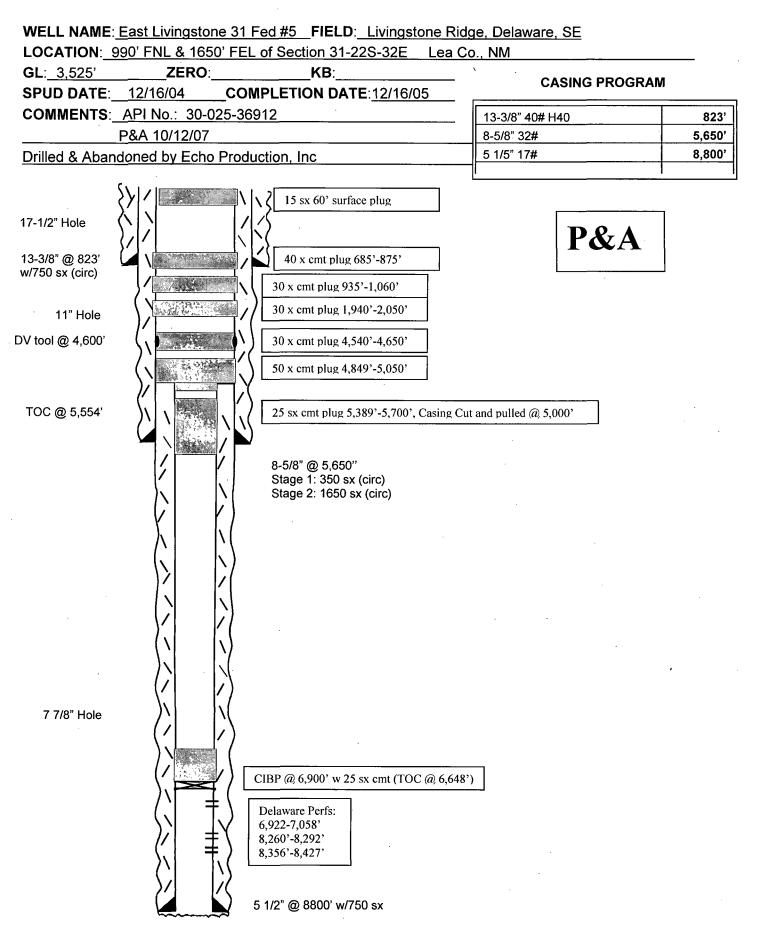
Lotus SWD #4 Form C-108

Tabulation of data on wells within area of review

Completion Information	Perforations	Type Snud Total Denth Zone	2	Type	Operator	Well Name
		Producing				

Well Name	Operator	Туре	Spud	Producing Total Depth Zone	Perforations	Completion Information
Lotus ALT St #3 660FNL & 1980FWL Sec 32 22S 32E	Yates Petroleum Corp Oil	<u> </u>	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 ALT St #5 2310FNL & 330FWL Sec 32 22S 32E	Yates Petroleum Corp	<u>o</u>	6/3/2003	8574' Delaware	6668'-8390'	13 3/8" @ 863' Cmtd w/700 sx (circ) 8 5/8" @ 4,499' Cmtd w/1450 sx (circ) 5 1/2" @ 8,574' Cmtd w/ Stage 1: 785 sx (circ) Stage 2: 400 sx (circ)
Lotus ALT St #8 1980FSL & 330FWL Sec 32 22S 32E	Yates Petroleum Corp	<u>Q</u>	4/19/2004	8900' Delaware	6736'-8358'	13 3/8" @ 853' Cmtd w/700 sx (circ) 8 5/8" @ 4,500' Cmtd w/1350 sx (circ) 5 1/2" @ 8,900' Cmtd w/ Stage 1: 575 sx (circ) Stage 2: 450 sx (circ) Stage 3: 500 sx (circ)
Lotus SWD #12 330FNL & 2310FEL Sec 32 22S 32E	Yates Petroleum Corp	으	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')
Amazing BAZ Fed #3 330FSL & 330FEL Sec 30 22S 32E	Yates Petroleum Corp	<u>Q</u>	7/16/2008	8600' Delaware	6668'-8465'	13 3/8" @ 900' Cmtd w/650 sx (circ) 8 5/8" @ 4,504' Cmtd w/1280 sx (circ) 5 1/2" @ 8,600' Cmtd w/ Stage 1: 400 sx (circ) Stage 2: 460 sx (TOC @ 3288')
East Livingston 31 Fed #1 560FNL & 330FEL Sec 31 22S 32E	Echo production	<u>Q</u>	6/16/2004	8800' Delaware	6925'-7139', 8376'-8442'	13 3/8" @ 824' Cmtd w/745 sx (circ) 8 5/8" @ 4,573' Cmtd w/1485 sx (circ) 5 1/2" @ 8,800' Cmtd w/750 sx (TOC @ 5500')
East Livingston 31 Fed #2 1980FNL & 330FEL Sec 31 22S 32E	Echo production	<u>©</u>	12/28/2003	8792' Delaware	6916'-7120', 8360'-8384'	13 3/8" @ 810' Cmtd w/850 sx (circ) 8 5/8" @ 4,550' Cmtd w/1450 sx (circ) 5 1/2" @ 8,786' Cmtd w/700 sx (TOC @ 5520')

Proximity 31 Fed #4 660FNL & 2085FEL Sec 31 22S 32E	East Livingston 31 Fed #5 990FNL & 1650FEL Sec 31 22S 32E	East Livingston 31 Fed #3 1810FSL & 330FEL Sec 31 22S 32E
	d #5	.
Oxy USA Inc	Echo production	Echo production
SWD 9/2 (Order SWD-543)	<u>Q.</u>	<u>©</u>
9/20/1993 543)	12/16/2004	8/30/2004
7225' Delaware	8800' Delaware	8777' Delaware
4734'-4956 5174'-5590'	6922'-7058', 8260'-8427' P&A (see sketch) CIBP @ 6900' 6648'-6900'(25 sx) 5389'-5700' (25 sx) 4849'-5050' (50 sx) 4540'-4650' (30 sx) 1940'-2050' (30 sx) 935'-1060' (30 sx) 685'-875' (40 sx) 60'-surface (15 sx)	6931'-7136', 8342'-8412'
8 5/8" @ 368' Cmtd w/250 sx (circ) 5 1/2" @ 7225' Cmtd w/ Stage 1: 270 sx (circ) Stage 2: 350 sx (circ) Stage 3: 1300 sx (circ)	13 3/8" @ 823' Cmtd w/750 sx (circ) 8 5/8" @ 5,650' Cmtd w/ Stage 1: 350 sx (circ) Stage 2: 1300 sx (circ) 5 1/2" @ 8,800' Cmtd w/750 sx (T\u00f62 @ 5554') Cut @ 5000'	13 3/8" @ 802' Cmtd w/725 sx (circ) 8 5/8" @ 4,595' Cmtd w/1550 sx (circ) 5 1/2" @ 8,840' Cmtd w/775 sx (TOC @ 5500')



TD 8,800' PBTD 8,724'

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

YATES PETROLEUM INC Sales RDT: 33514 Company: Account Manager: REGGIE GUY (575) 910-9391 PERMIAN BASIN Region: ARTESIA, NM 354147 Area: Sample #: LOTUS 'ALT' STATE UNIT 94689 Lease/Platform: Analysis ID #: Analysis Cost: \$90.00 Entity (or well #): Formation: **UNKNOWN**

Sample Point:

WELLHEAD

Summary		Ar	alysis of Sa	ımple 354147 @ 75	°F	
Sampling Date: 9/15/09	Anions	mg/l	meq/l	Cations	mg/l	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
TD0 (// // 0) 004047.6	Carbonate:	0.0	0.	Calcium:	14251.0	711.13
TDS (mg/l or g/m3): 231647.5	Sulfate:	350.0	7.29	Strontium:	1225.0	27.96
Density (g/cm3, tonne/m3): 1.15 Anion/Cation Ratio:	I Phosphate:			Barium:	87.0	1.27
Anion/Cation Ratio:	Borate:			Iron:	15.0	0.54
	Silicate:			Potassium:	1053.0	26.93
				Aluminum:		
Carbon Dioxide: 280 PPM	Hydrogen Sulfide:		0 PPM	Chromium:	4	
Oxygen:	all at time of compline		5.7	Copper:	,	
Comments:	pH at time of sampling:		5.7	Lead:		
	pH at time of analysis:			Manganese:	5.500	0.2
	pH used in Calculati	on:	5.7	Nickel:		

Condit	tions		Values C	alculated a	at the Giver	Conditio	ns - Amour	nts of Scal	e in lb/1000	ldd		
Temp	Gauge Press.		alcite aCO ₃	Gyp: CaSO	sum 4 ^{2H} 2 ⁰	i .	ydrite aSO ₄		estite rSO ₄		rite ISO 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:

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

YATES PETROLEUM INC Sales RDT: Company: REGGIE GUY (575) 910-9391 PERMIAN BASIN Region: Account Manager: ARTESIA, NM Sample #: 354157 Area: KIWI 'AKX' STATE LEASE Analysis ID #: 94687 Lease/Platform: Analysis Cost: \$90.00 Entity (or well #): 3 Formation: **UNKNOWN**

WELLHEAD

Sample Point:

Sumn	nary		Ar	alysis of Sa	mple 354157 @ 75	°F	
Sampling Date:	9/15/09	Anions	mg/l	meq/l	Cations	mg/l	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
TDD (" (a)		Carbonate:	0.0	0.	Calcium:	22006.0	1098.1
TDS (mg/l or g/m3):		Sulfate:	774.0	16.11	Strontium:	1226.0	27.98
Density (g/cm3, ton	ne/m3): 1.192	Phosphate:			Barium:	2.5	0.04
Anion/Cation Ratio:	1	Borate:			Iron:	28.0	1.01
•		Silicate:			Potassium:	1879.0	48.05
					Aluminum:		
Carbon Dioxide:	430 PPM	Hydrogen Sulfide:		0 PPM	Chromium:		
Oxygen:	•	nLl at time of compli	na:	5.5	Copper:		
Comments:		pH at time of sampli	•	5.5	Lead:		
		pH at time of analys	sis:		Manganese:	4.000	0.15
		pH used in Calcul	ation:	5.5	Nickel:		

Condi	tions		Values C	alculated	at the Giver	Conditio	ns - Amour	nts of Sca	le in lb/1000	bbl		
Temn	Gauge Press.		alcite aCO ₃	Gyp: CaSO	sum 4 ^{2H} 2 ⁰		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	-0.49	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 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.

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

Summa	ary		Ar	alysis of Sa	ımple 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
TDC (204540.4	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:	'	Borate:	•		Iron:	24.0	0.87
		Silicate:			Potassium:	1952.0	49.92
					Aluminum:		
Carbon Dioxide:	400 PPM	Hydrogen Sulfide:		0 PPM	Chromium:		
Oxygen:		pH at time of sampling		5.2	Copper:		
Comments:				3.2	Lead:		
		pH at time of analysis:			Manganese:	4.500	0.16
		pH used in Calculati	on:	5.2	Nickel:		

Condi	tions		Values C	alculated a	at the Giver	Conditio	ns - Amour	its of Scal	e in lb/1000	bbl		
ITama	Gauge Press.		alcite aCO ₃	Gyps CaSO	sum 4 ^{*2H} 2 ⁰		ydrite aSO ₄		estite rSO ₄		rite aSO ₄	CO ₂ Press
°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 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.

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:

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	Analysis of Sample 354158 @ 75 °F							
Sampling Date:	9/15/09	Anions	mg/l	meq/l	Cations	mg/l	meq/l		
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		
	007000.0	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, tonr	ie/m3): 1.152	Phosphate:			Barium:	3.0	0.04		
Anion/Cation Ratio:	1	Borate:			Iron:	23.0	0.83		
•		Silicate:			Potassium:	1709.0	43.71		
					Aluminum:				
Carbon Dioxide:	480 PPM	Hydrogen Sulfide:		0 PPM	Chromium:				
Oxygen:		n∐ at time of compli	5.1	Copper:					
Comments:		, h., s., s., s., s., s., s.,			Lead:				
oonon		pH at time of analys	sis:		Manganese:	4.000	0.15		
		pH used in Calcula	ation:	5.1	Nickel:				
		pH used in Calcul	ation:	5.1	Nickel:				

Condit	tions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl									
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	psi
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	ا ۱	-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.

Notification letters sent to:

1. Surface owner:

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

2. Operators:

OXY USA WTP LP 6 Desta Drive #6000 Midland, TX 79705-5505

Chevron USA Inc 15 Smith Rd Midland, TX 79705

ZPZ Delaware I LLC 2000 Post Oak Blvd, Suite 100 Houston, TX 77056-4497

Echo Production Inc PO Box 1210 Graham, TX 76450

FRANK W. YATES 1936-1986

S.P. YATES



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

JOHN A. YATES

JOHN A. YATES JR.

SCOTT M. YATES VICE PRESIDENT

JAMES S. BROWN
CHIEF OPERATING OFFICER

JOHN D. PERINI CHIEF FINANCIAL OFFICER

January 3, 2012

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

Re: Lotus SWD #4

Dear Sirs:

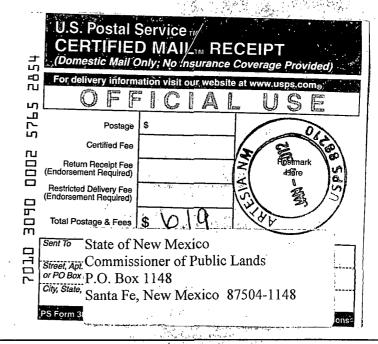
Enclosed please find copies of form C-108 (Application for Authority to Inject) on said well located in Section 32 T22S, R32E of Lea County, New Mexico.

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

Sincerely,

Margrethe Hotter

Area Engineer



MARTIN YATES, III 1912-1985

FRANK W. YATES 1936-1986

S.P. YATES



105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

JOHN A. YATES CHAIRMAN OF THE BOARD

JOHN A. YATES JR.

SCOTT M. YATES

JAMES S. BROWN

JOHN D. PERINI CHIEF FINANCIAL OFFICER

January 3, 2012

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Sincerely,

Margrethe Hotter Area Engineer



FRANK W. YATES 1936-1986

> S.P. YATES 1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

JOHN A. YATES

JOHN A. YATES JR.
PRESIDENT

SCOTT M. YATES

JAMES S. BROWN
CHIEF OPERATING OFFICER

JOHN D. PERINI CHIEF FINANCIAL OFFICER

January 3, 2012

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Margrethe Hotter Area Engineer



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S.P. YATES



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
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January 3, 2012

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

Sincerely

Margaella Hutter Margrethe Hotter 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 December 23, 2011 and ending with the issue dated December 23, 2011

PUBLISHER

Sworn and subscribed to before me

this 28th day of December, 2011

Notary Public

My commission expires February 09, 2015

(Seal)

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 **DECEMBER 23, 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 #4 located 990' FNL & 330' FWL, Unit D, 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 5850'-6450' with a maximum pressure of 1170 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.

ATTN: MARGRETHE F. HOTTER YATES PETROLEUM CORPORATION: P.O. BOX 97

ARTESIA, NM 88210

Attachment G

C-108 Application for Authorization to Inject Yates Petroleum Corporation Lotus SWD #4 Unit D, 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

Date

Injection Permit Checklist (11/15/2010)		150							
WFXPMXSWD_[314]	Permit Date	UIC QI		F/M)					
# Wells Well Name(s): Lotus Sw	0#4/	<u>vos</u>	LOTUS AL	T Se #4)					
API Num: 30-0 25-36135 Spud Date: 3/2/05 New/Old: New/Old									
Footages 990 FNL/330 FWL Unit	D Sec 32 Tsp	225	Rge <u>32</u> County	-LEA					
General Location: 26 mi Sw of	Red	4 mil 1	E. of WIF	P					
Operator: Yatas PETROLEUM COR	PRATION	Contact	Margrette H.	OTTER					
OGRID 255 RULE 5.9 Compliance (Wells	3/260	(Finan As:	sur) 0 (C +S 5.9 OK	OK					
Well File Reviewed Current Status: Non	muneral 0	el 706	2-8392	Lat Red Go					
Planned Work to Well: PLUG BACK P.	erf, EQUI	A IT							
	Elogs in Imaging File:			····					
Sizes Well Details HolePipe	Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method					
New _Existing Surface 133/8	- 853		670	CIRC					
New_Existing _Interm	4475		1220	CIRC					
New_Existing Longst 717-5/2	8,6007	4463	870/450	CIRC/CIRC					
New_Existing Liner									
NewExisting OpenHole									
Depths/Formations: Depths, Ft.	Formation	Tops?	,						
Formation(s) Above 5546	Charry								
Injection TOP: 5850	Charry C.	Max. PSI	170 OpenHole	Perfs					
Injection BOTTOM: 6450	Charge.	Tubing Siz	VL _2718	57501					
6838	Brushy C.	1							
Formation(s) Below 8482	B S.		0 FT 426						
Capitan Reef? (Potash? Noticed? (WIPF	S?Noticed?] Salado Top/	Bot 956-434	_Cliff House?					
Fresh Water: Depths: 255 Formation	Wells?	NO Ana	alysis?Affirmative S	Statement					
Disposal Fluid Analysis? Sources: Del	sure_		 						
Disposal Interval: Analysis? Production Potential	I/Testing:	//-{ -	·						
Notice: Newspaper Date 123 11 Surface Owner	SLO	(1/4/18	Mineral Owner(s)						
RULE 26.7(A) Affected Persons:	/ Yalou ET	XL1/2	DXY Chun	/Z8ZDQ					
AOR: Maps? Well List? Producing in Interval?	Wellbore Diagra	de (Ams? E		•					
		1							
Active Wells Repairs? WhichWells?									
P&A Well Repairs? Which Wells?	-	· · · · · · · · · · · · · · · · · · ·							
leques			Request Sent	Reply					
lssues:			Request Sent	Reply:					