

DATE IN 10.18.11	SUSPENSE 11/9/11	ENGINEER WVTJ	LOGGED IN 10.18.11	TYPE SWD	APP NO. 1129153694
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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



*Yates* (25575)  
*Allen B Fed. #1 SWD*

**ADMINISTRATIVE APPLICATION CHECKLIST** 30-025-78237

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 \_\_\_\_\_

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

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

[F] ☐ Waivers are Attached

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

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

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

Margrethe F. Hotter

Print or Type Name

Signature

Area Engineer

Title

9/21/11

Date

mhotter@yatespetroleum.com  
 e-mail Address

*3/238220K*  
*FA=OK*  
*NO POTASH*  
*10mi SE of WPP*  
*G-78-245-32E*  
*Federal*  
*5220'-6460'*  
*1150151*

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

JOHN A. YATES  
CHAIRMAN OF THE BOARD

JOHN A. YATES JR.  
PRESIDENT

SCOTT M. YATES  
VICE PRESIDENT

JAMES S. BROWN  
CHIEF OPERATING OFFICER

JOHN D. PERINI  
CHIEF FINANCIAL OFFICER

RECEIVED QCD  
2011 OCT 18 P 10 38

September 21, 2011

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

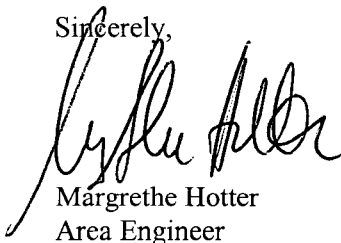
Re: Allen B Fed #1 SWD

Dear Sirs:

Enclosed please find copies of form C-108 (Application for Authority to Inject) on said well located in Section 28 T24S, 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

Enclosures

**C-108 Application for Authorization to Inject  
Yates Petroleum Corporation  
Allen B Federal #1 SWD  
Unit G, 1980' FNL & 1980' FEL, Sec. 28, T24S, R32E  
Lea County, New Mexico**

- I. The purpose of re-entering this well is to make a disposal well for produced Bone Springs and Delaware water into the Delaware Sand formation.**

**Yates Petroleum Corporation plans to re-enter 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 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 and Bone Springs. (Attachment D)**
- VIII. 1. The proposed injection interval is the portion of the Delaware Sand formation consisting of porous Sandstone from 5,220'-6,460.**

**Application for Authorization to Inject  
Allen B Fed #1 SWD**

**-2-**

2. Possible Fresh water zones overlie the proposed injection formations at depths to approximately 600' 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 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  
Allen B Fed #1 SWD  
G-28-T24S-R32E  
Lea County, New Mexico**

**Attachment A**

III. Well Data

- A. 1. Lease Name/Location  
Allen B Fed #1 SWD  
(Prev. Allen B Fed #1) —  
G-28-T24S-R32E  
1980' FNL & 1980' FEL  
API: 30-025-28237
2. Casing Strings:  
a. Present well condition  
13 3/8", 54.5# K-55 @ 642' w/640 sx (circ)  
8 5/8", 24# & 32# K-55 @ 4,675' w/2100 sx (circ).  
Cement plugs:  
8500'-8650' (50 sxs)  
6512'-6662' (50 sxs)  
4553-4853' (90 sxs)  
75' to surface, RediMix
- b. Present Status:  
P&A. Spudded by Exxon Corporation in July 1983, and plugged  
by Exxon Corporation in August 1983.
3. Proposed well condition:  
13 3/8" and 8 5/8" casings same as above.  
Set 15.5# J-55 casing @ 6,550' and circ cement to surface.  
Perforate porous sands between 5220'-6460'  
3 1/2" 9.3 J55 or 2-7/8" 6.5 J55 plastic-coated injection tubing @ 5,120'
4. Propose to use Guiberson or Baker plastic-coated or nickel-plated packer  
set at 5,120'.
- B. 1. Injection Formation: Delaware Sands
2. Injection Interval will be through perforations from approximately  
5,220'-6460' gross interval.
3. Well was originally drilled as a Bone Springs and Delaware oil well. Well  
will be a Delaware water disposal well when work is completed.
4. Perforations: High porosity sands between 5220'-6460'.
5. Next higher (shallower) oil or gas zone within 2 miles- Bell Canyon.  
Next lower (deeper) oil or gas zone within 2 miles- Brushy Canyon

**WELL NAME:** Allen B Federal #1 **FIELD:** Wildcat Bone Springs, Undesignated Double X Delaware  
**LOCATION:** 1,980' FNL & 1980' FEL of Section 28-24S-32E Lea Co., NM

**GL:** 3,540' **ZERO:** **KB:**

**SPUD DATE:** 7/29/83 **COMPLETION DATE:**

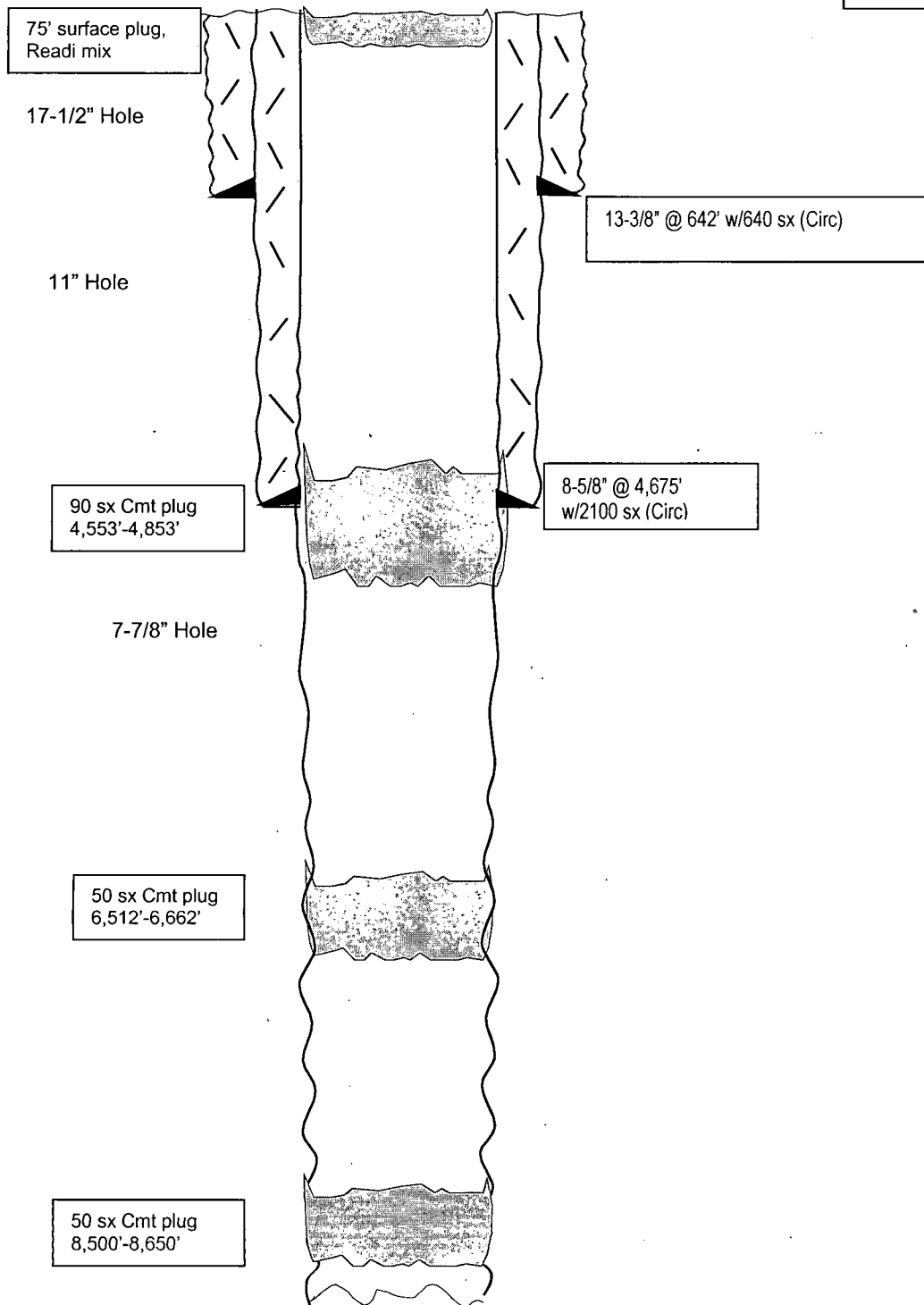
**COMMENTS:** API No.: 30-025-28237

P&A 8/31/1983

Drilled & P&A by Exxon Corporation

**CASING PROGRAM**

13-3/8" 54.5# K-55	642'
8-5/8" 24# & 32# K-55	4,675'



**Current**

**TOPS**

Rustler	1,033'
Salado	1,339'
Castille	3,298'
BOS	4,648'
Lamar lime	4,716'
Bell Canyon	4,742'
Cherry Canyon	5,684'
Brushy Canyon	6,976'
Bone Springs	8,634'

TD: 8,710'

**Not to Scale**

9/6/11  
MMFH

**WELL NAME:** Allen B Federal #1 SWD **FIELD:** Wildcat Bone Springs; Undesignated Double X Delaware  
**LOCATION:** 1,980' FNL & 1980' FEL of Section 28-24S-32E Lea Co., NM

**GL:** 3,540' **ZERO:** **KB:**

**SPUD DATE:** 7/29/83 **COMPLETION DATE:**

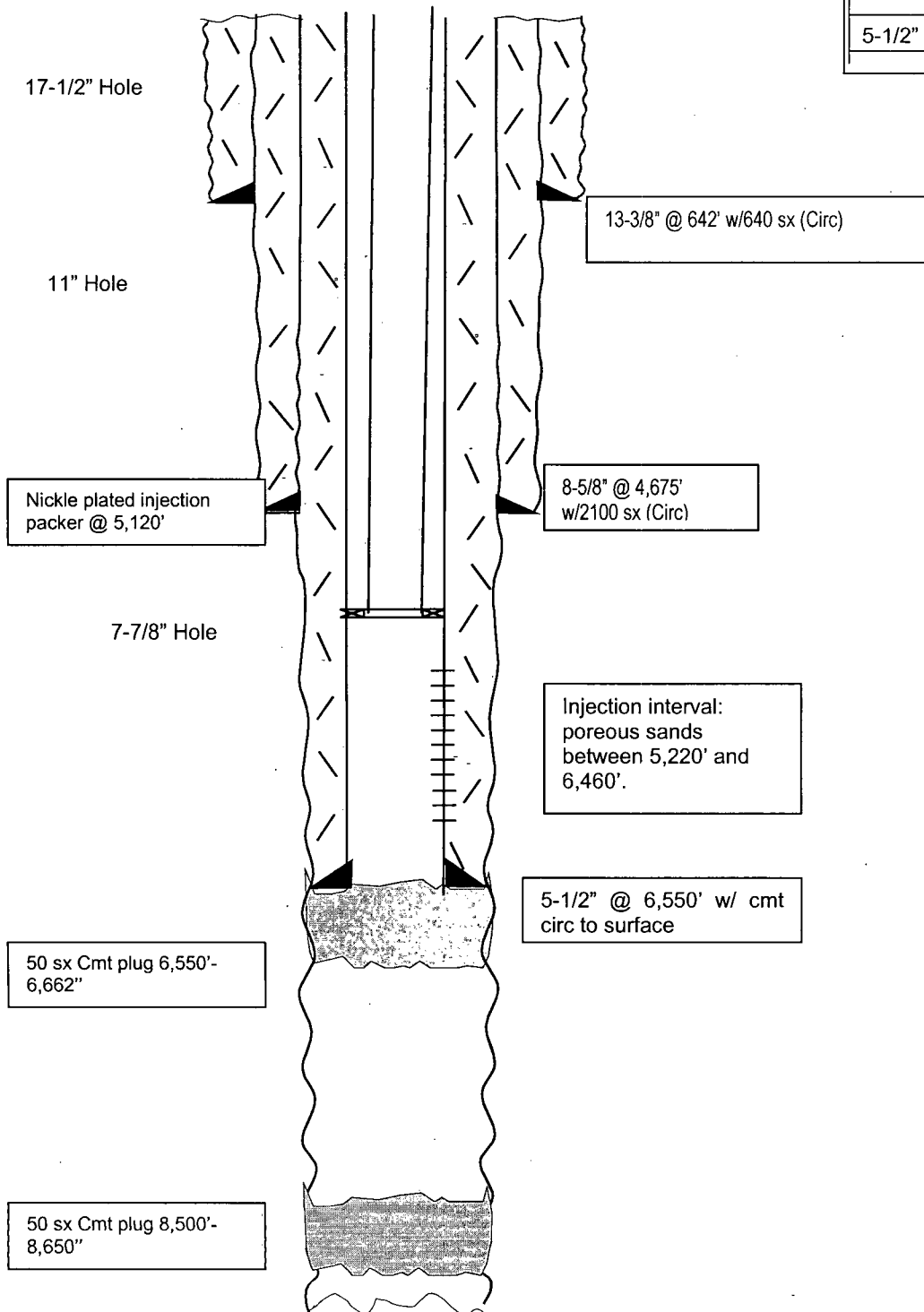
**COMMENTS:** API No.: 30-025-28237

**CASING PROGRAM**

13-3/8" 54.5# K-55	<b>642'</b>
8-5/8" 24# & 32# K-55	<b>4,675'</b>
5-1/2" 15.5 # J-55	<b>6,550'</b>

P&A 8/31/1983

Drilled & P&A by Exxon Corporation



**After**

**TOPS**

Rustler	1,033'
Salado	1,339'
Castille	3,298'
BOS	4,648'
Lamar lime	4,716'
Bell Canyon	4,742'
Cherry Canyon	5,684'
Brushy Canyon	6,976'
Bone Springs	8,634'

**Not to Scale**

9/6/11  
MMFH





State Lse. No.

WEI LOCATION AND ACREAGE DEDICATIO LAT

Federal Lse. No.

All distances must be from the outer boundaries of the Section.

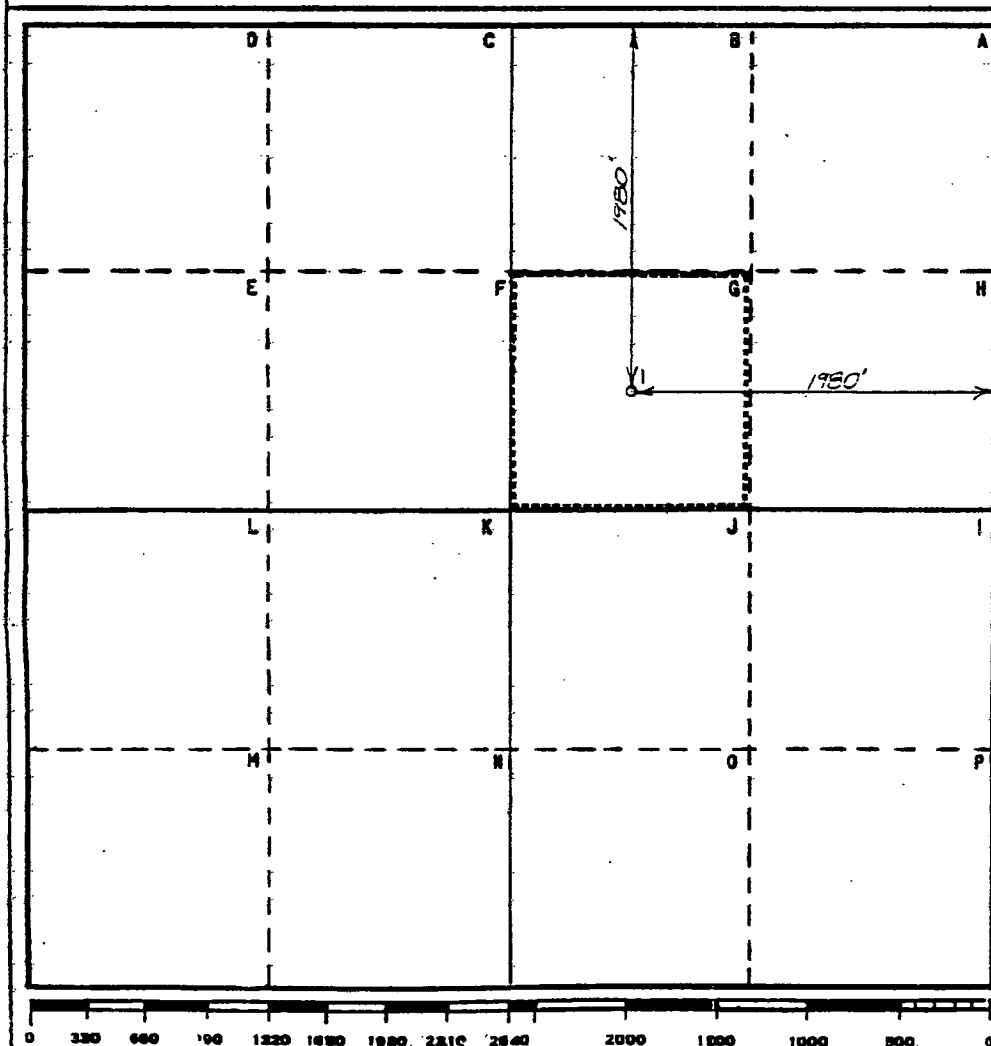
Operator <b>Exxon Corporation</b>			Lease <b>Allen Federal "B" Fed.</b>		Well No. <b>1</b>
Unit Letter <b>G</b>	Section <b>28</b>	Township <b>24 S</b>	Range <b>32 E</b>	County <b>Lea</b>	
Actual Footage Location of Wells: <b>1980</b> feet from the <b>North</b> line and <b>1980</b> feet from the <b>East</b> line					
Ground Level Elev: <b>3540'</b>	Producing Formation <b>Bone Spring</b>	Pool <b>Wildcat</b>		Dedicated Acreage: <b>40</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



## CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name

Position

UNIT HEAD

Company Exxon Corporation

Box 1600 Midland, Texas

Date

5-15-65

I hereby certify that the well location shown on this plat was obtained from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

5-4-65

Registered Professional Engineer and/or Land Surveyor

Certificate No.

6157

16 Miles NE of JAL

New Mexico

C.E. Sec. File No. WA-EC76

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:	33514.1
Region:	PERMIAN BASIN	Account Manager:	TONY HERNANDEZ (575) 910-7135
Area:	ARTESIA, NM	Sample #:	561768
Lease/Platform:	CHEVRON DOT	Analysis ID #:	112209
Entity (or well #):	1 H	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 561768 @ 75 °F					
Sampling Date:	09/02/11	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	09/13/11	Chloride:	77585.0	2188.39	Sodium:	48953.6	2129.36
Analyst:	SANDRA GOMEZ	Bicarbonate:	1049.0	17.19	Magnesium:	201.0	16.54
TDS (mg/l or g/m3):	130774.7	Carbonate:	0.0	0.	Calcium:	1177.0	58.73
Density (g/cm3, tonne/m3):	1.082	Sulfate:	973.0	20.26	Strontium:	166.0	3.79
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.5	0.01
		Borate:			Iron:	27.0	0.98
		Silicate:			Potassium:	642.0	16.42
Carbon Dioxide:	180 PPM	Hydrogen Sulfide:		0 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		6.6	Chromium:		
Comments:		pH at time of analysis:			Copper:		
RESISTIVITY 0.06 OHM-M @ 75°F		pH used in Calculation:		6.6	Lead:		
					Manganese:	0.6	0.02
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO3		Gypsum CaSO4*2H2O		Anhydrite CaSO4		Celestite SrSO4		Barite BaSO4		CO2 Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.43	58.24	-0.90	0.00	-0.90	0.00	0.00	0.00	0.59	0.31	2.11
100	0	0.52	72.41	-0.97	0.00	-0.91	0.00	-0.03	0.00	0.39	0.31	2.67
120	0	0.61	87.20	-1.02	0.00	-0.88	0.00	-0.05	0.00	0.21	0.00	3.28
140	0	0.70	102.61	-1.07	0.00	-0.84	0.00	-0.05	0.00	0.06	0.00	3.94

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

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:	33514.1
Region:	PERMIAN BASIN	Account Manager:	TONY HERNANDEZ (575) 910-7135
Area:	ARTESIA, NM	Sample #:	561784
Lease/Platform:	BE BOP BPE STATE COM	Analysis ID #:	112531
Entity (or well #):	1 H	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	FWKO		

Summary		Analysis of Sample 561784 @ 75 °F					
Sampling Date:	09/09/11	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	09/21/11	Chloride:	63081.0	1779.29	Sodium:	40586.3	1765.4
Analyst:	SANDRA GOMEZ	Bicarbonate:	2318.0	37.99	Magnesium:	193.0	15.88
TDS (mg/l or g/m3):	109484.9	Carbonate:	0.0	0.	Calcium:	1031.0	51.45
Density (g/cm3, tonne/m3):	1.073	Sulfate:	1587.0	33.04	Strontium:	87.0	1.99
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.4	0.01
		Borate:			Iron:	21.0	0.76
		Silicate:			Potassium:	580.0	14.83
Carbon Dioxide:	550 PPM	Hydrogen Sulfide:		0 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		7	Chromium:		
Comments:		pH at time of analysis:			Copper:		
RESISTIVITY 0.075 OHM-M @ 75°F		pH used in Calculation:		7	Lead:		
					Manganese:	0.2	0.01
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO3		Gypsum CaSO4*2H2O		Anhydrite CaSO4		Celestite SrSO4		Barite BaSO4		CO2 Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	1.07	237.63	-0.72	0.00	-0.74	0.00	-0.02	0.00	0.76	0.31	1.91
100	0	1.14	262.81	-0.78	0.00	-0.73	0.00	-0.04	0.00	0.56	0.31	2.56
120	0	1.20	289.25	-0.83	0.00	-0.70	0.00	-0.06	0.00	0.39	0.00	3.37
140	0	1.26	316.32	-0.87	0.00	-0.65	0.00	-0.06	0.00	0.25	0.00	4.38

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.

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Lab Team Leader - Sheila Hernandez  
(432) 495-7240

## Water Analysis Report by Baker Petrolite

Company:	YATES PETROLEUM INC	Sales RDT:	33514.1
Region:	PERMIAN BASIN	Account Manager:	TONY HERNANDEZ (575) 910-7135
Area:	ARTESIA, NM	Sample #:	561785
Lease/Platform:	FARBER 'BOB' FEDERAL	Analysis ID #:	112532
Entity (or well #):	1 H	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WATER TANK		

Summary		Analysis of Sample 561785 @ 75 °F							
Sampling Date:	09/09/11	Anions		mg/l	meq/l	Cations		mg/l	meq/l
Analysis Date:	09/21/11	Chloride:	100163.0		2825.23	Sodium:	62777.3		2730.66
Analyst:	SANDRA GOMEZ	Bicarbonate:	732.0		12.	Magnesium:	477.0		39.24
		Carbonate:	0.0		0.	Calcium:	1914.0		95.51
TDS (mg/l or g/m3):	169505.2	Sulfate:	2501.0		52.07	Strontium:	97.0		2.21
Density (g/cm3, tonne/m3):	1.113	Phosphate:				Barium:	0.2		0.
Anion/Cation Ratio:	1	Borate:				Iron:	9.0		0.33
		Silicate:				Potassium:	834.0		21.33
						Aluminum:			
Carbon Dioxide:	400 PPM	Hydrogen Sulfide:			0 PPM	Chromium:			
Oxygen:		pH at time of sampling:			6.5	Copper:			
Comments:		pH at time of analysis:				Lead:			
RESISTIVITY 0.052 OHM-M @ 75°F		pH used in Calculation:			6.5	Manganese:	0.7		0.03
						Nickel:			

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO3		Gypsum CaSO4*2H2O		Anhydrite CaSO4		Celestite SrSO4		Barite BaSO4		CO2 Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.41	40.41	-0.34	0.00	-0.32	0.00	0.06	8.02	0.49	0.00	1.78
100	0	0.50	49.92	-0.41	0.00	-0.33	0.00	0.03	4.16	0.28	0.00	2.21
120	0	0.58	59.72	-0.48	0.00	-0.32	0.00	0.01	1.49	0.10	0.00	2.67
140	0	0.67	69.82	-0.53	0.00	-0.28	0.00	0.00	0.30	-0.05	0.00	3.16

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.

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P.O. Box 740  
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(806) 229-8121  
Lab Team Leader - Sheila Hernandez  
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## Water Analysis Report by Baker Petrolite

Company:	YATES PETROLEUM INC	Sales RDT:	33514.1
Region:	PERMIAN BASIN	Account Manager:	TONY HERNANDEZ (575) 910-7135
Area:	ARTESIA, NM	Sample #:	561782
Lease/Platform:	PRESEDENTE BPO STATE	Analysis ID #:	112533
Entity (or well #):	1 H	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	HEATER TREATER		

Summary		Analysis of Sample 561782 @ 75 °F							
Sampling Date:	09/09/11	Anions		mg/l	meq/l	Cations		mg/l	meq/l
Analysis Date:	09/21/11	Chloride:	105349.0		2971.51	Sodium:	63429.1		2759.01
Analyst:	SANDRA GOMEZ	Bicarbonate:	1220.0		19.99	Magnesium:	736.0		60.55
TDS (mg/l or g/m3):	176734.1	Carbonate:	0.0		0.	Calcium:	3390.0		169.16
Density (g/cm3, tonne/m3):	1.118	Sulfate:	1367.0		28.46	Strontium:	247.0		5.64
Anion/Cation Ratio:	1	Phosphate:				Barium:	0.7		0.01
		Borate:				Iron:	14.0		0.51
		Silicate:				Potassium:	981.0		25.09
Carbon Dioxide:	600 PPM	Hydrogen Sulfide:			0 PPM	Aluminum:			
Oxygen:		pH at time of sampling:			6.5	Chromium:			
Comments:		pH at time of analysis:				Copper:			
RESISTIVITY 0.048 OHM-M @ 75°F		pH used in Calculation:			6.5	Lead:			
						Manganese:	0.3		0.01
						Nickel:			

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO3		Gypsum CaSO4*2H2O		Anhydrite CaSO4		Celestite SrSO4		Barite BaSO4		CO2 Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.88	139.88	-0.37	0.00	-0.35	0.00	0.18	48.40	0.74	0.30	2.86
100	0	0.96	152.86	-0.45	0.00	-0.36	0.00	0.15	41.61	0.54	0.30	3.55
120	0	1.04	166.14	-0.51	0.00	-0.35	0.00	0.13	37.48	0.36	0.30	4.28
140	0	1.12	179.72	-0.57	0.00	-0.31	0.00	0.13	35.41	0.20	0.00	5.06

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:	33514.1
Region:	PERMIAN BASIN	Account Manager:	TONY HERNANDEZ (575) 910-7135
Area:	ARTESIA, NM	Sample #:	561787
Lease/Platform:	QUITOTE BQJ STATE COM	Analysis ID #:	112534
Entity (or well #):	1 H	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	FWKO		

Summary		Analysis of Sample 561787 @ 75 F									
Sampling Date:	09/09/11	Anions			mg/l	meq/l	Cations			mg/l	meq/l
Analysis Date:	09/21/11	Chloride:	178889.0		5045.81		Sodium:	80707.5		3510.58	
Analyst:	SANDRA GOMEZ	Bicarbonate:	61.0		1.		Magnesium:	3713.0		305.45	
		Carbonate:	0.0		0.		Calcium:	23375.0		1166.42	
TDS (mg/l or g/m3):	289832	Sulfate:	248.0		5.16		Strontium:	1190.0		27.16	
Density (g/cm3, tonne/m3):	1.186	Phosphate:					Barium:	6.5		0.09	
Anion/Cation Ratio:	1	Borate:					Iron:	20.0		0.72	
		Silicate:					Potassium:	1615.0		41.3	
Carbon Dioxide:	500 PPM	Hydrogen Sulfide:			0 PPM		Aluminum:				
Oxygen:		pH at time of sampling:			6.5		Chromium:				
Comments:		pH at time of analysis:					Copper:				
		pH used in Calculation:			6.5		Lead:				
							Manganese:	7.0		0.25	
							Nickel:				

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO3		Gypsum CaSO4*2H2O		Anhydrite CaSO4		Celestite SrSO4		Barite BaSO4		CO2 Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.45	2.38	-0.38	0.00	-0.31	0.00	-0.17	0.00	0.65	2.65	0.09
100	0	0.51	2.91	-0.46	0.00	-0.33	0.00	-0.20	0.00	0.46	2.12	0.11
120	0	0.56	3.18	-0.54	0.00	-0.33	0.00	-0.21	0.00	0.29	1.59	0.14
140	0	0.61	3.71	-0.60	0.00	-0.30	0.00	-0.20	0.00	0.14	0.79	0.16

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:	33514.1
Region:	PERMIAN BASIN	Account Manager:	TONY HERNANDEZ (575) 910-7135
Area:	ARTESIA, NM	Sample #:	561786
Lease/Platform:	RENEGADE BPG FEDERAL	Analysis ID #:	112535
Entity (or well #):	1 H	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	FWKO		

Summary		Analysis of Sample 561786 @ 75 °F					
Sampling Date:	09/09/11	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	09/21/11	Chloride:	156230.0	4406.68	Sodium:	77861.6	3386.79
Analyst:	SANDRA GOMEZ	Bicarbonate:	122.0	2.	Magnesium:	2676.0	220.14
		Carbonate:	0.0	0.	Calcium:	15436.0	770.26
TDS (mg/l or g/m3):	254753.1	Sulfate:	617.0	12.85	Strontium:	772.0	17.62
Density (g/cm3, tonne/m3):	1.166	Phosphate:			Barium:	2.0	0.03
Anion/Cation Ratio:	1	Borate:			Iron:	14.0	0.51
		Silicate:			Potassium:	1019.0	26.06
					Aluminum:		
Carbon Dioxide:	300 PPM	Hydrogen Sulfide:		0 PPM	Chromium:		
Oxygen:		pH at time of sampling:		6	Copper:		
Comments:		pH at time of analysis:			Lead:		
		pH used in Calculation:		6	Manganese:	3.5	0.13
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO3		Gypsum CaSO4*2H2O		Anhydrite CaSO4		Celestite SrSO4		Barite BaSO4		CO2 Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	0.07	1.37	-0.14	0.00	-0.09	0.00	0.11	50.40	0.63	0.82	0.69
100	0	0.15	3.01	-0.23	0.00	-0.11	0.00	0.09	39.99	0.43	0.55	0.82
120	0	0.23	4.38	-0.30	0.00	-0.10	0.00	0.08	35.34	0.25	0.55	0.94
140	0	0.31	6.03	-0.36	0.00	-0.07	0.00	0.08	35.61	0.10	0.27	1.06

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 E**

Certified Notification letters sent to:

**1. Surface owner:**

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

**2. Operators within ½ mile radius:**

Las Animas Production Co  
1031 Andrew Hwy 209  
Midland, TX 79401

Exxon Mobil Oil Corp  
P.O. Box 4358  
Houston, TX 77210-4358

Burlington Mobil Oil Corp  
P.O. Box 51810  
Houston, TX 79710-1810

EOG Resources Inc  
P.O. Box 4362  
Houston, TX 77210-4362

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



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

JOHN A. YATES  
CHAIRMAN OF THE BOARD

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PRESIDENT

SCOTT M. YATES  
VICE PRESIDENT

JAMES S. BROWN  
CHIEF OPERATING OFFICER

JOHN D. PERINI  
CHIEF FINANCIAL OFFICER

September 21, 2011

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

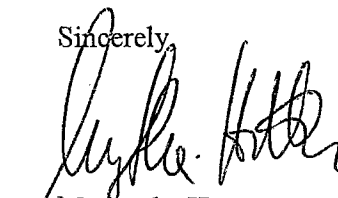
Re: Allen B Federal #1 SWD

Dear Sirs:

Enclosed please find copies of form C-108 (Application for Authority to Inject) on said well located in Section 28 T24S, 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

Enclosures

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1912-1985

FRANK W. YATES

1936-1986

S.P. YATES

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JOHN D. PERINI  
CHIEF FINANCIAL OFFICER

September 21, 2011

Las Animas Production Co  
1031 Andrew Hwy 209  
Midland, TX 79401

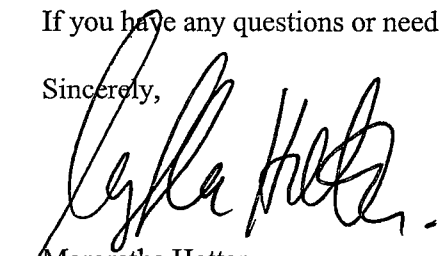
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Sincerely,

  
Margrethe Hotter  
Area Engineer

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CHIEF FINANCIAL OFFICER

September 21, 2011

Burlington Res Oil and Gas  
P.O. Box 51810  
Houston, TX 79710-1810

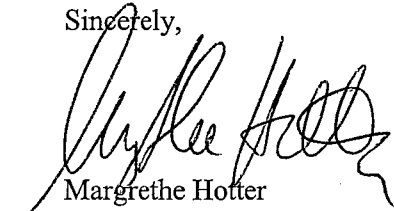
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Sincerely,

  
Margrethe Hotter  
Area Engineer

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SECRETARY

DENNIS G. KINSEY  
TREASURER

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1912-1985

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1936-1986

S.P. YATES  
1914-2008



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

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VICE PRESIDENT

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CHIEF OPERATING OFFICER

JOHN D. PERINI  
CHIEF FINANCIAL OFFICER

September 21, 2011

Exxon Mobil Oil Corp  
P.O. Box 4358  
Houston, TX 77210-4358

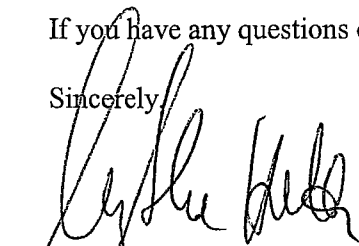
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Sincerely,

  
Margrethe Hotter  
Area Engineer

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SECRETARY

DENNIS G. KINSEY  
TREASURER

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FRANK W. YATES

1936-1986

S.P. YATES

1914-2008



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TELEPHONE (575) 748-1471

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VICE PRESIDENT

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CHIEF OPERATING OFFICER

JOHN D. PERINI  
CHIEF FINANCIAL OFFICER

September 21, 2011

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

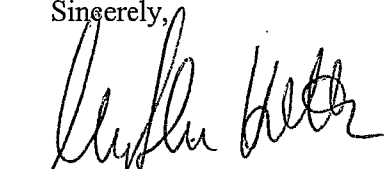
Re: Allen B Federal #1 SWD

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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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1914-2008



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JOHN D. PERINI  
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September 21, 2011

EOG Resources Inc  
P.O. Box 4362  
Houston, TX 77210-4362

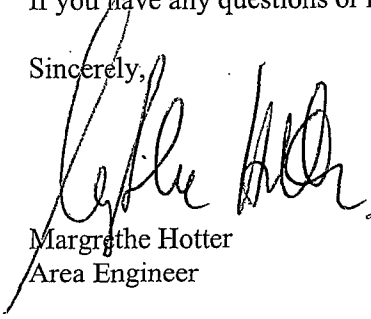
Re: Allen B Federal #1 SWD

Dear Sirs:

Enclosed please find copies of form C-108 (Application for Authority to Inject) on said well located in Section 28 T24S, R32E of Lea County, New Mexico.

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

Sincerely,

  
Margrthe Hotter  
Area Engineer

Enclosures

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Return Receipt Fee (Endorsement Required)	
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Total Postage & Fees	\$ 6.19
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EOG Resources Inc	
P.O. Box 4362	
Houston, TX 77210-4362	
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KATHY H. PORTER  
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DENNIS G. KINSEY  
TREASURER

# Affidavit of Publication

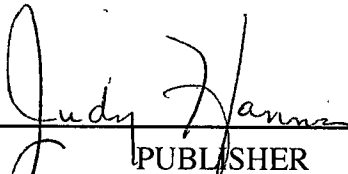
State of New Mexico,  
County of Lea.

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).

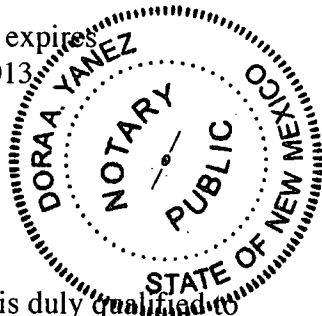
Beginning with the issue dated  
September 25, 2011  
and ending with the issue dated  
September 25, 2011

  
PUBLISHER

Sworn and subscribed to before me  
this 30th day of  
September, 2011

  
Notary Public

My commission expires  
February 09, 2013  
(Seal)



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	LEGAL
<b>Legal Notice</b> <b>SEPTEMBER 25, 2011</b>	
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 Allen B Fed #1 SWD, located 1980' FNL & 1980' FEL, Unit G, Section 28, Township 24 South, Range 32 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 5,220'-6460', with a maximum pressure of 1150psi 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.	
#26875	

01101029

00080271

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

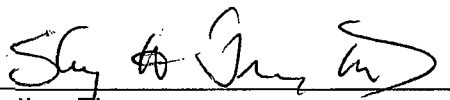
Attachment F

**Attachment G**

C-108 Application for Authorization to Inject  
Yates Petroleum Corporation  
Allen B Fed #1 SWD

Unit G, Section 28-T24S-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.

  
\_\_\_\_\_  
Sterling Fly  
Geologist  
Yates Petroleum Corporation

9/21/2011  
Date



**Jones, William V., EMNRD**

---

**From:** Ingram, Wesley W [wingram@blm.gov]  
**Sent:** Saturday, October 01, 2011 12:16 PM  
**To:** Jones, William V., EMNRD  
**Subject:** Yates Petroleum - Allen B Federal 1 SWD  
**Attachments:** Allen B Fed 1 SWD Yates 100111.docx

Will,

I am attaching another review. This one is for the Allen B Fed 1 SWD. The BLM will not object to this one, but I have included some points that we will be watching.

Sincerely,  
Wesley W. Ingram  
Supervisory Petroleum Engineer  
Carlsbad Field Office  
620 E. Greene Street  
Carlsbad, NM 88220  
575-234-5982

**Allen B Fed 1 SWD (30-025-28237)**  
**October 1, 2011**

**Although the BLM will not object to the conversion of this plugged well to an SWD well, we do have the following comments.**

- 1. The surface casing may not cover all of the surface water and would not have been set in a competent bed as the first competent bed is the Rustler. However, the proposal to install another casing and cement to surface should provide adequate protection.**
- 2. Proposed perforations include part of the Bell Canyon, which the operator lists as the next higher producing zone. As a result, the injection zone may need to be modified to be for the Cherry Canyon only.**
- 3. Operator will be required to verify no production in paying quantities from the injection zone.**
- 4. Proposed casing setting depth will reduce the plug from 6,512' – 6,662' below BLM minimum for that depth. Plug should be 165' in length. The plug does gain the shoe cement volume, which should put it back to essentially the approved plug thickness.**
- 5. The BLM will not approve a proppant frac unless operator can verify that injection fluids will not migrate from approved injection interval if the application is approved.**

**WWI 100111**

**Jones, William V., EMNRD**

---

**From:** Margrethe Hotter [Margreth@yatespetroleum.com]  
**Sent:** Thursday, October 27, 2011 12:25 PM  
**To:** Jones, William V., EMNRD  
**Subject:** RE: Disposal application from Yates Petroleum Corporation: Allen B Federal SWD #1 30-025-28237 Delaware approx 5220 to 6460 feet  
**Attachments:** Allen B Fed #1\_SWD\_AFTER.doc

Hello,

The formation tops should be on the wellbore sketch I submitted. I have attached the wellbore sketch to the email.

We do not plan any production testing for this well. The re-entry will be for injection only. There are no production from the zone we are planning to inject into in this area, neither in the immediate area nor the townships around. There are some old, minor production with high water cut in the upper Bell Canyon (above the proposed injection interval) the next productive interval is the Brushy Canyon as we identified in the Haracz wells west of this well and the Bone Springs, currently mostly the Avalon Shale. This well was drilled and abandoned, nothing found worthy of testing from Bell Canyon down to the Bone Springs. The closest wells to the Allen B Fed #1 and in between this well and the producing wells are dry holes as well, drilled through the Bell Canyon zone and non productive.

There are two injection wells to the east, the Exxon A Fed #2 and US Smelting Fed #5, both injecting into perms in the Bell Canyon interval that is/was produced in their surrounding wells. The recent Turquoise SWD well just west of this well in section 30 (SWD order 1203) were approved to injection into the exactly same sands that we are proposing to inject into.

Regards,  
Margrethe Hotter

-----Original Message-----

**From:** Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]  
**Sent:** Wednesday, October 26, 2011 6:35 PM  
**To:** Margrethe Hotter  
**Cc:** Ezeanyim, Richard, EMNRD; [Wesley Ingram@blm.gov](mailto:Wesley_Ingram@blm.gov); Gonzales, Elidio L, EMNRD  
**Subject:** Disposal application from Yates Petroleum Corporation: Allen B Federal SWD #1 30-025-28237 Delaware approx 5220 to 6460 feet

Hello Margrethe,

Would you please ask a geologist to pick tops of:

- a. Delaware or Bell Canyon
- b. Cherry Canyon if possible
- c. Brushy Canyon if possible
- d. Bone Spring

What sort of production testing would be done over the proposed disposal interval? ...

Would you send a brief log analysis of this interval showing ave Por and Sw – or something equivalent?

Thank You,

William V Jones, P.E.  
Engineering, Oil Conservation Division  
1220 South St. Francis Drive, Santa Fe, NM 87505  
Tel 505.476.3448 ~ Fax 505.476.3462

## Injection Permit Checklist (11/15/2010)

WFX PMX SWD 1301 Permit Date 11/3/11 UIC Qtr (45ND)# Wells 1 Well Name(s): Allen B F-1API Num: 30-05-28237 Spud Date: 7/29/83 New/Old: N (UIC primacy March 7, 1982)Footages 1980 FNL/FEL Unit G Sec 28 Tsp 245 Rge 32E County LeaGeneral Location: 10 mi SE of WIPPOperator: Yates & Brown Corporation Contact Margaret F. HOTELOGRID: 25575 RULE 5.9 Compliance (Wells) 3/2362 (Finan Assur) OK IS 5.9 OK? OKWell File Reviewed Current Status: BS-TestPlanned Work to Well: Re-enter / Run CSG / CMT / Perf / DISPOSEDiagrams: Before Conversion ✓ After Conversion ✓ Elogs in Imaging File: ✓

Well Details:	Sizes Hole, Pipe	Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
New Existing <u>✓</u> Surface	17 1/2 13 7/8	642		640	CIRC
New Existing <u>✓</u> Interm	11 8 7/8	4675		2100	CIRC
New Existing <u>✓</u> LongSt	7 7/8 5 1/2	6550		?	Plan to CIRC
New Existing <u>✓</u> Liner					
New Existing <u>✓</u> OpenHole					

Depths/Formations: Depths, Ft. Formation Tops?

Formation(s) Above

Injection TOP: <u>5220</u>	<u>1</u> <u>Del</u>	Max. PSI <u>1044</u>	Open Hole <u>✓</u>	Perfs <u>✓</u>
Injection BOTTOM: <u>6460</u>	<u>Del</u>	Tubing Size <u>3 1/2</u>	Packer Depth <u>5120'</u>	

Formation(s) Below

Capitan Reef? (Potash? Noticed?) [WIPP? Noticed?] Salado Top/Bot 1339-3298 Cliff House?Fresh Water: Depths: 600' Formation Wells? No Analysis? Affirmative Statement ✓Disposal Fluid Analysis? Sources: BS/DEL

Disposal Interval: Analysis? Production Potential/Testing:

Notice: Newspaper Date 9/25/11 Surface Owner BLM Mineral Owner(s)RULE 26.7(A) Affected Persons: XOY / L / Van Hook / etcAOR: Maps? ✓ Well List ✓ Producing in Interval? No Wellbore Diagrams?Active Wells 0 Repairs? Which Wells?P&A Wells 0 Repairs? Which Wells?

Issues:

Request Sent Reply: