

DATE IN 09/13/13	SUSPENSE	ENGINEER PRG	LOGGED IN 09/16/13	TYPE SWD	PPR NO. PRG1325960083
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-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]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF 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

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

Yates
Fruit St. SWD#1
API - pending
A/19/T215/R34E

Delaware

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ X Offset Operators, Leaseholders or Surface Owner

[C] ☒ X Application is One Which Requires Published Legal Notice

[D] ☒ X Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ X For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

Cherry Canyon

[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.

Margrethe F. Hotter

Print or Type Name

Signature

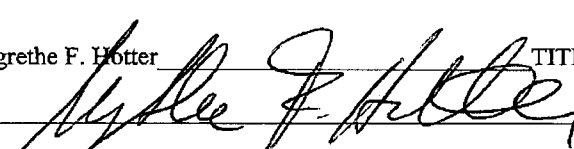
Area Engineer

Title

9/6/13
Date

mhotter@yatespetroleum.com
e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ x _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ x _____ Yes _____ No
- II. OPERATOR: _____ Yates Petroleum Corporation _____
ADDRESS: _____ 105 S. 4th St, Artesia, NM 88210 _____
CONTACT PARTY: _____ Margrethe F. Hotter _____ PHONE: _____ 575-748-4165 _____
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes _____ x _____ No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: _____ Margrethe F. Hotter _____ TITLE: _____ Area Engineer _____
SIGNATURE: _____  _____ DATE: _____ 10/25/13 _____
E-MAIL ADDRESS: _____ mhotter@yatespetroleum.com _____
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.
Please show the date and circumstances of the earlier submittal: _____ 9/6/13 _____

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

**C-108 Application for Authorization to Inject
Yates Petroleum Corporation
Fruit St SWD #1
Unit A, 330' FNL & 330' FEL, Sec. 19, T21S, R34E
Lea County, New Mexico**

- I. The purpose of drilling this well is to make a disposal well for produced Bone Springs and Delaware water into the Delaware Sand formation. The Application qualifies for administrative approval.**

Yates Petroleum Corporation plans to drill this well as 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 no other wells within the area of review.**
- VII. 1. Proposed average daily injection volume approximately 5000 BWPD. Maximum daily injection volume approximately 10000 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 and Bone Springs. (Attachment D)**
- VIII. 1. The proposed injection interval is the portion of the Delaware Sand formation consisting of porous Sandstone from 5,745'-7,125.**

**Application for Authorization to Inject
Fruit St SWD #1**

-2-

2. Possible Fresh water zones overlie the proposed injection formations at depths to approximately 150' based on well records from fresh water wells in Sec 11 T21S 33E and Sec 8,21&28 of 21S 34E. 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. Well logs will be filed with the Division after well is drilled. GR Neutron will be run from TD to surface. Density and Laterolog will be run from TD to Intermediate casing shoe. CBL log will be run after casing is set and cemented.
- XI. There are no windmills or 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
Fruit St SWD #1
A-19-T21S-R34E
Lea County, New Mexico**

Attachment A

III. Well Data

- A. 1. Lease Name/Location
Fruit St SWD #1
A-19-T21S-R34E
330' FNL & 330' FEL
Will apply for APD when C-108 is approved.
2. Casing Strings:
a. 13 3/8" 48# & 54.5# J-55 ST&C @t +/-1,830' w 1,345 sx (circ)
9 5/8" 36# & 40# J-55 LT&C @ +/-5,700' w/1925 sx (circ)
7" 26# L-80 LT&C @ 7,200' w/830 sx (circ).
- b. Present Status:
Not yet drilled.
3. Proposed well condition:
Plan to drill well and set casing as described above.
Perforate porous sands between 5,745'-7,125'
3 1/2" 9.3 J55 plastic-coated injection tubing @ 5,645'
4. Propose to use Guiberson or Baker plastic-coated or nickel-plated packer set at 5,645'.
- B. 1. Injection Formation: Delaware Cherry Canyon Sands
2. Injection Interval will be through perforations from approximately 5,745'-7,125' gross interval.
3. Well will be a Delaware water disposal well when work is completed.
4. Perforations: High porosity sands between 5,745'-7,125'.
5. Next higher (shallower) oil or gas zone within 2 miles- no shallower production within 2 miles
Next lower (deeper) oil or gas zone within 2 miles- Bone Springs

WELL NAME: Fruit St SWD #1 FIELD: _____

LOCATION: 330' FNL & 330' FEL of Section 19-21S-34E Lea Co., NM

GL: 3,707' (est) ZERO: _____ KB: _____ 3,725' (est)

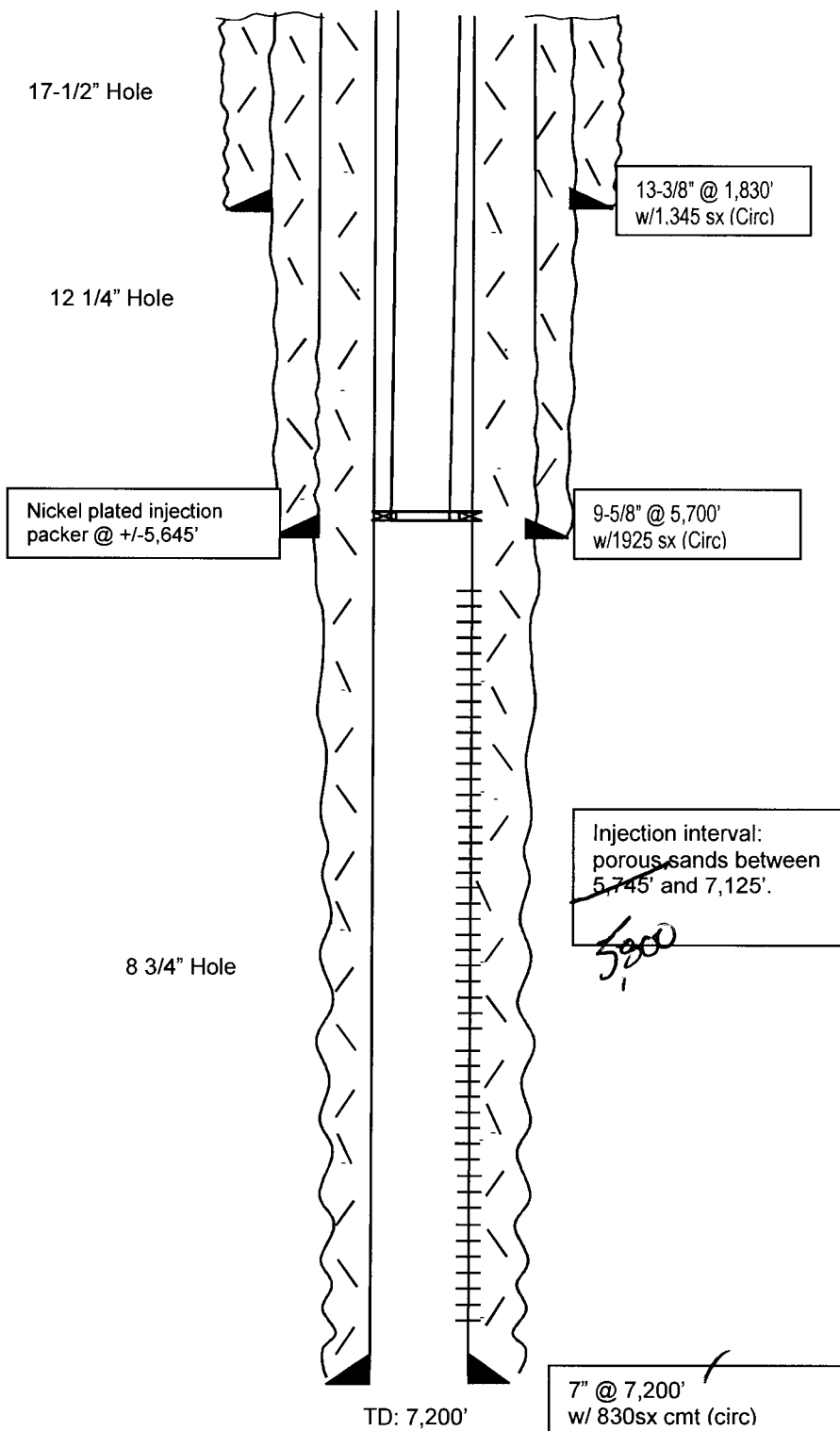
SPUD DATE: _____ COMPLETION DATE: _____

CASING PROGRAM

COMMENTS: New drill. APD application will be filed.

13-3/8" 48 & 54.5# J-55 ST&C	1,830'
9-5/8" 36# & 40# J-55 LT&C	5,700'
7" 26 # L-80 LT&C	7,200'

Proposed

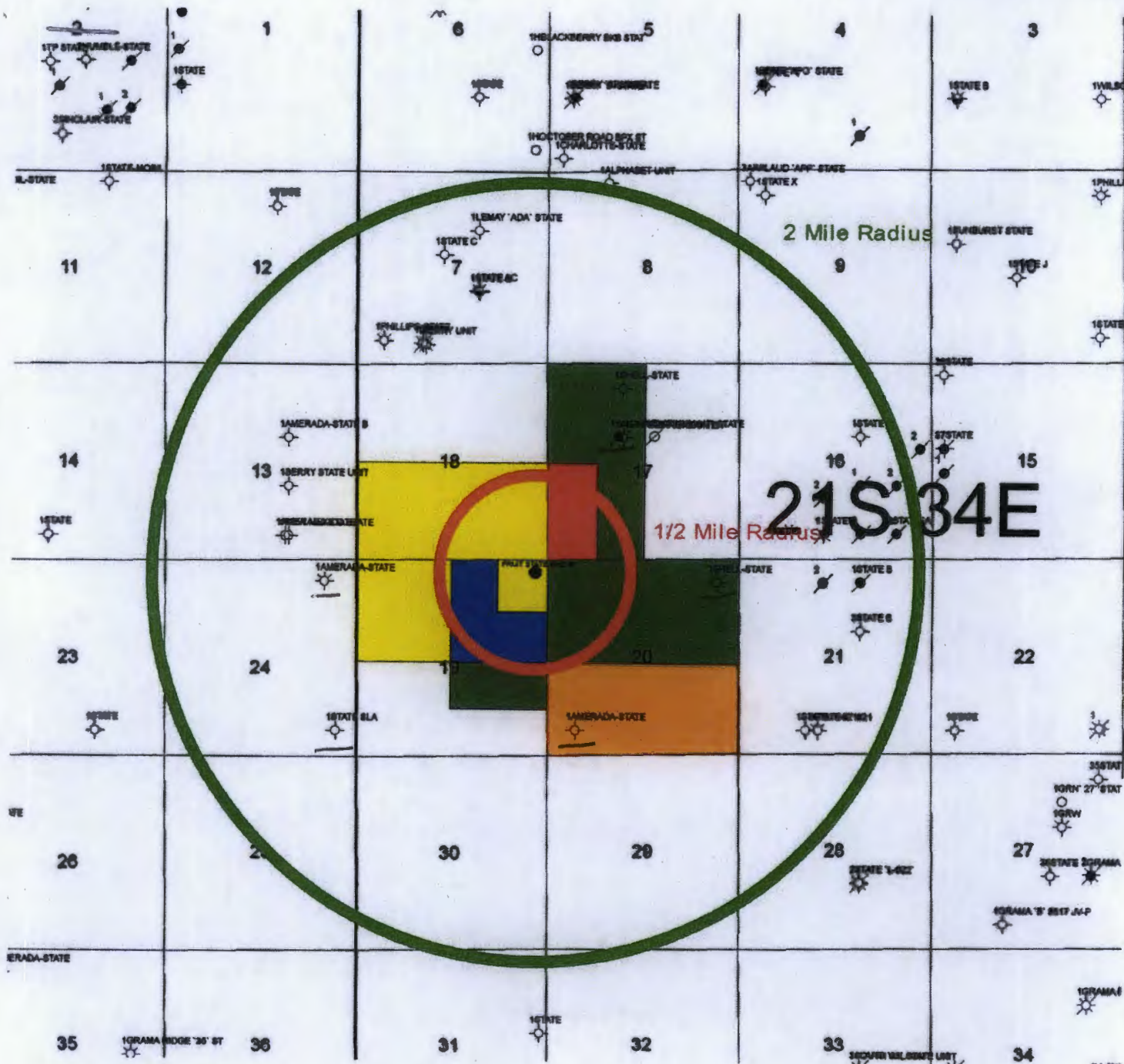


TOPS

Rustler 1,805'
TOS 1,945'
BOS 3,675'
Tansill 3,715'
Yates 3,905'
Capitan 4,215'
Lamar 5,675'
Cherry Canyon 5,745'
Brushy Canyon 7,125'

Coat Hiss
~1500'

Not to Scale
8/30/13
MMFH



- Yates Petroleum Corporation, ETAL
- New Mexico Exploration and Production, LLC
- Elevation Resources, LLC
- EOG Resources, LLC
- COG Operating, LLC

Yates Petroleum Corporation		
Lea County, NM Fruit State SWD #1 Plot: 21S-34E		
Author:	Scale:	Date:
Rev. M.	Scale:	12 November 2013
12	Scale:	12 November 2013

Attachement B

WATER ANALYSIS REPORT

Company	: YATES PETROLEUM	Date	: 8/3/13
Address	: ARTESIA, NM	Date Sampled	: 8/2/13
Lease	: HUNT "APO"	Analysis No.	: 00603
Well	: # 1		
Sample Pt.	: SEPARATOR		

ANALYSIS		mg/L	* meq/L
-----		----	-----
1. pH	5.6		
2. H2S	0		
3. Specific Gravity	1.170		
4. Total Dissolved Solids		275114.6	
5. Suspended Solids		NR	
6. Dissolved Oxygen		NR	
7. Dissolved CO2		NR	
8. Oil In Water		NR	
9. Phenolphthalein Alkalinity (CaCO3)			
10. Methyl Orange Alkalinity (CaCO3)			
11. Bicarbonate	HCO3	171.0	HCO3 2.8
12. Chloride	Cl	169400.0	Cl 4778.6
13. Sulfate	SO4	375.0	SO4 7.8
14. Calcium	Ca	24800.0	Ca 1237.5
15. Magnesium	Mg	1473.8	Mg 121.3
16. Sodium (calculated)	Na	78864.8	Na 3430.4
17. Iron	Fe	30.0	
18. Barium	Ba	NR	
19. Strontium	Sr	NR	
20. Total Hardness (CaCO3)		68000.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
+-----+	-----	-----	-----
1238 *Ca <----- *HCO3 3	Ca(HCO3)2	81.0 2.8	227
----- /-----> -----	CaSO4	68.1 7.8	531
121 *Mg -----> *SO4 8	CaCl2	55.5 1226.9	68081
----- <-----/ -----	Mg(HCO3)2	73.2	
3430 *Na -----> *Cl 4779	MgSO4	60.2	
+-----+	MgCl2	47.6 121.3	5772
Saturation Values Dist. Water 20 C	NaHCO3	84.0	
CaCO3 13 mg/L	Na2SO4	71.0	
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4 3430.4	200472
BaSO4 2.4 mg/L			

REMARKS:

Attachment D

Example of water to be disposed into well

WATER ANALYSIS REPORT

Company	: YATES PETROLEUM	Date	: 8/3/13
Address	: ARTESIA, NM	Date Sampled	: 8/2/13
Lease	: BLACKBERRY "BKB"	Analysis No.	: 00602
Well	: # 1-H		
Sample Pt.	: FWKO		

ANALYSIS		mg/L	* meq/L
-----		----	-----
1.	pH	6.3	
2.	H2S	0	
3.	Specific Gravity	1.102	
4.	Total Dissolved Solids	165739.4	
5.	Suspended Solids	NR	
6.	Dissolved Oxygen	NR	
7.	Dissolved CO2	NR	
8.	Oil In Water	NR	
9.	Phenolphthalein Alkalinity (CaCO3)		
10.	Methyl Orange Alkalinity (CaCO3)		
11.	Bicarbonate	HCO3 683.0	HCO3 11.2
12.	Chloride	Cl 100020.0	Cl 2821.4
13.	Sulfate	SO4 2000.0	SO4 41.6
14.	Calcium	Ca 4320.0	Ca 215.6
15.	Magnesium	Mg 2723.2	Mg 224.0
16.	Sodium (calculated)	Na 55973.3	Na 2434.7
17.	Iron	Fe 20.0	
18.	Barium	Ba NR	
19.	Strontium	Sr NR	
20.	Total Hardness (CaCO3)	22000.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
+-----+			
216 *Ca <----- *HCO3	11 Ca (HCO3)2	81.0 11.2	907
----- /----->	----- CaSO4	68.1 41.6	2835
224 *Mg -----> *SO4	42 CaCl2	55.5 162.7	9030
----- <-----/	----- Mg (HCO3)2	73.2	
2435 *Na -----> *Cl	2821 MgSO4	60.2	
+-----+	+-----+	MgCl2	47.6 224.0 10665
Saturation Values Dist. Water 20 C	NaHCO3	84.0	
CaCO3 13 mg/L	Na2SO4	71.0	
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4 2434.7	142283
BaSO4 2.4 mg/L			

REMARKS:

Example of water to be disposed into wells

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
 Address : ARTESIA, NM
 Lease : BERRY "APN"
 Well : #2-H
 Sample Pt. : HEATER

Date : 7/12/13
 Date Sampled : 7/11/13
 Analysis No. : 00146

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	6.0			
2. H2S	0			
3. Specific Gravity	1.110			
4. Total Dissolved Solids		171404.6		
5. Suspended Solids		NR		
6. Dissolved Oxygen		NR		
7. Dissolved CO2		NR		
8. Oil In Water		NR		
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)				
11. Bicarbonate	HCO3	244.0	HCO3	4.0
12. Chloride	Cl	105600.0	Cl	2978.8
13. Sulfate	SO4	750.0	SO4	15.6
14. Calcium	Ca	11440.0	Ca	570.9
15. Magnesium	Mg	2776.5	Mg	228.4
16. Sodium (calculated)	Na	50559.2	Na	2199.2
17. Iron	Fe	35.0		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO3)		40000.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt X meq/L	=	mg/L
-----+	-----+	-----	-----		-----
571 *Ca <----- *HCO3	4	Ca(HCO3)2	81.0	4.0	324
----- /----->	-----	CaSO4	68.1	15.6	1063
228 *Mg -----> *SO4	16	CaCl2	55.5	551.2	30588
----- <-----/	-----	Mg(HCO3)2	73.2		
2199 *Na -----> *Cl	2979	MgSO4	60.2		
-----+	-----+	MgCl2	47.6	228.4	10874
Saturation Values Dist. Water 20 C		NaHCO3	84.0		
CaCO3	13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O	2090 mg/L	NaCl	58.4	2199.2	128520
BaSO4	2.4 mg/L				

REMARKS:

Example of water to be disposed into well

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
 Address : ARTESIA, NM
 Lease : BERRY "APN"
 Well : # 1
 Sample Pt. : SEPARATOR

Date : 8/3/13
 Date Sampled : 8/2/13
 Analysis No. : 00601

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	6.0			
2. H2S	0 ✓			
3. Specific Gravity	1.150			
4. Total Dissolved Solids		241813.4		
5. Suspended Solids		NR		
6. Dissolved Oxygen		NR		
7. Dissolved CO2		NR		
8. Oil In Water		NR		
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)				
11. Bicarbonate	HCO3	207.0	HCO3	3.4
12. Chloride	Cl	150100.0	Cl	4234.1
13. Sulfate	SO4	750.0	SO4	15.6
14. Calcium	Ca	19440.0	Ca	970.1
15. Magnesium	Mg	4724.9	Mg	388.7
16. Sodium (calculated)	Na	66541.5	Na	2894.4
17. Iron	Fe	50.0		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO3)		68000.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt	X meq/L	= mg/L
+-----+	+-----+				
970 *Ca <-----	3 *HCO3	Ca(HCO3)2	81.0	3.4	275
----- /----->	-----	CaSO4	68.1	15.6	1063
389 *Mg ----->	16 *SO4	CaCl2	55.5	951.0	52774
----- <-----/	-----	Mg(HCO3)2	73.2		
2894 *Na ----->	4234 *Cl	MgSO4	60.2		
+-----+	+-----+	MgCl2	47.6	388.7	18505
Saturation Values Dist. Water 20 C		NaHCO3	84.0		
CaCO3	13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O	2090 mg/L	NaCl	58.4	2894.4	169147
BaSO4	2.4 mg/L				

REMARKS:

Example of water to be
disposed into well

Attachment E

Certified 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

} Location within R-III-P description

2. Operators within ½ mile radius:

T21S-R34E
Section 17: W/2SW/4
Lease: B0-1040-0014

LeaCo New Mexico Exploration and Production, LLC
2000 Post Oak Blvd., Suite 100
Houston, TX
77056

T21S-R34E
Section 18: S/2
Lease: VB-2096-0000
&
Section 19: NW/4, NE/4NE/4
Lease: VB-2097-0001

Yates Petroleum Corporation
105 S. 4th St., Artesia, NM 88210

Myco Industries, Inc.
105 S. 4th St., Artesia, NM 88210

GMT Exploration Company, LLC
1560 Broadway, Suite 2000
Denver, CO 80202

The Allar Company
P.O. Box 1567
Graham, TX 76450-1567

Abo Petroleum Corporation
105 S. 4th St., Artesia, NM 88210

T21S-R34E
Section 19: NW/4NE/4 , SW/4NE/4 , SE/4NE/4
Lease: B0-1651-0015

EOG Resources
P.O. Box 2267
Midland, TX 79702

T21S-R34E
Section 19: NE/4SE/4, NW/4SE/4
Lease: VB-2089-0002
&
Section 17: NW/4; E/2SW/4
VB-2088-0002
&
Section 20: N/2
Lease: V0-8646-0002

Elevation Resources, LLC
200 N. Loraine, Ste. 1010
Midland, TX 79701

T21S-R34E
Section 20: S/2
Lease: V0-8688-0000

COG Operating, LLC
550 W. Texas Ave., Suite 100
Midland, TX
79701

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



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

JOHN A. YATES
CHAIRMAN EMERITUS

JOHN A. YATES JR.
CHAIRMAN OF THE BOARD
PRESIDENT

JOHN D. PERINI
EXECUTIVE VICE PRESIDENT
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

September 6th, 2013

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

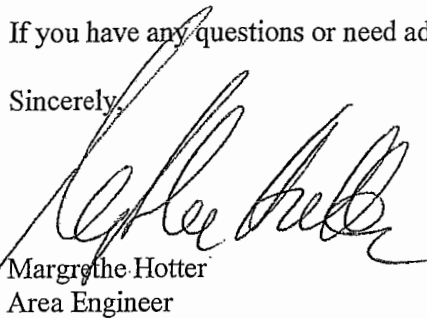
Re: Fruit St SWD #1

Dear Sirs:

Enclosed please find copies of form C-108 (Application for Authority to Inject) on said well located in Section 19 T21S, R34E 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

Enclosures

2010 3090 0002 5765 2816

U.S. Postal Service TM	
CERTIFIED MAIL TM RECEIPT	
(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$10.97
Sent To	State of New Mexico
Street, Apt or PO Box	Commissioner of Public Lands P.O. Box 1148
City, State	Santa Fe, New Mexico 87504-1148
PS Form 3800, April 2010	

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KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER

Attachment E

MARTIN YATES, III

1912-1985

FRANK W. YATES

1936-1986

S.P. YATES

1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

www.yatespetroleum.com

JOHN A. YATES
CHAIRMAN EMERITUS

JOHN A. YATES JR.
CHAIRMAN OF THE BOARD
PRESIDENT

JOHN D. PERINI
EXECUTIVE VICE PRESIDENT
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

September 6th, 2013

COG Operating, LLC
550 W. Texas Ave., Suite 100
Midland, TX 79701

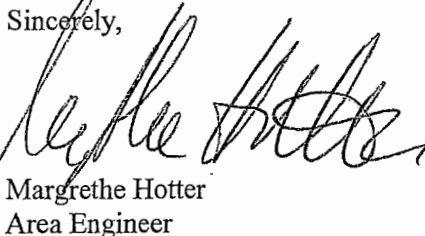
Re: Fruit St SWD #1

Dear Sirs:

Enclosed please find copies of form C-108 (Application for Authority to Inject) on said well located in Section 19 T21S, R34E 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

Enclosures

7010 3090 0002 5765 2809

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City, State	Midland, TX 79701
PS Form 3849, April 2012	

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1912-1985

FRANK W. YATES

1936-1986

S.P. YATES

1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

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CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

September 6th, 2013

Elevation Resources, LLC
200 N. Loraine, Ste. 1010
Midland, TX 79701

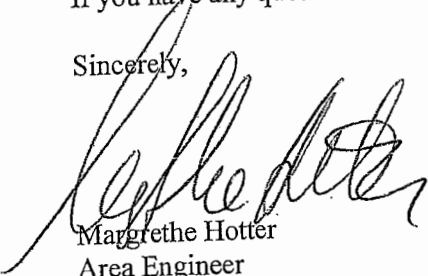
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Margrethe Hotter
Area Engineer

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City, State,
Elevation Resources, LLC
200 N. Loraine, Ste. 1010
Midland, TX 79701

PS Form 3800

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KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



105 SOUTH FOURTH STREET
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JAMES S. BROWN
CHIEF OPERATING OFFICER

September 6th, 2013

Abo Petroleum Corporation
105 S. 4th St
Artesia, NM 88210

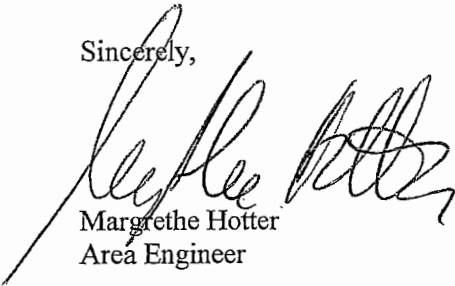
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Sincerely,


Margrethe Hotter
Area Engineer

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PS Form 3841	

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ARTESIA NM
SEP - 9 2013

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TREASURER

MARTIN YATES, III
1912-1985
FRANK W. YATES
1936-1986
S.P. YATES
1914-2008



105 SOUTH FOURTH STREET
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JAMES S. BROWN
CHIEF OPERATING OFFICER

September 6th, 2013

The Allar Company
P.O Box 1567
Graham, TX 76450-1567

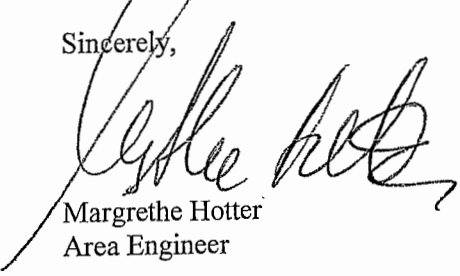
Re: Fruit St SWD #1

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

Sincerely,


Margrethe Hotter
Area Engineer

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S.P. YATES
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EXECUTIVE VICE PRESIDENT
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

September 6th, 2013

GMT Exploration Company, LCC
1560 Broadway, Suite 2000
Denver, CO 80202

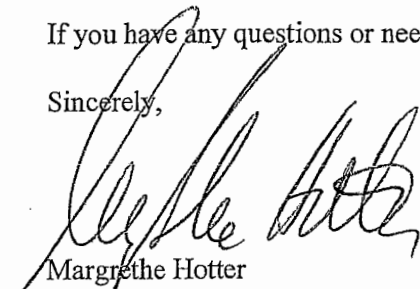
Re: Fruit St SWD #1

Dear Sirs:

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

Sincerely,


Margrethe Hotter
Area Engineer

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Street, Apt. or PO Box	1560 Broadway, Suite 2000
City, State, & ZIP	Denver, CO 80202
PS Form 38	

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ARTESIA, NM
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S.P. YATES
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www.yatespetroleum.com

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JAMES S. BROWN
CHIEF OPERATING OFFICER

September 6th, 2013

EOG Resources Inc
P.O. Box 2267
Midland, TX 79702

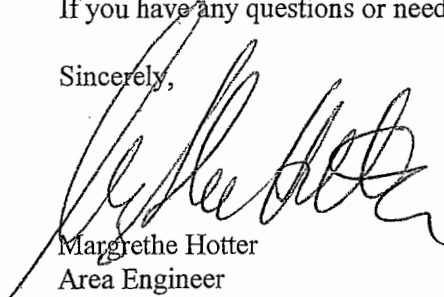
Re: Fruit St SWD #1

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Sincerely,


Margrethe Hotter
Area Engineer

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Street, Ap or PO Box	P.O. Box 2267
City, State	Midland, TX 79702
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DENNIS G. KINSEY
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1936-1986

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1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
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EXECUTIVE VICE PRESIDENT
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

September 6th, 2013

Myco Industries Inc
105 S. 4th St
Artesia, NM 88210

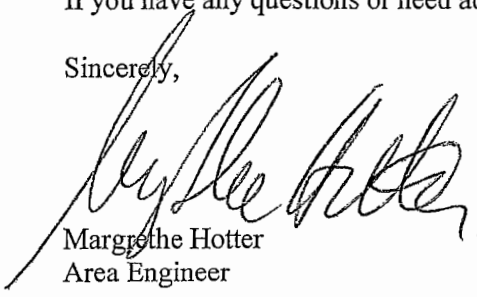
Re: Fruit St SWD #1

Dear Sirs:

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

Sincerely,


Margrethe Hotter
Area Engineer

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Sent To
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or PO Box
City, State,

Myco Industries Inc
105 S. 4th St
Artesia, NM 88210

PS Form 3

ions

KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



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

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CHAIRMAN EMERITUS

JOHN A. YATES JR.
CHAIRMAN OF THE BOARD
PRESIDENT

JOHN D. PERINI
EXECUTIVE VICE PRESIDENT
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

September 6th, 2013

LeaCo New Mexico Exploration and Production LLC.
2000 Post Oak Blvd, Suite 100
Houston, TX 77056


Re: Fruit St SWD #1

Dear Sirs:

Enclosed please find copies of form C-108 (Application for Authority to Inject) on said well located in Section 19 T21S, R34E 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

Enclosures

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Total Postage & Fees	\$ 6.51
Sent To	LeaCo New Mexico Exploration and Production LLC.
Street, Apt. No. or PO Box No.	2000 Post Oak Blvd, Suite 100
City, State, ZIP	Houston, TX 77056
PS Form 3800	

ARTESIA NM
Postmark Here
SEP - 9 2013
USPS 88210

Affidavit of Publication

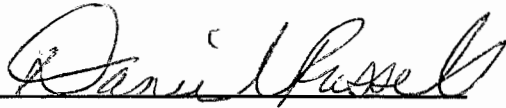
State of New Mexico,
County of Lea.

I, DANIEL RUSSELL
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
August 31, 2013
and ending with the issue dated
August 31, 2013



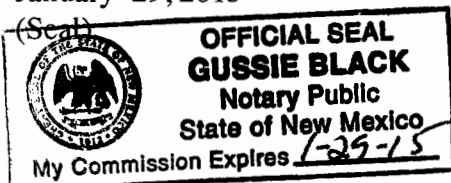
PUBLISHER

Sworn and subscribed to before me
this 3rd day of
September, 2013



Notary Public

My commission expires
January 29, 2015



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

LEGAL NOTICE AUGUST 31, 2013

Legal Notice

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 Fruit St SWD #1, located 330' FNL & 330' FEL, Unit A, Section 19, Township 21 South, Range 34 East of Lea County, New Mexico, will be used for saltwater disposal. Produced waters from the Bone Springs and Delaware will be re-injected into the Delaware Sand at a depth of 5,745'-7,125' with a maximum pressure of 1,150 psi and a maximum rate of 10,000 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.
#28403

01101029

00121606

ATTN: MARGRETHE F. HOTTER
YATES PETROLEUM CORPORATION
ATTN: H R DEPARTMENT
P.O. BOX 97
ARTESIA, NM 88210


Attachment F

Attachment G

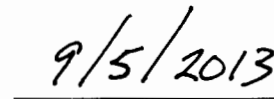
C-108 Application for Authorization to Inject
Yates Petroleum Corporation
Fruit St SWD #1

Unit A, Section 19-T21S-R34E
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.



John Humphrey
Geologist
Yates Petroleum Corporation



Date

MARTIN YATES, III
1912-1985
FRANK W. YATES
1936-1986
S.P. YATES
1914-2008



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

JOHN A. YATES
CHAIRMAN EMERITUS

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EXECUTIVE VICE PRESIDENT
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

September 6th, 2013

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

Re: Application for Authorization to Inject
Fruit St SWD #1
330'FNL&330FEL, sec 19 21S 34E
Lea County, New Mexico

Dear Mr. Philip Goetze

Yates Petroleum Corporation respectfully requests administrative approval for authorization to inject for the Fruit St SWD #1 well as referenced above.

Attached, for your review, is a copy of the C-108 application.

Please don't hesitate to contact me at (575) 748 4165 if you have any questions or need additional information.

Sincerely,

Margrethe Hotter
Area Engineer

Enclosures



C-108 Review Checklist: Received 09/16/13 Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 10]

PERMIT TYPE: WFX / PMX / SWD Number: 1449 Permit Date: 10/25/13 Legacy Permits/Orders: None

Well No. 1 Well Name(s): Fruit St SWD [Admin PPRG 1325960083]

API: 30-025-Pending Spud Date: TBD New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 330 FNL / 330 FEL Lot - Unit A Sec 19 Tsp 215 Rge 34E County Lea

General Location: Gramma Ridge area / 1/8 mi W of oil center Pool: Closest pool - Bone Spring Pool No.: —
Gramma Pools

Operator: Yates Petroleum Corp OGRID: 25575 Contact: M. Hottel

COMPLIANCE RULE 5.9: Inactive Wells: 5 Total Wells: 2229 Fincl Assur: Yes Compl. Order? No IS 5.9 OK? Yes

Well File Reviewed ☒ Current Status: No API / no well record file - reviewed wells in area for logs & ITC potential

Well Diagrams: NEW: Proposed ☒ RE-ENTER: Before Conv. ☐ After Conv. ☐ Are Elogs in Imaging?: _____

Planned Rehab Work to Well: NA - new well

Well Construction Details:		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sk or Cf	Cement Top and Determination Method
Planned ___ or Existing ___	Conductor	—	—	—	—
Planned ___ or Existing ___	Surface	17 1/2 / 13 3/8	0 to 1830	1345	Circulate to surf
Planned ___ or Existing ___	Interm/Prod	12 1/4 / 9 5/8	0 to 5700	1925	Circulate to surf
Planned ___ or Existing ___	Prod/Interm	8 3/4 / 7	0 to 7200	830	Circulate to surf
Planned ___ or Existing ___	Liner/Prod	—	—	—	—
Planned <input checked="" type="checkbox"/> or Existing ___	OH / PERP	8 3/4 / 7	5745 - 7125	Inj Length 1280	1325 Completion/Operation Details:
Injection Stratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops?	Drilled TD <u>NA</u> PBTD <u>NA</u>
Adjacent Unit: Litho. Struc. Por.	+70	Capitan Reef	4215	NEW TD <u>7200</u> NEW PBTD <u>7200</u>	
Confining Unit: <u>Litho.</u> <u>Struc.</u> <u>Por.</u>	+40	Lamar sand	5675	NEW Open Hole <input type="checkbox"/> or NEW Perfs <input checked="" type="checkbox"/>	
Proposed Inj Interval TOP:	5800	Cherry Canyon	5745	Tubing Size <u>3 1/2</u> in. Inter Coated? <u>Yes</u>	
Proposed Inj Interval BOTTOM:	7125	Formation	—	Proposed Packer Depth <u>5645</u> ft	
Confining Unit: <u>Litho.</u> <u>Struc.</u> <u>Por.</u>	+0	Bowling Canyon	7125	Min. Packer Depth <u>5645</u> (100-ft limit)	
Adjacent Unit: Litho. Struc. Por.	—	Bone Spring	—	Proposed Max. Surface Press <u>1150</u> psi	
AOR: Hydrologic and Geologic Information					Admin. Inj. Press. <u>1449/1100</u> (10.2 psi per ft)
* POTASH: R-111-P <input checked="" type="checkbox"/> Noticed? <u>SLO</u> BLM Sec Ord <input checked="" type="checkbox"/> WIPP <input type="checkbox"/> Noticed? <u>NA</u> SALADO: T: <u>1945</u> B: <u>3675</u> CLIFF HOUSE <u>NA</u>					
FRESH WATER: Formation <u>Alluvial</u> Max Depth <u>340'</u> Wells? <u>0</u> FW Analysis <u>NA</u> HYDROLOGIC AFFIRM By Qualified Person <input checked="" type="checkbox"/>					
Disposal Fluid: Formation Source(s) <u>Bone Spring / Delaware Prod.</u> Analysis? <u>Yes</u> On Lease <input type="checkbox"/> Operator Only <input checked="" type="checkbox"/> or Commercial <input type="checkbox"/>					
Disposal Interval: Injection Rate (Avg/Max BWPD): <u>5000/10000</u> Protectable Water: <u>Salinity from log or sample</u> CAPITAN REEF: thru <input checked="" type="checkbox"/> adj <input type="checkbox"/> NA <input type="checkbox"/> <u>Below Capitan</u>					
H/C Potential: Producing Interval? <u>No</u> Formerly Producing? <u>No</u> Method: E Log / Mudlog / DST / Depleted / Other _____					
AOR Wells: 1/2-M Radius Map? <u>Yes</u> Well List? <u>NA</u> Total No. Wells Penetrating Interval: <u>0</u> Horizontals? <u>0</u>					
Penetrating Wells: No. Active Wells <u>0</u> Num Repairs? <u>0</u> on which well(s)? _____ Diagrams? <u>NA</u>					
Penetrating Wells: No. P&A Wells <u>0</u> Num Repairs? <u>0</u> on which well(s)? _____ Diagrams? <u>NA</u>					
NOTICE: Newspaper Date <u>08/31/2013</u> Mineral Owner <u>SLO</u> Surface Owner <u>SLO</u> N. Date <u>Sept 6</u>					
RULE 26.7(A): Identified Tracts? <u>Yes</u> Affected Persons: <u>Aho Pet / Leaco NM E&P / Myco / GMT Expl.</u> N. Date <u>09/06/13</u>					

Permit Conditions: Issues: No formation info on water / EOG / COG / Allar Company / Elevation Res

Add Permit Cond: Added depth to top perf -> 5800 ft / Swab & water test

* Disposal: a B-111-P / release on 2-2-2013 from 14 miles west



Cartographic Features

- County Boundaries
- County Seats
- City, Town or Village
- SLO District Offices
- SLO District Boundary
- Hwy Mileposts
- Interstate
- US Hwy
- NM Hwy
- Local Road
- Continental Divide

Federal Minerals Ownership

- All Minerals
- Coal Only
- Oil and Gas Only
- Oil, Gas and Coal Only
- Other Minerals

State Trust Lands

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

State Leases

- Oil and Gas Leases
- Agricultural Leases
- Commercial Leases
- Minerals Leases
- Not Available for Oil and Gas Leasing
- Oil and Gas Leasing Influenced by Restriction

Oil and Gas Related Features

- Oil and Gas Unit Boundary
- Participating Areas in Units
- Geologic Regions
- Volcanic Vents
- NMOCD Order R-111-P Potash Enclave Outline

NMOCD Oil and Gas Wells

- CO₂
- Injection
- Oil
- Water
- Gas
- Miscellaneous
- Salt Water Disposal
- DA or PA

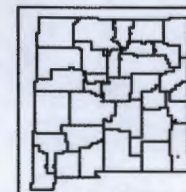
New Mexico State Land Office Oil, Gas and Minerals

0 0.05 0.1 0.2 0.3 0.4
Miles

Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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Land Office Geographic Information Center
logic@slo.state.nm.us



www.nmstatelands.org

Created On: 10/25/2013 9:07:54 AM

LEA COUNTY—025 NM-6
TOWNSHIP 21 SOUTH, RANGE 34 EAST, OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO.

STATUS OF PUBLIC DOMAIN LAND AND MINERAL TITLES

MTP

[illegible]

FOR ORDERS EFFECTING DISPOSAL OR USE OF UNIDENTIFIED
LANDS EITHERWAY FOR CLASSIFICATION, MINERALS, WATER
AND/OR OTHER PUBLIC PURPOSES. REFER TO INDEX OF
MISCELLANEOUS DOCUMENTS.

ALL TP INCLUDED IN:
EO SOL. AM I POP. RES. O, 5/11/1980

108 00

Sec. 12: $2\pi^4$
 Sec. 13: $2\pi^4$
 Sec. 14: $2\pi^4$

KPLA POTASH

Sec 17: NW
Sec 18: NW
Sec 19: NW
Sec 20: NW
Sec 21: NW
Sec 22: NW
Sec 23: NW
Sec 24: NW
Sec 25: NW
Sec 26: NW
Sec 27: NW
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Sec 98: NW
Sec 99: NW
Sec 100: NW

Estimated Print Area \$9 10/7/1976

Pages 5-6, Indicator A1
Pages 17-18, Indicator A1
Pages 29-30, Indicator A1

Sec 19/215/34E
330FNL/330FEL

Fruit St. SWD #1
No potash lease*
R-III-P

* State Land Office
Records (on-line)
10/25/13 - show no
lessee for potash -
Closest lessee - Intrepid
Potash NM in Sec 24/2S
of 21S/31E - R-III-P
a distance of $> 1/4$ miles west of SWD

WARNING STATEMENT

This plat is the Bureau's Record of Title, and should be used only as a graphic display of the township survey data. Records herein do not reflect title charges which may have been affected by lateral movements of rivers or other bodies of water. Refer to the cadastral surveys for official survey information.

Lgt 32° 26' 5 N
Long. 103° 27' W

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